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› Fafrees F20 Light E-Bike User Manual

## Fafrees F20 Light

# Fafrees F20 Light E-Bike User Manual

Model: F20 Light

## 1. INTRODUCTION

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This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your Fafrees F20 Light E-Bike. Please read it thoroughly before your first ride and keep it for future reference.

## 2. SAFETY INFORMATION

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

### 2.1 Frame Number Importance

The frame number is a unique identifier for your bicycle, similar to a passport. It is essential for identification in case of theft or for warranty claims. We recommend taking a photo of your bike's frame number. The frame number is typically located on the underside of the bicycle frame.

### 2.2 Seatpost Safety Line

The seatpost has a safety line. Do not exceed this safety line when adjusting the seatpost height to ensure structural integrity and rider safety.

## 3. PACKAGE CONTENTS

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Upon unpacking, please ensure all items are present:

- 1 x Fafrees Electric Bicycle
- 1 x Battery Charger
- 1 x Tool Kit
- 1 x User Manual

## 4. SETUP AND ASSEMBLY

## 4.1 Unfolding the E-Bike

The Fafrees F20 Light features a foldable frame for compact storage and transport. The bike can be unfolded in less than 30 seconds. Carefully release the frame and handlebar folding mechanisms, ensuring they lock securely into place before riding.



Image: The Fafrees F20 Light E-Bike in its unfolded state, highlighting its 250W geared hub motor, 14.5Ah ternary lithium battery, and Shimano 7-speed shifter.

## 4.2 Adjusting Handlebars and Seat

Adjust the handlebar and seat height to achieve a comfortable and safe riding position. The adjustable handlebar allows for personalized fit. Ensure the seatpost does not extend beyond the safety line. Secure all quick-release levers firmly after adjustment.

## 4.3 Battery Installation and Charging

The 36V 14.5Ah battery is removable for convenient charging. To install, slide the battery into its compartment and ensure it locks securely. To charge, connect the provided charger to the battery and a power outlet. Charging typically takes 5-6

hours. The battery features overcharge and overcurrent protection, along with BMS battery management.

# 14.5Ah Removable Lithium Battery



-  Overcharge protection
-  Overcurrent protection
-  BMS battery management

 PAS Mode <b>90-110 km</b>	 Electric Mode <b>55-65 km</b>	 Charging time <b>5-6 hours</b>
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Image: A detailed view of the removable 14.5Ah lithium battery, showing its integration into the bike frame and highlighting overcharge/overcurrent protection and BMS.

## 5. OPERATING INSTRUCTIONS

### 5.1 Powering On and LCD Display

Turn on the e-bike using the power button. The waterproof LCD display will show various data including speed, battery level, odometer, and PAS (Pedal Assist System) level. It also features a cruise control function.



Image: The high-definition LCD color display on the Fafrees F20 Light E-Bike, illustrating metrics such as power, speed, driving mode, range, trip distance, and total distance, along with indicators for cruise control and waterproof design.

## 5.2 Riding Modes

The F20 Light offers three primary riding modes:

- **Electric Mode:** Provides power by turning the throttle, allowing for riding without pedaling.
- **Assisted Mode (PAS):** Provides electric assistance while pedaling. There are 0-3 PAS levels to choose from, adjusting the level of motor support.
- **Manpower Mode:** Traditional pedal mode, operating like a standard bicycle without electric assistance.

Additionally, a **Walk Assist Mode** (6 km/h) is available. Press and hold the down shift button to activate this mode, useful when walking the bike uphill or alongside you.

# Support Modes



## Electric mode

Driving by electric power with turning the handle throttle



## Assisted mode

Driving by pedalling with the assistance of electric power (assisted level: 3 levels)



## Manpower mode

traditional pedal mode to enjoy exercise in daily life.



## Walk assist mode

keep pressing the down shift button to turn on the walk assist mode when you walk you bike upstairs.



Image: An illustration detailing the Electric, Assisted, Manpower, and Walk Assist modes, explaining how each mode functions for varied riding experiences.

## 5.3 Shimano 7-Speed Shifting

The Shimano 7-speed gear system provides precise and smooth gear changes across the entire range. Use the shifter lever on the handlebars to select the appropriate gear for your terrain and speed. This ensures responsive performance.

# Shimano 7-Speed Shifting



Image: A detailed view of the Shimano 7-speed shifting system, showing both the shifter lever on the handlebar and the rear gears for precise control over speed and effort.

## 5.4 Mechanical Disc Brakes

The F20 Light is equipped with mechanical disc brakes for strong and reliable stopping power. These brakes, combined with cutoff brake levers, provide control and confidence, allowing you to stop precisely when needed.

## 5.5 Night Riding Safety

For enhanced safety during night riding, the e-bike includes an StVZO-compliant LED headlight and a rear brake light. Ensure these lights are functional before riding in low-light conditions. Pedal and wheel reflectors are also integrated for increased visibility.



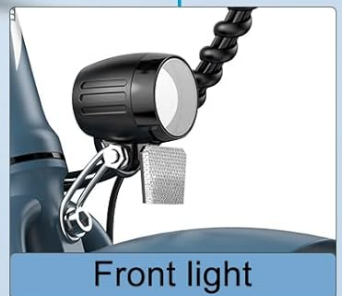
Rear brake light



Pedal reflector



Wheel reflector



Front light

Image: An overview of the Fafrees F20 Light E-Bike with callouts indicating the location of the rear brake light, pedal reflectors, wheel reflectors, and front light, emphasizing its StVZO conformity for night riding safety.

## 6. MAINTENANCE

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

- **Battery Care:** Charge the battery regularly, even when not in use, to maintain its health. Avoid fully discharging the battery.
- **Cleaning:** Clean your e-bike regularly with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Brakes:** Periodically check brake pads for wear and ensure brake levers operate smoothly. Adjust as needed.
- **Gears:** Keep the chain clean and lubricated. Check gear shifting for smoothness and adjust if necessary.
- **Tires:** Maintain correct tire pressure as indicated on the tire sidewall. Inspect tires for wear and damage.
- **Fasteners:** Regularly check all bolts and fasteners for tightness, especially on critical components like handlebars, seatpost, and wheels.

## 7. TROUBLESHOOTING

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### 7.1 General Issues

If you encounter a problem with your Fafrees F20 Light E-Bike, please provide a clear description of the issue. Including photos or videos can greatly assist our engineers in providing an effective solution within two business days. You can send video links in the form of a photo if direct video submission is not possible.

For specific issues not covered here, please refer to the support section.

## 8. SPECIFICATIONS

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Feature	Detail
Model	F20 Light
Type	Foldable City E-Bike
Battery Capacity	36V 14.5Ah / 522 Wh
Charging Time	5-6 hours
Motor Power	250W Brushless Geared Hub Motor
Motor Torque	Max 35 N.m
Max Speed	25 km/h
Assisted Mode Range	90-110 km
Pure Electric Range	55-65 km
Display Type	LCD Display
PAS Levels	0-3
Unfolded Dimensions	158 x 64 x 114 cm
Folded Dimensions	81 x 35 x 62 cm
Adjustable Handlebar Height	99-114 cm
Adjustable Seat Height	73-92 cm
Tire Size	20 inches x 1.95
Recommended Rider Height	155-195 cm
Net Weight	24 kg
Max Load Capacity	120 kg
Frame Material	Aluminium
Brake Type	Mechanical Disc Brakes
Transmission	SHIMANO 7-Speed
Waterproof Rating	IPV4
Fork Type	Hard Fork (No Suspension Fork)

## 9. WARRANTY AND SUPPORT

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Fafrees provides support for your e-bike. If you encounter any issues or require assistance, please contact Fafrees Official customer service. When contacting support, be prepared to provide a detailed description of the problem, including any relevant photos or videos, and your product's frame number.

For general inquiries or to report a problem, you can reach out to the seller directly via the Amazon platform or through the contact information provided with your purchase documentation.

The product is sold by "Fafrees Official" on Amazon.se. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Fafrees customer support.

