

Fafrees F20 Mate

Fafrees F20 Mate E-Bike Tricycle User Manual

Model: F20 Mate | Brand: Fafrees

1. INTRODUCTION

The Fafrees F20 Mate E-Bike Tricycle is a versatile and robust electric tricycle designed for adults, offering enhanced stability and cargo capacity. Featuring a powerful 48V 21Ah battery, 20*3.0 inch fat tires, and a triple hydraulic braking system, it provides a comfortable and secure riding experience for various terrains and purposes, including commuting and carrying groceries. This manual provides essential information for the safe assembly, operation, and maintenance of your F20 Mate tricycle.



Image: The Fafrees F20 Mate E-Bike Tricycle, showcasing its robust design, front and rear baskets, and included accessories like a helmet and phone holder.

2. SAFETY INFORMATION

Your safety is paramount. Please read and understand all safety instructions before operating the Fafrees F20 Mate E-Bike Tricycle. Failure to follow these instructions may result in serious injury or damage to the product.

- Always wear a helmet and appropriate safety gear when riding.
- Ensure all components are securely fastened and in good working order before each ride.
- Familiarize yourself with local traffic laws and regulations regarding electric tricycles.
- The tricycle is equipped with an EU-E-Mark certification, ensuring compliance with European safety standards.
- **Important Note on Speed Adjustment:** To comply with EU certification requirements, the speed adjustment system has been modified. When you wish to adjust the speed, you must first apply the brakes and then accelerate or decelerate.
- Do not exceed the maximum load capacity of 180 kg (including rider and cargo).

- Avoid riding in adverse weather conditions or on slippery surfaces.

Umfassende Sicherheitsausstattung Tag & Nacht



Image: Overview of the Fafrees F20 Mate's comprehensive safety features, including front and rear turn signals, hazard lights, rearview mirrors, electric horn, front headlight, and reflectors.

3. COMPONENTS OVERVIEW

The Fafrees F20 Mate E-Bike Tricycle consists of several key components designed for performance and convenience:

- **Frame:** Foldable aluminum alloy frame for easy transport and storage.
- **Wheels:** 20*3.0 inch fat tires for enhanced grip and stability on various terrains.
- **Braking System:** Triple hydraulic disc brakes (front and rear) for precise and responsive stopping power.
- **Suspension:** Shock-absorbing fork (35mm travel) and suspension seatpost (15mm travel) for a comfortable ride.
- **Motor:** Rear-drive motor with 65 Nm maximum torque.

- **Battery:** Removable 48V 21Ah Lithium-Ion battery.
- **Display:** LCD color display showing speed, battery level, PAS level, and more.
- **Baskets:** Front basket and small rear basket included for cargo. Larger rear basket available separately.
- **Lighting:** Headlight, taillight, front and rear turn signals, and hazard lights.
- **Differential:** High-quality aluminum differential for balanced power distribution to the rear wheels.



Image: Close-up view of the Fafrees F20 Mate's sturdy rear basket, designed for convenient cargo transport.

4. SETUP

The Fafrees F20 Mate E-Bike Tricycle arrives 80% pre-assembled. Follow these steps for final assembly:

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Handlebar Installation:** Securely attach and adjust the handlebar to your preferred height (109–116 cm).
3. **Seatpost Adjustment:** Adjust the seat height (82–106 cm) for comfortable pedaling.
4. **Basket Attachment:** Attach the front and rear baskets using the provided hardware. Ensure they are firmly secured.
5. **Tire Inflation:** Inflate tires to the recommended pressure (refer to tire sidewall for details).
6. **Brake Check:** Verify that the hydraulic brakes are functioning correctly.
7. **Battery Installation:** Insert the fully charged battery into its compartment.

For a visual guide on basket installation, please refer to the product video below:

Your browser does not support the video tag.

Video: This short video demonstrates the assembly of the rear basket on the Fafrees F20 Mate E-Bike Tricycle, showing the simple screw-in process and how to load items.

5. OPERATING

Operating your Fafrees F20 Mate is intuitive. Here's how to get started and utilize its features:

5.1. Power On/Off and Display

Press and hold the power button on the LCD display to turn the tricycle on or off. The high-resolution LCD display provides real-time information:

- Current Speed (km/h)
- Battery Level Indicator
- PAS (Pedal Assist System) Level (0-5)
- Odometer and Trip Distance
- Cruise Control activation

LCD-Farbdisplay

Das hochauflösende LCD-Display bietet eine Vielzahl von Funktionen bei einfacher Steuerung.



Image: The Fafrees F20 Mate's LCD color display, showing speed, battery, and pedal assist levels, along with controls for various functions.

5.2. Riding Modes

The F20 Mate offers multiple riding modes:

- **Pedal Assist Mode (PAS):** Provides electric assistance as you pedal. Adjust the assist level (0-5) via the display.
- **Full Electric Mode:** Use the throttle for propulsion without pedaling.
- **Manual Mode:** Ride like a traditional bicycle without electric assistance.

5.3. Braking System

The tricycle is equipped with a triple hydraulic disc braking system for superior stopping power and safety. This system ensures a 30% shorter braking distance compared to double brakes. A parking brake lever is also integrated for secure standing on inclines.

Dreifach-Bremssystem

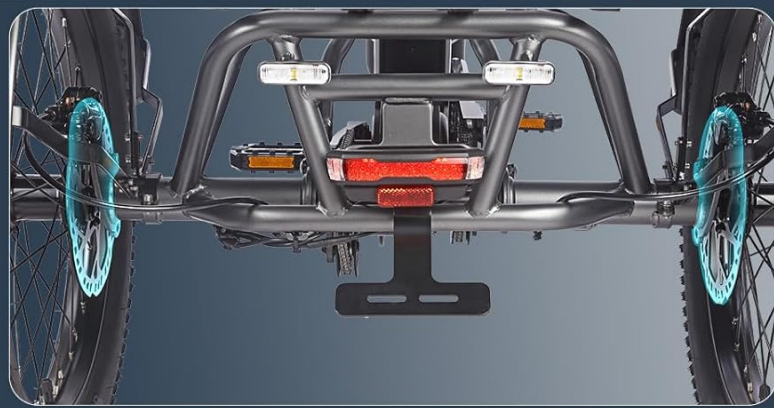
Unvergleichliche Bremskraft



Feststellbremshebel

Sicherer Stand auf jedem Hang, kein Wegrollen mehr

Hydraulische Scheibenbremsen
30% kürzerer Bremsweg



180mm/2,3T
Bremsscheiben

Image: Detailed view of the Fafrees F20 Mate's triple hydraulic braking system, highlighting the front disc brake and the parking brake lever for secure stopping.

5.4. Suspension System

Experience a smooth ride thanks to the triple suspension system, which includes a lockable suspension fork and a comfortable suspension seatpost. This system effectively absorbs shocks and vibrations from uneven surfaces.

Dreifaches Federungssystem

Mehr Komfort, weniger Erschütterung



Image: Illustration of the Fafrees F20 Mate's triple suspension system, featuring a lockable suspension fork, a wide leather saddle, and a suspended seatpost for enhanced comfort.

5.5. Fat Tires

The 20*3.0 inch fat tires provide excellent traction and stability, adapting to various terrains such as grassy ground, sandy beaches, gravel roads, snowy paths, and city streets.

20*3.0 Fettreifen

Dicke Reifen passen sich der Geländekurve an und bieten eine hervorragende Traktion auf unebenen und unregelmäßigen Oberflächen, während sie gleichzeitig eine höhere Tragfähigkeit aufweisen.



*Image: Visual representation of the Fafrees F20 Mate's 20*3.0 inch fat tires, highlighting their adaptability and superior grip on diverse surfaces like grass, sand, gravel, snow, and city roads.*

For a comprehensive overview of the Fafrees F20 Mate's features and operation, please watch the video below:

Your browser does not support the video tag.

Video: This video provides a detailed look at the Fafrees F20 Mate E-Bike Tricycle in action, showcasing its features, stability, and ease of use in various environments.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Fafrees F20 Mate E-Bike Tricycle:

- **Battery Care:** Charge the battery regularly, even when not in use, to prolong its lifespan. Store in a cool, dry place.
- **Tire Pressure:** Check tire pressure before each ride and inflate to the recommended PSI.

- **Brake Inspection:** Periodically inspect brake pads and discs for wear. Adjust or replace as needed.
- **Cleaning:** Clean the tricycle with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Lubrication:** Lubricate the chain and other moving parts regularly to ensure smooth operation.
- **Fastener Check:** Routinely check all bolts and fasteners for tightness.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Fafrees F20 Mate E-Bike Tricycle. For more detailed troubleshooting, please refer to the full user manual included with your product.

Problem	Possible Cause	Solution
Tricycle does not power on	Low battery, loose battery connection, power button issue	Charge battery, ensure battery is properly seated, contact support if issue persists.
Motor not assisting	PAS level too low, brake lever engaged, motor connection issue	Increase PAS level, ensure brake levers are fully released, check motor cable connections.
Brakes feel weak	Worn brake pads, air in hydraulic line, misaligned calipers	Inspect and replace brake pads, bleed hydraulic lines (professional recommended), adjust calipers.
Unusual noises during ride	Loose components, dry chain, tire rubbing	Check all fasteners, lubricate chain, inspect tire clearance.

Remember the specific speed adjustment requirement: if you want to adjust the speed, you must first apply the brakes and then accelerate or decelerate.

8. SPECIFICATIONS

Detailed technical specifications for the Fafrees F20 Mate E-Bike Tricycle:

Category	Specification
Model	F20 Mate
Type	Electric Cargo Tricycle
Unfolded Size	174 x 74 x 116 cm
Folded Size	100 x 74 x 82 cm
Adjustable Handlebar Height	109–116 cm
Adjustable Seat Height	82–106 cm
Tire Size	20*3.0 Inch Fat Tires
Net Weight	43 kg

Category	Specification
Load Capacity	180 kg (Max Rider Weight 150 kg, Max Front Basket 20 kg, Max Rear Basket 45 kg)
Frame Material	Aluminum Alloy
Max Range	65–115 km
Max Climbing Angle	15°
Battery Type	18650 Lithium-Ion Battery
Battery Voltage	48V
Battery Capacity	21Ah
Motor Location	Rear Drive
Max Motor Torque	65 Nm
Charger Input Voltage	180–240 V
Charger Output Voltage	54.6 V
Charging Time	7-8 Hours
Fork Travel	35 mm
Rear Shock Absorber Travel	15 mm
Display Type	LCD Display
PAS Levels	0-5
Waterproof Rating	IPX5

48V 21Ah Li-Ionen-Akku

Mehr Kilometer, weniger Laden



Rein elektr. Reichweite 65–85KM



Tretunterstützte Reichweite 90–115KM

F20 Mate Akku

Reichweite: 65–85KM



Andere Akkus

Reichweite: 40–50KM

Batteriereichweite



**7-8H
Schnellladung**



IPX5

Image: Graphic illustrating the Fafrees F20 Mate's 48V 21Ah Li-ion battery, highlighting its extended range (65-115KM) compared to other batteries, fast charging capability, and IPX5 waterproof rating.











9. WARRANTY AND SUPPORT

Your Fafrees F20 Mate E-Bike Tricycle comes with a manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, spare parts, or any inquiries, please contact Fafrees customer service through the official brand store or your point of purchase.

Package Contents:

- 1 x FAFREES Electric Tricycle
- 1 x Charger
- 1 x Tool Kit
- 1 x User Manual (this document)

Related Documents - F20 Mate

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User Manual

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