Denver E2000

Denver E2000 Electric Folding Bicycle User Manual

Model: E2000

Introduction

Thank you for choosing the Denver E2000 Electric Folding Bicycle. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your new electric bike. Please read this manual thoroughly before your first ride and keep it for future reference. The Denver E2000 is designed for urban commuting and leisure, offering the convenience of an electric motor and a foldable frame for easy storage and transport.

Safety Information

Your safety is paramount. Always wear a helmet when riding. Obey all local traffic laws and regulations. Perform a pre-ride check before each use, including brakes, tires, battery level, and frame integrity. Do not ride under the influence of alcohol or drugs. Avoid riding in adverse weather conditions or on slippery surfaces.

- Always wear an approved bicycle helmet.
- Ensure all quick-release levers and folding mechanisms are securely locked before riding.
- Check tire pressure before each ride.
- Test brakes to ensure proper function.
- Be aware of your surroundings and other road users.
- Do not exceed the maximum weight capacity of the bicycle.

Package Contents

Upon unpacking, please verify that all components are present and undamaged:

- Denver E2000 Electric Folding Bicycle (98% assembled)
- Battery (pre-installed or separate)
- Battery Charger
- Mudguards (pre-installed or separate)
- User Manual (this document)

Setup

Unpacking and Initial Inspection

Carefully remove the bicycle from its packaging. Inspect the frame, wheels, and components for any signs of damage that may have occurred during shipping. Report any damage to your retailer immediately.

Assembly (98% Assembled)

Your Denver E2000 comes 98% assembled. The remaining steps typically include:

1. **Unfolding the Frame:** Carefully unfold the main frame and secure the folding mechanism latch. Ensure it clicks firmly into place.
2. **Handlebar Setup:** Raise the handlebar stem and secure its folding latch. Adjust the handlebar height to a comfortable riding position and tighten the quick-release lever.
3. **Seat Post Installation:** Insert the seat post into the frame. Adjust the seat height so your leg has a slight bend at the knee when the pedal is at its lowest point. Secure the seat post quick-release lever.
4. **Pedal Attachment:** Identify the left (L) and right (R) pedals. The left pedal threads counter-clockwise, and the right pedal threads clockwise. Apply a small amount of grease to the threads and tighten them firmly with a wrench.
5. **Tire Inflation:** Check the tire pressure using a gauge. Inflate to the recommended PSI (pounds per square inch) indicated on the tire sidewall.
6. **Brake Check:** Squeeze both brake levers to ensure they engage the brakes effectively. Adjust cable tension if necessary.



Figure 1: The Denver E2000 Electric Folding Bicycle in its unfolded state, ready for assembly of pedals and final adjustments.



Figure 2: Rear view of the bicycle, showing the rear motor, pannier rack, and mudguard. Note the battery mounted on the rear rack.



Figure 3: Front view of the bicycle, highlighting the front wheel, fork, and handlebars with the control display.

Initial Battery Charge

Before your first ride, fully charge the battery. Connect the charger to the battery charging port and then plug it into a power outlet. The indicator light on the charger will change (e.g., from red to green) when charging is complete. This typically takes several hours.

Operating Instructions

Folding and Unfolding the Bicycle

The Denver E2000 features a convenient folding design for portability and storage.

1. **To Fold:**
    - Lower the seat post completely.
    - Release the handlebar stem folding latch and fold the handlebars down.
    - Release the main frame folding latch and carefully fold the bicycle in half.
    - Some models may have foldable pedals; fold them if applicable.
2. **To Unfold:**
    - Reverse the folding steps, ensuring all latches and quick-releases are securely fastened before riding.



Figure 4: The Denver E2000 in its compact, folded configuration, demonstrating its portability.

Powering On/Off and LED Display

The LED display on the handlebars controls the electric assist system.



Figure 5: Close-up of the LED display, showing power button, battery indicator, and assist level buttons (Low, Med, High).

- **Power On:** Press and hold the power button () on the LED display. The battery indicator lights will illuminate.
- **Power Off:** Press and hold the power button again until the lights turn off.
- **Battery Indicator:** The LED lights indicate the remaining battery charge. More lights mean more charge.
- **Assist Levels:** Use the "MODE" button to cycle through the pedal assist levels: LOW, MED, HIGH. Each level provides a different amount of motor assistance.



Figure 6: The handlebars showing the LED display on the left, and the Shimano Revoshift gear shifter and brake lever on the right.

Pedal Assist System (PAS) Usage

The E2000 is a pedal-assist bicycle. The motor provides assistance only when you are pedaling. The level of assistance depends on the selected mode (LOW, MED, HIGH).

- Start in LOW mode for gentle assistance and to conserve battery.
- Use MED or HIGH for more power, such as climbing hills or accelerating.
- The motor will cut off when you stop pedaling or apply the brakes.

Gear Shifting

Your bicycle is equipped with a Shimano TY 21 6-speed derailleur and Shimano Revoshift freewheel. Use the twist shifter on the right handlebar to change gears. Shift to a lower gear for easier pedaling on inclines and a higher gear for faster speeds on flat terrain.



Figure 7: Detailed view of the rear wheel, showing the 250W rear hub motor, the 6-speed freewheel, and the Shimano TY 21 derailleur.

Braking

The E2000 uses V-brakes (Linear Pull). The left lever typically controls the front brake, and the right lever controls the rear brake. Apply both brakes simultaneously for effective stopping. The brake levers are designed to cut off motor power when engaged.

Maintenance

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

- **Battery Care:**
    - Charge the Lyshen 36V 10.4Ah battery fully after each ride, or at least once a month if not in use, to prolong its lifespan.
    - Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
    - Do not fully discharge the battery regularly.
- **Tires:**
    - Check tire pressure before each ride. Maintain pressure within the range specified on the tire sidewall (20 x

1.75 covers).
    - Inspect tires for wear, cuts, or embedded objects.
- **Brakes:**
    - Regularly check brake pads for wear and replace them when necessary.
    - Ensure brake levers have proper tension and engage smoothly.
- **Chain:**
    - Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Folding Mechanism:**
    - Keep the folding hinges clean and lightly lubricated.
    - Ensure all latches are free of debris and operate smoothly.
- **General Cleaning:**
    - Clean the bicycle with a damp cloth and mild soap. Avoid high-pressure washing, especially around electrical components.

Troubleshooting

This section addresses common issues you might encounter with your Denver E2000.

Problem	Possible Cause	Solution
Motor not engaging / No power assist	Battery low or not charged. Battery not properly seated. Power button not pressed. Brake levers engaged.	Charge the battery fully. Ensure battery is securely locked in place. Press and hold the power button on the display. Release brake levers completely.
Battery not charging	Charger not properly connected. Power outlet not working. Damaged charger or battery.	Check all connections. Try a different power outlet. Contact customer support if charger/battery is suspected to be faulty.
Gears slipping or not shifting smoothly	Derailleur out of adjustment. Dirty or unlubricated chain. Damaged shifter cable.	Adjust derailleur limits and cable tension (refer to a bicycle repair guide or professional). Clean and lubricate the chain. Inspect and replace cable if damaged.
Brakes feel spongy or ineffective	Brake pads worn. Brake cable loose.	Replace worn brake pads. Adjust brake cable tension.

For issues not listed here or if solutions do not resolve the problem, please contact Denver customer support or a qualified bicycle mechanic.

Specifications

Feature	Detail
Model	E2000
Bike Type	Electric Folding Bike
Frame Material	Aluminum
Wheel Size	20 Inches
Number of Speeds	6 (Shimano TY 21)
Motor	250W Rear Hub Motor
Battery	Lyshen 36V 10.4Ah Lithium Ion
Brake Type	Linear Pull (V-Brake)
Suspension	Rear
Features	Foldable, Pannier Rack, Mudguards
Color	Black
Approx. Package Dimensions	160 x 80 x 20 cm
Approx. Weight	13 kg (Package Weight)

Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the warranty card included with your purchase or contact Denver customer service directly. Keep your proof of purchase for warranty claims.
For further assistance, visit the official Denver website or contact your authorized retailer.

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