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› [LEONX](#) /

› LEONX Aipas M2 Max Electric Bike User Manual

LEONX Aipas M2 Max

LEONX Aipas M2 Max Electric Bike User Manual

Model: Aipas M2 Max

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your LEONX Aipas M2 Max Electric Bike. Please read this manual thoroughly before your first ride and retain it for future reference.



Image 1.1: The LEONX Aipas M2 Max Electric Bike, a black fat-tire e-bike with a rear rack and front headlight.

2. SAFETY GUIDELINES

Always prioritize safety when operating your electric bike. Failure to follow safety instructions can result in serious injury or damage to the bike.

- Wear a helmet and appropriate safety gear at all times.
- Familiarize yourself with local e-bike regulations and traffic laws.
- Perform a pre-ride inspection before each use, checking brakes, tires, and battery level.
- Ensure all components are securely fastened.
- Do not operate the bike under the influence of alcohol or drugs.
- Be aware of your surroundings and ride defensively.

3. SETUP AND ASSEMBLY

Your LEONX Aipas M2 Max Electric Bike arrives approximately 95% pre-assembled. The following steps outline the final assembly and initial setup procedures.

3.1 Unboxing and Initial Inspection

1. Carefully remove the bike and all components from the packaging.
2. Inspect for any visible damage during shipping. Contact customer support immediately if damage is found.
3. Verify all included components are present: Charger, Headlight, Kickstand, Tool Kit, User Manual.

3.2 Final Assembly Steps

Refer to the included user manual and any available assembly videos for detailed visual instructions. Key assembly steps typically include:

- Attaching the front wheel.
- Installing the handlebars.
- Mounting the pedals.
- Attaching the seat post and saddle.
- Securing the front headlight and rear rack (if not pre-installed).

3.3 Battery Installation and Initial Charge

The 48V 17.5Ah lithium-ion battery is semi-integrated and removable. Ensure it is securely installed before riding.

1. Locate the battery compartment and insert the battery, ensuring it clicks into place.
2. Connect the charger to the bike's charging port and then to a power outlet.
3. Allow 4-6 hours for a full charge before the first use. The charger indicator light will change when charging is complete.

85 MILES

SEMI-INTEGRATED BATTERY



48V 17.5Ah

Lithium-ion Battery



85 Miles

Riding Range



4-6 Hours

Charging Time



IP65 Waterproof

No Fear Riding



Image 3.1: Close-up view of the semi-integrated 48V 17.5Ah lithium-ion battery within the bike frame, showing its secure and waterproof design.

4. OPERATING INSTRUCTIONS

Understanding the various features and controls of your Aipas M2 Max will enhance your riding experience.

4.1 Powering On and Off

- To power on the bike, press and hold the power button on the LCD display.
- To power off, press and hold the power button again.

4.2 Riding Modes

The Aipas M2 Max offers 5 distinct riding modes to suit various preferences and terrains:

- **Electric Mode:** Provides full motor power without pedaling.
- **Pedal Assist Mode (PAS):** The motor provides assistance as you pedal. Adjust the assist level (1-5) using the display controls.

- **Cruise Control Mode:** Maintains a set speed without continuous throttle or pedaling.
- **Normal Riding Mode:** Operates as a traditional bicycle with no motor assistance.
- **Walk Booster Mode:** Provides low-speed assistance for walking the bike, useful for pushing it up inclines.

4.3 Display and Controls

The integrated LCD display provides real-time ride data and allows control over various functions.

- **Information Displayed:** Speed, Power output, PAS Level, Battery Level, and Distance traveled.
- **USB Charging Port:** Located on the display unit, allows charging of mobile devices while riding.
- **Integrated Buttons:** Control PAS levels, turn lights on/off, and activate the horn.

SMART M6 USB CHARGING DISPLAY

*Real-Time Ride Data at a Glance – Speed, Power,
PAS Level & Distance*



Image 4.1: The Smart M6 LCD display with a USB charging port, showing real-time ride data and integrated controls for lighting and horn.

4.4 Motor and Performance

The Aipas M2 Max is equipped with a powerful 1800W peak brushless rear hub motor.

- **Peak Power:** 1800W
- **Max Torque:** 110Nm, providing strong climbing ability up to 30°.
- **Top Speed:** Up to 36 MPH (may vary based on local regulations and rider weight).
- **Range:** 36-85 miles per charge, depending on terrain, assist level, and rider input.

1800W

PEAK

With 1800W of peak power and 110Nm of torque, the motor delivers a top speed of 36MPH, making climbs easier and allowing you to effortlessly conquer off-road challenges. Enjoy an efficient, smooth, and comfortable ride, no matter the terrain.



1800W
Max Motor



110Nm
Max Torque



Max 30°
Gradient



Image 4.2: Diagram illustrating the 1800W peak brushless motor, highlighting its power, torque, and climbing ability.

4.5 Braking System

The bike features dual hydraulic disc brakes for reliable stopping power.

- **Type:** Dual Hydraulic Disc Brakes with 180mm rotors.
- **Pads:** Carbon-ceramic pads for enhanced performance.
- **Performance:** Offers 60% more stopping power and 30% shorter braking distance compared to standard systems.



Dual Hydraulic Brakes

Compared to standard braking systems, the M2 Max features a dual hydraulic braking system with 30% carbon-ceramic pads, delivering 60% more stopping power and 30% shorter braking distance – powerful, quiet, and built for total control.



180 mm
Brake Rotor



Dual Hydraulic
Brakes



60% More
Braking Power



30% Shorter
Braking Distance

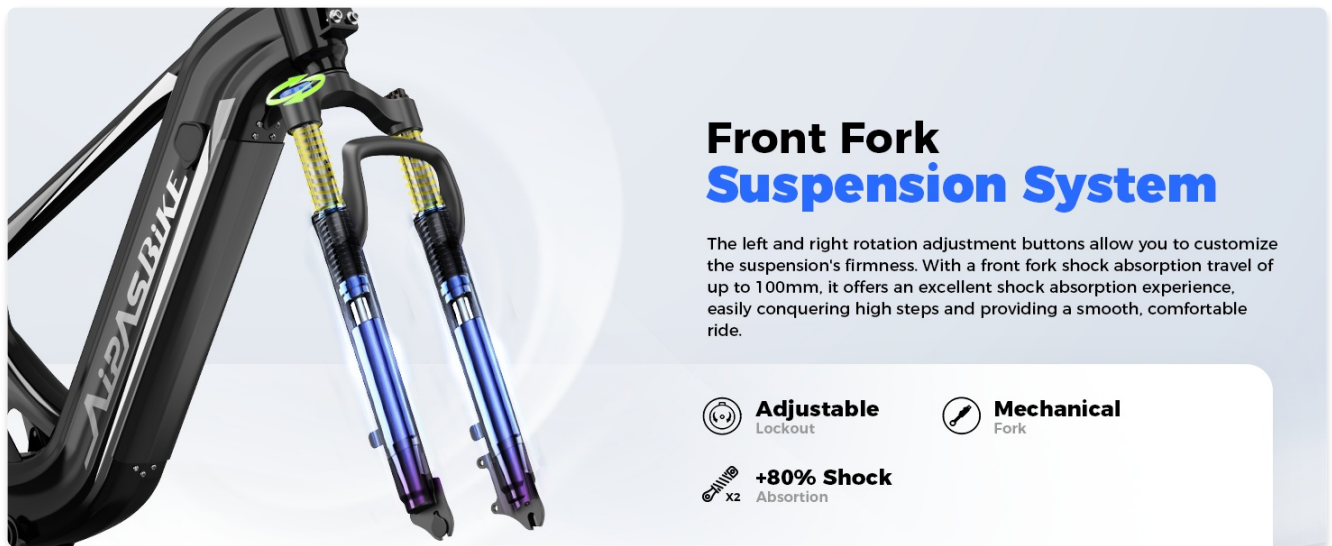
Image 4.3: Illustration of the dual hydraulic disc brake system, showing the caliper, rotor, and lever for effective stopping.

4.6 Suspension System

The Aipas M2 Max is equipped with a dual suspension system for comfort and control on varied terrain.

- **Front Fork:** Mechanical fork with adjustable lockout and up to 100mm of travel for shock absorption.
- **Rear Suspension:** Air pressure adjustable rear shock, offering up to 250 PSI adjustability and reducing

vibration by 51%.



Front Fork Suspension System

The left and right rotation adjustment buttons allow you to customize the suspension's firmness. With a front fork shock absorption travel of up to 100mm, it offers an excellent shock absorption experience, easily conquering high steps and providing a smooth, comfortable ride.



Adjustable
Lockout



Mechanical
Fork



+80% Shock
Absorption

Image 4.4: Diagram of the front fork suspension system, detailing its adjustable lockout and mechanical components.



Air Pressure Adjustable Suspension

The Max version brings a major upgrade in comfort, the Max lets you fine-tune your suspension for the perfect balance of comfort and control.



250 PSI
Adjustable Air Rear Shock



Up to 51%
Vibration Reduction



6061 Frame
Aircraft-Grade Aluminum Frame



41mm
Responsive Suspension Travel

Image 4.5: Illustration of the air pressure adjustable rear suspension, showing its adjustability and vibration reduction capabilities.

4.7 Tires and Gearing

- **Tires:** 26" x 4.0" puncture-resistant fat tires provide excellent traction and stability on various surfaces including snow, mountain trails, gravel, and flat roads.
- **Gearing:** 7-speed derailleur system allows for smooth gear changes, adapting to different riding conditions.

26"x4.0"

Resistant Tire

Equipped with 26" x 4.0" puncture-resistant fat tires, it delivers superior traction and stability, effortlessly conquering flat roads, mountain trails, snowy terrain, and gravel paths, making it perfect for all kinds of riding adventures.



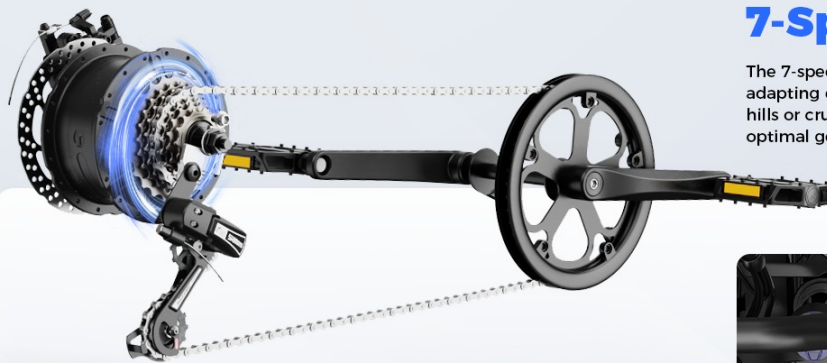
26"x4.0"
Resistant Tires



Good Shock
Good Shock Absorption



Image 4.6: Graphic detailing the 26" x 4.0" resistant fat tires, emphasizing their suitability for various terrains.



7-Speed Derailleur

The 7-speed shifter allows for seamless gear changes, adapting effortlessly to various terrains. Whether climbing hills or cruising on flat roads, it ensures you're always in the optimal gear for a smooth, efficient, and comfortable ride.



Image 4.7: Illustration of the 7-speed derailleur system, showing the chain and gears for efficient power transfer.

4.8 Lighting System

For enhanced visibility and safety, the bike includes integrated front and rear lighting.

- **Front Headlight:** Provides clear visibility ahead.
- **Rear Taillight:** Functions as a brake light, flashing when braking to alert others.

Light System

The front headlight provides clear visibility ahead, while the taillight flashes when braking, enhancing your safety on the road.



Image 4.8: Depiction of the bike's lighting system, showing the front headlight and rear taillight for visibility.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Aipas M2 Max Electric Bike.

5.1 General Cleaning

- Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washing directly on electrical components.
- Ensure the battery compartment and charging port are kept clean and dry. The battery is IP65 waterproof, but direct water jets should be avoided.

5.2 Battery Care

- Charge the battery fully after each ride, or at least once a month if not in use, to maintain battery health.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- Do not attempt to open or repair the battery pack.

5.3 Brakes

- Regularly check brake pads for wear and replace them when necessary.
- Ensure brake levers are firm and responsive. If they feel spongy, the hydraulic system may need bleeding by a qualified technician.
- Keep brake rotors clean and free of oil or grease.

5.4 Tires

- Check tire pressure before each ride. Maintain pressure within the recommended range printed on the tire sidewall.
- Inspect tires for cuts, punctures, or excessive wear.

5.5 Chain and Drivetrain

- Keep the chain clean and lubricated to ensure smooth gear changes and prevent wear.
- Check the derailleur for proper alignment and adjust if shifting becomes imprecise.

6. TROUBLESHOOTING GUIDE

This section addresses common issues you might encounter with your Aipas M2 Max Electric Bike.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly installed; Loose electrical connection; Display issue	Ensure battery is fully charged and securely seated. Check all visible cable connections. Contact support if issue persists.
Motor not assisting	PAS level set to 0; Battery low; Sensor issue	Increase PAS level on the display. Check battery charge. Ensure pedal assist sensor is clean and unobstructed.

Problem	Possible Cause	Solution
Brakes feel weak or spongy	Worn brake pads; Air in hydraulic line; Contaminated rotors	Inspect and replace brake pads. Have hydraulic system bled by a professional. Clean rotors with disc brake cleaner.
Gears are not shifting smoothly	Derailleur out of adjustment; Dirty or dry chain; Damaged shift cable	Clean and lubricate the chain. Adjust derailleur limits and cable tension. Consult a bike mechanic if necessary.
Tire loses air quickly	Puncture; Loose valve stem; Damaged tube/tire	Inspect tire for punctures and repair or replace tube. Ensure valve stem is tight. Replace damaged tire.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact LEONX customer support.

7. PRODUCT SPECIFICATIONS

Detailed technical specifications for the LEONX Aipas M2 Max Electric Bike.

Feature	Specification
Model	Aipas M2 Max
Brand	LEONX
Bike Type	Electric Mountain Bike
Motor	1800W Peak Brushless Rear Hub Motor
Torque	110Nm
Top Speed	Up to 36 MPH
Climbing Ability	Up to 30°
Battery	48V 17.5Ah Lithium-ion (Removable, IP65 Waterproof)
Range per Charge	36-85 Miles
Charging Time	4-6 Hours
Frame Material	6061 Aluminum
Suspension Type	Dual (Air Adjustable Rear, Mechanical Front Fork)
Brakes	Dual Hydraulic Disc Brakes (180mm Rotor, Carbon-ceramic pads)
Tires	26" x 4.0" Fat Tires (Puncture-resistant)
Gears	7-Speed Derailleur
Display	LCD with USB Charging Port, 5 PAS Levels
Lighting	Integrated Front Headlight, Rear Taillight (Brake Light)
Dimensions (LxWxH)	80 x 26 x 44 inches

Feature	Specification
Ebike Weight	90 LBS
Max Load Capacity	500 LBS
Recommended Rider Height	5'8" - 7'6"
Assembly Required	Yes (95% pre-assembled)
Included Components	Charger, Headlight, Kickstand, Tool Kit, User Manual



Image 7.1: Sizing guide for the M2 Max, illustrating key dimensions and recommended rider height.

8. WARRANTY INFORMATION

LEONX (Aipas) provides a limited warranty for the Aipas M2 Max Electric Bike.

- **Warranty Period:** 1-year quality-issue warranty from the date of purchase.
- **Coverage:** Covers manufacturing defects and quality-related issues.
- **Exclusions:** Does not cover normal wear and tear, damage from misuse, accidents, or unauthorized modifications.

For detailed warranty terms and conditions, please refer to the official LEONX/Aipas website or contact customer support.

9. CUSTOMER SUPPORT

For technical assistance, warranty claims, or any other inquiries, please contact LEONX customer support:

- **Call Center:** 1(844) 777-0681
- **Hours:** Monday - Friday, 9:00 AM - 5:30 PM PST
- **Email Support:** service@aipasbike.com (Responses typically within 24 hours)

Please have your purchase information and bike model readily available when contacting support.

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