Cybervelo MARS700G

Cybervelo MARS700 Electric Bike User Manual

Model: MARS700G

Brand: Cybervelo

Introduction

Welcome to the Cybervelo MARS700 Electric Bike User Manual. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your new electric bicycle. Please read this manual thoroughly before your first ride to ensure proper assembly, safe usage, and optimal performance of your MARS700 e-bike.
The Cybervelo MARS700 is a powerful and versatile folding electric bike designed for adults, featuring a 1000W peak motor, a 48V 20.8AH super battery, and 20-inch fat tires suitable for various terrains.

Important Safety Information

Your safety is paramount. Always adhere to the following safety guidelines:

- Always wear a helmet that meets safety standards.
- Obey all local traffic laws and regulations.
- Perform a pre-ride inspection before each use, checking brakes, tires, battery level, and all connections.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and other road users.
- Adjust your speed to suit road conditions, weather, and your skill level.
- Ensure the battery is securely locked in place before riding.
- Avoid riding in heavy rain or through deep puddles to prevent damage to electrical components.

Package Contents

Upon opening the package, please verify that all components are present and undamaged. The Cybervelo MARS700 electric bike

is delivered approximately 90% pre-assembled.

- Cybervelo MARS700 Electric Bike (main frame, wheels, motor, battery)
- Battery Charger
- Pedals (2)
- Seat and Seatpost
- Mudguards (pre-installed or included for installation)
- Basic Assembly Tools
- User Manual (this document)

If any items are missing or damaged, please contact Cybervelo customer service immediately.

Setup and Initial Assembly

Your Cybervelo MARS700 comes 90% pre-assembled. Follow these steps for final assembly:

1. **Unpacking:** Carefully remove the bike and all components from the packaging. Retain packaging for future transport or storage.
2. **Handlebar Installation:** Loosen the stem clamp bolts, insert the handlebar, and adjust to a comfortable riding position. Tighten the bolts securely.
3. **Pedal Installation:** 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. **Seat and Seatpost Installation:** Insert the seatpost into the frame's seat tube. Adjust the seat height for comfortable pedaling with a slight bend in your knee at the bottom of the pedal stroke. Secure with the quick-release lever or bolt.
5. **Battery Installation:** Ensure the battery is fully charged before first use. Slide the battery into its compartment on the frame until it clicks securely into place. Use the key to lock it.
6. **Tire Inflation:** Inflate tires to the recommended pressure indicated on the tire sidewall. The 20-inch fat tires are designed for various terrains.
7. **Brake Check:** Test both front and rear brakes to ensure they engage properly and stop the bike effectively. Adjust if necessary.
8. **Gear Check:** Shift through all 7 gears to ensure smooth transitions.

For detailed visual instructions, refer to any assembly videos provided by Cybervelo.

Components Overview

Familiarize yourself with the key components of your Cybervelo MARS700 electric bike:

- **Motor:** Peak 1000W (750W rated) high-speed brushless motor, located in the rear hub. Provides powerful assistance and acceleration.
- **Battery:** Removable 48V 20.8AH Lithium-ion battery, integrated into the frame for a sleek design and easy removal for charging.
- **Display:** Advanced LCD display with charging port, showing real-time speed, mileage, battery power, and pedal assist level.
- **Tires:** 20-inch fat tires, anti-slip and puncture-proof, suitable for various terrains including roads, snow, beaches, and rugged mountain paths.

- **Brakes:** Front and rear double disc brakes with EABS power-off brake function for reliable stopping power.
- **Suspension:** High-strength shock-absorbing front fork and seatpost for a comfortable ride over rough terrain.
- **Gears:** 7-speed transmission system (Shimano gears) for versatile riding.
- **Frame:** Foldable aluminum frame with a step-through design for easy mounting and dismounting.
- **Headlight:** Integrated LED headlight for improved visibility.
- **Rear Rack:** Sturdy rear rack with a load capacity of up to 330 lbs (149.7 kg).



Image: The Cybervelo MARS700 electric bike in grey, showcasing its overall design, fat tires, and rear rack.

Operating Instructions

Powering On/Off

- **To Power On:** Ensure the battery is installed and locked. Press and hold the power button on the LCD display until the screen illuminates.
- **To Power Off:** Press and hold the power button on the LCD display until the screen turns off.

Riding Modes

The MARS700 offers three riding modes:

1. **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. There are five available levels of pedal assist, adjustable via the display controls. Higher levels provide more assistance.
2. **Throttle Mode:** Use the thumb throttle to engage the motor without pedaling. This mode provides power on demand.
3. **Normal Bicycle Mode:** Ride the bike like a traditional bicycle with no motor assistance.

Gear Shifting

The bike is equipped with a 7-speed Shimano transmission system. Use the gear shifter on the handlebar to change gears according to terrain and desired speed. Shift to a lower gear for climbing hills and a higher gear for flat terrain or downhill riding.

LCD Display Functions



Image: Close-up of the Cybervelo MARS700's LCD display, showing various metrics.

The LCD display provides crucial information:

- **Speed:** Current riding speed.
- **Mileage:** Trip distance and total odometer.
- **Battery Level:** Indicates remaining battery charge.
- **Pedal Assist Level (PAS):** Shows the current level of motor assistance (0-5).
- **Headlight Indicator:** Shows if the headlight is on.

The display also features a charging port for convenience.

Battery Information and Charging

Your Cybervelo MARS700 is equipped with a high-capacity 48V 20.8AH removable lithium-ion battery, offering a maximum range

of up to 100 miles (80+ miles typical range depending on conditions).



Image: Illustration of the large 48V 20.8Ah battery integrated into the Cybervelo MARS700 frame.

Charging the Battery

- The battery can be charged while installed on the bike or removed.
- To remove, unlock the battery with the key and slide it out.
- Connect the charger to the battery's charging port, then plug the charger into a standard wall outlet.
- The charger indicator light will typically be red during charging and turn green when fully charged.
- Charging time is approximately 4 hours for a full charge.
- Do not overcharge the battery. Disconnect the charger once charging is complete.

Battery Care and Safety

- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Avoid completely draining the battery. Charge it regularly, even if not in use for extended periods (e.g., once every 1-2

months).

- Use only the official Cybervelo charger provided with your bike.
- Do not expose the battery to water or moisture.
- If the battery is damaged or shows signs of overheating, discontinue use immediately and contact customer service.

Braking System and Suspension

Braking System

The Cybervelo MARS700 is equipped with front and rear double disc brakes, providing strong and reliable stopping power in various conditions. The EABS power-off brake feature ensures that motor assistance is cut off when the brakes are applied, enhancing safety.

- Always use both front and rear brakes simultaneously for optimal stopping performance and control.
- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers are easily accessible and provide firm, consistent braking action.

Suspension System



Image: Close-up of the front suspension forks on the Cybervelo MARS700, designed to absorb shocks.

The bike features a high-strength shock-absorbing front fork and a suspension seatpost. These components work together to absorb bumps and vibrations from the road, providing a smoother and more comfortable riding experience, especially on uneven terrain.

- Periodically check the suspension components for any signs of damage or excessive play.
- Keep suspension components clean to ensure smooth operation.

Folding and Portability

The Cybervelo MARS700 features a convenient folding design, making it easy to store and transport. The step-through frame design also enhances ease of use.

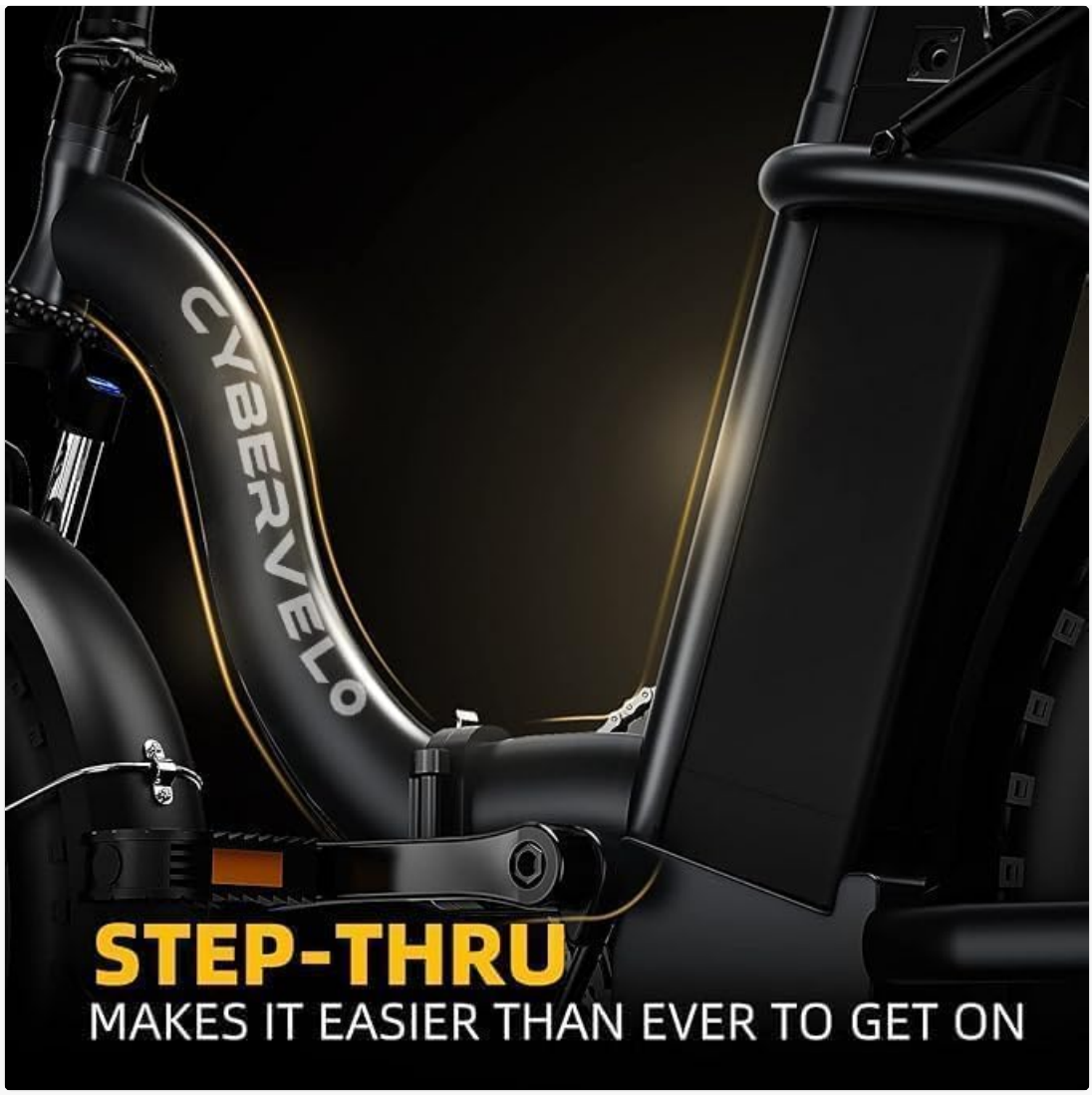


Image: Close-up of the Cybervelo MARS700's step-through frame, highlighting its design for easy mounting.

Folding Steps (General Guide):

1. Ensure the bike is powered off.
2. Lower the seatpost to its lowest position.
3. Fold the handlebars down using the quick-release lever on the stem.
4. Locate the main frame folding latch (usually near the center of the frame). Release the safety catch and open the latch.
5. Carefully fold the front half of the bike towards the rear half.
6. Some models may have folding pedals; fold them if applicable.
7. Secure the folded bike with any integrated straps or magnets.

Always ensure all folding mechanisms are securely latched before riding.

Maintenance

Regular maintenance is crucial for the longevity and safe operation of your Cybervelo MARS700 electric bike.

Daily Checks (Before Each Ride):

- **Tire Pressure:** Check and inflate tires to the recommended PSI (found on the tire sidewall).
- **Brakes:** Ensure brakes are functioning correctly and levers are firm.

- **Battery:** Check battery charge level.
- **Quick Releases/Bolts:** Ensure all quick releases and bolts (wheels, seatpost, handlebars, folding mechanism) are securely tightened.

Weekly/Bi-Weekly Checks:

- **Chain:** Inspect for rust or wear. Clean and lubricate the chain as needed.
- **Gears:** Check for smooth shifting. Adjust derailleur if necessary.
- **Brake Pads:** Inspect for wear. Replace if worn down.
- **Spokes:** Check for loose or broken spokes.

General Care:

- **Cleaning:** Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Storage:** Store the bike in a dry, sheltered area, away from extreme temperatures.
- **Professional Service:** It is recommended to have your e-bike professionally serviced at least once a year, or more frequently if you ride often or in challenging conditions.

Troubleshooting

This section addresses common issues you might encounter with your Cybervelo MARS700 electric bike. For problems not listed here, please contact customer service.

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged, battery not installed correctly, loose connection, power button issue.	Ensure battery is fully charged. Reinstall battery securely. Check all cable connections. Try pressing the power button firmly.
Motor not assisting.	Pedal assist level is 0, throttle not engaged, brake levers engaged, motor connection issue.	Increase pedal assist level on the display. Ensure throttle is fully depressed. Check that brake levers are not partially engaged. Inspect motor cable connection.
Short battery range.	Low tire pressure, riding uphill frequently, high pedal assist level, heavy load, cold weather.	Inflate tires to recommended PSI. Use lower pedal assist levels. Reduce load. Battery performance can be reduced in cold weather.
Brakes feel weak or noisy.	Worn brake pads, misaligned calipers, contaminated rotors.	Inspect and replace brake pads. Adjust brake calipers. Clean rotors with disc brake cleaner.
Gears not shifting smoothly.	Derailleur out of adjustment, dirty chain, bent hanger.	Clean and lubricate chain. Adjust derailleur limit screws and cable tension. Consult a bike mechanic if hanger is bent.

Technical Specifications

Feature	Specification
Model Number	MARS700G
Motor	Peak 1000W (750W rated) Brushless Motor
Battery	48V 20.8AH Removable Lithium-ion
Max Speed	Up to 30+ MPH
Max Range	Up to 100 Miles (80+ Miles typical)
Charging Time	Approx. 4 hours
Tire Size	20 Inches Fat Tire
Gears	7-Speed Shimano Transmission
Brakes	Front & Rear Double Disc Brakes with EABS Power-off
Suspension	Front Fork Shock Absorption, Suspension Seatpost
Frame Material	Aluminum Alloy
Load Capacity	Up to 330 lbs (149.7 kg)
Item Weight	34.5 kg (76 lbs)
Color	Grey1
Special Features	Folding Design, Rechargeable Battery, LCD Display, LED Headlight

Warranty and Customer Support

Cybervelo stands behind the quality of its products. Your Cybervelo MARS700 electric bike comes with a one-year warranty covering the motor, battery, and controller.
For any questions, concerns, or technical assistance, please do not hesitate to contact Cybervelo customer support. Our team is available 24/7 to assist you.
Contact Information:

- Refer to your purchase documentation or the official Cybervelo website for the most current contact details (e.g., email, phone number).
- When contacting support, please have your model number (MARS700G) and purchase date ready.

We are committed to providing reliable service and ensuring your satisfaction with your Cybervelo e-bike.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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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