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Fafrees F20 Light

Fafrees F26 Lasting E-Bike User Manual

Model: F20 Light

1. Introduction

This user manual provides essential information for the safe operation, maintenance, and troubleshooting of your Fafrees F26 Lasting E-Bike. Please read this manual thoroughly before your first ride to ensure proper usage and to maximize the lifespan of your electric bicycle.
The Fafrees F26 Lasting E-Bike is designed for urban commuting and light trail riding, offering a comfortable and efficient cycling experience with electric pedal assistance.

2. Safety Information

Your safety is paramount. Adhere to all local traffic laws and regulations. Always wear a helmet and appropriate safety gear when riding.

2.1 General Safety Guidelines

- Always perform a pre-ride inspection, checking brakes, tires, battery level, and lights.
- Do not ride under the influence of alcohol or drugs.
- Be aware of your surroundings and anticipate potential hazards.
- Maintain a safe distance from other vehicles and pedestrians.
- Ensure the saddle post does not exceed the safety line when adjusting.
- Familiarize yourself with the e-bike's controls before riding in traffic.

2.2 Battery Safety

- Use only the original charger provided with the e-bike.
- Do not expose the battery to extreme temperatures or direct sunlight.
- Avoid puncturing or damaging the battery pack.
- Charge the battery in a well-ventilated area, away from flammable materials.
- If the battery shows signs of damage or overheating, discontinue use immediately and contact support.

2.3 Frame Number

The frame number is the unique identification of your bicycle, similar to a passport. It is crucial for identification in case of theft. It is typically located on the underside of the bicycle frame. Please photograph this number for your records.

3. Product Overview

The Fafrees F26 Lasting E-Bike combines robust construction with advanced electric components for a smooth and powerful ride.

3.1 Key Components

- **250W Brushless Motor:** Provides strong power and quick acceleration, with a maximum speed of 25 km/h.
- **36V 20.3Ah Lithium-ion Battery:** High capacity for extended range, up to 140 km in pedal-assist mode. Removable for convenient charging.
- **2.3-inch LCD Display:** Real-time monitoring of speed, distance, battery life, power level, light status, brake signal, PAS level, walk assist, and cruise control. IPV4 waterproof.
- **Mechanical Disc Brakes:** Efficient braking system with power-off brake levers for enhanced safety and short braking distances.
- **7-Speed Transmission Gear:** Smooth gear changes for various terrains, supporting pedal, pedal-assist, and full electrical modes.
- **Front Suspension:** 40mm travel to absorb shocks and vibrations, ensuring a smoother and more stable ride.
- **Integrated Front and Rear Lights:** Improves visibility and safety during low-light conditions.
- **Adjustable Stem:** Ergonomically designed for comfort and easy handling, with adjustable height for different rider preferences.
- **Front Rack:** Enhances flexibility for carrying items, suitable for shopping or commuting.
- **Chain Cover:** Protects the chain from dirt and minimizes clothing entanglement, improving safety and reducing maintenance.

3.2 Visual Guide to Components



Figure 3.1: Fafrees F26 Lasting E-Bike (Grey)

This image shows the complete Fafrees F26 Lasting E-Bike in grey, featuring its step-through frame, front basket, rear rack, and included air pump.



Figure 3.2: 250W Brushless Motor

A detailed view of the 250W brushless motor, highlighting its peak output, max torque, max speed, and climbing slope capability.



Figure 3.3: 20.3AH Lithium-ion Battery

This image illustrates the removable 36V 20.3Ah (730.8Wh) lithium-ion battery, showing its capacity, removability, pedal-assist range, and charging time.



Figure 3.4: LCD Display

A close-up of the 2.3-inch LCD display on the handlebars, showing various indicators such as power level, light status, speed, brake signal, PAS level, walk assist, cruise control, and IPV4 waterproof rating.



Figure 3.5: Mechanical Brakes and 7-Speed Gear

This image details the mechanical disc brakes with power-off levers and the 7-speed transmission gear system, highlighting their efficiency and safety features.



Figure 3.6: Comfort, Efficiency, and Safety Features

An illustration of key design elements contributing to comfort and safety, including the front rack, chain cover, and arched design handlebar.



Figure 3.7: Enhanced Visibility Features

This image highlights the integrated front light, rear brake light, front reflector, pedal reflector, and wheel reflectors for improved visibility and safety.

4. Setup and Assembly

Your Fafrees F26 Lasting E-Bike comes partially assembled. Follow these steps to complete the assembly and prepare for your first ride.

4.1 Unboxing and Initial Inspection

- Carefully remove all components from the packaging.
- Check the included components against the packing list: FAFREES Ebike, Battery Charger, Tool Kit, Gift Box (including 1*tube, 2*valve caps, 2*wheel reflectors, 2*brake pads, 1*keychain), User Manual.
- Inspect the bike for any visible damage during shipping.

4.2 Assembly Steps

1. **Handlebar Installation:** Attach the handlebar to the stem, ensuring it is centered and tightened securely. Adjust the stem

height for comfortable riding posture.

2. **Front Wheel Installation:** Install the front wheel, ensuring the quick-release skewer or axle nuts are properly secured.
3. **Pedal Installation:** Identify the left (L) and right (R) pedals. Thread them into the crank arms carefully (left pedal is reverse-threaded) and tighten with a wrench.
4. **Saddle and Seatpost Adjustment:** Insert the seatpost into the frame. Adjust the saddle height to ensure your leg has a slight bend at the knee when the pedal is at its lowest point. Ensure the seatpost is inserted beyond the minimum insertion line and tightened securely. *Do not exceed the safety line on the seatpost.*
5. **Battery Installation:** Insert the battery into its compartment on the frame. Ensure it clicks securely into place.
6. **Initial Battery Charge:** Before your first ride, fully charge the battery using the provided charger. Connect the charger to the battery and then to a power outlet. The charging indicator will show the status.

4.3 Pre-Ride Checklist

- **Brakes:** Check that both front and rear brakes engage smoothly and effectively.
- **Tires:** Ensure tires are inflated to the recommended pressure (check sidewall for PSI/Bar).
- **Quick Releases/Axles:** Verify all quick releases and axle nuts are securely tightened.
- **Handlebar & Seatpost:** Confirm they are tight and do not rotate or slip.
- **Battery:** Ensure the battery is fully charged and securely locked in place.
- **Lights & Reflectors:** Check that all lights are functional and reflectors are clean and visible.

5. Operating Instructions

Understanding how to operate your Fafrees F26 Lasting E-Bike will enhance your riding experience.

5.1 Powering On/Off and Display Functions

- **Power On:** Press and hold the power button on the LCD display.
- **Power Off:** Press and hold the power button again.
- **Display Information:** The 2.3-inch LCD display shows:
    - Current Speed
    - Distance Traveled (Odometer/Trip)
    - Battery Level Indicator
    - Pedal Assist System (PAS) Level (0-5)
    - Motor Power Output
    - Light ON/OFF status
    - Brake Signal
    - Walk Assist Mode (6km/h)
    - Cruise Control
- **Adjusting PAS Level:** Use the '+' and '-' buttons on the display control panel to increase or decrease the level of pedal assistance. Level 0 means no electric assist.
- **Lights:** Press the light button on the display to turn the front and rear lights on or off.
- **Walk Assist:** Press and hold the '-' button to activate walk assist mode, which provides a low-speed assist (6 km/h) for pushing the bike.

5.2 Riding Modes

- **Pedal Mode:** Ride the bike like a traditional bicycle, using only your leg power.
- **Pedal-Assist Mode (PAS):** The motor provides assistance as you pedal. The level of assistance can be adjusted via the display. This mode offers a range of 100-200km depending on terrain, rider weight, and assist level.

- **Full Electrical Mode:** Use the throttle (if equipped and legal in your region) to propel the bike without pedaling.

5.3 Gear Shifting

The 7-speed Shimano gear system allows you to adapt to different riding conditions. Shift to a lower gear for climbing hills and a higher gear for flat terrain or downhill riding. Shift gears smoothly while pedaling to avoid strain on the drivetrain.

5.4 Braking

The Fafrees F26 Lasting is equipped with mechanical disc brakes. Apply both front and rear brakes simultaneously for effective and controlled stopping. Avoid sudden, hard braking, especially with the front brake, to prevent skidding.

6. Maintenance

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

6.1 Cleaning

- Clean the bike regularly with a damp cloth and mild soap. Avoid high-pressure washers, especially near electrical components.
- Keep the chain and gears clean and lubricated.

6.2 Battery Care

- Charge the battery after each ride, or at least once a month if not in use, to maintain battery health.
- Store the battery in a cool, dry place, ideally between 10°C and 20°C (50°F and 68°F).
- Do not fully discharge the battery before recharging.

6.3 Tire Care

- Check tire pressure before each ride. Proper inflation improves efficiency and reduces the risk of punctures.
- Inspect tires for wear, cuts, or embedded objects.

6.4 Brake Maintenance

- Regularly check brake pads for wear. Replace them when they are thin. (Gift box includes 2*brake pads).
- Ensure brake levers are responsive and cables are not frayed.

6.5 General Checks

- Periodically check all bolts and nuts for tightness.
- Ensure the chain is clean and lubricated to prevent wear and improve shifting.
- Inspect the suspension fork for proper function and cleanliness.

7. Troubleshooting

This section addresses common issues you might encounter with your Fafrees F26 Lasting E-Bike.

Problem	Possible Cause	Solution
E-bike does not power on.	Battery not charged, battery not properly seated, power cable loose, display issue.	Ensure battery is fully charged. Check if battery is securely installed. Verify all electrical connections. Contact support if issue persists.

Problem	Possible Cause	Solution
Motor not assisting.	PAS level set to 0, brake lever engaged, motor connection loose, sensor issue.	Increase PAS level on display. Ensure brake levers are fully released. Check motor cable connections.
Short battery range.	Low tire pressure, high PAS level usage, frequent stops/starts, riding uphill, cold weather.	Maintain proper tire pressure. Use lower PAS levels when possible. Ride smoothly. Charge battery fully before each ride.
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.
Gears are not shifting smoothly.	Dirty chain, misaligned derailleur, stretched cable.	Clean and lubricate the chain. Check derailleur alignment. If issues persist, professional adjustment may be needed.

For more complex issues or if troubleshooting steps do not resolve the problem, please contact Fafrees customer support.

8. Specifications

Feature	Detail
Model	F26 Lasting (F20 Light)
Brand	Fafrees
Motor	250W Brushless Motor
Battery	36V 20.3Ah (730.8Wh) Lithium-ion, Removable
Max Speed	25 km/h
Range (Pedal Assist)	100-200 km
Display	2.3-inch LCD Display, IPV4 Waterproof
Brakes	Mechanical Disc Brakes
Gears	7-Speed Shimano Gear System
Suspension	Front Fork Suspension (40mm travel)
Wheel Size	26 Inch
Frame Material	Aluminum
Recommended Rider Height	158-198 cm
Max Load Capacity	120 kg
Product Dimensions	177 x 104 x 63 cm
Product Weight	31 Kilograms
Included Components	E-bike, Battery Charger, Tool Kit, Gift Box (tube, valve caps, wheel reflectors, brake pads, keychain), User Manual (English, German, French, Spanish, Italian)

9. Warranty and Support

Fafrees is committed to providing high-quality products and customer satisfaction.

9.1 Warranty Information

Please refer to the official Fafrees website or the warranty card included in your packaging for detailed warranty terms and conditions. Typically, the warranty covers manufacturing defects in materials and workmanship for a specified period from the date of purchase.

9.2 Customer Support

If you encounter any issues or have questions regarding your Fafrees F26 Lasting E-Bike, please contact Fafrees customer service. Provide a detailed description of your problem, and if possible, include photos or videos to help our engineers provide an effective solution within two business days.
You can visit the official Fafrees store for more information and support: Fafrees Official Store

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