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CBVELO EK2-Blue-v1

CBVELO 1000W Electric Bike User Manual

Model: EK2-Blue-v1

1. Introduction

Welcome to the CBVELO Electric Bike user manual. This manual provides essential information for the safe and efficient operation, assembly, and maintenance of your new 1000W electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

The CBVELO EK2-Blue-v1 electric bike is designed for adults, offering a powerful 1000W motor, a long-lasting 48V 720WH removable battery with up to 80 miles max range, and a 7-speed transmission system. It features a robust high carbon steel frame, front suspension, and dual disc brakes for a comfortable and secure riding experience.



Figure 1.1: The CBVELO 1000W Electric Bike (Blue model shown with other color options).

2. Safety Information

Your safety is paramount. Always adhere to local traffic laws and regulations. Wear a helmet and appropriate safety gear when riding. Perform pre-ride checks before each use.

2.1 General Safety Guidelines

- Always wear a certified helmet.
- Ensure all bolts and quick releases are securely tightened before each ride.
- Check tire pressure and brake functionality regularly.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and other road users.
- Avoid riding in adverse weather conditions if possible.

2.2 Battery Safety

- Only use the charger provided by CBVELO.
- Do not expose the battery to extreme temperatures or direct sunlight.
- Do not puncture, drop, or disassemble the battery.
- Charge the battery in a well-ventilated area, away from flammable materials.

- If the battery shows signs of damage or overheating, discontinue use immediately and contact support.

3. Package Contents

Your CBVELO Electric Bike package includes the following components:

- CBVELO Electric Bike (90% pre-assembled)
- Removable Lithium-ion Battery (48V 720WH)
- Battery Charger
- User Manual (this document)
- Assembly Tools Kit
- Horn (pre-installed or separate, as per model)

Please inspect all components upon arrival. If any parts are missing or damaged, contact customer service immediately.

4. Setup and Assembly

The CBVELO Electric Bike arrives 90% pre-assembled. The remaining assembly steps are straightforward and typically include attaching the front wheel, handlebars, pedals, and seat.

4.1 Unpacking

1. Carefully remove the bike and all components from the packaging.
2. Remove all protective packaging materials.
3. Retain the original packaging for future transport or warranty claims.

4.2 Component Installation

Follow these steps to complete the assembly:

1. **Install the Front Wheel:** Align the front wheel with the front fork. Ensure the disc brake rotor slides correctly into the caliper. Secure the wheel using the quick-release skewer or axle nuts.
2. **Attach the Handlebars:** Insert the handlebar stem into the fork steerer tube. Adjust the height and angle for comfortable riding, then tighten the stem bolts securely.
3. **Install the Pedals:** Identify the left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Apply a small amount of grease to the threads before installation.
4. **Adjust the Seat:** Insert the seat post into the frame's seat tube. Adjust the seat height using the quick-release lever to ensure your legs have a slight bend at the knee when the pedal is at its lowest point.
5. **Install the Battery:** Insert the fully charged battery into its designated compartment on the frame. Ensure it clicks securely into place.

After assembly, double-check all connections and bolts for tightness. Refer to the included assembly tools for proper tightening.

5. Operating Instructions

Understanding the controls and riding modes will enhance your riding experience.

5.1 Battery Charging

The 48V 720WH lithium-ion battery provides a range of up to 80 miles on a single charge. A full charge typically takes 6 hours.

- **On-Bike Charging:** Connect the charger directly to the charging port on the bike.
- **Off-Bike Charging:** Remove the battery from the bike and connect it to the charger.

The charger indicator light will turn green when charging is complete.



Figure 5.1: Removable Battery Features and Charging.

5.2 LCD Display and Controls

The integrated LCD display provides real-time information and allows you to select riding modes.



Figure 5.2: Key Features including the LCD Display.

- **Power On/Off:** Press and hold the power button on the display.
- **Information Displayed:** Real-time speed, battery power, pedal assist levels, mileage (trip/total), and more.
- **Cruise Control:** Can be activated/deactivated via a button on the display.

5.3 Riding Modes

Your CBVELO e-bike offers 5 riding modes and 5 Pedal Assist Levels (PAS) for versatile riding.

- **Pure Electric Mode:** The bike is powered solely by the motor, controlled by the throttle.
- **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. There are 5 levels of assistance, allowing you to choose the amount of power boost.
- **Classic Bike Mode:** The electric assist is off, and the bike functions as a traditional bicycle.

5.4 Gearing and Braking

- **7-Speed Transmission:** Use the thumb shifter to change gears, adapting to different terrains and inclines.

- **Mechanical Disc Brakes:** The front and rear mechanical disc brakes, combined with the EABS system, provide powerful and reliable stopping power. Always apply both brakes simultaneously for optimal control.



Figure 5.3: Powerful 1000W Motor and 7-Speed System.

6. Maintenance

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

6.1 Cleaning

- Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washing, especially near electrical components.
- Do not submerge any electrical parts in water.

6.2 Battery Care

- Charge the battery fully before long-term storage.

- If storing for extended periods, charge the battery every 1-2 months to maintain its health.
- Store the battery in a cool, dry place.

6.3 Component Checks

- **Brakes:** Check brake pads for wear and ensure brake levers engage smoothly. Adjust cable tension as needed.
- **Tires:** Maintain recommended tire pressure (check sidewall for PSI). Inspect tires for cuts, punctures, or excessive wear.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Bolts and Fasteners:** Periodically check and tighten all bolts, especially on the handlebars, seat post, and wheels.
- **Suspension:** The front fork spring shock absorbers require minimal maintenance but ensure they move freely.



Figure 6.1: Front Suspension Fork for enhanced control.

7. Troubleshooting

This section addresses common issues you might encounter with your CBVELO Electric Bike.

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged or not properly installed.	Ensure battery is fully charged and securely seated in its compartment. Check connections.
Motor not assisting.	PAS level set to 0, battery low, or brake levers engaged.	Increase PAS level on the LCD display. Charge battery. Ensure brake levers are fully released.
Short battery range.	Under-inflated tires, riding uphill frequently, heavy load, or cold weather.	Check tire pressure. Use lower PAS levels or pedal more. Reduce load. Battery performance can be reduced in cold temperatures.
Brakes feel weak.	Worn brake pads, loose cables, or air in hydraulic system (if applicable).	Inspect and replace brake pads if worn. Adjust brake cable tension. If issue persists, consult a bike mechanic.
Gears are not shifting smoothly.	Dirty chain, misaligned derailleur, or stretched cable.	Clean and lubricate the chain. If shifting issues persist, professional adjustment may be required.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact CBVELO customer support.

8. Specifications

Feature	Detail
Model Name	EK2-Blue-v1 / EK2-CBV-lan
Bike Type	Electric Bike
Age Range	Adult
Motor Power	1000W Peak Brushless Motor
Max Speed	Up to 25+ MPH (28 MPH stated in some visuals)
Battery	48V 720WH Removable Lithium-ion
Max Range	Up to 80+ Miles (Pedal Assist), 24-49 Miles (Throttle)
Charge Time	Approx. 6 hours
Number of Speeds	7-Speed Transmission
Wheel Size	26 Inches
Frame Material	High Carbon Steel
Suspension	Front Fork Spring Shock Absorbers
Brakes	Front and Rear Mechanical Disc Brakes with EABS system
Display	Color LCD Display (real-time speed, battery, PAS levels, mileage)

Feature	Detail
Riding Modes	Pure Electric, Pedal Assist (5 levels), Classic Bike
Max Weight Capacity	350 Pounds
Dimensions (LxWxH)	69 x 28 x 34 inches
Assembly Required	Yes (90% pre-assembled)
UPC	767176618049

9. Warranty and Support

CBVELO provides a **1-Year Limited Warranty** on the electric bike. We are committed to providing 100% satisfaction with 365-day support and responsive customer service within 24 hours.

For warranty claims, technical assistance, or any questions regarding your electric bike, please contact CBVELO customer service. Please have your model number (EK2-Blue-v1) and proof of purchase ready when contacting support.

Contact Information: Please refer to the contact details provided on the CBVELO official website or your purchase documentation.

10. Official Product Videos

No official seller videos were provided for this product in the available data. Please check the product listing page or the manufacturer's website for any available video guides or demonstrations.

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