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› CYCROWN CycFree-MAX Electric Bike User Manual

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Model: CycFree-MAX

1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your CYCROWN CycFree-MAX Electric Bike. Please read this manual thoroughly before your first ride to ensure proper use and to maximize your riding experience.

2. SAFETY INFORMATION

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Adhere to all local traffic laws and regulations. Regular inspection and maintenance are crucial for safe operation.

- Always perform a pre-ride check, including brakes, tires, battery, and lights.
- Do not operate the bike under the influence of alcohol or drugs.
- Be aware of your surroundings and ride defensively.
- Ensure the battery is securely locked in place before riding.
- Avoid riding in extreme weather conditions.



The CycFree-MAX electric bicycle has passed UL2849, FCC, and GCC certifications, ensuring compliance with safety standards.

3. SETUP AND ASSEMBLY

The CYCROWN CycFree-MAX electric bike arrives 100% pre-installed, requiring minimal assembly. Follow these steps for quick setup:

1. **Unpacking:** Carefully remove the bike from its packaging.
2. **Handlebar Adjustment:** Unfold and secure the handlebar stem. Adjust the handlebar height to a comfortable position.
3. **Seat Adjustment:** Adjust the seat post height to ensure your feet can comfortably touch the ground when stopped.
4. **Pedal Installation:** Attach the pedals, ensuring they are tightened securely. Note that pedals are often marked 'L' for left and 'R' for right.
5. **Initial Battery Charge:** Fully charge the battery before your first ride. Refer to the 'Battery Information' section for details.



The CycFree-MAX electric bike in its unfolded state, with a smaller inset image showing its folded configuration for transport or storage.

Folding and Unfolding

The CycFree-MAX features a convenient folding design for easy storage and transport. To fold the bike:

1. Lower the seat post.
2. Fold the handlebar stem down.
3. Engage the frame folding mechanism.

Reverse these steps to unfold the bike, ensuring all latches are securely fastened before riding.



A	Total Length	69"
B	Handlebar Height	46-53"(117-135cm)
C	Wheelbase	46"
D	Minimum Seat Height	28"
E	Maximum Seat Height	33"
F	Chain Stay Length	20"
G	Stand Height	28"
H	Top Tube Length	26"
I	Wheel Diameter	20"
J	Head Tube Length	10"
K	Handlebar Length	21"(54cm)

ERGONOMIC DESIGN

 **Recommend Height**
5'3"-6'3"(160-193cm)

 **Bicycle Weight**
66Lbs(30kg)

 **Max Load**
330Lbs(150kg)

A visual guide showing the four main steps to fold the CycFree-MAX electric bike for compact storage or transportation.

Ergonomic Design and Adjustments

The bike is designed for adult riders with a recommended height range of 5'3" to 6'3" (160-193 cm). Adjust the seat and handlebar height to achieve a comfortable riding posture.



A detailed diagram highlighting key ergonomic measurements and recommended rider height for the CycFree-MAX electric bike.

4. OPERATING INSTRUCTIONS

Powering On/Off and Display

To power on the bike, press and hold the power button on the LCD display. The display will show current speed, battery level, pedal assist level (PAS), and odometer readings. To power off, press and hold the power button again.

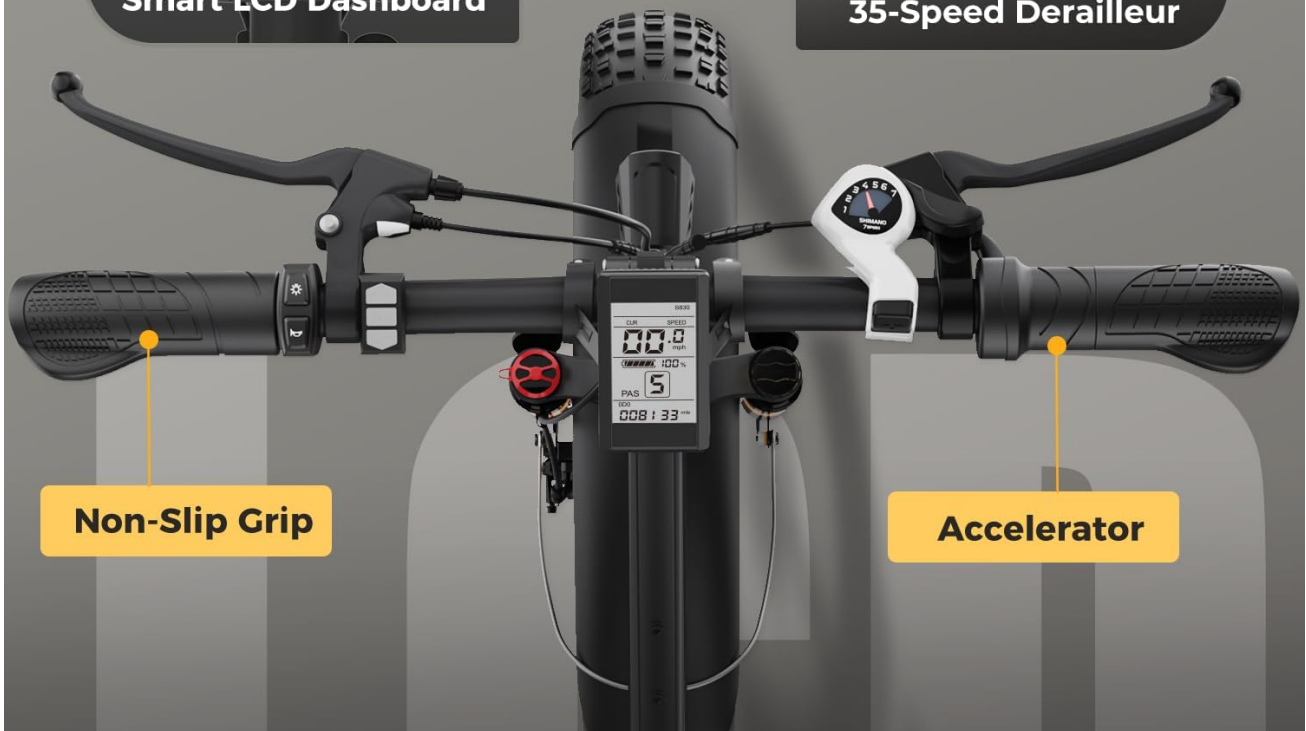
LCD DISPLAY Easy & Intelligent Control



Smart LCD Dashboard



Shimano
35-Speed Derailleur



Non-Slip Grip

Accelerator

The smart LCD dashboard provides essential riding information, alongside the Shimano 7-speed derailleur control, non-slip grips, and accelerator.

Working Modes

The CycFree-MAX offers three distinct riding modes:

- **1. Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. There are multiple assist levels (1-5) to choose from, influencing the amount of motor support. This mode offers a range of 85-120 KM.
- **2. Pure Electric Mode:** Twist the throttle to engage the motor without pedaling. This mode provides a range of 67-85 KM.
- **3. Pedal Mode:** Ride the bicycle like a traditional non-electric bike, using only your pedaling power. This mode offers unlimited range.

Gear Shifting

The bike is equipped with a 7-speed Shimano gear system. Use the shifter on the handlebar to change gears, adapting to different terrains and riding conditions. Shift gears smoothly to avoid strain on the drivetrain.

Lighting and USB Charging

The bike features integrated front and rear taillights for enhanced visibility, especially during nighttime riding. A USB charging port is available on the handlebar, allowing you to charge your mobile devices while riding.

Front Hydraulic Suspension System



The USB charging port allows convenient charging of mobile devices directly from the bike's battery.

5. BATTERY INFORMATION

The CycFree-MAX is powered by a detachable 48V 20Ah lithium-ion battery, designed for extended range and reliability.

Charging the Battery

- The battery can be charged while installed on the bike or removed for convenience.
- Use only the provided 54.6V 3A fast charger.
- A full charge typically takes 5-6 hours.
- The intelligent Battery Management System (BMS) protects against overcharging and over-discharging, extending battery life.

USB CHARGING PORT MODE



USB Charging Port Mode

Charing your cell phone



3 Modes

Pure Electric Mode.Pedal Assist Mode and Pure Pedal



Display Parameters

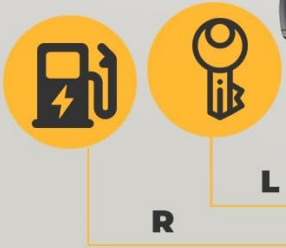
Speed, Mileage.ETC

The 48V 20Ah removable battery can be charged on or off the bike using the included fast charger.


Battery Care

- Store the battery in a cool, dry place when not in use.
- Avoid fully depleting the battery regularly.
- Charge the battery at least once every two months if not used for extended periods.
- The battery is IPX4-rated for water resistance, protecting it from splashes.

48V 20AH Large Capacity



 Up to 120KM

 54.6V 3A Charger



REMOVABLE
Lithium Ion Battery



BMS
Power-Saving



IPX4 WATERPROOF
Power Pack

Key features of the 48V 20Ah battery, including its removable design, integrated BMS for power saving, and IPX4 waterproof rating.

6. MAINTENANCE

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

- **Cleaning:** Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Tires:** Check tire pressure before each ride. The 20" x 4.0 fat tires provide excellent traction but require proper inflation for optimal performance and safety.
- **Brakes:** Inspect disc brakes for wear and proper function. Ensure brake levers are responsive and provide adequate stopping power. Adjust or replace brake pads as needed.
- **Suspension:** The front hydraulic suspension system should be checked periodically for smooth operation. Keep suspension components clean.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- **Fasteners:** Periodically check all bolts and fasteners for tightness.

2X  **FASTER CHARGE**




Single Charge:
5-6 Hours



The front hydraulic suspension system provides a comfortable ride by absorbing shocks from uneven terrain.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your CycFree-MAX electric bike.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly installed; power button not pressed correctly.	Ensure battery is fully charged and securely seated. Press and hold the power button firmly.
Motor not assisting	Pedal assist level (PAS) set to 0; throttle not engaged; brake levers engaged.	Increase PAS level. Ensure throttle is twisted fully. Release brake levers.
Short battery range	Low tire pressure; riding uphill frequently; heavy load; cold weather.	Inflate tires to recommended pressure. Use lower assist levels or pedal more. Reduce load. Battery performance decreases in cold weather.
Brakes feel weak	Worn brake pads; loose brake cable; air in hydraulic system (if applicable).	Inspect and replace brake pads. Adjust brake cable tension. Consult a professional for hydraulic brake issues.

For issues not listed here or if solutions do not resolve the problem, please contact CYCROWN customer support.

8. SPECIFICATIONS

Detailed technical specifications for the CYCROWN CycFree-MAX Electric Bike:

- **Model:** CycFree-MAX
- **Motor:** 750W (1500W Peak)
- **Max Torque:** 70 Nm
- **Top Speed:** 32 Km/h
- **Battery:** 48V 20Ah Removable Lithium-Ion
- **Max Range:** Up to 120 KM (Pedal Assist Mode)
- **Charger:** 54.6V 3A Fast Charger
- **Charging Time:** 5-6 Hours
- **Tires:** 20" x 4.0 Fat Tires (Puncture-resistant)
- **Frame Material:** Aluminum Alloy
- **Suspension:** Front Hydraulic Suspension
- **Brakes:** Disc Brakes
- **Gears:** 7-Speed Shimano SIS
- **Bike Weight:** 36.5 kg (66 lbs)
- **Max Load Capacity:** 150 kg (330 lbs)
- **Folding Size:** 37.8" x 21.3" x 31.1" (96 x 54 x 79 cm)
- **Unfolded Dimensions:** 173 x 52 x 135 cm
- **Waterproof Rating:** IPX4
- **Certifications:** UL2849, FCC, GCC

1500W Peak Motor
Powerful & Safe



32KM/H

Top Speed



60Nm

Torque



7-Speed

Shimano Gears

Visual representation of the powerful 1500W peak motor, 32 Km/h top speed, 60 Nm torque, and 7-speed Shimano gears.

9. WARRANTY AND SUPPORT

CYCROWN is committed to providing quality products and excellent customer service.

Warranty Information

- All CYCROWN products come with a **1-year warranty**.
- The motor and battery are covered for **6 months**.
- This warranty covers manufacturing defects and does not cover damage due to misuse, accidents, or normal wear and tear.

Customer Support

We offer lifetime technical support to assist you with any questions or issues you may encounter. Please have your model number and purchase date ready when contacting support.

- **Call Center:** (833) 788-1007 (Monday-Friday, 8 AM - 4 PM PST)

- **Live Chat/Email:** support@cycrown.com



CYCROWN provides dedicated customer support for all product inquiries and technical assistance.