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EVERCROSS EK28

EVERCROSS EK28 Electric Bike User Manual

Comprehensive Guide for Assembly, Operation, and Maintenance

1. INTRODUCTION

Thank you for choosing the EVERCROSS EK28 Electric Bike. This manual provides essential information for the safe assembly, operation, and maintenance of your new electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.



Figure 1: The EVERCROSS EK28 Electric Bike, a 28-inch model designed for adults, featuring a robust frame and integrated battery.

2. SAFETY GUIDELINES

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Adhere to all local traffic laws and regulations. The EK28 is UL2849 certified, ensuring compliance with safety standards for electric bicycles.

- Always perform a pre-ride inspection.
- Ensure the battery is securely locked before riding.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and other road users.
- Avoid riding in extreme weather conditions.

3. SETUP AND ASSEMBLY

The EVERCROSS EK28 Electric Bike comes mostly pre-assembled. The packaging includes all necessary tools and accessories for completing the assembly. Please follow these steps carefully:

1. **Unpacking:** Carefully remove the bike and all components from the box. Remove all protective packaging and zip ties.
2. **Handlebar Installation:** Attach the handlebar to the stem, ensuring it is centered and tightened securely.
3. **Front Wheel Installation:** Install the front wheel into the fork. Ensure the quick-release skewer is properly secured.

4. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread them into the crank arms, tightening them firmly. Note that the left pedal has a reverse thread.
5. **Seat Post and Saddle:** Insert the seat post into the frame and adjust the saddle height for comfortable riding. Secure with the quick-release lever.
6. **Battery Installation:** Insert the 36V 12Ah lithium-ion battery into its designated slot on the frame and lock it using the provided key.
7. **Pre-Ride Checks:** Before your first ride, check tire pressure, brake function, and ensure all bolts and quick releases are tightened.

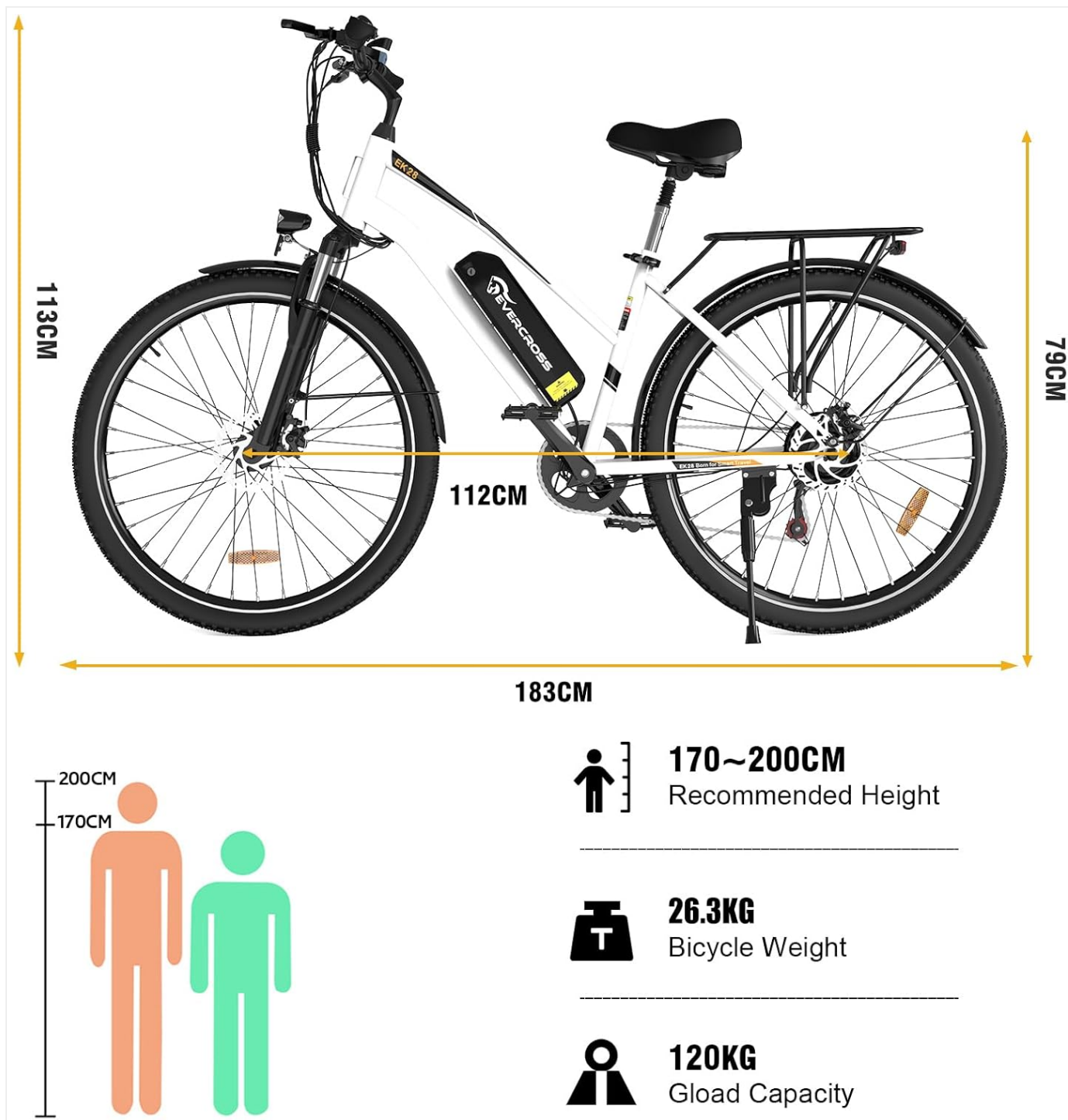


Figure 2: Overview of the EVERCROSS EK28 Electric Bike with key dimensions and recommended rider height. The bike weighs 26.3 kg and has a load capacity of 120 kg.

4. OPERATING INSTRUCTIONS

4.1. Battery and Charging

The EK28 is powered by a removable and lockable 36V/12Ah lithium-ion battery. A full charge takes approximately 6-7 hours. The battery provides an extended range of 21 to 60 miles under pedal assist, depending on terrain, rider weight, and assist level.

- To charge, connect the charger to the battery port and a power outlet.
- The battery can be charged on or off the bike.
- Do not overcharge the battery. Disconnect once fully charged.



Figure 3: Detailed view of the removable 36V 12Ah lithium battery, highlighting its features including charging time and pedal assist range.

4.2. Riding Modes

The EK28 offers three distinct riding modes:

- **Pure Electric Mode:** Engages the 500W motor via throttle for propulsion without pedaling.
- **Power Assisted Mode:** Provides motor assistance as you pedal, with adjustable assist levels.
- **Normal Bike Mode:** Functions as a traditional bicycle, with no motor assistance.

Seamlessly switch between modes using the controls on the handlebar.

4.3. Display and Controls

The multi-function LCD screen displays crucial information:

- Current Speed
- Mileage (Odometer/Trip)
- Gear Ratio/Assist Level
- Battery Level Indicator

The display ensures optimal visibility, even during nighttime rides. The 7-speed gear system (Shimano Gearing) allows for efficient pedaling across various terrains and inclines, boosting hill-climbing power.



Figure 4: The smart LCD display provides real-time riding data, while the dual shock absorbers (front fork and seat) enhance ride comfort.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your EK28 Electric Bike.

- **Tires:** Check tire pressure before each ride. Maintain recommended PSI for optimal performance and safety.
- **Brakes:** The bike features front and rear disc brakes. Regularly inspect brake pads for wear and ensure proper brake lever tension. Adjust or replace as needed.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Battery:** Store the battery in a cool, dry place. Charge it regularly, even if not in use, to maintain battery health.
- **General Cleaning:** Clean the bike with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness.



Figure 5: The front and rear disc brakes provide reliable stopping power in various conditions, crucial for safety and requiring regular inspection.

6. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Bike not powering on	Battery not charged or not properly seated.	Ensure battery is fully charged and securely locked in place. Check connections.
Motor not assisting	Low battery, assist level set to zero, or sensor issue.	Charge battery, increase assist level on display, check pedal assist sensor for obstructions.
Brakes feel spongy	Brake cable slack or worn pads.	Adjust brake cable tension. Inspect and replace brake pads if worn.
Gears not shifting smoothly	Derailleur misalignment or dirty chain.	Clean and lubricate chain. Adjust derailleur if necessary (professional service recommended).

7. SPECIFICATIONS

Feature	Detail
Model Name	EK28
Bike Type	Electric Bike
Motor	500W Brushless Motor

Feature	Detail
Max Speed	20 mph (30 km/h)
Battery	36V 12Ah Lithium-ion (Removable & Lockable)
Range (Pedal Assist)	21-60 Miles
Charging Time	6-7 Hours
Number of Speeds	7 (Shimano Gearing)
Wheel Size	28 Inches
Frame Material	Carbon Steel
Suspension Type	Front and Seat Shock Absorption
Brake Style	Disc (Front & Rear)
Max Climbing Angle	25 Degrees
Net Weight	26.3 kg (57.98 lbs)
Load Capacity	120 kg (264.6 lbs)
Recommended Rider Height	170-200 cm (66.9-78.7 inches)
Certifications	UL2849 certified

8. WARRANTY AND SUPPORT

The EVERCROSS EK28 Electric Bike comes with a **1-year limited warranty**. For any issues or questions not covered in this manual, please contact our customer support team. Our professional and enthusiastic team is ready to assist you until your problems are resolved.

For support, please refer to the contact information provided with your purchase or visit the official EVERCROSS website. Thank you for choosing EVERCROSS.

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