Arkveld APEX1W

Arkveld APEX 1 Full Suspension Ebike User Manual

Model: APEX1W

Setup | Operating Instructions | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Setup

The Arkveld APEX 1 Ebike arrives approximately 90% assembled. Basic tools and video instructions are provided to assist with the final assembly steps. Ensure all components are securely fastened before initial use.

1.1 Unpacking and Initial Inspection

- Carefully remove the ebike and all components from the packaging.
- Inspect for any visible damage during transit. Report any damage to customer support immediately.
- Verify all included components are present: battery, charger, headlight, and assembly tools.

1.2 Assembly Steps

1. **Handlebar Installation:** Attach the handlebar to the stem, ensuring proper alignment and tightening all bolts securely.
2. **Front Wheel Attachment:** Install the front wheel, making sure the disc brake rotor is correctly seated within the caliper.
3. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread them into the crank arms by hand, then tighten with a wrench. Note that the left pedal is reverse-threaded.
4. **Seat Post Adjustment:** Insert the seat post into the frame and adjust the seat height for comfortable riding. Secure with the quick-release lever or bolt.
5. **Battery Installation:** Insert the 1440Wh lithium battery into its designated compartment. Ensure it clicks securely into place.

1.3 Initial Battery Charging

Before the first ride, fully charge the battery. The 1440Wh (32Ah) battery typically charges in 6-7 hours. Use only the provided charger.



Image 1: The 1440Wh (32Ah) battery compartment, illustrating the battery's capacity and secure placement within the ebike frame.

2. Operating Instructions

Familiarize yourself with the controls and features of your Arkveld APEX 1 Ebike before riding.

2.1 Powering On/Off

- To power on, press and hold the power button on the LCD display unit.
- To power off, press and hold the power button again until the display turns off.

2.2 Riding Modes and Speed Control

- **Pure Electric Mode:** Engage the throttle for motor-only propulsion. The 2000W brushless hub motor can reach speeds up to 40 MPH.
- **Pedal-Assist Mode:** The motor provides assistance as you pedal. Adjust the assist level via the LCD display. This mode extends range significantly.

- **Manual Pedaling:** Ride the ebike like a traditional bicycle without motor assistance.
- **7-Speed Gear System:** Utilize the 7-speed gear system to adapt to various terrains and optimize pedaling efficiency.



Image 2: Close-up of the rear wheel and the 3000W peak brushless hub motor, highlighting its power capabilities.

2.3 Braking System

The ebike is equipped with dual hydraulic disc brakes for reliable stopping power. Apply both front and rear brakes simultaneously for balanced and effective deceleration.



Image 3: Illustration of the dual hydraulic brakes and the robust 25-inch all-terrain tires, designed for various surfaces.

2.4 LCD Display Functions

The LCD display provides essential information such as current speed, battery level, assist level, and trip distance. Refer to the separate display manual for detailed navigation and settings adjustments.

2.5 Safety Guidelines

- Always wear a helmet and appropriate safety gear.
- Obey all local traffic laws and regulations.
- Be aware of your surroundings and ride defensively.
- Do not operate the ebike under the influence of alcohol or drugs.
- Regularly check tire pressure, brakes, and battery charge before each ride.

3. Maintenance

Regular maintenance ensures the longevity and safe operation of your Arkveld APEX 1 Ebike.

3.1 Battery Care

- Charge the battery fully after each ride, especially if it has been significantly discharged.
- Avoid completely draining the battery to prolong its lifespan.
- Store the battery in a cool, dry place when not in use, ideally between 20% and 80% charge if storing for extended periods.
- Only use the charger provided by Arkveld.
- The battery is UL 2849 certified, indicating compliance with safety standards.

3.2 Tire Maintenance

- Check tire pressure before each ride. Maintain pressure within the range specified on the tire sidewall.
- Inspect the 25-inch all-terrain tires for wear, cuts, or punctures.

3.3 Brake System Inspection

- Regularly check brake levers for proper tension and responsiveness.
- Inspect brake pads for wear and replace them when necessary.
- Ensure brake rotors are clean and free from oil or grease.

3.4 Suspension System

The ebike features full front suspension and a seat shock absorber. Periodically check the suspension components for proper function and adjust as needed for your riding style and terrain.



Image 4: Detailed view of the adjustable dual hydraulic suspension system, including front fork and rear shock absorber.

3.5 General Cleaning

Clean the ebike regularly with a damp cloth. Avoid using high-pressure washers directly on electrical components or bearings.

4. Troubleshooting

This section addresses common issues you might encounter with your Arkveld APEX 1 Ebike. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Ebike 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 electrical connections.

Problem	Possible Cause	Solution
Motor not assisting or engaging	Low battery charge. Pedal-assist level set to zero. Sensor malfunction.	Charge the battery. Increase pedal-assist level on the display. Inspect pedal sensor for damage.
Brakes feel weak or spongy	Worn brake pads. Air in hydraulic lines. Loose brake caliper.	Inspect and replace brake pads if worn. Consult a bike mechanic for hydraulic brake bleeding. Ensure calipers are securely fastened.
Battery holder becomes loose (especially on rough terrain)	Vibration causing mounting screws to loosen.	Regularly check and tighten battery holder screws. Consider using thread-locking compound on screws if the issue persists.
Unusual noises during operation	Loose components. Chain issues. Bearing wear.	Inspect all bolts and connections. Check chain tension and lubrication. If noises persist, seek professional inspection.

5. Specifications

Key technical specifications for the Arkveld APEX 1 Ebike.

Feature	Detail
Model Number	APEX1W
Motor	2000W Brushless Hub Motor (Peak 3000W)
Battery	48V 32AH (1536Wh) Lithium Battery, UL 2849 Certified
Max Speed	Up to 40 MPH (Pure Electric Mode)
Range	Up to 45 miles (Electric-only), Up to 90 miles (Pedal-assist)
Charging Time	6-7 hours
Frame Material	High-carbon steel
Tires	25-inch All-Terrain Off-Road Tires
Brakes	Dual Hydraulic Disc Brakes
Suspension	Full Front Suspension, Seat Shock Absorber
Gears	7-speed Gear System
Special Features	LCD Display, Rechargeable Battery, Fat-Tire
Product Dimensions	187.96 x 63.5 x 114.81 cm
Age Range	Adult

6. Warranty and Support

Arkveld provides a 12-month After-sale Service for the APEX 1 Ebike.
If you require assistance with assembly, operation, maintenance, or encounter any issues, please contact our expert customer support team. Have your model number (APEX1W) and purchase details ready for faster service.



Image 5: The Arkveld APEX 1 Full Suspension Ebike, showcasing its overall design and features.

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