

## Fafrees F20 Mate

# Fafrees F20 Mate E-Bike Tricycle User Manual

Model: F20 Mate | Brand: Fafrees

## INTRODUCTION

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Thank you for choosing the Fafrees F20 Mate E-Bike Tricycle. This manual provides essential information for the safe assembly, operation, and maintenance of your new electric tricycle. Please read this manual thoroughly before your first ride to ensure optimal performance and safety.



Image: The Fafrees F20 Mate E-Bike Tricycle, showcasing its robust design with a rear cargo basket and front suspension.

## SAFETY INFORMATION

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Always prioritize safety when operating your electric tricycle. Adhere to local traffic laws and wear appropriate safety gear, including a helmet. Regularly inspect your tricycle for any signs of wear or damage before each ride.

- Ensure all bolts and quick releases are securely tightened.
- Check tire pressure before each ride.
- Test brakes for proper function.
- Familiarize yourself with the electric assist levels and controls.
- Do not exceed the maximum load capacity: Rider 150 kg, Front Basket 20 kg (if installed), Rear Basket 45 kg.
- Avoid riding in adverse weather conditions if possible.

## SETUP AND ASSEMBLY

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Your Fafrees F20 Mate tricycle arrives 90% pre-assembled. The remaining assembly typically involves attaching the handlebars, pedals, and potentially the front wheel and cargo basket. Detailed instructions are provided in the included user manual and can be found on the product page.

## What's in the Box:

- 1 x Fafrees F20 Mate Electric Tricycle
- 1 x Charger
- 1 x User Manual
- 1 x Gift Box (packaging)

For assembly, ensure you have adequate space and the necessary tools. Follow the step-by-step guide carefully to ensure all components are correctly and securely installed.

## OPERATING INSTRUCTIONS

### Battery and Charging

The F20 Mate is equipped with a 48V, 18.2Ah detachable battery. This allows for convenient charging either on or off the tricycle. A full charge takes approximately 6-7 hours and provides a range of 60-110 kilometers depending on riding conditions and assist level.



Image: Close-up of the 48V 18.2Ah lithium battery, highlighting its quick charge time and removable design.

- Connect the charger to the battery charging port, then plug into a power outlet.

- The charger indicator light will show charging status (typically red for charging, green for full).
- Do not overcharge the battery.
- Store the battery in a cool, dry place when not in use.

## Color LCD Display

The high-definition color LCD display provides essential riding information and allows for easy control of various functions.



Image: The color LCD display showing speed, battery level, and other metrics, with icons for 5 speed levels, automatic speed regulation, and walking assist.

- **5 Speed Levels:** Adjust the pedal assist level to control motor output.
- **Automatic Speed Regulation:** The system can adapt power output based on riding conditions.
- **Walking Assist:** Provides low-speed assistance for pushing the tricycle.
- The display shows current speed, battery charge, odometer, and trip distance.

## Braking System

The F20 Mate features front and rear hydraulic disc brakes with 180mm, 2.3mm thick brake pads for precise and responsive stopping power. It also includes a parking brake for added safety when stationary.



# Sistema di freno di stazionamento



Disco rotore durevole da 180 mm

Freno a disco idraulico

## Leva del freno di stazionamento

(Premere per bloccare i freni ed evitare lo slittamento delle ruote)

Image: Close-up of the hydraulic disc brake system, showing the 180mm rotor and the parking brake lever.

- Engage both brake levers simultaneously for effective stopping.
- To activate the parking brake, press the small button on the brake lever after engaging the brake. This locks the brakes to prevent rolling.
- Release the parking brake by squeezing the lever again.

## Fat Tires and Suspension

Equipped with 20\*3.0 inch fat tires, the F20 Mate offers superior traction and adaptability across various terrains, including loose gravel, mud, snow, sand, and city roads. Dual suspension (front suspension and rear shock absorber tubes) effectively dampens shocks and vibrations for a comfortable ride.

# Pneumatici grassi 20 \* 3.0

Gli pneumatici grassi si adattano alle curve del terreno e offrono una trazione superiore su superfici irregolari e irregolari, pur avendo una maggiore capacità di carico.



Terreno erboso



spiagge sabbiose



Strade sterrate



Sentieri innevati



Strade cittadine

Image: The 20\*3.0 inch fat tire, illustrating its capability on various surfaces like grassy terrain, sandy beaches, dirt roads, snowy paths, and city streets.

## Folding Mechanism

The F20 Mate features a foldable frame and handlebars for easy transport and storage. The low step-through frame design (40 cm support height) makes mounting and dismounting effortless.



# Telaio pieghevole passo-passo



Manubrio pieghevole



Telaio pieghevole

Image: A person demonstrating the low step-through height, with separate images showing the foldable handlebar and the fully folded tricycle.

- Locate the folding latches on the frame and handlebar stem.
- Follow the specific folding sequence outlined in the detailed manual to ensure proper and safe folding.
- Ensure all folding mechanisms are securely locked before riding.

## Safety Lights

Integrated front and rear lights, including brake lights, enhance visibility and safety during night riding. Reflectors are also added to both rear fenders for increased safety.

# Luci di sicurezza

Le luci dei freni anteriori e posteriori integrate migliorano la visibilità notturna e aumentano la sicurezza. Entrambi i parafanghi posteriori hanno catarifrangenti incorporati per una maggiore sicurezza.



Image: Close-up of the front headlight and rear brake light, demonstrating their illumination in low-light conditions.

- Turn on lights before riding in low-light conditions or at night.
- Ensure brake lights are functioning correctly.

## MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your Fafrees F20 Mate tricycle.

- **Tires:** Check tire pressure regularly (refer to tire sidewall for recommended PSI). Inspect for wear and punctures.
- **Brakes:** Periodically check brake pads for wear and replace as needed. Ensure brake levers are responsive and cables (if applicable) are not frayed.
- **Battery:** Keep the battery charged, especially during long periods of storage. Avoid fully discharging the battery.
- **Cleaning:** Clean the tricycle with a damp cloth. Avoid high-pressure washing directly on electrical components.
- **Lubrication:** Lubricate the chain and other moving parts as necessary.
- **Fasteners:** Regularly check and tighten all bolts, nuts, and quick releases.



## TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, please contact customer support.

Problem	Possible Cause	Solution
Motor not assisting	Battery low/dead, power not on, loose connection, assist level too low.	Charge battery, turn on power, check connections, increase assist level on display.
Brakes feel spongy or weak	Air in hydraulic line, worn brake pads, misaligned calipers.	Bleed brakes (professional service recommended), replace pads, adjust calipers.
Tire loses air quickly	Puncture, loose valve stem, faulty tube.	Inspect tire for foreign objects, tighten valve stem, repair or replace inner tube.
Display not turning on	Battery not connected, battery dead, loose display cable.	Ensure battery is seated, charge battery, check display cable connection.

## SPECIFICATIONS

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



Image: Technical drawing showing the dimensions of the tricycle (174 cm length, 74 cm width, 98-116 cm height) and folded dimensions, along with rider height, maximum load, and bike weight.

Feature	Detail
Product Dimensions	174 x 74 x 116 cm
Item Weight	40 kg
Model Number	F20 Mate
Recommended Age	Adults
Bicycle Type	Electric Bike
Brake Type	Hydraulic Disc Brakes
Color	Grey
Style	Urban



Feature	Detail
Frame Material	Aluminum Alloy
Frame Size	18 Inches
Number of Speeds	1 (single speed drivetrain, multiple assist levels)
Power Source	Electric Battery
Special Features	Digital Display, Foldable
Suspension Type	Front Suspension
Wheel Size	20 Inches
Battery	48V 18.2Ah
Max Rider Weight	150 kg
Max Front Basket Load	20 kg
Max Rear Basket Load	45 kg
Range (PAS Mode)	60-110 km
Charging Time	6-7 hours

## WARRANTY AND SUPPORT

Fafrees products typically come with a manufacturer's warranty covering defects in materials and workmanship. Please refer to the warranty card included with your purchase or visit the official Fafrees website for specific warranty terms and conditions.

For technical assistance, spare parts, or any questions regarding your Fafrees F20 Mate E-Bike Tricycle, please contact Fafrees customer support. Contact information can usually be found on the brand's official website or through your point of purchase.

You can also visit the [Fafrees Store on Amazon](#) for more information and product details.

### Related Documents - F20 Mate





