Arkveld Apex One

Arkveld Electric Dirt Bike User Manual - Model Apex One

Your guide to safe and effective operation

1. Important Safety Guidelines

Before operating your Arkveld Electric Dirt Bike, please read and understand all safety instructions. Failure to follow these guidelines may result in serious injury or property damage.

- **Wear a Helmet:** Always wear an approved helmet and appropriate safety gear, including gloves and protective clothing.
- **Pre-Ride Inspection:** Perform a thorough inspection before each ride. Check brakes, tire pressure, battery charge, and ensure all fasteners are secure.
- **Understand Controls:** Familiarize yourself with the throttle, brakes, and display functions before riding.
- **Obey Traffic Laws:** Ride responsibly and obey all local traffic laws and regulations.
- **Weather Conditions:** Exercise caution when riding in wet or adverse weather conditions. Hydraulic brakes reduce stopping distance but wet surfaces still require increased braking distance.
- **Age and Weight Limits:** This electric dirt bike is designed for adults. Ensure the rider meets the recommended height (5'4" to 6'6") and does not exceed the maximum load capacity of 330 lbs.
- **Battery Safety:** Use only the provided charger. Do not modify the battery or expose it to extreme temperatures.

2. Product Overview

The Arkveld Electric Dirt Bike, Model Apex One, is a high-performance electric mountain motorcycle designed for adult riders. It features a powerful 3000W peak brushless hub motor, a long-range 1536Wh (32Ah) battery, and a robust carbon steel frame with dual hydraulic suspension. Its 25-inch fat tires provide excellent grip across various terrains.



Image 2.1: The Arkveld Electric Dirt Bike, Model Apex One, showcasing its design and robust build.

3. Setup and Assembly

Your Arkveld Electric Dirt Bike arrives approximately 90% pre-assembled. The remaining assembly typically involves attaching the front wheel, handlebars, pedals, and seat. Tools required for assembly are included.

3.1 Initial Assembly Steps

1. **Unpacking:** Carefully remove all components from the packaging. Retain packaging for future transport or storage.
2. **Handlebar Installation:** Attach the handlebars to the stem, ensuring they are centered and tightened securely.
3. **Front Wheel Attachment:** Install the front wheel, ensuring the brake rotor is correctly aligned with the caliper. Double-check that all spacers are present and correctly positioned. Secure the axle nuts firmly.
4. **Pedal Installation:** Attach the pedals. Note that pedals are typically marked 'L' for left and 'R' for right. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise.
5. **Seat Adjustment:** Insert the seat post into the frame and adjust the seat height for comfortable riding. Secure the quick-release lever or bolt.

3.2 Initial Battery Charge

Before your first ride, fully charge the battery. The detachable 32Ah battery typically charges in 6-7 hours.

- Locate the charging port on the battery.
- Connect the charger to the battery, then plug the charger into a standard wall outlet.
- The charger indicator light will typically show red during charging and turn green when fully charged.

3.3 Pre-Ride Checks

Always perform these checks before each ride:

- **Brakes:** Test both front and rear brakes for proper function and responsiveness.
- **Tires:** Check tire pressure and inspect for any damage or punctures. The 25-inch fat tires are designed for off-road use.
- **Fasteners:** Ensure all bolts, nuts, and quick-release levers are securely tightened.
- **Battery:** Verify the battery is fully charged and securely seated in its compartment.

4. Operating Instructions

The Arkveld Electric Dirt Bike offers multiple riding modes and features for a versatile experience.

4.1 Controls and Display



Image 4.1: Overview of the handlebar controls and color LCD display.

- **Color LCD Display:** Provides real-time information such as speed, battery level, odometer, and pedal-assist level.
- **Combination Switch:** Used to power on/off the bike, control lights, and navigate display settings.
- **Left Brake Lever:** Controls the front hydraulic disc brake.
- **Right Brake Lever:** Controls the rear hydraulic disc brake.

- **Accelerator Grip:** Twist to engage the motor in pure electric mode.
- **Shimano 7-Speeds:** Use the gear shifter to select appropriate gears for varying terrain and speed.

4.2 Riding Modes

The bike supports both pure electric and pedal-assist modes:

- **Pure Electric Mode:** Engage the accelerator grip to power the bike solely with the motor. This mode can achieve speeds up to 40 MPH.
- **Pedal-Assist Mode:** Pedal normally, and the motor will provide assistance based on the selected assist level on the display. This mode extends battery range significantly, up to 90 miles.
- **Manual Mode:** Ride the bike like a traditional bicycle without motor assistance.

4.3 Motor and Performance

The 2000W brushless hub motor (3000W peak) provides strong acceleration and climbing ability, handling gradients up to 35 degrees. The 7-speed gear system allows for efficient power transfer and adaptability to different riding conditions.



Image 4.2: Illustration of the powerful 3000W peak brushless hub motor and its performance metrics.

5. Battery Management

Proper battery care ensures longevity and optimal performance of your 1536Wh (32Ah) lithium battery.

5.1 Charging the Battery

- Always use the original Arkveld charger.
- Charge the battery in a dry, well-ventilated area, away from flammable materials.
- Do not leave the battery charging unattended for extended periods after it is full.
- The battery is detachable for convenient charging indoors.



Image 5.1: The 1536Wh (32Ah) Apex Battery, UL 2849 certified for safety.

5.2 Battery Care and Storage

- Avoid fully discharging the battery regularly. Charge it after each ride.
- 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.
- Do not expose the battery to direct sunlight or extreme temperatures.

6. Maintenance

Regular maintenance is essential for the safety and longevity of your electric dirt bike.

6.1 Routine Checks

- **Tires:** Check tire pressure weekly. Inspect for wear, cuts, or embedded objects.
- **Brakes:** Regularly inspect brake pads for wear and ensure brake levers operate smoothly. Check brake fluid levels for hydraulic systems.
- **Chain:** Keep the chain clean and lubricated to prevent rust and ensure smooth gear changes.
- **Fasteners:** Periodically check all bolts and nuts for tightness, especially on critical components like wheels, handlebars, and seat post.

6.2 Suspension Maintenance

The dual hydraulic suspension system requires minimal maintenance but should be inspected regularly.



Image 6.1: The adjustable dual hydraulic suspension system, providing a smooth ride.

- Keep suspension components clean from dirt and debris.

- Inspect for any leaks or damage to the seals.
- Ensure proper function by compressing the suspension and checking for smooth rebound.

6.3 Cleaning

Clean your bike with a damp cloth and mild soap. Avoid using high-pressure washers directly on electrical components, motor, or battery.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly seated; loose electrical connection.	Ensure battery is fully charged and securely installed. Check all visible connections.
Motor not assisting	Low battery; pedal-assist level set to zero; sensor issue.	Charge battery. Increase pedal-assist level on the display. If issue persists, contact support.
Brakes feel weak or noisy	Worn brake pads; air in hydraulic lines; bent rotor.	Inspect brake pads and replace if worn. Have hydraulic system bled by a professional. Check rotors for straightness; contact support if bent.
Unusual noises during operation	Loose components; chain issues; motor or wheel bearing problem.	Check all fasteners. Inspect and lubricate chain. If noise persists, discontinue use and contact support.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Arkveld customer support for assistance.

8. Specifications

Detailed technical specifications for the Arkveld Electric Dirt Bike, Model Apex One.

Feature	Specification
Model	Apex One
Bike Type	Electric Dirt Bike / Mountain E-bike
Motor	2000W Brushless Hub Motor (3000W Peak)
Battery	1536Wh, 32Ah Lithium Battery (UL 2849 Certified)
Max Speed	Up to 40 MPH (Pure Electric Mode)
Range	Up to 45 miles (Electric-only), 90 miles (Pedal-assist)

Feature	Specification
Charging Time	6-7 hours
Gears	7-Speed Shimano System
Frame Material	High-Carbon Steel
Suspension	Dual Hydraulic (Front Fork Shock Absorbers, Rear Hydraulic Shock Absorber)
Brakes	Hydraulic Dual Disc Brakes
Tires	25-inch Fat Tires (Puncture-resistant, All-terrain)
Display	LCD Display
Max Load Capacity	330 lbs
Net Weight	Approx. 120 lbs
Recommended Rider Height	5'4" to 6'6"



Image 8.1: Dimensions and rider suitability for the Arkveld Electric Dirt Bike.



Image 8.2: The 25-inch fat tires, designed for all-terrain performance.

9. Warranty and Customer Support

Arkveld is committed to providing quality products and support.

9.1 Warranty Information

Your Arkveld Electric Dirt Bike is covered by a**12-month After-sale Service** from the date of purchase. This warranty covers manufacturing defects and issues arising from normal use. Please retain your proof of purchase.

9.2 Contacting Customer Support

If you require assistance with assembly, operation, maintenance, or troubleshooting, or if you have any questions regarding your warranty, please reach out to Arkveld customer support. Our expert team is available to assist you.
For support, please refer to the contact information provided with your purchase documentation or visit the official Arkveld website.

© 2025 Arkveld. All rights reserved.