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Wheelspeed ARIES

Wheelspeed ARIES 27.5" Electric Bike User Manual

Model: ARIES

INTRODUCTION

Welcome to the user manual for your new Wheelspeed ARIES 27.5" Electric Bike. This manual provides essential information for the safe and efficient operation, assembly, maintenance, and troubleshooting of your e-bike. The ARIES model is designed for both daily commuting and adventurous mountain trails, featuring a powerful motor, long-range battery, and robust construction.



This image displays the Wheelspeed ARIES 27.5 inch Electric Bike in white, showcasing its overall design, front suspension, disc brakes, and the integrated battery pack.

SAFETY INFORMATION

Your safety is paramount. Please read and understand all safety warnings and instructions before operating the e-bike. Failure to do so may result in serious injury or damage to the bike.

- Always wear a certified helmet when riding your e-bike.
- Familiarize yourself with local traffic laws and regulations regarding electric bicycles.
- Perform a pre-ride inspection before each use, checking tire pressure, brake functionality, and overall bike condition.

- Do not exceed the maximum load capacity of **120 kg (265 lbs)**.
- The e-bike has an **IPX4 waterproof rating**, meaning it is resistant to splashing water from any direction. You can ride in light rain, but avoid riding in heavy rain or submerging the bike in water to prevent damage to electrical components.
- Be aware of your surroundings and ride defensively, especially in traffic or on challenging terrain.

COMPONENTS OVERVIEW

The Wheelspeed ARIES electric bike is comprised of several key components working together to provide a smooth and powerful riding experience.

- **Frame:** Durable Aluminum alloy frame.
- **Motor:** 500W rated brushless motor, providing strong power and quiet operation.
- **Battery:** Removable and lockable 48V 11.6Ah Lithium-ion battery.
- **Display:** 5-level LCD display for monitoring speed, battery, and pedal assist level.
- **Handlebars:** Ergonomic design with integrated controls.
- **Brakes:** Front and rear disc braking system for reliable stopping power.
- **Suspension:** Lockable front suspension fork for absorbing shocks.
- **Tires:** 27.5-inch pneumatic tires for various terrains.
- **Gears:** Professional 7-speed transmission system (Shimano).
- **Headlight:** Ultra-bright LED headlight for visibility.

FINGERTIPS CONTROL

A

5 Levels LCD Display

B

Shimano 7 Speed Shifter

C

Dual Disc Brakes

D

Throttle

E

Horn



This image provides a detailed view of the bike's handlebars, highlighting the 5-level LCD display, Shimano 7-speed shifter, dual disc brake levers, throttle, and horn button, all designed for fingertip control.

ADVENTURE-READY ELECTRIC BIKE

Powerful and high torque motor is ready to outdoor adventure

20 MPH

Max Speed

500W

Motor Power

Shimano 7S

Speed Shifter



An exploded view diagram showing the powerful 500W motor, gears, and internal structure, emphasizing its high torque and efficient power delivery for speeds up to 20 MPH.



This diagram illustrates the high-capacity 48V 11.6Ah removable and lockable battery, highlighting its internal cells and the safe Battery Management System (BMS) that extends travel distance up to 56 miles.

RIDE IN COMFORT

Lockable front fork suspension can absorb most of shock and bumpy



This image visually explains the function of the lockable front suspension fork, demonstrating how its springs absorb shocks and provide a comfortable ride over varied terrain.

SETUP AND ASSEMBLY

The Wheelspeed ARIES electric bike comes largely pre-assembled. Follow these steps to complete the assembly and prepare your bike for its first ride. It is recommended to have the bike inspected by a professional bicycle mechanic after assembly to ensure all components are correctly installed and adjusted for safety.

1. **Unpacking:** Carefully remove the bike and 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 Installation:** Install the front wheel, ensuring the quick-release skewer or axle nuts are properly tightened. Verify the front disc brake caliper aligns correctly with the rotor.
4. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread the pedals into the crank arms by hand, then

tighten securely with a wrench. Note that the left pedal has a reverse thread.

5. **Seat Post and Saddle:** Insert the seat post into the frame and adjust the saddle height to your comfort. Secure the quick-release lever or bolt.
6. **Fenders and Headlight:** Attach the front and rear fenders and the headlight as per the included accessory instructions.
7. **Battery Installation:** Insert the battery into its designated slot on the frame and lock it securely with the key.
8. **Tire Inflation:** Inflate both tires to the recommended pressure indicated on the tire sidewall. A pump is typically included with the bike.
9. **Final Checks:** Double-check all bolts, nuts, and quick-release levers for tightness. Test the brakes and gear shifting before your first ride.

OPERATING INSTRUCTIONS

Understanding how to operate your Wheelspeed ARIES electric bike will ensure a safe and enjoyable riding experience.

Turning On/Off

- To turn on the e-bike, first ensure the battery is securely installed and turn on the battery using the red button located beside it.
- Next, long press the "M button" on the handlebar display to power on the e-bike system.
- To turn off the e-bike, long press the "M button" again until the display powers down.

Riding Modes

Your Wheelspeed ARIES electric bike offers two primary riding modes:

- **Pure Electric Mode (Throttle Only):** In this mode, you can use the throttle to propel the bike without pedaling. The motor will drive the e-bike directly.
- **Pedal Assist Mode (PAS):** This is a hybrid mode where the motor provides assistance as you pedal. The faster you pedal, the stronger the power boost from the motor. You can adjust the level of assistance using the display controls.

Gear Shifting

The bike is equipped with a 7-speed Shimano transmission system. Use the " ^ " (up) or " v " (down) buttons on the handlebar shifter to change gears. **Note:** The default gear on the display is 0. You must select a gear (1-7) for the motor to engage in pedal assist mode.

LCD Display Functions

The 5-level LCD display provides important information during your ride:

- **Speed:** Current riding speed.
- **Battery Level:** Indicates the remaining battery charge.
- **PAS Level:** Shows the current pedal assist level (0-5).
- **Odometer:** Tracks total distance traveled.
- **Headlight Indicator:** Shows if the headlight is on.

BATTERY MANAGEMENT

Proper battery care is crucial for maximizing the lifespan and performance of your e-bike's battery.

- **Charging:** The 48V 11.6Ah battery can be charged directly on the bike or removed for convenient charging indoors. A full charge typically takes approximately 6 hours. Always use the original charger provided with your bike.
- **Avoid Overcharging:** While modern batteries have protection, it is good practice to disconnect the charger once the battery is fully charged to prolong its life.
- **Temperature:** For optimal performance and longevity, store and charge the battery within a temperature range of 7°C to 24°C (45°F to 75°F). Extreme temperatures can affect battery capacity and lifespan.
- **Storage:** If storing the bike for an extended period, charge the battery to about 50-60% and store it in a cool, dry place. Recharge it every 1-2 months to prevent deep discharge.



This diagram illustrates the various protective features of the battery's Battery Management System (BMS), including overcharge, over-discharge, short circuit, temperature, and current protection, ensuring safe and reliable operation.

MAINTENANCE

Regular maintenance will keep your Wheelspeed ARIES electric bike in optimal condition and extend its lifespan.

- **Cleaning:** Clean your e-bike regularly with a damp, soft cloth. Avoid using high-pressure washers directly on electrical components.
- **Tires:** Check tire pressure before each ride and inflate to the recommended PSI. Inspect tires for wear, cuts, or punctures.
- **Brakes:** Regularly check brake lever tension and brake pad wear. Adjust or replace pads as needed. Ensure disc rotors are clean and free of oil.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- **Bolts and Fasteners:** Periodically check and tighten all bolts, nuts, and quick-release levers, especially on

critical components like handlebars, wheels, and seat post.

- **Professional Inspection:** It is recommended to have your e-bike professionally inspected by a qualified bicycle mechanic at least once a year, or more frequently if you ride often or in challenging conditions.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Wheelspeed ARIES electric bike.

Problem	Possible Cause	Solution
Bike does not power on.	Battery is off or not charged; "M button" not long-pressed.	Ensure battery is charged and its power button is on. Long press the "M button" on the display.
Motor does not engage in Pedal Assist Mode.	Gear level is set to 0; PAS level is 0.	Increase the gear level using the shifter (must be >0). Increase the PAS level on the display.
Reduced battery range.	Riding in pure electric mode frequently; low tire pressure; riding uphill; cold weather.	Utilize pedal assist more often. Ensure tires are properly inflated. Battery performance can be affected by extreme temperatures.
Brakes feel weak or make noise.	Brake pads worn; disc rotor dirty; cable tension incorrect.	Inspect brake pads for wear and replace if necessary. Clean disc rotors with a clean cloth. Adjust brake cable tension or have a professional inspect.

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

SPECIFICATIONS



Recommended Height
5.6-6.8FT



Load Capacity
MAX 265LBS



Bicycle Weight
49.6 LBS

A. Total Length	68.9"	F. Chainstay Length	17.7"
B. Handlebar Height	40.6"	G. Seat Tube	18.5"
C. Wheelbase	42.5"	H. Top Tube Length	22.8"
D. Minimum Seat Height	35.6"	I. Head Tube Length	9.4"
E. Maximum Seat Height	40.9"	J. Handlebar Length	25"

A comprehensive diagram detailing the key dimensions of the Wheelspeed ARIES electric bike, including total length (68.9 inches), handlebar height (40.6 inches), wheelbase (42.5 inches), and recommended rider height (5.6-6.8 feet), along with its 265 lbs load capacity and 49.6 lbs bicycle weight.

Feature	Detail
Model Name	ARIES
Product Dimensions	175 x 63 x 106 cm
Item Weight	23 kg (49.6 lbs)
Age Range	Adult
Bike Type	Electric Mountain Bike / Commuter E-Bike
Motor Wattage	500 watts (rated)
Max Speed	32 km/h (20 mph)

Feature	Detail
Battery	48V 11.6Ah Removable Lithium-ion
Range (Pedal Assist)	80-90 km (50-56 miles)
Range (Electric Only)	40-48 km (25-30 miles)
Charge Time	Approx. 6 hours
Max Load Capacity	120 kg (265 lbs)
Wheel Size	27.5 Inches
Frame Material	Aluminum
Brake Type	Disc
Suspension Type	Front Suspension Fork (Lockable)
Number of Speeds	7 (Shimano)
Recommended Rider Height	167-204 cm (5.6-6.8 ft)
Waterproof Rating	IPX4

WARRANTY AND SUPPORT

Wheelspeed is committed to providing high-quality products and excellent customer service. For specific warranty details regarding your ARIES electric bike, please refer to the warranty card or documentation included with your purchase. Warranty terms typically cover manufacturing defects for a specified period.

If you have any questions, require technical assistance, or need to claim warranty service, please contact Wheelspeed customer support. Our team is ready to assist you with any inquiries.

You can typically find contact information on the Wheelspeed official website or through the retailer where you purchased the product. Please have your model number (ARIES) and purchase details ready when contacting support to facilitate a quicker resolution.