

Fafrees F20 PRO

Fafrees F20 PRO Electric Bicycle User Manual

Model: F20 PRO

1. INTRODUCTION

Welcome to the Fafrees F20 PRO Electric Bicycle user manual. This guide provides essential information for the safe and efficient operation, assembly, and maintenance of your new electric bike. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize the lifespan of your bicycle.

The Fafrees F20 PRO is a versatile 20-inch folding electric bike designed for urban commuting and leisure, featuring a powerful 250W motor and a long-range 36V/18Ah removable battery.

2. SAFETY GUIDELINES

Your safety is paramount. Always adhere to the following guidelines when operating your Fafrees F20 PRO Electric Bicycle:

- Always wear a helmet and appropriate safety gear.
- Familiarize yourself with local traffic laws and regulations regarding electric bicycles.
- Perform a pre-ride inspection before each use, checking brakes, tires, and battery level.
- Do not install the seat tube below the safe line marked on the post, as this can damage the frame.
- Ensure all quick releases and folding mechanisms are securely locked before riding.
- Be aware of your surroundings and ride defensively, especially in traffic.
- Avoid riding in adverse weather conditions or on slippery surfaces.
- Do not exceed the maximum load capacity of 150 kg.
- The bike is designed for individuals aged 18-60 years old and 160-185cm tall.

3. PRODUCT COMPONENTS OVERVIEW

The Fafrees F20 PRO Electric Bicycle is equipped with high-quality components for a reliable and enjoyable riding experience:

- **250W Brushless Motor:** Rear-drive motor providing 40N·M torque and a maximum speed of 25km/h.
- **36V 18AH Removable Lithium-ion Battery:** Offers a range of 70-90KM in full electric mode and 110-130KM in electric assist mode.
- **Front Suspension Fork:** 75mm travel oil suspension for improved comfort on varied terrains.
- **7-Speed Deraileur:** Provides precise and smooth gear shifting.
- **Smart LCD Display:** Shows speed, battery level, mileage, and gear, with walk assistance and cruise control functions.
- **20*3.0" Fat Tires:** Professional tires with increased friction for various riding conditions including sand, mud, gravel, and flat roads.
- **Step-Through Foldable Aluminum Frame:** Easy to mount/dismount and folds to a compact size for transport and storage.
- **Mechanical Disc Brakes:** Front and rear 160mm disc brakes with power-off levers for effective stopping.
- **Integrated Lighting:** Bright LED headlight and rear brake light for enhanced night riding safety.

Visual Overview



Figure 1: The Fafrees F20 PRO Electric Bicycle, showcasing its compact design and included saddle bag.



Figure 2: The Fafrees F20 PRO Electric Bicycle positioned on a pebble beach, highlighting its robust tires suitable for varied terrains.

4. SETUP AND ASSEMBLY

Your Fafrees F20 PRO Electric Bicycle comes partially assembled. Follow these steps for final assembly:

1. **Install the Headbar:** Carefully attach the handlebar to the stem, ensuring it is centered and tightened securely.
2. **Install the Saddle:** Insert the seat post into the frame. **Important:** Do not insert the seat tube below the safety line marked on the post to prevent frame damage. Adjust to a comfortable height and tighten.
3. **Install the Pedals:** Identify the left (L) and right (R) pedals. Thread them into the crank arms (left pedal counter-clockwise, right pedal clockwise) and tighten firmly with a wrench.
4. **Install the Headlight:** Attach the headlight to the designated mounting point on the front of the bike and connect any necessary wiring.
5. **Record Serial Code:** Locate and write down the unique serial code of your e-bike. This number is

essential for warranty claims and identification.

Folding and Unfolding

The F20 PRO features a convenient folding design for easy transport and storage:

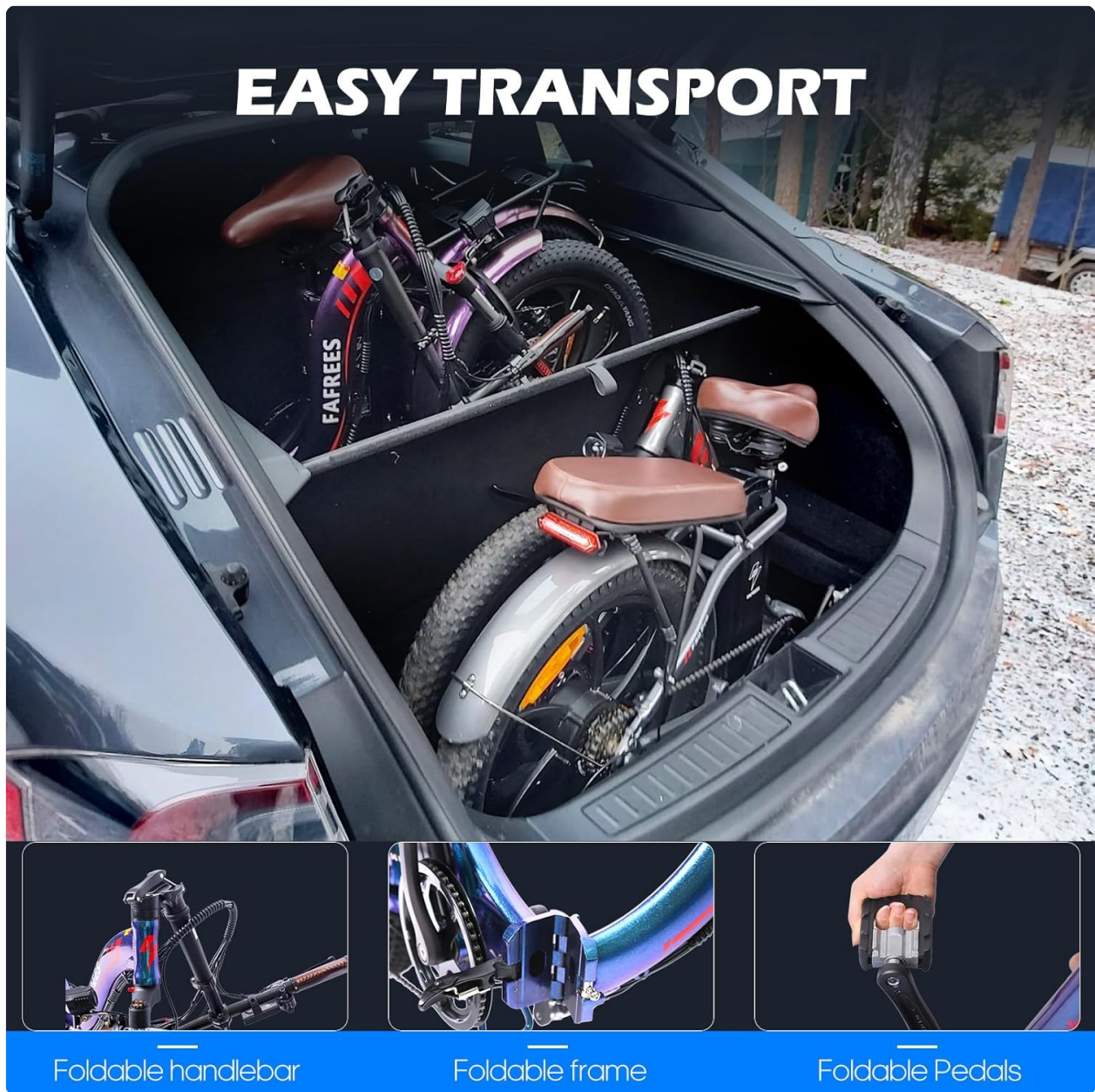


Figure 3: The Fafrees F20 PRO Electric Bicycle folded compactly for easy transport in a car trunk, demonstrating its portability.

- **Folding:** Engage the frame folding latch, lower the seat post, and fold the handlebars down. Ensure all components are securely latched in the folded position.
- **Unfolding:** Reverse the folding process, ensuring all latches and quick releases are fully engaged and secured before riding.

5. OPERATING INSTRUCTIONS

Powering On/Off

To power on your F20 PRO, press and hold the power button on the LCD display. To power off, press and hold the same button until the display turns off.

Smart LCD Display



Figure 4: The Smart Color LCD Display provides real-time information including battery status, current speed, Pedal Assist System (PAS) level, and total driving distance.

The large-screen LCD display provides vital riding information:

- **Battery Indicator:** Shows remaining battery charge.
- **Speed:** Displays current riding speed.
- **PAS Level:** Indicates the current level of pedal assistance (0-3).
- **Mileage:** Tracks total distance traveled.
- **Walk Assistance Mode:** Provides low-speed assistance for walking the bike.
- **Cruise Control Function:** Maintains a set speed without continuous throttle input.

Riding Modes

- **Full Electric Mode:** Engage the thumb throttle for motor-only propulsion without pedaling.
- **Electric Assist Mode (PAS):** The motor provides assistance as you pedal. Adjust the PAS level on the

display to control the amount of assistance.

- **Manual Mode:** Ride the bike like a traditional bicycle without any motor assistance.

Shifting Gears

The 7-speed derailleur allows you to adjust your pedaling effort to different terrains. Use the gear shift lever on the handlebar to change gears smoothly. Shift to lower gears for climbing hills and higher gears for flat terrain or downhill riding.

Braking System



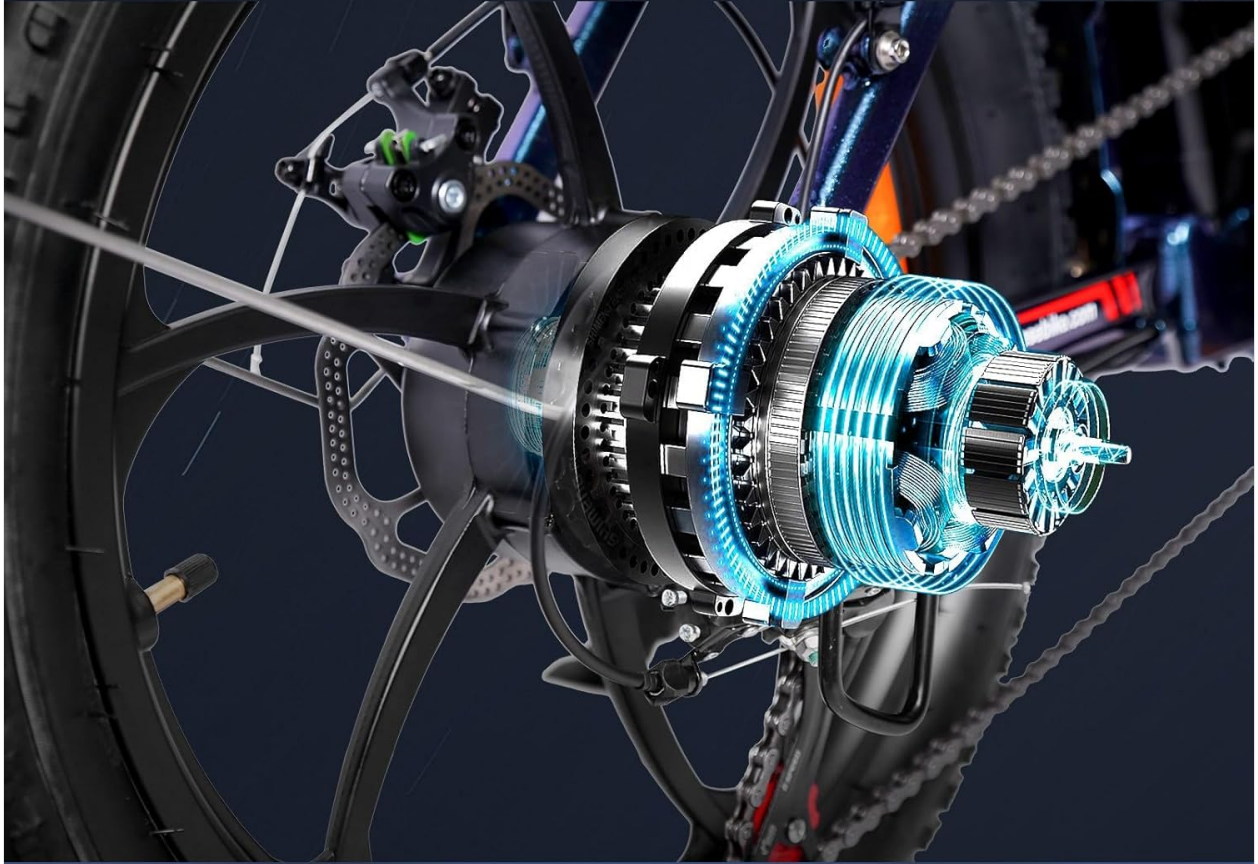
Figure 5: The mechanical 160mm disc brakes provide reliable stopping power, featuring power-off brake levers for enhanced safety.

The F20 PRO is equipped with front and rear mechanical 160mm disc brakes. The power-off brake levers cut motor power when applied, ensuring quick and effective stopping. Always apply both brakes simultaneously for balanced and controlled deceleration.

Motor and Battery

250W BRUSHLESS MOTOR

Powerful rear drive with peak output to 250W



40 Nm

Motor Torque



25 km/h

Max Speed



7- Speed

Shimano Gearing

Figure 6: The powerful 250W brushless rear hub motor provides efficient and quiet assistance, with a maximum torque of 40N·M.

18AH LITHIUM BATTERY

21700 Automotive Grade Battery Cells



Figure 7: The 36V 18AH lithium-ion battery, featuring 21700 automotive-grade cells, is easily removable for convenient charging and security.

The 250W brushless motor is integrated into the rear wheel for better traction and lower maintenance. The 36V 18AH battery provides ample power for extended rides. To charge the battery, remove it from the frame or charge it directly on the bike using the provided charger. A full charge typically takes 7-8 hours.

Suspension and Tires

FRONT SUSPENSION

Improved comfort with rugged fat tires



Figure 8: The front suspension fork, with its lock/open mechanism, combined with the 20x3.0 inch fat tires, provides a comfortable ride across diverse terrains including sand, mud, gravel, and flat roads.

The front suspension fork absorbs shocks and bumps, enhancing ride comfort. The 20*3.0" fat tires offer superior grip and stability on various surfaces, from paved roads to light off-road trails.

Official Product Video

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Video 1: Official Fafrees F20 Pro Electric Bike Features Overview. This video provides a visual demonstration of the bike's key features and functionalities.

6. MAINTENANCE AND CARE

Regular maintenance ensures the longevity and optimal performance of your Fafrees F20 PRO:

- **Cleaning:** Wipe down the bike with a damp cloth after each ride. Avoid using high-pressure washers

directly on electrical components.

- **Brake Inspection:** Regularly check brake pads for wear and ensure brake levers provide firm and responsive stopping power. Adjust or replace as needed.
- **Tire Pressure:** Maintain recommended tire pressure (typically indicated on the tire sidewall) for optimal performance and puncture resistance.
- **Battery Care:** Charge the battery regularly, even if not in use, to maintain its health. Store the battery in a cool, dry place when not in use for extended periods. Avoid fully discharging the battery.
- **Chain Lubrication:** Keep the chain clean and lubricated to ensure smooth gear changes and prevent rust.
- **Fastener Checks:** Periodically check all bolts, nuts, and quick releases to ensure they are tight and secure.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Fafrees F20 PRO Electric Bicycle:

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 cable connections.
Brakes feel weak or take long to stop.	Worn brake pads; loose brake cable; disc rotor contamination.	Inspect brake pads for wear and replace if necessary. Adjust brake cable tension. Clean disc rotors with a suitable brake cleaner.
Battery range is significantly reduced / rapid discharge.	Battery degradation; improper charging habits; extreme temperatures.	Ensure battery is charged according to manual. Avoid extreme temperatures. If issue persists, battery may need professional assessment or replacement.
Handlebar vibrations or instability.	Loose headset; unbalanced wheels; damaged fork.	Check headset for tightness. Inspect wheels for damage or imbalance. If vibrations are severe, consult a professional bike mechanic.
Motor not assisting.	PAS level set to 0; brake levers engaged; motor cable disconnected.	Increase PAS level on the display. Ensure brake levers are fully released. Check motor cable connection.

8. TECHNICAL SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model	F20 PRO
Bike Type	Electric Bike
Motor Wattage	250 watts
Battery	36V 18AH Lithium-ion
Max Speed	25 km/h
Range (Full Electric)	70-90 KM
Range (Electric Assist)	110-130 KM
Wheel Size	20 Inches
Tire Size	20*3.0 inches
Frame Material	Aluminum
Number of Speeds	7
Brake Type	Mechanical Disc
Suspension	Front
Max Load	150 kg
Product Dimensions	174 x 60 x 118 cm
Net Weight	25.5 kg
Recommended Age Range	18-60 Year Old Adult

What's in the Box

- 1 x Fafrees F20 PRO Electric Bike
- 1 x Battery Charger
- 1 x Gift Box
- 1 x User manual

9. WARRANTY AND SUPPORT

Specific warranty details and support contact information are not provided within this manual. For warranty claims, technical support, or service inquiries, please refer to the warranty card included with your purchase or visit the official Fafrees website. You may also contact the seller directly through your purchase platform for assistance.

Please retain your proof of purchase for any warranty-related requests.

