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- › [Freego](#) /
- › [Freego F4 Electric Bike User Manual](#)

Freego F4

Freego F4 Electric Bike User Manual

Model: F4

1. INTRODUCTION

Welcome to the Freego F4 Electric Bike user manual. This document provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new Freego F4 electric bicycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.



Figure 1.1: Freego F4 Electric Bike with rear cargo rack.

2. SAFETY INFORMATION

Your safety is paramount. Always wear a helmet and appropriate safety gear when riding. Adhere to all local traffic laws and regulations. Regular inspection and maintenance are crucial for safe operation.

- Always check tire pressure, brake function, and battery level before each ride.
- Do not operate the e-bike under the influence of alcohol or drugs.
- Be aware of your surroundings and ride defensively.
- Ensure all components are securely fastened before riding.

3. SETUP AND ASSEMBLY

The Freego F4 electric bike requires some assembly upon arrival. Please follow these steps carefully. Refer to the included installation tools for assistance.

1. **Unpacking:** Carefully remove all components from the packaging. Check against the included components list: Fenders, 24" x 2.4" MTB Tires, charger, Front light and tail light, Bell, Tool kits, Battery charger, Phone holder, RainProof Bag, Mini seat, Foot stand, Freego Electric Mountain Ebike Bike x 1.

2. **Handlebar Installation:** Attach the handlebar to the stem, ensuring it is centered and tightened securely.
3. **Front Wheel Installation:** Install the front wheel, ensuring the brake rotor aligns correctly with the caliper. Tighten the quick-release or axle nuts firmly.
4. **Pedal Installation:** Identify left (L) and right (R) pedals. Thread the pedals into the crank arms (left pedal is reverse threaded). Tighten securely with a wrench.
5. **Seat Post and Saddle:** Insert the seat post into the frame and adjust the saddle height for comfortable riding. Secure the quick-release lever or bolt.
6. **Battery Installation:** Ensure the battery is fully charged before first use. Insert the 48V/20Ah removable lithium-ion battery into its compartment and lock it securely.
7. **Fender and Rack Installation:** Attach the fenders and the rear cargo rack using the provided hardware.
8. **Pre-Ride Check:** Before your first ride, perform a thorough check of all bolts, brakes, tires, and lights.

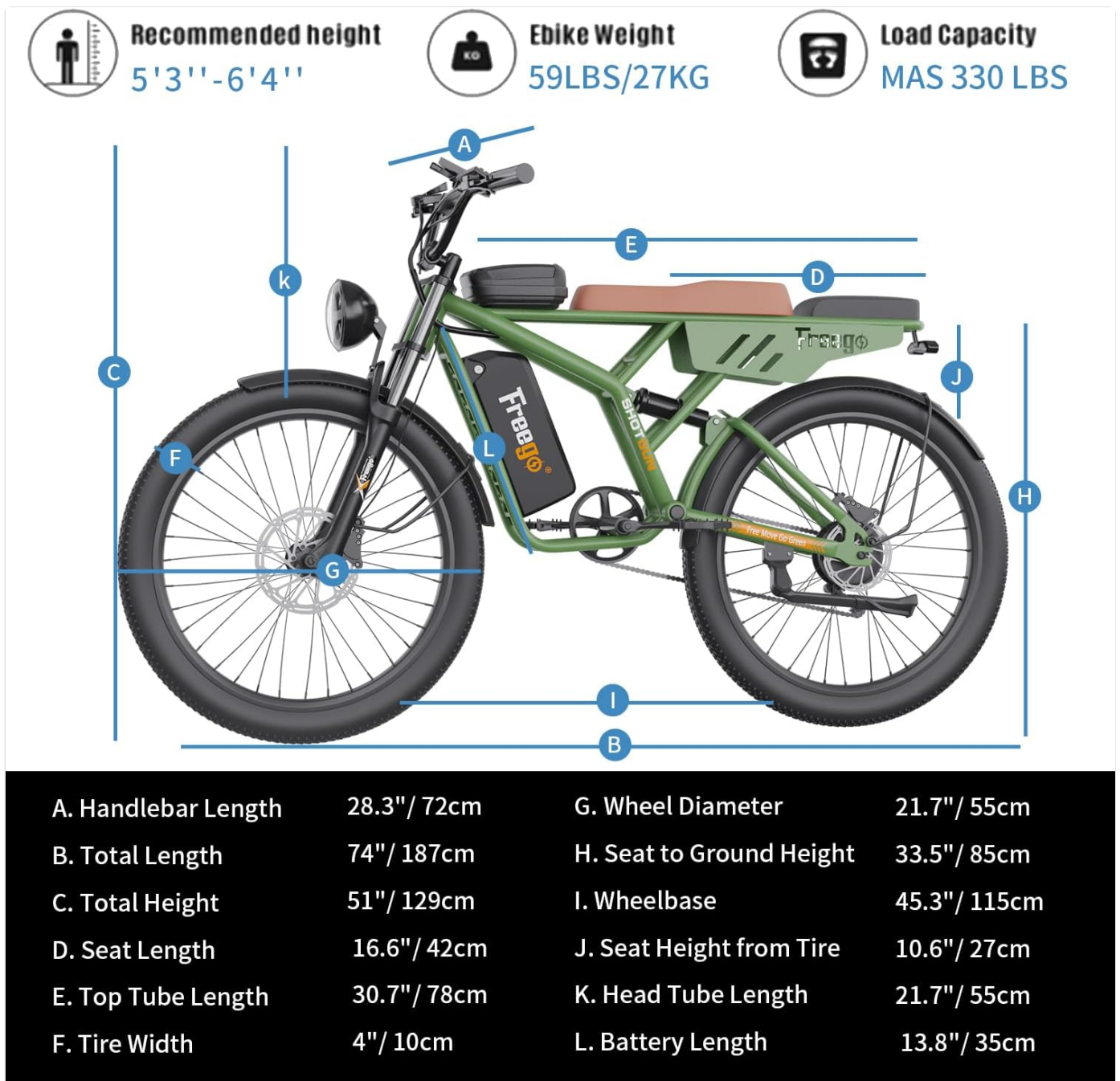


Figure 3.1: Recommended rider height (5'3"-6'4") and bike dimensions.

4. OPERATING INSTRUCTIONS

The Freego F4 offers multiple riding modes for versatile use.

4.1 Powering On/Off

To power on the e-bike, press and hold the power button on the LCD control panel. To power off, press and hold the same button.

4.2 Riding Modes

- **Pedal Assist Mode:** The motor provides assistance as you pedal. This mode offers a range of 31-40 miles depending on terrain and rider input. Adjust the assist level using the controls on the LCD panel.
- **Pure Electric Mode:** Engage the throttle for full electric power without pedaling. This mode provides a range of 25-31 miles.

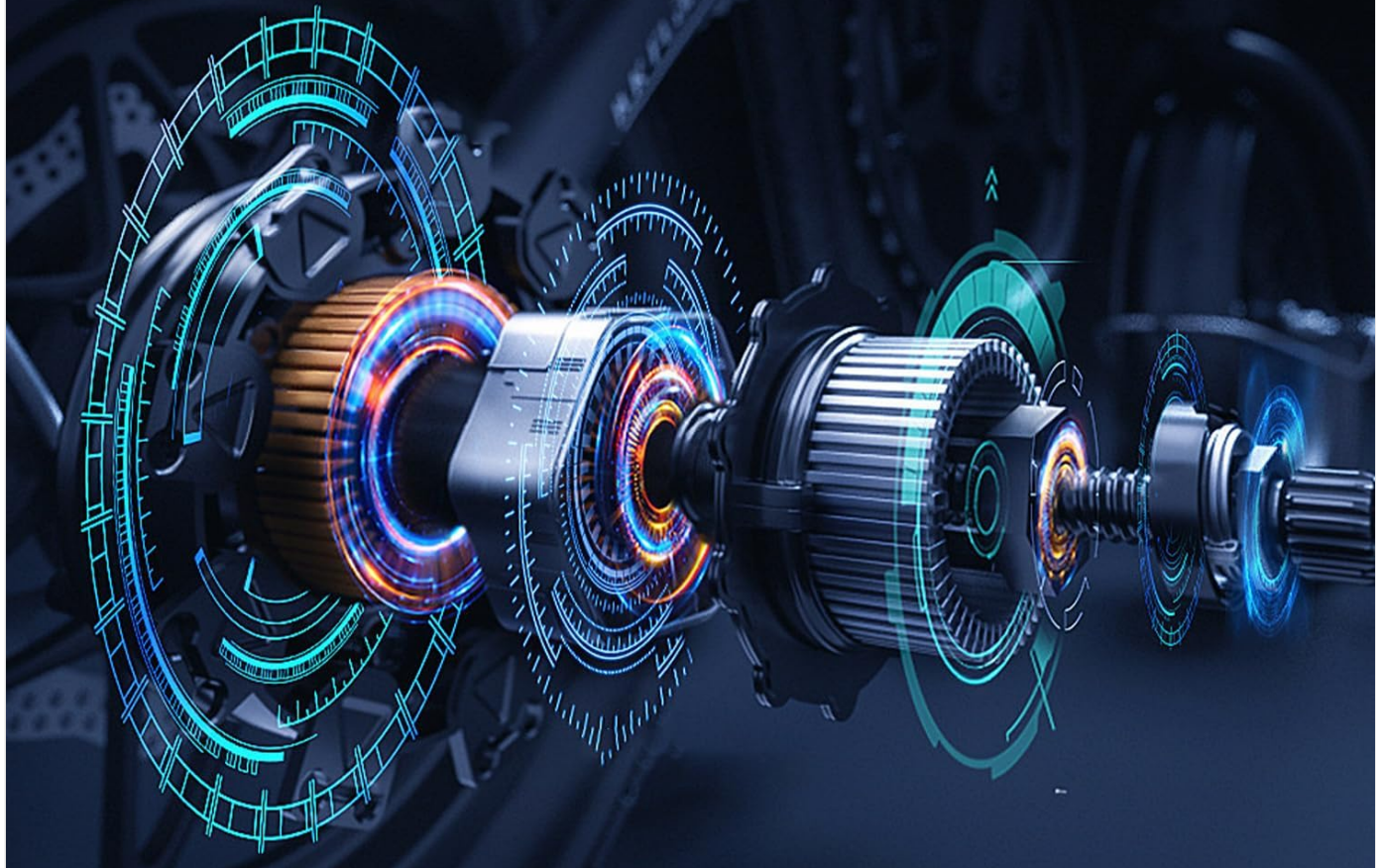
4.3 Gear Shifting

The Freego F4 is equipped with a 7-speed gear system. Use the twist grip shifter on the handlebar to change gears according to terrain and desired speed. Shift smoothly to avoid strain on the drivetrain.

4.4 Braking System

The e-bike features front and rear hydraulic disc brakes for effective and reliable stopping power. Apply both brakes simultaneously for optimal control and shorter stopping distances.

HIGH-SPEED REAR MOTOR



48V/1000W
POWERFUL MOTOR

80NM
Torque

28MPH
TOPSPEED

40°
SLOPE

Figure 4.1: Illustration of the 1000W brushless rear motor.



960Wh BATTERIES

48v 20ah
Lithium-ion Battery

REMOVABLE
Battery Packs

BMS
Intelligent & Safety

40+ MILES
Max range

Figure 4.2: Details of the 48V 20Ah 960Wh removable lithium-ion battery.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Freego F4 electric bike.

- **Cleaning:** Clean the bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Tires:** Maintain proper tire pressure (refer to tire sidewall for recommended PSI). Inspect tires for wear and punctures. The 24" x 2.4" fat tires provide excellent traction.
- **Brakes:** Check brake pads for wear and ensure hydraulic brakes are responsive. Adjust or replace as needed.
- **Chain:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Battery Care:** Store the battery in a cool, dry place. Charge regularly, even if not in use, to maintain battery health. Avoid fully discharging the battery.
- **Fasteners:** Periodically check and tighten all bolts and fasteners, especially on critical components like handlebars, wheels, and seat post.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Freego F4 electric bike.

Problem	Possible Cause	Solution
Bike does not power on	Battery not charged or not properly seated; Power button issue.	Ensure battery is fully charged and securely inserted. Press power button firmly.
Motor not assisting	Pedal assist level too low; Brake levers engaged; Motor connection issue.	Increase pedal assist level on LCD. Release brake levers. Check motor cable connections.
Short battery range	Battery not fully charged; Riding in high assist/throttle mode; Uphill riding.	Fully charge battery. Use lower assist levels or pedal more.
Brakes feel weak	Worn brake pads; Air in hydraulic line; Misaligned caliper.	Inspect and replace brake pads. Bleed hydraulic lines (professional service recommended). Adjust caliper alignment.

7. SPECIFICATIONS

Detailed technical specifications for the Freego F4 Electric Bike.

Feature	Specification
Model	Freego F4
Bike Type	Electric Mountain E Bike & Commuting Bike / MTB Tires
Motor	1000W Brushless Rear Motor
Battery	48V 20Ah (960Wh) Removable Lithium-ion
Max Speed	28 MPH
Range (Pedal Assist)	31-40 Miles
Range (Pure Electric)	25-31 Miles
Wheel Size	24 Inches
Tires	24" x 2.4" Fat MTB Tires
Frame Material	High-strength Steel Pipe
Suspension	Dual (Front and Rear Shock Absorbers)
Brake Style	Front and Rear Hydraulic Disc Brake
Number of Speeds	7-Speed
Max Load Capacity	330 Pounds
Item Weight	59 Pounds
Assembly Required	Yes
Minimum User Height	62 Inches

8. WARRANTY AND SUPPORT

Freego stands behind the quality of its products.

8.1 Warranty Information

The Freego F4 Electric Bike comes with an **18-month limited warranty**. This warranty covers manufacturing defects in materials and workmanship. Please retain your proof of purchase for warranty claims. The warranty does not cover damage due to misuse, accidents, or normal wear and tear.

8.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact Freego Customer Support. You can find contact information on the official Freego website or through your purchase platform.