Cybervelo EK4

Cybervelo EK4 Max Electric Bike User Manual

Model: EK4 | Brand: Cybervelo

1. Important Safety Information

Please read this entire manual carefully before operating your Cybervelo EK4 Max Electric Bike. Failure to follow instructions and safety warnings could result in serious injury or property damage. Keep this manual for future reference.

- Always wear a helmet that meets safety standards when riding.
- Obey all local traffic laws and regulations.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery, and all connections.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and ride defensively.
- Avoid riding in adverse weather conditions, such as heavy rain or snow, which can reduce visibility and traction.

2. Product Overview

The Cybervelo EK4 Max is a versatile electric bike designed for various terrains, featuring a powerful motor, long-range battery, and a foldable frame for convenient storage and transport.



Figure 2.1: The Cybervelo EK4 Max Electric Bike, showcasing its robust design and yellow finish.

Key Features:

- 1000W (1500W Peak) High-Speed Brushless Motor
- 48V 20.8Ah Large Capacity Removable Battery
- Up to 30 MPH Top Speed and 100 Miles Max Range
- 20-inch Fat Tires for All-Terrain Capability
- 7-Speed Shimano Transmission System
- Dual Disc Brakes with EABS Power-Off Brake
- Foldable High Carbon Steel Frame

- Smart LCD Display with USB Charging Port

3. Setup and Assembly

Your Cybervelo EK4 Max Electric Bike arrives 90% pre-assembled. Follow these steps to complete the assembly and prepare for your first ride.

3.1 Unboxing and Initial Inspection

- Carefully remove the bike and all components from the packaging.
- Inspect for any shipping damage. Contact customer service immediately if any damage is found.
- Confirm all included components are present: main bike frame, front wheel, handlebars, seat, pedals, front fender, headlight, taillight, charger, and tool kit.

3.2 Assembly Steps

1. **Install the Front Fender and Wheel:** Attach the front fender, then secure the front wheel into the fork using the quick-release mechanism or axle nuts. Ensure it is centered and tight.
2. **Attach the Handlebars:** Insert the handlebar stem into the head tube and tighten the clamping bolts. Adjust the angle for comfortable riding.
3. **Install the Seat:** Insert the seat post into the frame's seat tube. Adjust the seat height for proper leg extension and tighten the quick-release lever or bolt.
4. **Attach the Pedals:** Identify the left (L) and right (R) pedals. The left pedal screws counter-clockwise, and the right pedal screws clockwise. Tighten securely with a wrench.
5. **Connect Lights:** Ensure the headlight and taillight are securely mounted and connected, if not already.

3.3 Battery Charging

The battery may have a partial charge upon arrival. For optimal performance and battery longevity, fully charge the battery before first use. A full charge typically takes approximately 4 hours.



Figure 3.1: The 48V 20.8Ah removable battery, indicating a 4-hour charging time and up to 100 miles max range.

- Locate the charging port on the battery or bike frame.
- Connect the charger to the battery, then plug the charger into a standard electrical outlet.
- The charger indicator light will typically turn red during charging and green when fully charged.
- The battery can be charged while installed on the bike or removed.

4. Operating Instructions

Familiarize yourself with the controls and functions of your Cybervelo EK4 Max Electric Bike for a safe and enjoyable riding experience.

4.1 Powering On/Off and Display



Figure 4.1: The smart LCD display, providing essential riding information and a convenient USB charging port.

- **Power On:** Press and hold the power button on the LCD display until the screen illuminates.
- **Power Off:** Press and hold the power button again until the display turns off.
- **LCD Display:** The display shows real-time speed, mileage (trip/odometer), battery level, and current assist mode. It also features a USB charging port for external devices.

4.2 Riding Modes

The EK4 Max offers three riding modes to suit your preference and terrain:

- **Pure Electric Mode:** Engage the throttle for motor-only propulsion without pedaling.
- **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. Use the '+' and '-' buttons on the display to select from five levels of pedal assist, from minimal to maximum assistance.
- **Pure Pedal Mode:** Ride the bike like a traditional bicycle with no motor assistance.

4.3 Gear Shifting

The 7-speed Shimano transmission allows you to adjust your pedaling effort to different speeds and inclines. Use the shifter on the handlebars to change gears smoothly while pedaling.

4.4 Braking System

The bike is equipped with front and rear double disc brakes and an EABS power-off brake for reliable stopping power.

- Squeeze the brake levers on the handlebars to engage the brakes.
- Apply both brakes simultaneously for balanced and effective stopping.
- The EABS system cuts motor power when brakes are applied, enhancing safety.

4.5 Folding Mechanism

The EK4 Max features a convenient folding design for easy storage and transport.



Figure 4.2: The EK4 Max in its folded state, demonstrating its portability and space-saving design.

- Locate the folding levers on the frame and handlebar stem.

- Open the levers and carefully fold the bike in half.
- Secure the folded sections with the safety latches.
- The handlebars and seat post can also be lowered for a more compact form.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your Cybervelo EK4 Max Electric Bike.

5.1 Battery Care

- Charge the battery regularly, even if not in frequent use, to maintain its health.
- Avoid completely draining the battery before recharging.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery to 50-70% capacity.

5.2 Tire Maintenance



Figure 5.1: The 20-inch fat tires are designed for superior grip and stability across diverse terrains.

- Check tire pressure before each ride. Maintain pressure within the recommended range (typically found on the tire sidewall).
- Inspect tires for wear, cuts, or punctures. Replace worn tires promptly.

5.3 Brakes and Gears

- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers are firm and responsive. Adjust cable tension if needed.
- Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- Check gear shifting for smooth operation. Adjust derailleur if gears are skipping or not shifting properly.

5.4 General Cleaning and Inspection

- Clean the bike regularly with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- Periodically check all bolts, nuts, and quick-release levers to ensure they are securely tightened.

- Inspect electrical connections for any signs of damage or corrosion.

6. Troubleshooting

This section provides solutions to common issues you might encounter with your Cybervelo EK4 Max Electric Bike.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is not charged or not properly seated.	Ensure battery is fully charged and securely inserted into its compartment. Check battery connection.
Motor not assisting.	Pedal assist level is set to zero, or a brake lever is engaged.	Increase pedal assist level on the display. Release brake levers completely. Check motor cable connection.
Brakes feel weak or spongy.	Worn brake pads or loose brake cable.	Inspect brake pads and replace if worn. Adjust brake cable tension or have a professional service the brakes.
Gears are skipping or not shifting smoothly.	Derailleur out of adjustment or dirty chain.	Clean and lubricate the chain. Adjust the derailleur limits and cable tension.
Unusual noises during riding.	Loose components, dry chain, or brake rub.	Check all bolts and connections. Lubricate chain. Inspect brake calipers for rubbing and adjust if necessary.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Cybervelo customer service for assistance.

7. Specifications

Detailed technical specifications for the Cybervelo EK4 Max Electric Bike.



Figure 7.1: The powerful 1160W Peak Brushless Motor, designed for high performance and climbing capability.

Feature	Specification
Model	EK4 Max
Motor	1000W (1500W Peak) Brushless Motor
Battery	48V 20.8Ah Removable Lithium-Ion
Max Speed	Up to 30 MPH
Max Range	Up to 100 Miles (Pedal Assist Mode)
Charging Time	Approx. 4 hours
Wheel Size	20 Inches Fat Tires

Feature	Specification
Frame Material	High Carbon Steel, Foldable
Brake Type	Front & Rear Dual Disc Brakes, EABS Power-Off Brake
Suspension	Dual Suspension (Front Fork & Seatpost)
Gears	7-Speed Shimano Transmission
Load Capacity	Up to 330 lbs (150 kg)
Display	Smart LCD Display with USB Charging Port
Included Components	Mudguard, Tool Kit, Charger, Pedals



Figure 7.2: The EK4 Max is built to carry more with ease, supporting a load capacity of up to 330 lbs.

8. Warranty and Customer Support

Cybervelo is committed to providing reliable products and excellent customer service.

8.1 Warranty Information

Your Cybervelo EK4 Max Electric Bike comes with a **one-year warranty** covering the motor, battery, and controller from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage due to misuse, accidents, unauthorized modifications, or normal wear and tear.

8.2 Customer Support

Our dedicated customer support team is available 24/7 to assist you with any questions, concerns, or technical issues you may have. Please have your product model and purchase information ready when contacting support.
For support, please visit the official Cybervelo website or refer to your purchase documentation for contact details.

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