

airwest 26 x 4.0" Fat Tire Electric Bicycle

airwest 26 x 4.0" Fat Tire Electric Bicycle User Manual

Model: 26 x 4.0" Fat Tire Electric Bicycle

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your airwest 26 x 4.0" Fat Tire Electric Bicycle. Please read this manual thoroughly before using your electric bicycle to ensure proper assembly, safe riding, and optimal performance. Keep this manual for future reference.

The airwest electric bicycle is designed for versatile terrain, offering a powerful 250W Bafang motor, a long-range 48V 15Ah Samsung battery, Shimano 7-speed gears, and dual hydraulic disc brakes for a safe and enjoyable riding experience.

2. SAFETY INFORMATION

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

- **Helmet Use:** Always wear a certified bicycle helmet when riding.
- **Pre-Ride Check:** Before each ride, inspect tires, brakes, battery, and all fasteners to ensure they are secure and functioning correctly.
- **Traffic Laws:** Obey all local traffic laws and regulations.
- **Visibility:** Use the integrated lights and rear reflector, especially during low-light conditions. Consider wearing reflective clothing.
- **Weather Conditions:** Exercise caution when riding in wet or slippery conditions. The IP65 waterproof rating for the battery allows for riding in various weather, but always prioritize safety.
- **Weight Limit:** Do not exceed the recommended weight capacity of the bicycle.
- **Battery Safety:** Only use the provided charger. Do not attempt to open or modify the battery pack. Charge in a well-ventilated area.
- **Braking:** Familiarize yourself with the hydraulic disc brakes. Practice braking in a safe area before riding in

traffic.

3. SETUP AND ASSEMBLY

Your airwest electric bicycle is 85% pre-assembled. The following steps detail the final assembly process. An installation video and tools are included for assistance.

3.1 Unboxing and Inspection

Carefully remove all components from the packaging. Inspect for any damage during transit. Ensure all parts listed in the packing list are present.

3.2 Front Wheel Installation

Align the front wheel with the fork dropouts. Ensure the brake rotor slides correctly into the brake caliper. Secure the wheel using the quick-release skewer or axle nuts as per the specific design.

3.3 Handlebar Installation

Attach the handlebar to the stem. Ensure the handlebar is centered and the brake levers and shifters are positioned comfortably for easy access. Tighten all bolts securely.

3.4 Seat Post and Saddle Installation

Insert the seat post into the frame's seat tube. Adjust the saddle height to ensure a comfortable and safe riding position. The adjustable seat allows for different rider heights. Secure the seat post clamp firmly.

3.5 Pedal Installation

Identify the left (L) and right (R) pedals. Apply a small amount of grease to the pedal threads. Screw the pedals into the crank arms. Remember that the left pedal has a reverse thread (tightens counter-clockwise). Tighten firmly with a wrench.

3.6 Battery Charging

Before first use, fully charge the 48V 15Ah Samsung battery. The battery can be charged on or off the bike. Charging time is approximately 4-5 hours. Use only the provided charger.



48V 15AH

Batería con celdas samsung

2 tipos de carga
Extraíble y bloqueable



4 horas
(Carga rápida)



IP65

(Nivel de impermeabilidad)



40-80 KM
(Largo alcance)

Figure 3.6: The 48V 15Ah Samsung battery, which can be charged on or off the bike. It features IP65 waterproofing and anti-theft locking.

4. OPERATING INSTRUCTIONS

Understanding the different modes and controls will enhance your riding experience.

4.1 Powering On/Off

Locate the power button on the LCD display. Press and hold to turn the system on or off.

4.2 LCD Display Functions

The LCD display provides real-time riding data:

- **Speed:** Current riding speed.
- **Mileage:** Total distance traveled.
- **Power:** Battery level indicator.
- **Riding Mode:** Indicates the current assistance mode.

4.3 Riding Modes

Your airvest electric bicycle offers three distinct riding modes:

- **Normal Bicycle Mode:** In this mode, the electric motor provides no assistance. The bicycle operates like a traditional pedal bike, relying solely on your pedaling power.
- **Pedal-Assist Mode (PAS):** This mode provides electric assistance as you pedal. There are 5 adjustable levels of assistance. Use the '+' and '-' buttons on the display to increase or decrease the assistance level. Higher levels provide more power, making pedaling easier, especially on inclines.
- **Walk Mode:** This mode provides a very low power impulse (approximately 6 km/h) to assist you when walking alongside the bicycle, useful for navigating crowded areas or pushing the bike uphill.

4.4 Shimano 7-Speed Gears

The Shimano 7-speed gear system allows you to adjust your pedaling effort to match terrain and speed. Use the shifter on the handlebar to change gears. Lower gears (larger cogs) are for climbing hills, while higher gears (smaller cogs) are for faster speeds on flat terrain.

4.5 Braking System

The bicycle is equipped with dual hydraulic disc brakes for superior stopping power and control. Apply both front and rear brakes simultaneously for effective and safe stopping. Avoid sudden, hard braking, especially with the front brake, to prevent skidding.

FRENOS DE DISCO HIDRÁULICOS DOBLES

Rotor de 180 mm

Capacidad de frenado fiable en cualquier condición meteorológica

Frenos de disco hidráulicos



Frenos de disco mecánicos

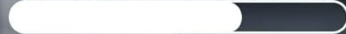


Figure 4.5: The dual hydraulic disc brakes provide reliable stopping power in all weather conditions.

4.6 Suspension Fork

The hydraulic locking front suspension fork provides a smoother ride over rough terrain. You can lock the suspension for more efficient pedaling on smooth surfaces or unlock it for shock absorption on uneven paths.



Figure 4.6: The airwest electric bicycle featuring its robust design, fat tires, and front suspension.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your electric bicycle.

5.1 Cleaning

Clean your bicycle regularly with a damp cloth and mild soap. Avoid high-pressure washing, especially around electrical components and bearings.

5.2 Tire Pressure

Check tire pressure before each ride. The 26" x 4.0" fat tires require specific pressure for optimal performance and comfort. Refer to the tire sidewall for recommended PSI ranges. Proper inflation prevents punctures and improves ride quality.



Figure 5.2: Close-up of the 26" x 4.0" Kenda fat tire, designed for various terrains.

5.3 Chain Lubrication

Lubricate the chain regularly, especially after riding in wet conditions. A well-lubricated chain ensures smooth gear changes and reduces wear.

5.4 Brake Inspection

Regularly check brake pads for wear and brake levers for proper function. If brakes feel spongy or less effective, they may need adjustment or fluid bleeding by a qualified technician.

5.5 Battery Care

Store the battery in a cool, dry place. If storing for extended periods, charge the battery to approximately 50-70% and recharge every 2-3 months to maintain battery health.

5.6 Fastener Check

Periodically check all bolts and nuts for tightness, especially on critical components like the handlebars, seat post, wheels, and crank arms.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your airwest electric bicycle.

Problem	Possible Cause	Solution
Bicycle not powering on.	Battery not charged, battery not properly seated, power button not pressed correctly.	Ensure battery is fully charged and securely inserted. Press and hold the power button on the LCD display. Check battery connection.
Motor not assisting.	Pedal-assist level is zero, battery low, motor connection issue, brake lever sensor engaged.	Increase pedal-assist level on the display. Charge the battery. Check all motor cable connections. Ensure brake levers are not partially engaged.
Short battery range.	Under-inflated tires, riding in high-assist mode, frequent stops/starts, cold weather, uphill riding.	Maintain proper tire pressure. Use lower assist levels when possible. Plan routes to minimize steep climbs. Battery performance can be reduced in cold temperatures.
Brakes squealing or ineffective.	Contaminated brake pads/rotors, worn brake pads, air in hydraulic lines.	Clean rotors and pads with disc brake cleaner. Replace worn brake pads. If issue persists, hydraulic system may need bleeding by a professional.
Gears not shifting smoothly.	Dirty or unlubricated chain, misaligned derailleur, stretched cable.	Clean and lubricate the chain. Adjust derailleur limits and cable tension. If cables are stretched, they may need replacement.

For issues not covered here, please contact airwest customer support.

7. SPECIFICATIONS

Feature	Detail
Model	26 x 4.0" Fat Tire Electric Bicycle
Motor	250W Bafang Motor (85 Nm torque)
Battery	48V 15Ah Samsung Lithium Battery (IP65 waterproof)
Max Speed	Up to 25 km/h (15.5 mph)
Range	40-80 km (25-50 miles) per charge
Charging Time	4-5 hours
Gears	Shimano 7-Speed
Brakes	Dual Hydraulic Disc Brakes (180mm rotor)
Tires	26" x 4.0" Kenda Fat Tires

Feature	Detail
Suspension	Lockable Hydraulic Front Suspension Fork
Display	LCD Display (Speed, Mileage, Power, Mode)
Max Climbing Angle	Up to 30 degrees
Weight	40.5 kg (E-bike weight)
Recommended Rider Height	167-198 cm
Included Components	Bell, Front Light, Rear Reflector, Tool Kit



Figure 7.1: Detailed size parameters of the airwest electric bicycle.

8. WARRANTY AND SUPPORT

airwest provides professional after-sales service. For any questions or concerns regarding your electric bicycle, please contact our customer service team. We aim to respond to all inquiries within 24 hours.

Please refer to your purchase documentation for specific warranty terms and conditions. Keep your proof of purchase for warranty claims.

For installation assistance, an installation video and manual are provided with the product.