

## EVERCROSS EK15

# EVERCROSS EK15 E-Bike User Manual

Model: EK15 | Brand: EVERCROSS

## 1. INTRODUCTION

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Thank you for choosing the EVERCROSS EK15 E-Bike. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.



Figure 1.1: The EVERCROSS EK15 E-Bike, shown with included pump and bike lock.

## 2. SAFETY INFORMATION

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

- Always wear a helmet and appropriate safety gear when riding.
- Familiarize yourself with local traffic laws and regulations for electric bicycles.
- Perform a pre-ride inspection before each use, checking brakes, tires, and battery level.
- Do not ride under the influence of alcohol or drugs.
- Avoid riding in adverse weather conditions, such as heavy rain or snow.
- Ensure the battery is securely locked in place before riding.
- Do not attempt to modify the e-bike's electrical system or motor.
- Keep hands and feet clear of moving parts.
- Children should only operate the e-bike under adult supervision and if they meet age and height requirements.

## 3. PACKAGE CONTENTS

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Upon unpacking, please verify that all the following components are included:

- EVERCROSS EK15 Electric Bicycle (90% pre-assembled)
- Removable 36V 12Ah Lithium-Ion Battery
- Battery Charger
- Air Pump
- Bicycle Lock
- User Manual
- Installation Tools

## 4. SETUP AND ASSEMBLY

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The EVERCROSS EK15 E-Bike arrives 90% pre-assembled. Follow these steps to complete the assembly:

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Handlebar Installation:** Attach the handlebar to the stem, ensuring it is centered and tightened securely.
3. **Front Wheel Installation:** Install the front wheel, making sure the quick release or axle nuts are properly secured.
4. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread them into the crank arms by hand, then tighten with a wrench. Note that the left pedal has a reverse thread.
5. **Seat Post and Saddle Adjustment:** Insert the seat post into the frame and adjust the saddle height for comfortable riding. Secure the quick release lever.
6. **Battery Installation:** Insert the fully charged battery into its compartment and lock it securely.
7. **Pre-Ride Checks:** Before your first ride, check tire pressure, brake function, and ensure all bolts and quick releases are tightened.

For detailed visual instructions, refer to the included installation tools and manual. If you encounter any difficulties, please contact customer support.

## 5. COMPONENTS OVERVIEW

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Understanding the key components of your EK15 E-Bike will enhance your riding experience.

### 5.1. Multi-Function Smart LCD Display

# MULTI-FUNCTION SMART LCD DISPLAY



Figure 5.1: The LCD display and handlebar controls, showing disc brake lever, bell, and power button.

The intelligent LCD display provides real-time information including current speed, battery level, headlight status, and mileage. It also allows control over pedal assist levels and power on/off.

## 5.2. Motor and Battery



Figure 5.2: The 250W brushless motor integrated into the rear wheel, highlighting its power and efficiency.

The EK15 is equipped with a 250W brushless motor, providing reliable power for daily commutes and uphill climbs. The removable 36V 12Ah Lithium-Ion battery offers a range of 35-90km depending on riding conditions and assist level.

# LONG RANGE CYCLING 90KM

36V 12AH battery provides long-lasting battery life



\*Range affected by load, temperature, road condition, riding style, etc.

Figure 5.3: The 36V 12Ah battery provides long-lasting power, enabling extended rides up to 90km in assist mode.

## 5.3. Braking System

The e-bike features front and rear mechanical disc brakes, ensuring reliable stopping power in various conditions.

## 5.4. Suspension and Tires

# COMFORTABLE TO RIDE



Figure 5.4: The front fork suspension system, designed to absorb shocks and vibrations for a comfortable ride on various terrains.

Equipped with front fork suspension, the EK15 effectively absorbs shocks and vibrations, providing a smoother and more controlled riding experience. The 26-inch anti-slip tires are suitable for safe riding on wet, muddy, and rocky terrains.

## 5.5. Gear System

The 7-speed gear system allows for easy adaptation to different riding conditions and terrains, providing a seamless riding feel.

## 6. OPERATING INSTRUCTIONS

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### 6.1. Powering On/Off

To power on the e-bike, press and hold the power button on the LCD display. To power off, press and hold the same button until the display turns off.

### 6.2. Pedal Assist System (PAS)

The EK15 features a pedal assist system. Once powered on, you can select different assist levels using the '+' and '-' buttons on the display. The motor will provide assistance as you pedal. Higher assist levels provide more power and speed, while lower levels conserve battery life.

### 6.3. Shifting Gears

Use the gear shifter on the handlebar to change between the 7 available speeds. Shift to a lower gear for uphill climbs and a higher gear for flat terrain or downhill riding.

### 6.4. Charging the Battery

The 36V 12Ah Lithium-Ion battery is removable for convenient charging. Connect the charger to the battery and then to a standard power outlet. A full charge takes approximately 5.5 to 6 hours. The battery management system (BMS) ensures optimal charging and discharge for safety and longevity.

## 7. MAINTENANCE

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

- **Tires:** Check tire pressure regularly (recommended pressure is usually on the tire sidewall). Inspect for wear and tear.
- **Brakes:** Periodically check brake pads for wear and ensure brake levers provide firm and responsive braking. Adjust 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. If storing for extended periods, charge it to 50-70% and recharge every 2-3 months.
- **Cleaning:** Clean the e-bike with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- **Fasteners:** Regularly check all bolts, nuts, and quick releases to ensure they are tight and secure.

## 8. TROUBLESHOOTING

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This section addresses common issues you might encounter with your EVERCROSS EK15 E-Bike.

Problem	Possible Cause	Solution
E-bike does not power on.	Battery not charged, battery not properly installed, loose connection.	Charge battery, ensure battery is fully inserted and locked, check all cable connections.
Motor not providing assist.	Pedal assist level too low, battery low, brake lever engaged.	Increase assist level, charge battery, ensure brake levers are fully released.
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 bike mechanic for hydraulic issues.
Gears are not shifting smoothly.	Dirty chain, misaligned derailleur, stretched cable.	Clean and lubricate chain, adjust derailleur, replace cable if stretched.

If you cannot resolve an issue using this guide, please contact EVERCROSS customer support.

## 9. SPECIFICATIONS



Figure 9.1: Key specifications of the EVERCROSS EK15 E-Bike, including battery, motor, speed, and load capacity.

Feature	Detail
Model	EK15
Wheel Size	26 Inches
Motor Power	250W Brushless Motor
Battery	36V 12Ah Removable Lithium-Ion
Charging Time	5.5 - 6 hours
Max Speed	25 km/h
Range (Pedal Assist)	35-90 km

Feature	Detail
Gears	7-Speed System
Brakes	Front and Rear Disc Brakes
Frame Material	Alloy Steel
Suspension	Front Fork Suspension
Weight	23.3 kg
Max Load	120 kg
Dimensions (L x W x H)	183 x 63 x 107 cm

## 10. OFFICIAL PRODUCT VIDEO

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Watch the official product video for a visual guide to the EVERCROSS EK15 E-Bike's features and operation.

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Video 10.1: Official product overview of the EVERCROSS EK15 E-Bike, demonstrating its features and use in various environments.

## 11. WARRANTY AND SUPPORT

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For warranty information, technical support, or any inquiries regarding your EVERCROSS EK15 E-Bike, please contact the manufacturer's customer service. Details can typically be found on the product packaging or the official EVERCROSS website.

Our team is dedicated to providing professional and enthusiastic support to ensure your satisfaction.