

Rakowe G16

Rakowe G16 Folding Electric Bike User Manual

Model: G16

1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your Rakowe G16 Folding Electric Bike. Please read this manual thoroughly before your first ride to ensure proper use and to maximize your riding experience. Retain this manual for future reference.



Image 1.1: Two Rakowe G16 Folding Electric Bikes

2. SAFETY INFORMATION

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

- **Helmet Use:** Always wear a certified helmet when riding.
- **Local Regulations:** Familiarize yourself with and obey all local traffic laws and regulations for electric bicycles.
- **Pre-Ride Check:** Before each ride, inspect brakes, tire pressure, battery charge, and ensure all quick releases and fasteners are secure.
- **Weather Conditions:** Exercise caution when riding in wet conditions, as braking distance may increase. Avoid riding in severe weather.
- **Weight Limit:** Do not exceed the maximum weight capacity of the bicycle.
- **Age Restriction:** This electric bike is intended for adult use.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present:

- Rakowe G16 Folding Electric Bike (80% pre-assembled)
- Removable Lithium Battery
- Battery Charger
- Basket
- Assembly Tools
- User Manual

4. SETUP AND ASSEMBLY

Your Rakowe G16 electric bike arrives approximately 80% pre-assembled. The remaining assembly typically involves attaching the handlebars, pedals, front wheel, and basket. A video manual and necessary tools are provided to assist with this process.

1. **Unpack:** Carefully remove the bike and all components from the packaging.
2. **Handlebars:** Attach and secure the handlebars, ensuring they are aligned with the front wheel.
3. **Pedals:** Install the pedals. Note that pedals are typically marked 'L' for left and 'R' for right, and thread in opposite directions.
4. **Front Wheel:** Secure the front wheel. Ensure the disc brake rotor is correctly seated within the caliper.
5. **Basket:** Attach the basket to the designated mounting points.
6. **Pre-Ride Check:** Before your first ride, double-check all bolts, quick releases, and connections for tightness and security. Ensure tires are inflated to the recommended pressure.

5. COMPONENTS OVERVIEW

Understanding the key components of your Rakowe G16 is essential for proper operation.

- **Motor:** Equipped with a Peak 750W (rated 500W) high-speed brushless motor, capable of reaching speeds up to 28 mph and climbing 25-degree inclines.
- **Battery:** Removable 48V 15Ah (720Wh) Lithium-ion battery, UL 2849 certified for safety. Integrated into the bike frame for a compact look.
- **Wheels:** 16-inch x 2.15-inch integrated alloy one-piece wheels with an anti-puncture layer for durability on various terrains.
- **Brakes:** Fast dual front and rear mechanical disc brakes for reliable stopping power.
- **Suspension:** Dual suspension system for a smooth ride.
- **Display:** LCD display showing speed, battery level, and other ride data.
- **Shifting System:** 3-speed shifting system.
- **Additional Features:** Adjustable handlebars and saddle, front/rear lighting, phone holder with USB, water bottle holder, portable bike basket.



Image 5.1: Removable Battery with USB Port

500W Brushless Motor

Speed and Reliability Combined

Max Speed: 750W 28mph



Delivers powerful performance to conquer hills, making it easy for riders to tackle inclines with ease.

Image 5.2: 500W Brushless Motor

16" X 2.15" INTEGRATED WHEELS

Provides greater durability and strength than traditional spoke wheels. The sturdy construction makes them more resistant to damage from rough roads or bumps.

Anti-Puncture Layer

16-inch Alloy
One-Piece Wheel Hub



City Street



Rural Road



Mountain road



Gravel road

Image 5.3: 16-inch Integrated Wheels



Image 5.4: LCD Display and Accessories

6. OPERATING INSTRUCTIONS

Learn how to operate your Rakowe G16 electric bike safely and efficiently.

6.1 Powering On/Off

- **To Power On:** Press and hold the power button on the LCD display until the screen illuminates.
- **To Power Off:** Press and hold the power button again until the display turns off.

6.2 Riding Modes

The Rakowe G16 offers three riding modes:

- **Electric-Only Mode:** Engage the throttle for propulsion without pedaling. Range up to 25 miles.
- **Pedal-Assist System (PAS) Mode:** The motor provides assistance as you pedal. Multiple assist levels are available via the display. Range up to 45 miles.
- **Regular Bike Mode:** Ride without any electrical assistance, similar to a traditional bicycle.

6.3 Speed Control and Shifting

- **Throttle:** Use the twist grip throttle for electric-only propulsion.
- **PAS Levels:** Adjust the pedal-assist level using the controls on the LCD display. Higher levels provide more motor assistance.
- **Gear Shifter:** Utilize the 3-speed twist grip shifter to change mechanical gears for varying terrain and effort.

6.4 Braking

The bike is equipped with dual mechanical disc brakes. Apply both front and rear brakes simultaneously for effective and controlled stopping. Practice braking in a safe area to become familiar with their response.

ECO-CONSCIOUS & PRACTICAL CITY TRAVEL

28MPH
Max Speed

45 MILES
Pedal-Assist Mode

25 MILES
Pure Electric Mode

5.5Hours
Fast Charge



Image 6.1: Riding the Rakowe G16 in a City Environment

10-LAYER SHOCK ABSORPTION



Image 6.2: Demonstrating Shock Absorption

7. BATTERY INFORMATION

The Rakowe G16 features a removable, UL 2849 certified lithium-ion battery.

7.1 Charging the Battery

- **Removal:** To remove the battery, fold down the bike seat. The battery can then be easily slid out from the frame.
- **Connection:** Connect the charger to the battery's charging port, then plug the charger into a standard electrical outlet.
- **Indicator:** The charger will typically have an indicator light (e.g., red for charging, green for fully

charged).

- **Charging Time:** A full charge takes approximately 5.5 hours.
- **Charging Location:** The battery can be charged while installed on the bike or removed.

7.2 Battery Care

- Avoid fully discharging the battery regularly.
- Store the battery in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for extended periods, charge the battery to approximately 50-70% and check it periodically.

8. FOLDING INSTRUCTIONS

The Rakowe G16 is designed for convenient folding, making it easy to transport and store.

1. **Lower Seatpost:** Release the quick-release lever and lower the seatpost completely.
2. **Fold Pedals:** If your pedals are foldable, push them in and fold them up.
3. **Fold Handlebars:** Release the handlebar stem latch and fold the handlebars down.
4. **Fold Frame:** Locate the main frame hinge latch, release it, and carefully fold the bike in half. Ensure the safety clasp engages.
5. **Secure:** Use any integrated straps or magnets to secure the folded bike.

Folded Dimensions: Length: 35 inches, Width: 23 inches, Height: 31 inches.



FOLDABLE DESIGN

Space-saving and convenient for easy transportation

Folded Size: Length: 35 Width: 23 Height: 31

Image 8.1: Folding the Rakowe G16 for Transport

9. MAINTENANCE

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

- **Tires:** Check tire pressure before each ride. Maintain recommended PSI. Inspect for wear and punctures.
- **Brakes:** Regularly check brake pads for wear and ensure brake levers operate smoothly. Adjust cable tension as needed.
- **Chain:** Keep the chain clean and lubricated. Inspect for rust or damage.
- **Fasteners:** Periodically check all bolts, nuts, and quick releases for tightness.
- **Cleaning:** Clean the bike with a damp cloth. Avoid using high-pressure washers directly on electrical components.

- **Storage:** Store the bike in a dry, secure location, preferably indoors, away from extreme temperatures.

10. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly seated; loose electrical connection.	Ensure battery is fully charged and securely inserted. Check all visible connections.
Motor not assisting	PAS level set to zero; brake levers engaged; motor cable disconnected.	Increase PAS level. Ensure brake levers are fully released. Check motor cable connection.
Brakes feel weak	Worn brake pads; loose brake cable; contaminated rotors.	Inspect and replace brake pads if worn. Adjust brake cable tension. Clean rotors with disc brake cleaner.
Chain falls off frequently	Misaligned derailleur; worn chain; loose chain tension.	Inspect and adjust derailleur. Replace worn chain. Ensure proper chain tension.

If you encounter issues not listed here or require further assistance, please contact customer support.

11. SPECIFICATIONS

Detailed technical specifications for the Rakowe G16 Folding Electric Bike.

Feature	Specification
Model Name	Rakowe G16 Electric Bike for Adults
Bike Type	City Bike, Folding Bike
Motor	Peak 750W / Rated 500W Brushless Motor
Max Speed	28 MPH
Battery	48V 15Ah (720Wh) Removable Lithium-ion, UL 2849 Certified
PAS Range	Up to 45 Miles
Electric-Only Range	Up to 25 Miles
Charging Time	Approx. 5.5 Hours
Wheel Size	16 Inches
Frame Material	High Carbon Steel

Feature	Specification
Suspension Type	Dual
Brake Style	Dual Mechanical Disc
Gear Shifter Type	Twist Grip (3-speed)
Folded Dimensions (L x W x H)	35 x 23 x 31 Inches
Included Components	Basket
UPC	772643157808

12. WARRANTY AND SUPPORT

Rakowe provides comprehensive support for your G16 Folding Electric Bike.

- **Warranty:** Your electric bike comes with a 1-year limited warranty covering manufacturing defects.
- **Technical Support:** Lifetime technical support is available for all Rakowe G16 owners.
- **Contact:** For warranty claims, technical assistance, or any product-related inquiries, please contact Rakowe customer service through the retailer's platform or the official Rakowe website.