Cybervelo MARS700U

Cybervelo MARS700 Electric Bike User Manual

Model: MARS700U

1. Introduction

Welcome to the user manual for your new Cybervelo MARS700 Folding Electric Bike. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your e-bike. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.

Important Safety Information

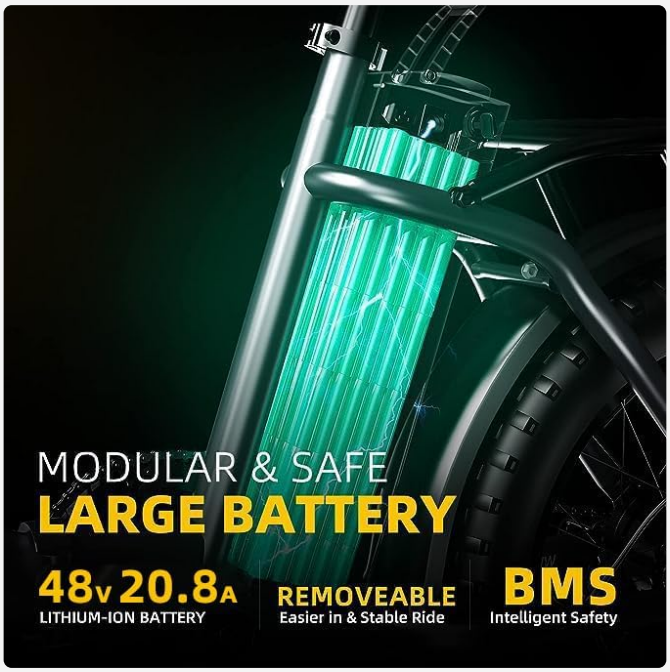
- Always wear a helmet when riding.
- Familiarize yourself with local traffic laws and regulations.
- Perform a pre-ride inspection before each use, checking brakes, tires, and battery.
- Do not operate the e-bike under the influence of alcohol or drugs.
- Be aware of your surroundings and ride defensively.

2. Key Features

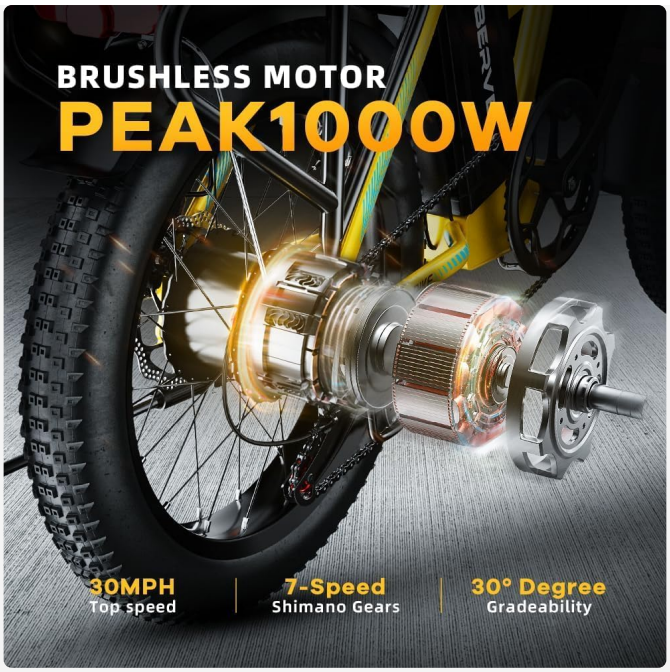
The Cybervelo MARS700 is designed for versatility and performance, offering a robust riding experience across various terrains.



The Cybervelo MARS700 Folding Electric Bike, showcasing its design and available color variations.



Peak 1160W Motor: Equipped with a powerful 750W (peak 1160W) brushless motor, allowing speeds up to 30 MPH and offering 5 levels of pedal assist.



High Capacity Removable Battery: Features a 48V 20.8Ah lithium battery, providing a range of up to 60 miles in electric mode and 100 miles in assist mode.



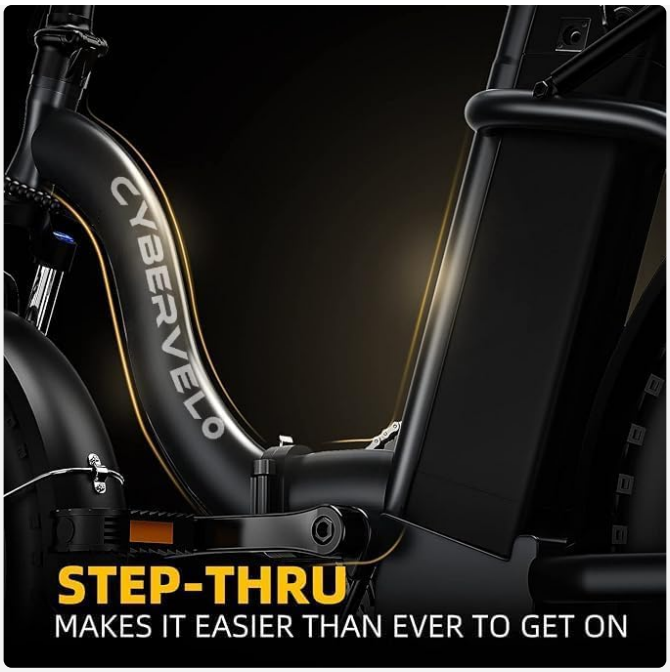
20*3.0 Inch Fat Tires: Wide tires provide excellent traction and stability, making the bike suitable for diverse terrains including snow, mountains, and city streets.



Dual Suspension System: Equipped with a dual suspension system for a smoother and more comfortable ride, absorbing shocks from uneven surfaces.



330 lbs Load Capacity: The sturdy rear rack is designed to carry up to 330 pounds, making it practical for commuting or carrying gear.



Step-Thru Frame: The low-step frame design makes it easier to mount and dismount the bike, enhancing accessibility for all riders.



Integrated Features: Includes LED headlights for visibility, an adjustable seat for comfort, a large LCD display for ride data, and durable fat tires.

3. Setup and Assembly

Your Cybervelo MARS700 electric bicycle is delivered approximately 90% pre-assembled. The remaining steps are straightforward and require minimal tools, which are typically included.

Assembly Steps:

1. **Unpacking:** Carefully remove the bike and all components from the packaging. Retain packaging for future transport or storage.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring they are centered and tightened securely. Adjust the angle for comfortable riding.

3. **Pedal Installation:** Identify the left (L) and right (R) pedals. The left pedal screws counter-clockwise, and the right pedal screws clockwise. Ensure they are fully tightened.
4. **Seat Post Installation:** Insert the seat post into the frame and adjust the seat height to a comfortable riding position, ensuring your feet can touch the ground when stopped. Secure with the quick-release lever.
5. **Battery Installation & Charging:** Insert the battery into its compartment and lock it securely. Fully charge the battery before your first ride. Connect the charger to the battery port and then to a power outlet. The indicator light on the charger will show charging status.
6. **Tire Inflation:** Check and inflate tires to the recommended pressure, typically found on the tire sidewall.
7. **Pre-Ride Check:** Before riding, ensure all bolts and quick releases are tightened, brakes are functioning correctly, and tires are properly inflated.

4. Operation

Understanding the controls and modes of your Cybervelo MARS700 will enhance your riding experience.

Powering On/Off

- To turn on the e-bike, press and hold the power button on the LCD display until the screen illuminates.
- To turn off, press and hold the power button again until the display shuts down.

LCD Display Functions

The intelligent LCD display provides real-time information:

- **Battery Status:** Shows remaining battery charge.
- **Current Speed:** Displays your current riding speed.
- **Total Distance (Odometer):** Tracks the total distance ridden.
- **Trip Distance:** Resettable distance for individual rides.
- **Power Output:** Indicates the motor's power assistance level.
- **Error Codes:** Alerts you to any system malfunctions.
- **Lighting Control:** Allows you to turn the integrated lights on/off.

Riding Modes

Your MARS700 offers multiple riding modes:

- **Pedal Assist Mode (PAS):** Provides motor assistance as you pedal. Use the '+' and '-' buttons on the display to select from 5 different assist levels. Higher levels provide more assistance.
- **Throttle Mode:** Engages the motor without pedaling. Simply twist the throttle grip to accelerate. This mode is ideal for quick boosts or when you prefer not to pedal.
- **Manual Pedal Mode:** Ride the bike like a traditional bicycle without any motor assistance.

Gears and Braking

- **7-Speed Shimano Gears:** Use the gear shifter on the handlebar to change gears according to terrain and desired speed. Lower gears are for climbing, higher gears for flat terrain.
- **Mechanical Disc Brakes:** The bike is equipped with front and rear mechanical disc brakes for reliable stopping power. Squeeze both brake levers simultaneously for effective braking.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your Cybervelo MARS700 e-bike.

Battery Care

- Charge the battery regularly, even if not in 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.
- Use only the original charger provided with your e-bike.

Tires

- Check tire pressure before each ride and inflate to the recommended PSI.
- Inspect tires for wear, cuts, or punctures regularly.

Brakes

- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers are firm and responsive. Adjust cable tension if levers feel spongy.
- Listen for any unusual noises during braking, which may indicate an issue.

Chain and Drivetrain

- Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- Inspect gears and derailleur for proper alignment and function.

General 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. Troubleshooting

This section addresses common issues you might encounter with your Cybervelo MARS700 e-bike.

Common Issues and Solutions:

- **Bike Not Turning On:**
  - Ensure the battery is fully charged and properly seated in its compartment.
  - Check all electrical connections for looseness or damage.
  - Verify the battery is locked into place.
- **Motor Not Providing Assistance:**
  - Check the pedal assist level on the LCD display; ensure it's not set to '0'.
  - Ensure the throttle is not stuck or damaged.
  - Look for any error codes displayed on the LCD and refer to the display's specific manual for their meaning.

- **Brakes Rubbing or Squealing:**
    - Inspect the brake calipers and rotors for misalignment.
    - Adjust the brake caliper position to ensure the pads are centered over the rotor.
    - Clean brake rotors and pads if contaminated with oil or grease.
- **Difficulty Shifting Gears:**
    - Check the derailleur alignment and adjust if necessary.
    - Ensure the chain is clean and properly lubricated.
    - Inspect shifter cables for fraying or stretching.

Advanced Setting: Speed Limit Adjustment (PO8)

For advanced users, the maximum speed setting of the e-bike can be adjusted via the LCD display. This modification should only be performed in accordance with local laws and regulations regarding electric bicycle speed limits.
Procedure:

1. Press and hold the '+' and '-' buttons on the display simultaneously to enter the settings menu.
2. Press the power button repeatedly until you reach the 'PO8' setting.
3. The current speed limit (e.g., '00032' for 32 MPH) will be displayed.
4. Use the '-' button to change the value. For example, to set a higher limit, you might change '00032' to '00100' (representing 100, which is often a placeholder for 'unlimited' or a very high value, depending on the controller).
5. Leave the display untouched for a few seconds; the new setting will automatically save and the display will return to the main screen.

Disclaimer: Modifying the speed limit may void your warranty and could be illegal in certain jurisdictions. Always comply with local regulations.

7. Specifications

Feature	Specification
Brand	Cybervelo
Model Number	MARS700U
Motor Wattage	1000W (Peak 1160W)
Battery	48V 20.8Ah Lithium-ion
Max Speed	Up to 30 MPH (unlockable to higher speeds)
Electric Mode Range	Up to 60 Miles
Pedal Assist Mode Range	Up to 100 Miles
Wheel Size	20 Inches (20*3.0 Fat Tires)
Number of Speeds	7 (Shimano Gears)
Brake Type	Mechanical Disc Brakes (Front & Rear)

Feature	Specification
Frame Material	High Carbon Steel
Suspension	Dual Suspension
Item Weight	34.5 kg (76 lbs)
Max Load Capacity	330 lbs
Special Features	Folding Design, Removable Battery, LCD Display, LED Headlights, Mudguard
Age Range	Adult
Colour	Pink (other colors may be available)

8. Warranty and Support

Warranty Information

Cybervelo offers a **one-year warranty** for the motor, battery, and controller of your MARS700 electric bike. This warranty covers manufacturing defects under normal use and service.
Please retain your proof of purchase for warranty claims.

Customer Support

Our dedicated customer support team is available **24/7** to assist you with any questions, concerns, or technical issues you may encounter.
For assistance, please contact Cybervelo customer service via their official website or through the retailer where you purchased your e-bike. Provide your model number (MARS700U) and a detailed description of your issue for faster service.

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Question

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