

EVERCROSS EK15

EVERCROSS EK15 Electric Bicycle User Manual

Model: EK15

1. SAFETY INFORMATION

Before operating your EVERCROSS EK15 Electric Bicycle, please read and understand all safety instructions. Failure to follow these instructions may result in serious injury or damage to the bicycle.

- **Wear a Helmet:** Always wear an approved bicycle helmet when riding.
- **Obey Traffic Laws:** Follow all local traffic laws, regulations, and signage.
- **Pre-Ride Check:** Before each ride, inspect brakes, tires, battery level, and ensure all components are securely fastened.
- **Non-Zero Start Feature:** The EK15 is equipped with a non-zero start function for safety, designed to prevent accidental acceleration. The electric motor will only activate after the bicycle is propelled to a speed of at least 3.75 MPH (6 KM/H).
- **Visibility:** The integrated front and rear lights, along with reflective elements, enhance your visibility, especially during dusk or night riding. Ensure they are functional before riding in low-light conditions.
- **Weight Limit:** Do not exceed the maximum recommended load capacity of 120 kg (264.55 lbs).

2. PRODUCT OVERVIEW AND INITIAL SETUP

The EVERCROSS EK15 Electric Bicycle is designed for urban and mountain use, offering pedal assist for a comfortable ride. While the bicycle is largely pre-assembled, some minor setup is required before first use.

2.1 Included Components

- 1 x EVERCROSS EK15 Electric Bicycle
- 1 x Bicycle Lock

- 1 x Tire Inflator
- 1 x Charger
- 1 x User Manual

2.2 Assembly Steps

The main frame and most components are pre-assembled. You will typically need to:

1. Attach the handlebars and secure them firmly.
2. Install the pedals (note left and right pedal threading).
3. Attach the front wheel if not already installed.
4. Adjust the seat post height for comfortable riding.
5. Inflate tires to the recommended pressure using the included inflator.
6. Perform a thorough safety check as outlined in Section 1.



Figure 1: Overview of the EVERCROSS EK15 Electric Bicycle with labeled components such as motor, battery, suspension, and disc brakes.

CUSTOMIZE YOUR RIDE

Fit-Overall 100%



Figure 2: Bicycle dimensions and recommended rider height (165-200 cm / 5.4-6.6 ft) for optimal comfort and control.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

Locate the power button on the LCD display. Press and hold to turn the bicycle's electrical system on or off.

3.2 Smart LCD Display

The intelligent LCD display provides essential riding information:

- **Speed:** Current riding speed.
- **Battery Level:** Remaining battery charge.
- **Riding Distance:** Trip distance and total mileage.
- **Assist Level:** Current pedal assist mode (3 levels available).

- **Malfunction Mark:** Indicates system errors or issues.

Use the control buttons near the display to cycle through information and adjust pedal assist levels.

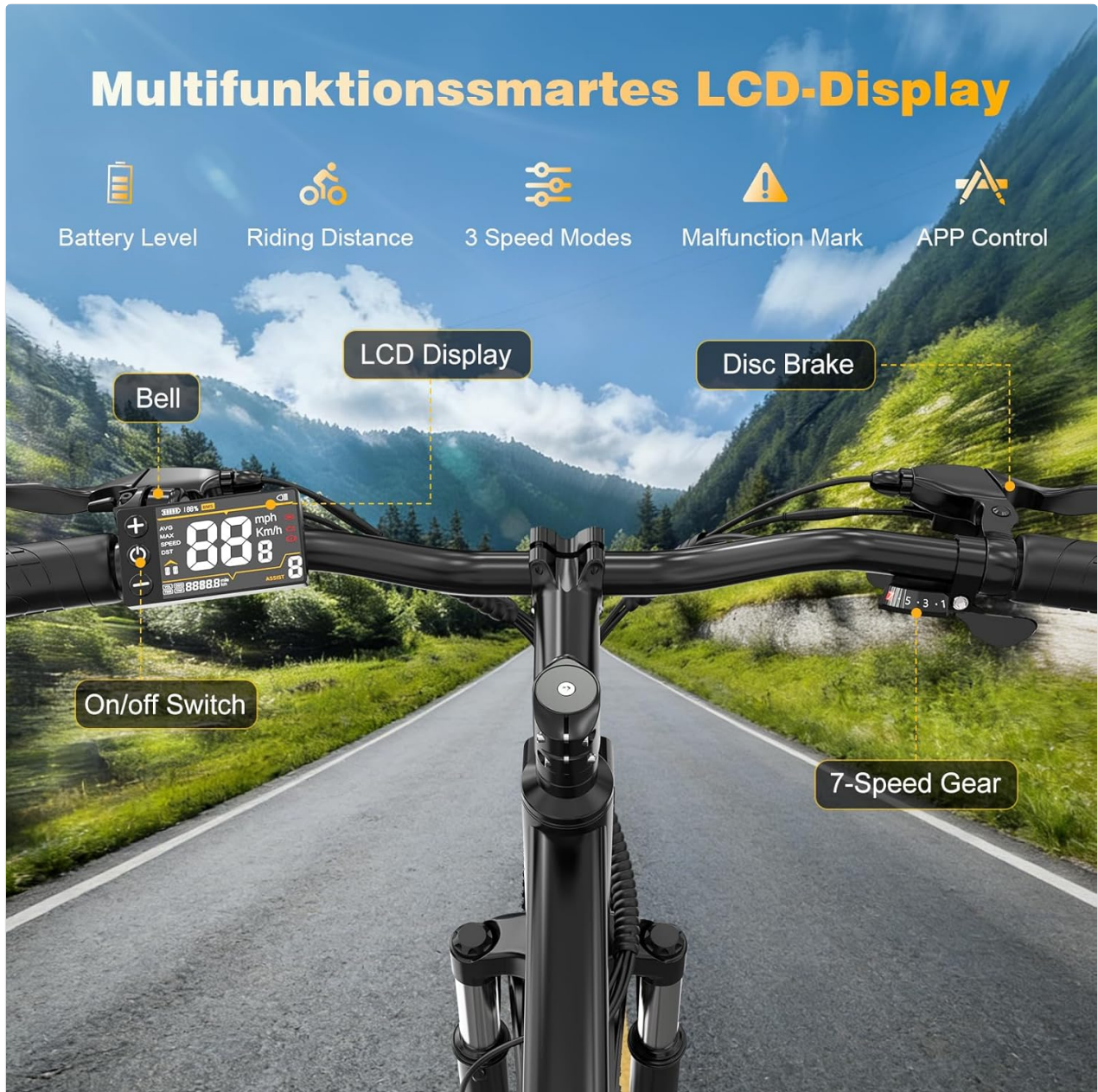


Figure 3: Multifunctional smart LCD display providing real-time riding data and controls.

3.3 Pedal Assist System (PAS) and 7-Speed Gears

The EK15 features a 250W high-speed brushless motor that provides pedal assistance. To activate the motor, you must pedal and reach a speed of at least 3.75 MPH (6 KM/H) due to the non-zero start safety feature.

- **Pedal Assist Levels:** Select from 3 levels of pedal assistance using the display controls to match your desired effort and terrain.
- **7-Speed Gear Shifting:** Utilize the 7-speed gear system to further optimize your pedaling efficiency and adapt to various inclines and speeds. Shift gears smoothly to maintain a comfortable cadence.



Figure 4: The 250W brushless motor provides efficient and quiet power assistance.

3.4 Braking System

The EK15 is equipped with reliable mechanical dual disc brakes on both the front and rear wheels. These provide consistent and strong stopping power in various conditions. Always apply both brakes simultaneously for balanced and effective stopping.

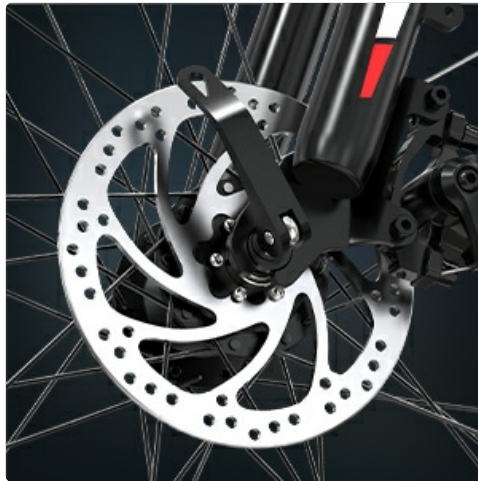


Figure 5: Detailed view of the mechanical disc brake for reliable stopping.

3.5 Battery and Charging

The bicycle is powered by a removable 36V 13Ah lithium-ion battery, offering a range of 40-90 km per charge. A full charge takes approximately 6-7 hours.

- **Charging Options:** The battery can be charged directly on the bicycle or removed for individual charging.
- **Charging Safety:** The charger includes protection against short circuits, overcharge, overheating, and features an automatic low voltage cut-off.



2 Opciones de Carga Rápida

Carga directa en el vehículo/Carga individual de la batería

Protección contra Cortocircuitos



Protección contra Sobrecarga



Protección contra Sobrecalentamiento



Corte Automático por Bajo Voltaje



Figure 6: Two fast charging options for the removable battery, with built-in safety protections.

3.6 Intelligent App Control

The dedicated EVERCROSS PRO app allows you to conveniently control and monitor your bicycle. It tracks riding speed, battery status, mileage, and provides real-time fault alerts, enhancing your riding experience.



Pantalla LCD Inteligente Multifunción

La APP le permite controlar su viaje, desde ajustes de rendimiento hasta itinerarios de viaje, todo bajo su control.

Navegue sin esfuerzo por pendientes urbanas y travesías de larga distancia, garantizando que cada bit de potencia se entregue con eficiencia.

Figure 7: The EVERCROSS PRO app provides comprehensive control and monitoring features for your e-bike.

4. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your EVERCROSS EK15 Electric Bicycle.

- **Battery Care:** Charge the battery regularly, even if not in use, to maintain its health. Store the battery in a cool, dry place. Avoid fully discharging the battery frequently.
- **Tires:** The 27.5-inch pneumatic tires are puncture-resistant. Regularly check tire pressure and inflate to the recommended PSI. Inspect tires for wear, cuts, or embedded objects.
- **Brakes:** Periodically check brake pads for wear and replace them when necessary. Ensure brake levers have proper tension and respond effectively. Adjust brake cables if they feel loose.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **General Cleaning:** Clean the bicycle regularly with a damp cloth. Avoid using high-pressure water jets directly on electrical components.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases to ensure they are tight and secure.



Figure 8: The 27.5-inch puncture-resistant pneumatic tires are designed for durability across different environments.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your EVERCROSS EK15 Electric Bicycle.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Motor not engaging	Battery low or off; Non-zero start not met; Loose connection	Check battery charge and ensure it's on; Pedal above 3.75 MPH (6 KM/H); Inspect all electrical connections.
LCD display not working	Battery low; Loose display cable; Display damaged	Charge battery; Check display cable connection; Contact support if damaged.
Brakes feel weak	Worn brake pads; Loose brake cable; Disc contamination	Inspect and replace brake pads; Adjust brake cable tension; Clean discs with appropriate cleaner.
Difficulty shifting gears	Derailleur out of adjustment; Dirty or dry chain; Damaged shift cable	Adjust derailleur; Clean and lubricate chain; Inspect shift cable for damage.
Malfunction Mark on display	System error detected	Refer to the specific error code (if displayed) in the full manual or contact customer support.

6. SPECIFICATIONS

Feature	Specification
Model	EK15
Dimensions (L x W x H)	182.5 x 64 x 110 cm
Product Weight	26.4 kg
Max Load Capacity	120 kg
Motor Power	250W
Battery	36V 13Ah Lithium-ion (468 Wh)
Charging Time	6-7 hours
Max Speed	25 km/h
Range (Pedal Assist)	40-90 km
Wheel Size	27.5 inches
Gears	7-Speed
Brakes	Front & Rear Mechanical Disc Brakes
Suspension	Front Fork Suspension

Feature	Specification
Frame Material	Alloy Steel
Recommended Age Range	Adult
Recommended Rider Height	165-200 cm (5.4-6.6 ft)

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The EVERCROSS EK15 Electric Bicycle comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects in materials and workmanship. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

7.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your EVERCROSS EK15 Electric Bicycle, please contact our customer support team.

- **Website:** www.evercross.eu (Example, please refer to your purchase documentation for official contact details)
- **Email:** support@evercross.eu (Example, please refer to your purchase documentation for official contact details)
- **Phone:** Please refer to your purchase documentation for official contact details.

When contacting support, please have your model number (EK15) and proof of purchase readily available.