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› ECOLEAP Conqueror X Electric Dirt Bike User Manual

ECOLEAP Conqueror X

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Model: Conqueror X

Brand: ECOLEAP

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1. INTRODUCTION

Thank you for choosing the ECOLEAP Conqueror X Electric Dirt Bike. This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your new electric dirt bike. Please read this manual thoroughly before your first ride to ensure proper use and to maximize your riding experience.

The ECOLEAP Conqueror X is designed for off-road use, offering a powerful 3500W peak motor, a long-range 48V 21Ah battery, and advanced features like a smart color display and app connectivity. Its robust construction with a carbon steel frame, dual suspension, and hydraulic brakes ensures a reliable and exciting ride.



Image: The ECOLAP Conqueror X Electric Dirt Bike in yellow, showcasing its design and features.

2. SAFETY INFORMATION

WARNING: Riding an electric dirt bike can be dangerous. Always wear appropriate safety gear, including a helmet, gloves, and protective clothing. Read and understand all safety warnings and instructions before operation.

- **Assembly Verification:** Ensure the electric dirt bike is properly assembled and all brakes and wheels are securely installed before riding.
- **Intended Use:** This product is designed for off-road use only. Do not operate on public roads or areas where such vehicles are prohibited.
- **Local Laws:** Always check and comply with local laws and regulations regarding age and license requirements for electric dirt bike use.
- **Adult Supervision:** Riders under 18 years of age must operate the bike under direct adult supervision.
- **No Modifications:** Do not modify the bike without authorization. Unauthorized modifications can compromise safety.

and void the warranty.

- **Brake Check:** Always test brakes before each ride. Ensure they are responsive and provide adequate stopping power.
- **Battery Safety:** The 48V 21Ah lithium battery includes a Battery Management System (BMS) for protection against overcharge and overheating. Use only the provided charger.
- **Water Resistance:** The bike has an IPX5 waterproof rating, meaning it is resistant to low-pressure water jets. Avoid submerging the bike or exposing it to heavy rain for prolonged periods.



Image: ECOLAP LED headlights providing a 180-degree wide beam and bright taillights for enhanced visibility and safety.



Image: Illustration of dual-piston hydraulic brakes providing quick and reliable stopping power compared to single hydraulic brakes.

3. SETUP & ASSEMBLY

Your ECOLAP Conqueror X Electric Dirt Bike comes partially assembled. Follow these steps to complete the assembly process. It is recommended to have a second person assist with some steps.

3.1 Unboxing and Inspection

1. Carefully remove the bike and all components from the packaging. The bike is equipped with a built-in steel frame for protection during shipping.
2. Inspect all parts for any signs of damage. If any parts are damaged or missing, contact customer support immediately.
3. Verify that all items listed in the 'What's in the Box' section are present.

Image: The ECOLEAP Electric Dirt Bike securely packaged within a steel frame for transport.

3.2 Handlebar Installation

Attach the handlebars to the steering column. Ensure all cables are routed correctly and not pinched. Tighten all bolts securely.

Video: K1 Installation video. This video demonstrates the handlebar installation process for a similar ECOLEAP model, providing a visual guide for assembly.

Video: Product installation video. This video provides a general overview of the product installation steps, including handlebar and other component attachments.

Video: Easy Assembly Guide Step-by-Step Dirt Bike Setup. This detailed video guides you through the complete assembly process of the dirt bike.

3.3 Wheel and Brake Installation

Install the front wheel and ensure the brake calipers are correctly aligned with the disc. Connect the brake lines and check for proper function. Adjust the brake levers for comfortable reach.

3.4 Initial Battery Charge

Before the first ride, fully charge the 48V 21Ah lithium battery. Connect the charger to the bike's charging port and then to a power outlet. The charging indicator on the charger will show the charging status. A full charge typically takes 5-6 hours.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on the bike, insert the key card into the designated area or use the app. The smart color display will illuminate. To power off, reverse the process or hold the power button.

4.2 Smart Color Display & App Connectivity

The large color LCD display shows real-time speed, battery status, current riding mode, and trip mileage. Connect your smartphone via the dedicated app to view riding data, manage settings, track performance, and utilize features like vehicle positioning and navigation.



Image: Overview of the electric dirt bike's handlebars, showing the LCD display, control switches, horn, and brake levers.



Image: The ECOLEAP mobile application interface, displaying features such as battery level, speed, lock status, mileage, cycling time, vehicle positioning, and navigation.

4.3 Speed Modes

The ECOLEAP Conqueror X features 3 adjustable speed modes to suit different riding conditions and rider experience levels:

- **Mode 1:** Approximately 15 MPH (for beginners and controlled starts)
- **Mode 2:** Approximately 25 MPH (for daily riding and trail cruising)
- **Mode 3:** Approximately 37 MPH (for high-speed off-road excitement)

Switch between modes using the controls on the handlebar.



Image: Visual representation of the three adjustable speed modes: 15 MPH, 25 MPH, and 37 MPH.

4.4 Riding Tips

- Always maintain a safe distance from other riders and obstacles.
- Adjust your speed according to terrain and visibility.
- Utilize both front and rear hydraulic disc brakes for effective stopping.
- Familiarize yourself with the bike's handling characteristics in a safe, open area before attempting challenging terrain.

Video: Off-Road Test Dual Suspension & Hydraulic Brakes Bike. This video demonstrates the bike's performance on off-road terrain, highlighting the effectiveness of its dual suspension and hydraulic brakes.

Video: Long-Range Test 48V 21Ah Battery Up to 55 Miles. This video showcases the bike's impressive range, demonstrating its capability for extended rides.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your ECOLEAP Conqueror X Electric Dirt Bike.

5.1 Cleaning

- Clean the bike regularly with a damp cloth. Avoid using high-pressure washers directly on electrical components.
- Ensure the battery compartment is kept clean and free of debris.

5.2 Battery Care

- Charge the battery after each ride, especially if it has been heavily discharged.
- If storing the bike for an extended period, charge the battery to 50-70% and store it in a cool, dry place. Recharge every 1-2 months to prevent deep discharge.
- Do not expose the battery to extreme temperatures.

5.3 Brake System

- Regularly check brake pads for wear and replace them as needed.
- Inspect brake lines for any damage or leaks.
- Ensure brake fluid levels are adequate for hydraulic systems.

5.4 Tires

- Check tire pressure before each ride. Maintain recommended pressure for optimal performance and safety.
- Inspect tires for cuts, punctures, or excessive wear. The bike features 14" front / 12" rear puncture-resistant off-road tires.

5.5 Suspension

The bike features an inverted hydraulic front fork and a rear air shock absorber. Regularly inspect these components for proper function and any signs of damage or leaks. Keep suspension components clean.



Image: Close-up view of the inverted hydraulic front fork, designed to absorb vibrations for a more stable ride.



Image: Detail of the rear air shock absorber, which absorbs shocks and collisions for a comfortable and stable riding experience.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your ECOLEAP Conqueror X Electric Dirt Bike. For problems not listed here, please contact customer support.

6.1 Vehicle Checkup Function

The ECOLEAP app includes a 'Vehicle Checkup Function' that can diagnose potential issues. This function checks for:

- Power System Normal status
- Over-Temperature Protection activation
- Motor Hall Failure
- Overvoltage Protection activation
- Undervoltage Protection activation
- Overcurrent Protection activation
- Communication Failures
- Handlebar Failure



Image: Screenshot of the ECOLEAP app's Vehicle Checkup Function, showing diagnostic results for various system components.

6.2 Common Issues and Solutions

Problem	Possible Cause	Solution
Bike does not power on	Low battery, loose battery connection, faulty power switch	Charge the battery, check battery connections, contact support if switch is faulty.
Motor not engaging	Throttle issue, motor hall sensor error, controller issue	Check throttle connection, use app's vehicle checkup, contact support.
Brakes feel weak	Worn brake pads, low brake fluid, air in brake lines	Inspect/replace brake pads, check fluid level, bleed brakes (professional service recommended).
Reduced range	Under-inflated tires, cold weather, aggressive riding, aging battery	Check tire pressure, ride conservatively, ensure proper battery charging and storage.

7. SPECIFICATIONS

Feature	Detail
Model	Conqueror X
Motor	3500W Peak Mid-Driver Motor
Top Speed	Up to 37 MPH
Battery	48V 21Ah Lithium Battery with BMS
Max Range	Up to 55 Miles (depending on conditions)
Charging Time	Approx. 5-6 hours
Speed Modes	3 adjustable modes (15 MPH, 25 MPH, 37 MPH)
Brakes	Front and Rear Dual Hydraulic Disc Brakes
Suspension	Inverted Hydraulic Front Fork, Rear Air Shock Absorber
Frame Material	Reinforced Carbon Steel
Max Load Capacity	400 LBS
Tires	14" Front / 12" Rear Puncture-Resistant Off-Road Tires
Waterproof Rating	IPX5
Item Weight	132 pounds
Package Dimensions	54 x 25.8 x 12.6 inches
Certifications	UL 2271 (Battery Pack), UL 2272 (Electric Dirt Bike)



Image: Diagram illustrating the key dimensions of the ECOLEAP Conqueror X Electric Dirt Bike.



Image: UL certification details, confirming compliance with UL 2271 for the battery pack and UL 2272 for the electric dirt bike system.

8. WARRANTY & SUPPORT

8.1 Warranty Information

The ECOLEAP Conqueror X Electric Dirt Bike comes with a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms, conditions, and duration. Keep your proof of purchase for warranty claims.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact ECOLEAP customer support. Contact information can typically be found on the ECOLEAP official website or on the packaging materials.

Note: As per the product information, ECOLEAP offers customer support and 30-day easy returns. For the best experience, it is recommended to purchase from the ECOLEAP Official Brand Store to ensure authenticity and reliable after-sales support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question