

[Manuals.plus](#) /

› [Arkveld](#) /

› Arkveld Apex1 Electric Dirt Bike User Manual

Arkveld Apex1

Arkveld Apex1 Electric Dirt Bike User Manual

Model: Apex1

1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your Arkveld Apex1 Electric Dirt Bike. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize your riding experience.



Image 1.1: The Arkveld Apex1 Electric Dirt Bike, showcasing its robust design and fat tires.

2. SAFETY INFORMATION

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

- **Wear a Helmet:** Always wear a certified helmet and appropriate safety gear, including gloves, eye protection, and sturdy footwear.
- **Local Regulations:** Familiarize yourself with and obey all local traffic laws and regulations regarding electric bikes and dirt bikes.
- **Pre-Ride Check:** Before each ride, inspect brakes, tire pressure, battery charge, and ensure all bolts and quick releases are secure.
- **Weather Conditions:** Avoid riding in adverse weather conditions such as heavy rain, snow, or ice.
- **Weight Limit:** Do not exceed the maximum load capacity of 330 lbs (150 kg).
- **Age Range:** This electric dirt bike is designed for adult riders.
- **Battery Safety:** Do not tamper with the battery. Use only the provided charger. Avoid exposing the battery to extreme temperatures or direct sunlight.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present. The Arkveld Apex1 Electric Dirt Bike is shipped approximately 90% assembled. The package should include:

- Arkveld Apex1 Electric Dirt Bike (main frame, wheels, motor, battery pre-installed)
- Handlebar assembly
- Front fender
- Pedals
- Battery charger
- Assembly tools
- User Manual

4. ASSEMBLY INSTRUCTIONS

The Arkveld Apex1 Electric Dirt Bike arrives mostly assembled. Follow these steps to complete the setup:

1. **Unpack:** Carefully remove the bike and all components from the packaging.
2. **Install Handlebar:** Attach the handlebar to the stem, ensuring it is centered and tightened securely with the provided tools. Adjust the angle for comfortable riding.
3. **Install Front Fender:** Secure the front fender to the front fork using the designated mounting points and hardware.
4. **Attach Pedals:** Identify the left (L) and right (R) pedals. Thread the 'L' pedal counter-clockwise into the left crank arm and the 'R' pedal clockwise into the right crank arm. Tighten firmly.
5. **Charge Battery:** Before first use, fully charge the battery. Refer to the 'Battery Management' section for detailed charging instructions.
6. **Final Inspection:** Double-check all connections, bolts, and tire pressure before your first ride.

5. OPERATING INSTRUCTIONS

5.1 Controls Overview



Image 5.1: Overview of the handlebar controls, including the color display, brake levers, combination switch, Shimano 7-speed shifter, and accelerator grip.

The handlebar features the following key controls:

- **Color Display:** Shows speed, battery level, riding mode, and other vital information.
- **Combination Switch:** Controls power, lights, and assist levels.
- **Left Brake Lever:** Activates the front hydraulic disc brake.
- **Right Brake Lever:** Activates the rear hydraulic disc brake.
- **Accelerator Grip:** Engages pure electric mode (throttle).
- **Shimano 7-Speeds:** Gear shifter for mechanical pedaling assistance.

5.2 Powering On/Off

- **To Power On:** Press and hold the power button on the combination switch or display until the screen illuminates.
- **To Power Off:** Press and hold the power button again until the display turns off.

5.3 Riding Modes

The Apex1 offers versatile riding options:

- **Pedal-Assist Mode (PAS):** Provides electric assistance as you pedal. Adjust assist levels using the combination switch. This mode offers a range of up to 90 miles.
- **Pure Electric Mode (Throttle):** Engage the accelerator grip to ride without pedaling. This mode offers a range of up to 45 miles and speeds up to 40 MPH.
- **Manual Mode:** Ride like a traditional bicycle without any electric assistance.

5.4 Gear Shifting

Use the Shimano 7-speed shifter on the right handlebar to change gears. Shift to lower gears for climbing hills and higher gears for flat terrain or downhill riding.

5.5 Braking

The bike is equipped with hydraulic dual disc brakes for reliable stopping power. Apply both brake levers simultaneously for optimal and controlled braking. Avoid sudden, hard braking, especially at high speeds or on loose surfaces.

6. BATTERY MANAGEMENT

6.1 Charging the Battery



Image 6.1: Detailed view of the 1500Wh (48V 30AH) battery, highlighting its UL 2849 certification and fast charging capability.

The Arkveld Apex1 features a 1536Wh (32AH) detachable lithium battery (UL 2849 certified).

1. **Connect Charger:** Plug the charger into a standard wall outlet, then connect the charging cable to the bike's charging port.
2. **Charging Indicator:** The charger will indicate charging status (e.g., red light for charging, green light for fully charged).
3. **Charging Time:** A full charge typically takes 6-7 hours.
4. **Disconnect:** Once fully charged, disconnect the charger from the battery first, then from the wall outlet.

6.2 Battery Care

- Store the battery in a cool, dry place when not in use.
- Avoid completely draining the battery. Charge it regularly, even if the bike is not used frequently.
- Do not expose the battery to water or extreme temperatures.

7. MOTOR SYSTEM

HIGH SPEED BRUSHLESS MOTOR



Image 7.1: Illustration of the 3000W peak brushless hub motor, demonstrating its power output, max speed, torque, and climbing capability.

The Arkveld Apex1 is powered by a 2000W brushless hub motor with a peak output of 3000W. This motor provides:

- **Max Speed:** Up to 40 MPH in pure electric mode.
- **Climbing Ability:** Effortlessly conquers gradients of up to 35 degrees.
- **Torque:** 110 N.m for strong acceleration and hill climbing.

8. SUSPENSION AND BRAKES

8.1 Adjustable Dual Hydraulic Suspension

ADJUSTABLE

Dual Hydraulic Suspension



Image 8.1: Close-up view of the adjustable dual hydraulic suspension system, showing both front fork and rear shock absorbers.

The bike features a 5-level adjustable suspension system, including strong front fork shock absorbers and a rear hydraulic shock absorber. This system ensures a smooth ride over varied terrain and enhances control.

8.2 Hydraulic Dual Disc Brakes

Equipped with front and rear hydraulic disc brakes, the Apex1 provides reliable and responsive stopping power. These brakes reduce braking distance by 50% even in wet conditions, ensuring safety on steep slopes and rugged terrain.

9. TIRES



Image 9.1: Detailed view of the 25-inch fat tires, illustrating their non-slip, anti-puncture, and strong grip features for various terrains.

The Arkveld Apex1 comes with 25-inch super-robust off-road fat tires. These tires are designed for:

- **All-Terrain Performance:** Easily grip various road surfaces, including gravel and stones.
- **Puncture Resistance:** Enhanced durability against punctures.
- **Stability:** Provide a stable and comfortable riding experience.

10. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your electric dirt bike.

- **Cleaning:** Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Lubrication:** Keep the chain and other moving parts lubricated.
- **Brake Check:** Periodically check brake pads for wear and brake fluid levels.
- **Tire Pressure:** Maintain recommended tire pressure for optimal performance and safety.
- **Fasteners:** Regularly inspect and tighten all bolts and fasteners.
- **Battery:** Follow battery care guidelines in Section 6.2.

11. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Bike does not power on	Low battery; loose battery connection; power button not pressed correctly	Charge battery; ensure battery is securely seated; press and hold power button firmly

Problem	Possible Cause	Solution
Motor not assisting	Low battery; assist level set to zero; sensor issue	Charge battery; increase assist level on display; contact support if issue persists
Brakes feel weak	Worn brake pads; air in hydraulic line; misaligned calipers	Inspect and replace brake pads; consult a bike mechanic for hydraulic system bleeding or caliper adjustment
Unusual noises	Loose components; dry chain; debris in moving parts	Check all fasteners; lubricate chain; inspect for and remove debris

12. SPECIFICATIONS

Feature	Specification
Brand	Arkveld
Model Name	Apex1
Bike Type	Electric Dirt Bike
Age Range	Adult
Motor	2000W Brushless Hub Motor (Peak 3000W)
Battery	48V 32AH (1536Wh) Lithium, UL 2849 Certified
Max Speed	40 MPH
Range (Pure Electric)	Up to 45 miles
Range (Pedal-Assist)	Up to 90 miles
Charging Time	6-7 hours
Number of Speeds	7 (Shimano)
Wheel Size	25 Inches
Tires	25-inch Fat Tires
Frame Material	Carbon Steel
Suspension Type	Front and Rear Hydraulic (5-level adjustable)
Brake Style	Hydraulic Dual Disc Brake
Max Load	330 lbs
Special Features	LCD-Display, Rechargeable, Dual Suspension, Fat-Tire

13. WARRANTY AND SUPPORT

The Arkveld Apex1 Electric Dirt Bike is covered by a **12-month After-sale Service**. For any assistance, questions, or concerns regarding your product, please contact Arkveld customer support. Our expert team is

available to help you with assembly, operation, maintenance, or any other issues you may encounter.
Please retain your proof of purchase for warranty claims.