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Arkveld Apex1-Orange

A comprehensive guide for the Arkveld Apex One showcasing quick setup, essential safety tips, a pre-ride checklist, instructions on how to operate with different power modes, and key maintenance practices.

Arkveld Apex One Electric Dirt Bike User Manual

Model: Apex1-Orange

Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Arkveld Apex One Electric Dirt Bike. Please read this manual thoroughly before operating the bike and retain it for future reference.



Figure 1: Arkveld Apex One Electric Dirt Bike. This image shows the overall design of the electric dirt bike, highlighting its robust frame, fat tires, and integrated battery pack.

Safety Information

Always wear a helmet and appropriate safety gear when riding. Ensure all components are securely fastened before each ride. Do not operate the bike under the influence of alcohol or drugs. Adhere to local traffic laws and regulations. Avoid riding in adverse weather conditions or on excessively challenging terrain if you are not experienced.

Setup

The Arkveld Apex One Electric Dirt Bike arrives approximately 90% assembled. The remaining assembly steps are straightforward and can be completed with the included tools and video instructions.

1. Unpacking and Inspection

- Carefully remove all packaging materials.
- Inspect the bike for any signs of damage during transit. Report any damage immediately.
- Verify all components listed in the packing list are present.

2. Handlebar Installation

- Attach the handlebars to the stem, ensuring proper alignment.
- Tighten all bolts securely.

3. Front Wheel and Fender Installation

- Install the front wheel, ensuring the brake rotor is correctly seated in the caliper.
- Attach the front fender.

4. Pedal Installation

- Identify left (L) and right (R) pedals.
- Thread the pedals into the crank arms. Note that the left pedal is reverse-threaded.
- Tighten firmly.

5. Battery Installation and Initial Charge

The bike features a detachable 30AH 1500Wh lithium battery (UL 2849 certified). Ensure the battery is fully charged before first use.

- Insert the battery into its compartment until it clicks securely into place.
- Connect the charger to the battery charging port and then to a power outlet.
- The charging time is approximately 6-7 hours.



Figure 2: Battery Features. This diagram illustrates the 1500Wh battery, highlighting its 48V 30AH voltage endurance, UL 2849 certification, 45-90 miles long range, and 4.5A fast charging capability.

6. Pre-Ride Checks

- Check tire pressure (25-30 PSI recommended for 25-inch fat tires).
- Test both front and rear brakes for proper function.
- Ensure the quick releases on the wheels are tightened.

- Confirm the seat height is adjusted for comfortable riding.

Operating

Your Arkveld Apex One Electric Dirt Bike is designed for versatile riding across various terrains, offering both pedal-assist and pure electric modes.

1. Powering On/Off

- To power on, press and hold the power button on the display.
- To power off, press and hold the power button again.
- The bike also features an NFC card for locking the power system, enhancing security.



Figure 3: Handlebar Controls and Display. This image details the color display, combination switch, left and right brake levers, adjustable hydraulic controls, and accelerator grip, providing an overview of the rider's interface.

2. Riding Modes and Motor Performance

The bike is equipped with a 2000W brushless hub motor, offering a peak power of 3000W. It can reach speeds of up to 40 MPH in pure electric mode and effortlessly climb gradients of up to 35 degrees.

- **Pure Electric Mode:** Use the accelerator grip for full electric power.
- **Pedal-Assist Mode:** The motor provides assistance as you pedal. Adjust the assist level via the display controls. This mode can achieve up to 90 miles per charge.
- **Manual Pedal Mode:** Ride the bike like a traditional bicycle with no electric assistance.

The 7-speed gear system allows you to adapt to various riding conditions and terrains.



Figure 4: High-Speed Brushless Motor. This diagram illustrates the power output and climbing capability of the 3000W peak brushless motor, showing its maximum speed of 40 MPH and ability to handle up to a 45-degree slope.

3. Suspension and Braking System

The bike features full front suspension and hydraulic dual brakes for a smooth and controlled ride. It includes strong front fork shock absorbers, a seat shock absorber, and puncture-resistant 25-inch fat tires.

- **Suspension:** The 5-level suspension system absorbs shocks from rugged terrain, providing comfort and stability.
- **Brakes:** Hydraulic dual disc brakes offer reliable stopping power, reducing braking distance by 50% even in wet conditions.



Figure 5: Adjustable Dual Hydraulic Suspension. This image provides a detailed view of both the front fork and rear shock absorbers, highlighting the bike's advanced suspension system designed for comfort and control on varied terrain.



Figure 6: Competitive Dual Hydraulic Brakes and High-Performance All-Terrain Tires. This image focuses on the bike's braking system and the robust tread pattern of its 25-inch fat tires, emphasizing their capability for various terrains.

Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your electric dirt bike.

1. Cleaning

- Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washers directly on electrical components.
- Dry thoroughly after cleaning.

2. Tire Care

- Check tire pressure before each ride. Maintain recommended PSI (25-30 PSI).
- Inspect tires for wear, cuts, or embedded objects.

3. Brake System

- Regularly check brake pads for wear and replace if necessary.
- Ensure brake levers are responsive and provide adequate stopping power.
- Inspect brake lines for any damage or leaks.

4. 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.

5. Chain and Drivetrain

- Keep the chain clean and lubricated.
- Check for proper chain tension.

Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Bike does not power on.	Battery not charged or not properly installed. Loose connections.	Ensure battery is fully charged and securely seated. Check all electrical connections.
Motor not assisting.	Pedal-assist level too low. Brake levers engaged. Motor connection issue.	Increase pedal-assist level on the display. Release brake levers. Check motor cable connection.
Brakes feel weak or noisy.	Worn brake pads. Contaminated rotors. Air in hydraulic lines.	Inspect and replace brake pads. Clean rotors with disc brake cleaner. Consult a professional for hydraulic bleeding.
Unusual noises during ride.	Loose components. Dry chain. Bearing issue.	Check all bolts and fasteners. Lubricate chain. If noise persists, seek professional inspection.

For issues not listed here or if solutions do not resolve the problem, please contact customer support.

Specifications

Feature	Detail
Bike Type	Electric Bike
Age Range (Description)	Adult
Brand	Arkveld
Number of Speeds	7
Color	Orange
Wheel Size	24 Inches
Frame Material	Carbon Steel

Feature	Detail
Suspension Type	Front
Special Feature	Dual Suspension, Rechargeable, Dual Disc Brake, Fat-Tire, LCD-Display
Brake Style	Disc
Model Name	Apex1-Orange
Year	2025
Lithium Battery Energy Content	1440 Watt Hours
Bicycle Gear Shifter Type	Down Tube
Derailleur Configuration	Rear
Bicycle Drivetrain Type	hub-driven
Electric Assist Type	pedal assist
Manufacturer	Arkveld
Item Dimensions LxWxH	74 x 25 x 45.2 inches

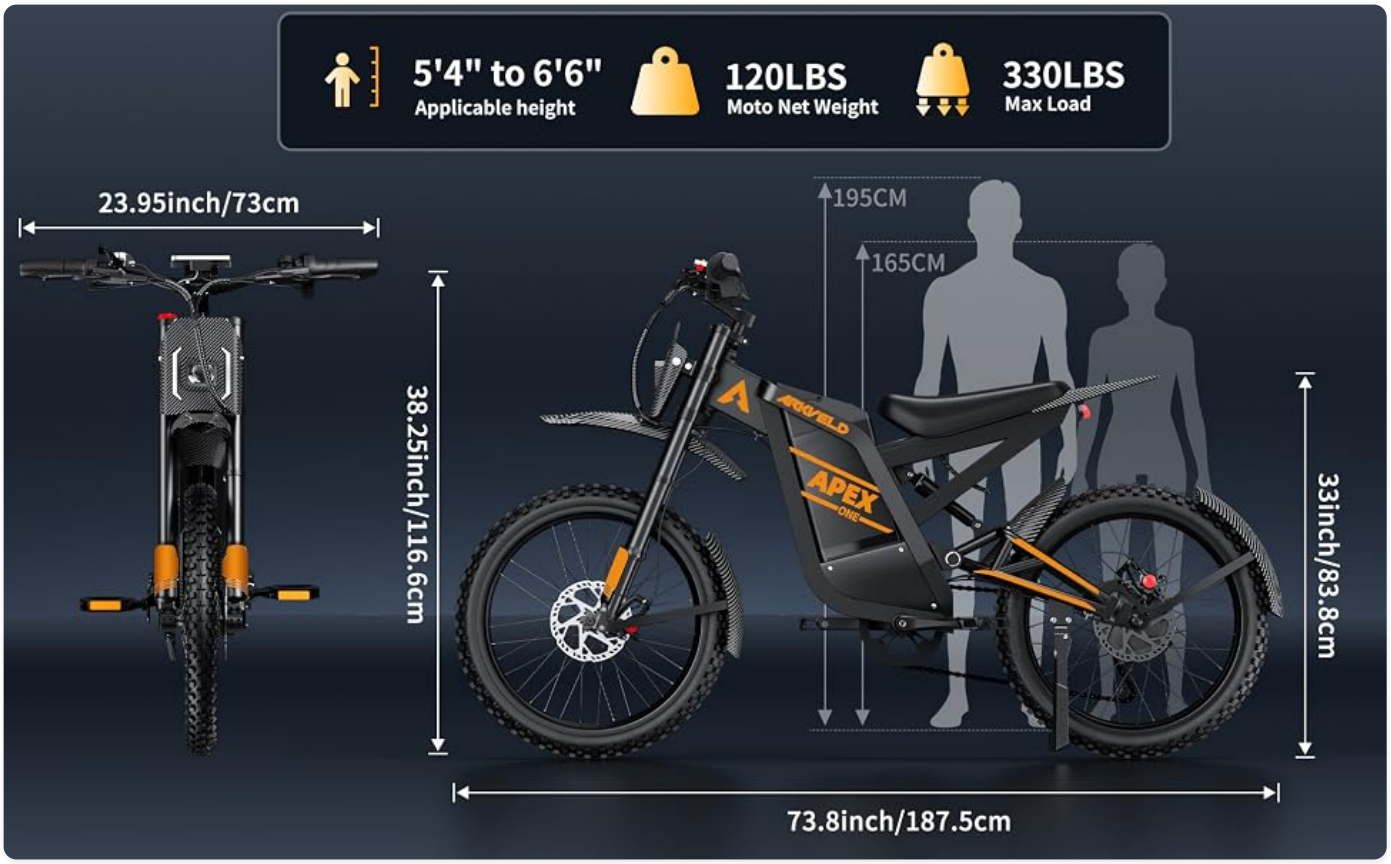


Figure 7: Product Dimensions and Rider Suitability. This diagram provides detailed measurements of the bike and indicates the applicable height range (5'4" to 6'6"), net weight (120 lbs), and maximum load capacity (330 lbs).

Warranty and Support

Your Arkveld Apex One Electric Dirt Bike is covered by a 12-month After-sale Service. For any assistance, questions, or concerns,

please reach out to our electric bike expert customer support team.

Contact Information:

Email: support@arkveld.com (placeholder)

Phone: 1-800-XXX-XXXX (placeholder)

Website: www.arkveld.com (placeholder)

Please have your model number (Apex1-Orange) and purchase date ready when contacting support.

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