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› Arkveld Apex One Electric Dirt Bike User Manual

Arkveld Apex One

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Model: Apex One

INTRODUCTION

Welcome to the Arkveld Apex One Electric Dirt Bike user manual. This guide provides essential information for the safe and efficient operation, assembly, and maintenance of your electric dirt bike. Please read this manual thoroughly before your first ride and retain it for future reference.



Image: The Arkveld Apex One Electric Dirt Bike in orange, showcasing its robust design and fat tires.

SETUP AND ASSEMBLY

Your Arkveld Apex One Electric Dirt Bike arrives approximately 90% pre-assembled. Basic tools and video instructions are included to assist with the final assembly steps. While assembly is designed to be straightforward, it may take some time to complete.

Key Assembly Steps:

- **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
- **Handlebar Installation:** Attach the handlebar to the stem, ensuring all bolts are securely tightened.
- **Front Wheel and Fender:** Install the front wheel and fender. Ensure the brake caliper aligns correctly with the disc.
- **Pedals:** Attach the pedals, noting that they are typically left and right specific.
- **Seat Post:** Insert the seat post and adjust the seat height for comfortable riding.
- **Battery Installation:** Securely install the battery into its compartment. Ensure it is properly locked.
- **Initial Checks:** Before your first ride, perform a thorough check of all connections, tire pressure, and brake functionality.

Image: A detailed diagram showing the dimensions and maximum load capacity of the Arkveld Apex One Electric Dirt Bike, useful for assembly and fit.

OPERATING INSTRUCTIONS

The Arkveld Apex One Electric Dirt Bike is designed for versatile riding across various terrains, offering multiple modes and powerful performance.

Power and Performance:

- **Motor:** Equipped with a 2000W brushless hub motor, providing enhanced climbing ability and speeds up to 40 MPH in pure electric mode. It can conquer gradients up to 35 degrees.
- **Battery:** Features a 1536Wh 32Ah detachable lithium battery (UL 2849 certified). A full charge takes approximately 6-7 hours.
- **Range:** Achieve up to 45 miles per charge in electric-only mode and an impressive 90 miles in pedal-assist mode.



3000W PEAK
Brushless Hub Motor

38MPH

Max Speed

110NM

Output torque

35°

Max Slope

Image: A close-up view of the powerful 3000W peak brushless hub motor, highlighting its integration with the rear wheel.

Riding Modes:

The Apex One offers three distinct riding modes to suit your preference and terrain:

- **Pedal Mode:** Ride like a traditional bicycle, using only pedal power and the 7-speed Shimano gear system.
- **Pedal-Assist Mode:** The motor provides assistance as you pedal, extending your range and reducing effort. Different assist levels are available.
- **Pure Electric Mode (Throttle):** Use the throttle for full electric power without pedaling, reaching maximum speeds.

Controls and Features:

- **Display:** A color LCD display provides real-time information such as speed, battery level, and riding mode.
- **Brakes:** Equipped with full front suspension and hydraulic dual disc brakes for reliable stopping power in various conditions.
- **Suspension:** Features 5-level adjustable suspension with strong front fork shock absorbers and a seat shock absorber for a smooth ride.
- **Tires:** 25-inch fat tires provide excellent grip and stability on all-terrain surfaces, including gravel and stones.
- **Security:** In addition to a key for battery lock, an NFC card is provided to lock the bike's power system for enhanced security.



Image: A view from the rider's perspective, showing the handlebar with the color display, left and right brake levers, combination switch, accelerator grip, and Shimano 7-speed shifter.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Arkveld Apex One Electric Dirt Bike.

General Maintenance Tips:

- **Cleaning:** Regularly clean your bike with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Tire Pressure:** Check tire pressure before each ride. Refer to the tire sidewall for recommended PSI.
- **Brakes:** Inspect brake pads and discs for wear. Ensure brake levers provide firm and responsive braking. Adjust as needed.
- **Chain Lubrication:** Keep the chain clean and lubricated, especially after riding in wet or dusty conditions.
- **Battery Care:** Store the battery in a cool, dry place. Avoid fully discharging the battery and charge it regularly, even when not in use, to maintain its health.
- **Fasteners:** Periodically check all bolts and fasteners for tightness, especially on critical components like handlebars, wheels, and seat.

Competitive Dual Hydraulic Brakes

High-Performance All Terrain Tires



Image: A cutaway view showing the internal structure of the 1536Wh 32Ah battery pack, emphasizing its integration and importance for the bike's operation.

This section addresses common issues you might encounter with your Arkveld Apex One Electric Dirt Bike.

Common Issues and Solutions:

- **Throttle Not Working:**

Possible Cause: Loose connection, sensor issue, or internal fault.

Solution: Check all cable connections to the throttle and motor. Ensure the battery is charged and properly seated. If the issue persists, contact customer support.

- **Loud Alarm Sound:**

Possible Cause: Electrical anomaly or loose connection, sometimes related to accessories.

Solution: One reported instance was resolved by disconnecting and reconnecting the headlights. Check other accessory connections. If the alarm continues, consult customer support.

- **Reduced Range or Power:**

Possible Cause: Low battery charge, degraded battery, or motor issue.

Solution: Ensure the battery is fully charged. Check tire pressure. If the battery is old, its capacity may have diminished. Contact support if performance significantly drops.

- **Brakes Squealing or Ineffective:**

Possible Cause: Contaminated brake pads/rotors, worn pads, or improper adjustment.

Solution: Clean brake discs with isopropyl alcohol. Inspect pads for wear and replace if necessary. Ensure calipers are aligned and levers are properly adjusted.

For issues not listed here or if solutions do not resolve the problem, please refer to the warranty and support section.

SPECIFICATIONS

Feature	Detail
Bike Type	Electric Bike
Model Name	Apex One
Brand	Arkveld
Motor	Peak 3000W Brushless Hub Motor
Battery	48V 32AH (1536Wh) Lithium Battery (UL 2849 Certified)
Max Speed	40 MPH
Max Range	Up to 90 Miles (Pedal-Assist), 45 Miles (Electric-Only)
Charging Time	6-7 Hours
Wheel Size	24 Inches (25-inch Fat Tires)
Frame Material	High-Carbon Steel
Suspension Type	Front (Adjustable Dual Hydraulic)
Brake Style	Hydraulic Dual Disc Brake
Number of Speeds	7 (Shimano Gear System)

Max Load	330 Pounds
Recommended Height	5'4" to 6'6"
Item Dimensions (LxWxH)	74 x 25 x 45.2 inches

WARRANTY AND SUPPORT

The Arkveld Apex One Electric Dirt Bike is covered by a **12-month After-sale Service** and a **Limited Warranty**. If you require assistance, have questions, or encounter any issues with your electric bike, please reach out to the Arkveld customer support team. Our electric bike experts are available to assist you. Please refer to your purchase documentation or the platform where you purchased the bike for specific contact information for warranty claims and technical support.