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SINOHON EM200

SINOHON EM200 Electric Bike User Manual

Model: EM200

1. INTRODUCTION

Welcome to the SINOHON EM200 Electric Bike user manual. This guide provides essential information for the safe and efficient operation, assembly, and maintenance of your new electric bicycle. Please read this manual thoroughly before your first ride and keep it for future reference.

2. SAFETY INFORMATION

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Observe all local traffic laws and regulations. Perform a pre-ride inspection before each use, checking brakes, tires, battery, and all fasteners. Avoid riding in adverse weather conditions or under the influence of alcohol or drugs. Do not modify the bike's electrical system or components.

- Always wear a certified helmet.
- Familiarize yourself with local traffic laws.
- Perform pre-ride checks: brakes, tires, battery, lights, and quick releases.
- Do not ride in heavy rain, snow, or icy conditions.
- Ensure the battery is securely locked before riding.
- Keep hands and feet clear of moving parts.

3. PRODUCT OVERVIEW

The SINOHON EM200 is a 26-inch adult electric mountain bike designed for commuting and recreational use. It features a powerful motor, long-range battery, and versatile riding modes.

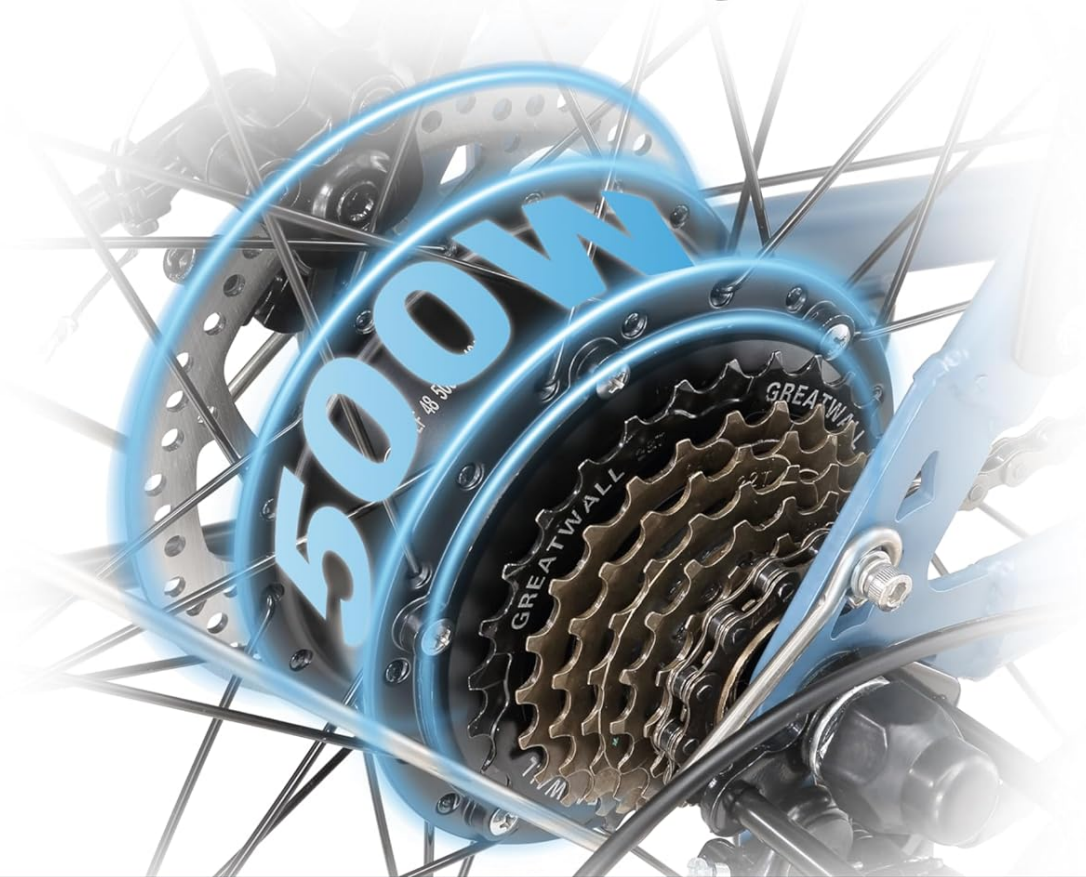
3.1 Key Features

- **Motor:** Peak 500W Brushless Motor
- **Max Speed:** Up to 28 Mph (45 km/h)
- **Battery:** 48V 12.5Ah (600Wh) Removable Lithium Battery

- **Range:** 40+ Miles per charge (pedal-assist mode)
- **Gears:** 21-Speed Shimano Gear System
- **Suspension:** Lockable Front Suspension Fork
- **Tires:** 26-inch All-Terrain Tires
- **Display:** LCD Multifunction Display

3.2 Motor and Efficiency

Boost Your Ride with Unmatched Efficiency



500W
Peak Power



28Mph
Max Speed



BRUSHLESS MOTOR
Reduced Energy Loss

Figure 1: The EM200 features a 500W peak power brushless motor, providing efficient power delivery and a maximum speed of 28 Mph. Brushless motors reduce energy loss for extended range.

3.3 Battery System

Harness Surging Power



REASSURING SECURITY
UL Certification



BMS
Intelligent Safety



48V 12.5Ah
Lithium Battery



6-8 Hours
3A Fast Charger



Figure 2: The 48V 12.5Ah (600Wh) removable lithium battery offers a range of 40+ miles. It includes UL certification for security and a Battery Management System (BMS) for intelligent safety. Charging time is approximately 6-8 hours with the included 3A fast charger.

3.4 Suspension and Tires

Lockable Front Fork Suspension & All-Terrain Tires



Figure 3: The lockable front fork suspension absorbs shocks for a smoother ride on various terrains, from city roads to muddy trails. Paired with durable all-terrain tires, the bike provides stability and traction.

3.5 Riding Modes



TWIST THROTTLE



PEDAL-ASSISTED



3 RIDING MODES + WALKING MODE



JUST PEDALING



POWER ASSIST FOR EFFORTLESS
HILL WALKING WITH YOUR EBIKE



Figure 4: The EM200 offers four distinct riding modes: **Twist Throttle** for pure electric power, **Pedal-Assisted** for a boost while pedaling, **Just Pedaling** for traditional cycling, and a **Power Assist Walking Mode** for easier maneuvering when walking alongside the bike.

3.6 LCD Display

LCD Display Record Miles After Miles



Clear Display



Lighting Control



3 Modes



Trigger Throttle



Figure 5: The LCD display provides clear information including current speed, battery level, riding mode, and distance traveled. It also offers lighting control and allows selection between the 3 riding modes.

3.7 Dimensions and Weight



5'4"-6'4"
Recommended height

60.84LBS
Bicycle weight

335LBS
Load capacity

A. Total length	67"
B. Handlebar height	39.5"
C. Wheelbase	41.7"
D. Minimum seat height	33"
E. Maximum seat height	38"
F. Chain stay length	17.7"
G. Stand height	31.5"
H. Top tube length	26"
I. Wheel diameter	26"
J. Head tube length	8.3"
K. Handlebar length	25.2"

Figure 6: Detailed dimensions and weight specifications for the EM200 electric bike. Recommended rider height is 5'4" - 6'4". The bike weighs 60.84 lbs and has a load capacity of 335 lbs.

EM200 Electric Bike Dimensions

Measurement	Value
A. Total length	67"
B. Handlebar height	39.5"
C. Wheelbase	41.7"
D. Minimum seat height	33"
E. Maximum seat height	38"
F. Chain stay length	17.7"
G. Stand height	31.5"
H. Top tube length	26"

Measurement	Value
I. Wheel diameter	26"
J. Head tube length	8.3"
K. Handlebar length	25.2"

4. SETUP AND ASSEMBLY

The EM200 electric bike comes partially assembled. Follow these general steps for final assembly. It is recommended to have a qualified bicycle mechanic perform or check the assembly.

- Unpacking:** Carefully remove the bike and all components from the packaging. Retain packaging for potential returns or future transport.
- Handlebar Installation:** Attach the handlebar to the stem, ensuring it is centered and tightened securely. Adjust the angle for comfortable riding.
- Front Wheel Installation:** Install the front wheel into the fork dropouts. Ensure the quick-release skewer or axle nuts are properly tightened. Check that the brake rotor is correctly aligned with the caliper.
- Pedal Installation:** Identify the left (L) and right (R) pedals. The left pedal has a reverse thread. Apply a small amount of grease to the threads and screw them into the crank arms. Tighten firmly with a wrench.
- Seat Post and Saddle:** Insert the seat post into the frame's seat tube. Adjust the saddle height for comfortable pedaling, ensuring your leg has a slight bend at the bottom of the pedal stroke. Secure the quick-release lever or bolt.
- Battery Installation:** Insert the battery into its compartment on the frame and lock it securely with the key.
- Pre-Ride Check:** Before your first ride, double-check all bolts, nuts, and quick releases for tightness. Ensure brakes are functioning correctly and tires are inflated to the recommended pressure.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

To power on the bike, ensure the battery is installed and locked. Press and hold the power button on the LCD display for a few seconds. To power off, press and hold the same button until the display turns off.

5.2 Charging the Battery

Connect the charger to the charging port on the battery (or directly to the battery if removed from the bike), then plug the charger into a standard wall outlet. The indicator light on the charger will show charging status (typically red for charging, green for fully charged). Do not overcharge the battery. Disconnect the charger once fully charged. Charging time is approximately 6-8 hours.

5.3 Riding Modes

The EM200 offers multiple riding modes, selectable via the LCD display controls:

- Pedal-Assist Mode (PAS):** Provides motor assistance as you pedal. Use the '+' and '-' buttons on the display to adjust the level of assistance (typically 1-3 or 1-5). Higher levels provide more power.
- Throttle Mode:** Engage the twist throttle on the handlebar for pure electric power without pedaling. This mode is typically active when the pedal-assist level is set to 0 or a specific throttle button is pressed.
- Manual Mode:** Ride the bike like a traditional bicycle with no motor assistance.

- **Walking Mode:** Some models feature a walking assist mode, activated by holding a specific button (refer to your display's specific instructions). This provides low-speed assistance for pushing the bike.

5.4 Gear Shifting

The 21-speed Shimano gear system allows you to adjust your pedaling effort to suit terrain and speed. Use the shifters on the handlebars to change gears. Shift smoothly and avoid shifting under heavy load.

5.5 Braking

The bike is equipped with disc brakes. Apply both front and rear brakes simultaneously for effective stopping. Practice braking in a safe area to become familiar with their feel and stopping power.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your EM200 electric bike.

- **Cleaning:** Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.
- **Battery Care:** Store the battery in a cool, dry place. If storing for extended periods, charge it to 50-70% every 1-2 months. Avoid fully discharging the battery.
- **Tire Pressure:** Check tire pressure before each ride. Maintain pressure within the range indicated on the tire sidewall.
- **Brakes:** Inspect brake pads for wear and replace as needed. Ensure brake levers are firm and responsive. Adjust brake cables or hydraulic fluid if necessary.
- **Chain:** Keep the chain clean and lubricated. Apply bicycle-specific chain lubricant regularly, especially after riding in wet conditions.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness.
- **Professional Service:** It is recommended to have your e-bike inspected by a professional bicycle mechanic at least once a year.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your EM200 electric bike.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged, battery not properly installed/locked, loose electrical connection, display issue.	Charge battery, ensure battery is fully seated and locked, check all visible connections, try pressing power button firmly.
Motor not assisting	Pedal-assist level set to 0, throttle not engaged, brake levers engaged (safety cut-off), motor error.	Increase PAS level, engage throttle, ensure brake levers are fully released, check display for error codes.
Short battery range	Under-inflated tires, riding in high assist levels, frequent stops/starts, cold weather, battery degradation.	Inflate tires to recommended pressure, use lower assist levels, maintain consistent speed, charge battery fully.
Brakes feel weak	Worn brake pads, loose cables, air in hydraulic system (disc brakes), contaminated rotors.	Inspect/replace brake pads, adjust cable tension, bleed hydraulic brakes (professional service recommended), clean rotors.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact SINOHON customer support or a certified e-bike technician.

8. SPECIFICATIONS

Component	Specification
Model	EM200
Brand	SINOHON
Motor	Peak 500W Brushless Motor
Battery	48V 12.5Ah (600Wh) Removable Lithium-ion
Charger	3A Fast Charger
Charging Time	6-8 Hours
Max Speed	28 Mph (45 km/h)
Range	40+ Miles (Pedal-Assist)
Gears	21-Speed Shimano
Wheels	26-inch
Tires	All-Terrain
Suspension	Lockable Front Fork
Brakes	Disc Brakes
Bike Weight	60.84 lbs (27.6 kg)
Load Capacity	335 lbs (152 kg)
Recommended Rider Height	5'4" - 6'4" (162 cm - 193 cm)

9. WARRANTY AND SUPPORT

SINOHON is committed to providing high-quality products. For specific warranty details, please refer to the warranty card included with your purchase or visit the official SINOHON website. For technical support, parts, or service inquiries, please contact SINOHON customer service through the contact information provided with your product or on their official website.

Manufacturer: Zhongshan XinHeng Bicycle Co., Ltd.

