

FAFREES

User Manual

F20 Mate Electric Tricycle



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IMPORTANT!

Please find the frame number of your ebike, and write it down in the space below. In case of future need, this number is the unique identification code of your ebike.

WICHTIG!

Bitte finden Sie die Rahmennummer Ihres E-Bikes und tragen Sie diese in das Feld unten ein. Im Falle eines zukünftigen Bedarfs ist diese Nummer der eindeutige Identifikationscode Ihres E-Bikes.

IMPORTANT!

Veuillez trouver le numéro de cadre de votre vélo électrique et notez-le dans l'espace ci-dessous. En cas de besoin futur, ce numéro est le code d'identification unique de votre ebike.

IMPORTANTE!

Cerca il numero di telaio della tua ebike e scrivilo nello spazio sottostante. In caso di necessità future, questo numero è il codice identificativo univoco della tua ebike.

¡IMPORTANTE!

Busque el número de cuadro de su bicicleta eléctrica y escríbalo en el espacio a continuación. En caso de necesidad futura, este número es el código de identificación único de su bicicleta eléctrica.



Thank you for purchasing the Fafrees F20 Mate Ebike.

We take pride in bringing you a quality product that will offer years of enjoyment. Please read and understand this manual fully before assembling and riding your bike. If you have questions after reading this manual, please refer to Fafrees support or contact us by email or give us a call.

USING THIS MANUAL

This manual contains details of the product, its equipment, and information on operation, maintenance, and other helpful tips for owners. Read it carefully and familiarize yourself with the ebike before using it to ensure safe use and prevent accidents. This manual contains many warnings and cautions concerning the safe operation and consequences if proper setup, operation, and maintenance are not performed. All information in this manual should be carefully reviewed and if you have any questions you should contact us immediately.

The notes, warnings, and cautions contained within the manual and paragraphs are marked by the triangular Caution Symbol at the left side should be given special care. Users should also pay special attention to information marked in this manual beginning with NOTICE.

Keep this manual, along with any other documents that were included with your bike, for future reference, however all content in this manual is subject to change or withdrawal without notice.

Visit <https://www.fafreesbike.com/pages/user-manual> to view and download the latest version. Fafrees makes every effort to ensure the accuracy of its documentation and assumes no responsibility or liability if any errors or inaccuracies appear within.

Because it is impossible to anticipate every situation or condition that will occur while riding, this manual makes no representations about the safe use of bikes under all conditions. There are risks associated with the use of any bike that cannot be predicted or avoided and are the sole responsibility of the rider.

GENERAL SAFETY

WARNING! When using this product, basic precautions should always be followed, including the following:

- a) Read all the instructions before using the product.
- b) To reduce the risk of injury, close supervision is necessary when the product is used near children.
- c) Do not put fingers or hands into the product.
- d) Do not use this product if the flexible power cord or output cable is frayed, has broken insulation, or any other signs of damage.
- e) This equipment is not intended to be used at ambient temperatures less than -4° F (-20° C) or above ambient temperatures of 113° F (45° C).
- f) The battery is intended to be charged when the ambient temperature is between 32° F (0° C) and 104° F (40° C). Never charge the battery when ambient temperatures are outside this range.

WARNING! It is your responsibility to comply with all traffic related laws and to use proper equipment. This includes appropriate cycling attire and bike maintenance.

Observe all local bicycle traffic laws and regulations.

Observe regulations about bicycle lighting, licensing riding on pavements/sidewalks, bike path and trail use, helmet laws, child laws relating to cycling, and special bicycle traffic laws, it is your responsibility to know and obey your local laws.

- When riding a bike, always wear a properly fitted helmet that covers the forehead. Many locations require specific safety devices. It is your responsibility to familiarize yourself with the local laws, rules, and regulations where you ride and to comply with all applicable laws, including equipping yourself and your bike as the law requires.
- Unless otherwise stated, a rider's weight and luggage should not exceed 400lbs/180kg.
- Before you ride your bike, always check to make sure everything is working properly and correctly aligned.
- Be familiar with the controls of your bicycle, such as brakes, pedals and shifting etc..
- Keep all body parts or any obtrusive objects away from the sharp chainrings when pedaling. Failure to wear proper attire could lead to injuries.
- While riding, remember you are sharing the road or path with others. i.e. motorists, pedestrians and other cyclists.
- Always be a defensive rider. Always assume that others do not see you and expect the unexpected
- Always be aware of your surrounds. Be alert and responsive to:
 - 1) Motor vehicles of all types and in all directions.
 - 2) Unexpected movement of obstacles.
 - 3) Nearby pedestrians.
 - 4) Children or animals in the area.
 - 5) Imperfections of bike paths or paved roads including potholes, uneven surfaces, loose gravel construction and debris.
 - 6) Warning, hazard and yield signs.
- Ride in designated bike lanes when available and always ride in the direction of traffic.
- Acknowledge and stop at ALL stop signs and traffic lights.
- When coming to a complete stop, look both ways at street intersections before continuing onward.
- Use official hand signals for turning and stopping.
- Do not ride with headphones.
- Never hold onto another vehicle.
- Do not weave through traffic or make unexpected moves or turns.
- Rules that govern the right-of-way for motorists apply to cyclists. A bicyclist should always be prepared to yield.
- Do not ride while under the influence of alcohol or drugs.
- Avoid riding in bad weather when visibility is obscured, for examples dawn, dusk, or in the dark. Such conditions increase the risk of accident.

Wet Weather

It is recommended to not ride in wet weather if avoidable. Ride in wet weather only if necessary.

Electric bike is not meant for use in heavy rain, or streams. Never immerse or submerge this product in water or liquid as the electrical system may be damaged.

- You should exercise additional caution when riding this bike in damp conditions.
- Reduce your speed when riding in slick weather to assist you keep control of the bike.
- Because it will take longer to slow down and stop than while driving in dry circumstances, apply the brakes earlier.
- Be careful to increase your visibility to other drivers. Use reputable safety lights and wear luminous apparel.
- Wet conditions make it more difficult to identify road hazards. Be careful as you go.

Night riding

Cyclists should ride at night with extreme caution. In many circumstances, night riding can be more risky than day riding since it is exceedingly challenging for drivers and pedestrians to spot bicyclists in the dark.

Individuals of an appropriate age who are aware of the increased risks should take extra care when riding at dawn, dusk or at night. Please note that it is important to choose suitable apparel and specialized equipment when riding in unfavourable conditions to reduce the risk of injury.

Warning! Reflectors should not be worn as a substitute for required lighting. Cyclists are near to invisible for other cyclists and motorists if the necessary lights and reflective gear are not used. Take all necessary efforts to make yourself visible if you are riding at night by using lights and reflectors. Inadequate lighting precautions could cause fatalities or significant injuries. Reflectors are intended to reflect the light from passing cars and street lights, making you more noticeable and recognisable as a cyclist in motion.

Caution! Reflectors and their mounting brackets should be checked regularly to ensure they are clean, straight and securely mounted. Check to be sure you comply with all local laws about night riding. The followings are recommended:

- It is important you take steps to enhance your visibility by wearing light-colored, reflective clothing and accessories. There are plenty of proper reflective gear options that can be worn: Vests, armbands, leg bands, stripes on your helmet, and blinker attached to your body and or bicycle.
- Make sure your clothing or miscellaneous items do not obstruct the visibility of your reflectors and lights.
- Make sure that your bicycle is equipped with reflectors for riding at dawn, dusk or at night.
- Always ride slowly when riding at night.

Assembly and Fit

Correct assembly and fit are essential elements to ensure your bicycling safety, performance, and comfort. Even if you have the experience, skill, and tools to complete these essential steps before your first ride, we still recommend having a certified, reputable bike mechanic to check your work.

NOTICE: If you do not have the experience, skill, and tools to complete assembly and fit, we highly recommend having a certified, reputable bike mechanic complete these procedures as well as any future adjustments or tuning.

NOTICE: A critical aspect of assembling your bike is securing the front wheel and checking the tightness of the rear wheel axle nuts. These mounting mechanisms may become loose or unsecured during shipment or over time. The torque and security of all wheel mounting hardware should be inspected upon arrival and on a regular basis. Both wheels need to be properly secured before operating your bike.

Mandatory Equipment and Use Locations

Before riding, ensure you have all required and recommended safety equipment and are following all laws pertaining to use an electric bike in your region. For example, these laws may specify the need for mandatory equipment, use of hand signals, and where you can ride.

Changing Components or Attaching Accessories

The use of non-original components or spare parts can jeopardize the safety of your ebike, void your warranty and, in some cases, cause your ebike to not conform with laws pertaining to your bike.



The replacement of original components or installation of third-party accessories or accessories not from Fafrees explicitly recommended for your bike model is at your own risk. Using aftermarket accessories or components that have not been tested by Fafrees for safety and compatibility may void your warranty, create an unsafe riding condition, damage property or your bike, or result in serious injury or death.

Safety Check Before Each Ride

Always check the condition of your bike before you ride in addition to having regular maintenance performed. If you are unsure of how to conduct a complete check of the condition of your bike before every ride, you should consult a certified, reputable bike mechanic for assistance.

Electrical System

The electric system powers several components on your ebike. It is critical that you familiarize yourself with all aspects of your ebike's electrical system and check to see if it is working correctly before every ride. The front and rear brake levers contain safety power cutoff switches, which disable the hub motor's assistance when applied. Both levers should be checked for correct operation. If the brake lever cutoff switches, pedal assistance, or lighting functions abnormally, intermittently, or not working, please discontinue the use of your ebike immediately and contact the Fafrees Support team for assistance.

Brakes

Ensure that the brakes and their system components are free from damage, properly secured and working correctly. When fully squeezed, both front and rear brake levers should not be touching the handlebar. Take your bike to a certified, reputable bike mechanic to have the brakes repaired if you find a problem.

Tires and Wheels

Your wheels should always spin straight and must be repaired or replaced if they wobble side to side or up and down when spinning. If your wheels become untrue or spokes loosen, which can happen with

normal use, we recommend that a certified, reputable bike mechanic performs all wheel tuning and truing operations on your bike. Do not attempt to true wheels or tighten spokes unless you have adequate knowledge, tools, and experience. Ensure the tires and inner tubes are in good working condition without any visual damage and have the correct amount of air pressure as stated on the tire. Always replace tires and inner tubes with punctures, cuts, or damage before you ride. Tires without the correct amount of air pressure can reduce performance, increase tire and component wear, and make riding your bike unsafe.

Accessories, Straps, and Hardware

Ensure all hardware is secured and all approved accessories are properly attached per the specific component manufacturer's instructions. It is good practice to look over all hardware, straps, and accessories before each ride and if you do discover something wrong or something that you are not sure about, have it checked by a certified, reputable bike mechanic.

Suspension, Handlebar, Grips, and Seat Adjustments

The suspension fork on your ebike will affect the handling of your bike so you must understand how it works before use. The suspension fork should be properly adjusted according to your weight and terrain. Ensure the handlebar and handlebar stem are properly aligned, fitted to the user, and secured to their recommended torque values. Handlebar grips should not move easily on the handlebar end. Loose, worn, or damaged handlebar grips should be replaced before you ride. The seat and seatpost should be properly aligned, fitted to the user, and the seatpost quick release should be properly tightened, fully closed, and secured before riding.

Battery Charged, Secured, and Unplugged

Ensure the battery is adequately charged and operating properly. Ensure the battery charger is unplugged from the outlet, then stored in a safe location before you ride. The battery **MUST** be locked onto the frame battery mount properly before use. Do not operate the electrical system if the battery is removed.

CHARGER SAFETY INFORMATION

- The charger should only be used indoors in a cool, dry, ventilated area, on a flat, stable, hard surface.
- Avoid charger contact with liquids, dirt, debris, or metal objects. **DO NOT** cover the charger while in use.
- Store and use the charger in a safe place away from children.
- Fully charging the battery before each use can help extend the life of the battery and reduces the chance of over-discharging.
- **DO NOT** charge the battery with any chargers other than the one originally supplied by Fafrees or a charger designed for use with your specific bike purchased directly from Fafrees.
- The charger works on 110/240V standard home AC power outlets and automatically detects and accounts for incoming voltage. **DO NOT** open the charger or modify voltage input.
- **DO NOT** yank or pull on the cables of the charger. When unplugging carefully remove both the AC and DC cables by pulling on the plastic plugs directly, and not on the cables.

- The charger is expected to get relatively warmer as it charged. If the charger gets too hot to touch, you notice a strange smell, or any other indicator of overheating, discontinue using the charger and contact Fafrees Support.

General Operating Rules

Notice: Pay special attention to all the general operating rules below before operating your bike from Fafrees.

- When riding, abide by the same traffic laws that apply to all other road vehicles as prescribed by local legislation.
- Ride in a straight line and with the flow of traffic. Never ride against the traffic.
- Use correct hand signals to indicate turning.
- Concentrate on the path ahead. Avoid potholes, wet or oily roads, curbs, train tracks, speed bumps, drain gates, thorns, broken glass, and other obstacles, hazards, and puncture flat risks.
- Be careful at intersections and when preparing to pass other vehicles or cyclists.
- Familiarize yourself with all the features and operations of the bike. Practise and become proficient at shifting gears, applying the brakes, and using the pedal assist system in a controlled setting before riding in riskier conditions.
- Wear adequate riding attire including closed-toe shoes. If you're wearing baggy pants, use leg clips or elastic bands to keep them from getting caught in the chain or gears. Items that may block your hearing should not be used.
- Check your local rules and regulations before carrying cargo.
- When braking, apply the rear brake first, then the front brake.
- Maintain a comfortable stopping distance from all other objects, riders and vehicles. Safe braking distances are based on factors such as road surface and light conditions among other variables.

Safety Notes

The following safety notes provide additional information on the safe operation of your bike and should be closely reviewed. Failure to review these notes can lead to serious injury or death.

- Ensure that you comprehend all instructions and safety notes/warning.
- Ensure the bike fits you properly before your first use. You may lose control or fall if the bike is too big or too small for you.
- Always wear an approved helmet when riding the bike.
- Ensure correct setup, tightening and torquing to recommended values before your first use and every time you use after.
- Ensure the handlebar grip is undamaged and tightened. Loose or damaged grip can cause you to lose control and fall.
- Off-road riding requires close attention, specific skills, and exposes to a variety of environments and risks. Wear appropriate safety gear and do not ride alone in remote areas. Check local rules and regulations about whether off-road riding is allowed. **Do not engage in extreme riding.**

- Failure to perform and confirm proper installation, compatibility, proper operation, or maintenance of any components or accessories can result in serious injury or death.
- Failure to properly charge, store or use your battery will void your warranty and may cause hazardous situation.
- Users must understand the operation of the thumb switch and pedal assist sensor before using the ebike and must take care to travel at speed appropriate for your area, riding conditions and experience. Always use the lowest assist level until you are comfortable with the bike and feel confident in controlling the power.
- Any aftermarket changes to your bike not expressly approved by Fafrees can void the warranty and lead to unsafe riding experience.
- Do not remove any reflectors.

General Warnings

Like any sport, bicycling involves risk of damage, injury, and death. By choosing to ride a bike, you assume the responsibility for that risk, so you need to know, and practice the rules of safe and responsible riding and the proper use and maintenance of this bike. Proper use and maintenance of your bike reduces risk of damage, injury, and death.

Never operate a bike while under the influence of alcohol, drugs, or any substance or condition that could impair motor functions, judgement, or the ability to safely operate a bike or another vehicle.

The ebike is designed for use by persons 18 years old and older. Riders must have the physical condition, reaction time and mental capability to ride safely and manage traffic, road conditions and sudden situations, as well as respect the laws governing electric bike use where they ride, regardless of age. If you have an impairment or disability such as a visual impairment, hearing impairment, physical impairment, cognitive/language impairment, a seizure disorder, or any other physical condition that could impact your ability to safely operate a vehicle, consult your physician before riding any bike.

Caution! Fafrees is not reliable for accidents, injuries or product malfunction that result from any unauthorized changes, modifications or tempering with any part of original specifications.

SAVE THESE INSTRUCTIONS

SPECIFICATIONS

Model Name	F20 Mate
Max. Load Capacity	400lbs. / 180 kg
MAX.Speed	25 KM/H
Motor	48V 500W Brushless Hub
Battery	48V 18.2AH Li-ion
Wheel Size	20 x 3.0" Front / Rear
Tire Pressure	Inflation to 15-35 PSI
Charger	48V 3.0A
Input voltage	180-240V
Charging Time	Approx. 6 Hours
Water Resistance	IPX5
Size	174*74*116 cm
Weight	88 lbs / 40 kg
Light	Front / Rear
Brake	Hydraulic disc brakes
Transmission	N/A

PRODUCT OVERVIEW



- ① Throttle
- ② LCD Display
- ③ Button set
- ④ Break lever
- ⑤ Controller
- ⑥ Pedal
- ⑦ Chain
- ⑧ Motor

- ⑨ Saddle
- ⑩ Rear basket
- ⑪ Battery
- ⑫ Brake caliper
- ⑬ Brake pad
- ⑭ Front fork
- ⑮ Fender
- ⑯ Head light

WHAT'S IN THE BOX

1*F20 Mate ebike
1*Charger
1*Tool kit

1*Owner's manual
1*Left pedal
1*Right pedal

INSTALLATION INSTRUCTION

NOTICE: The following steps are only a general guide to assist in the assembly of your ebike and are not a complete or comprehensive manual of all aspects of assembly, maintenance, and repair. Consult a certified, reputable bike mechanic to assist with assembly, repair, and maintenance of your ebike.

Step 1: Unpack the bike.

Open the bike box. With the help of another person capable of safely lifting a heavy object, remove the ebike from the bike box. Carefully remove the packaging material protecting the bike frame and components. In the small box, there are your charger and accessories. Please recycle packaging materials especially cardboard and foam whenever possible.

Step 2: Handlebar installation.



A.Remove all the protective foams, and then place the bicycle as shown.



B.Lift up the handlebar tube and lock it. Insert the handlebar into the tube. Fix the handlebar at the proper height and lock it.

Step 3: Unfold the ebike frame



Unfold the frame and lock it with the latch.

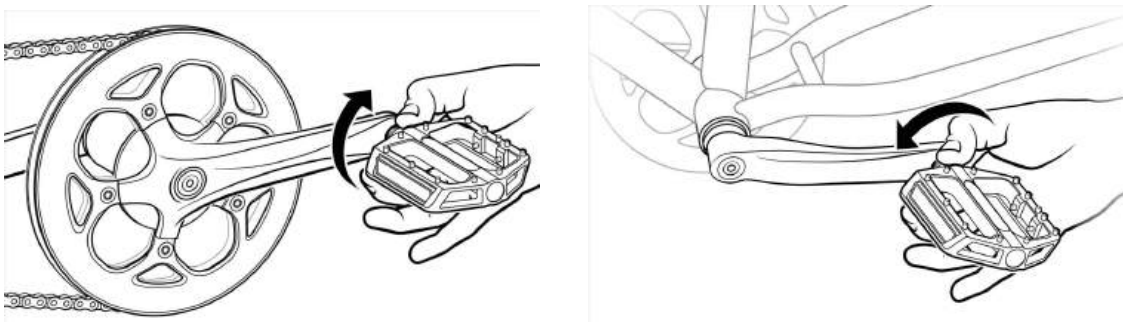
Step 4: Front wheel installation.



Take out the quick release skewer lever, and loosen the screw from the lever. Place the fork on the front wheel. Make sure the brake disc is between the brake pads of the brake caliper.

Insert the quick release skewer lever into the front axle core, tighten the screw, then press the quick release handle to lock the front fork.

Step 5: Pedal installation.



Note the markings on the pedal screws and on the crank arms. Stamp with "L" is the left pedal, stamp with "R" is the right pedal, the right pedal is installed on the side of the sprocket.

NOTE: The right pedal (pedal with "R" sticker label) is threaded so that it is tightened by turning clockwise. The left pedal (pedal with "L" sticker label) is reverse-threaded and tightens counterclockwise.

Step 6: Front fender and front light installation.



Loosen the fixing screw on the front fork, fix the front fender fixing hook and the headlight bracket together with the screw, tighten the screw with a hex key. Then tighten the screws of the fender support.

Step 7: Plug in the display cable to connect power



Before connect the display cable, first turn off the battery power. **Press the battery's power button to the 0 position. Then connect the display cable, making sure to align the marks on both ends of the display cable before inserting in.** If the battery power is on before the communication cable of the display is connected, it is easy to cause damage to some circuits of the controller.

Step 8: Inflate tires.

Check that the tire beads and tires are evenly seated on the rims. Use a pump with a Schrader valve to inflate each tire to the recommended pressure indicated on the tire. Do not overinflated or underinflate tires.

BATTERY CHARGING

Charging procedure

Follow these steps for charging your ebike battery from Fafrees Bikes:



1. Ensure the battery is off.

2. Remove the rubber cover on the charging port.

3. Plug the charger into the battery's charging port, **BEFORE PLUGGING CHARGER INTO POWER OUTLET.**

With the battery on or off the bike, place the charger in a flat, secure place, and connect the DC output plug from the charger to the charging port on the side of the battery.

4. **Plug the charger into a power outlet:** Connect the charger input plug (110/240-volt plug) to the power outlet. Charging should initiate and will be indicated by the LED charge status light on the charger illuminating as red light.

5. Unplug the charger from the outlet, then the charging port: Once fully charged, indicated by the charging indicator light turning green, unplug the charger from the wall outlet first and then remove the charger outlet plug from the battery charging port.

BATTERY CHARGING INFORMATION

Check the charger, charger cables, and battery for damage before beginning each charge.

Be sure to charge in an area where it is clear and safe from any potential damage or tripping situations can occur while it is charging. Always charge your battery in temperature between 0°C - 40°C (32°F - 104°F).

The battery can be charged on or off the bike. To remove the battery, turn the key to the unlocked position, and take the battery out.

The battery should be recharged after each use, so it is ready to go the full range for your next ride. There is no memory effect, so charging the battery after short ride will not cause damage.

The indicator light on the charger will show red light while the battery charges. When charging is complete, the indicator light will turn green. Ensure the light faces upward when charging.

Remove the charger from the battery within one hour of the green light indicating a complete charge. The charger is designed to automatically stop charging when the battery is full, but unnecessary wear of

the charging components could occur if the charger is left attached to the battery and a power source for longer than 12 hours.

DO NOT leave a charging battery unattended.



Failure to follow Battery Charging Information could result in unnecessary wear to the charging components, battery, and or charger, and could lead to an under-performing or non-functional battery and replacement will not be covered under warranty.

REMOVING THE BATTERY



To remove the battery from the bike, insert the key and turn to the unlocked position. When the battery is completely locked, you can feel resistant while turning the key.



Use caution to avoid damage to battery connector terminals, which are exposed when the battery is unlocked and removed from the frame of the bike. In the case of damage to the terminals or battery mounts, please discontinue use and contact Fafrees Support immediately.

INSTALLING THE BATTERY

Ensure the battery is turned off.

DO NOT force the battery into the tray; slowly align and gently push the battery down into the tray. Then push the battery in (make sure you push hard enough) and hear the “CLICK” sound. Slightly turn the key to feel if there’s resistance from the key. If you can feel the resistance, then the battery is completely locked.

- Make sure there is no spaced between battery and tray.
- Ensure the battery has been properly secured to the bike before each use by carefully pulling outwards on the battery with both hands once locked.

TIRE INFORMATION

F20 Mate uses 20” x 3.0” rubber tires with inner tubes. The tires are designed for durability and safety for regular cycling activities and to be checked before each use for proper inflation and condition. Proper inflation, care, and timely replacement will help to ensure that your bike’s operational characteristics will be maintained, and unsafe conditions avoided.

Fafrees recommends 15-35 PSI for the stock tires on F20 Mate. Always stay within the manufacturer’s recommended air pressure range as listed on the tire sidewall.



It is critically important that proper air pressure is always maintained in pneumatic tires. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Failure to always maintain the air pressure rating indicated on pneumatic tires may result in tire and/or wheel failure.



Inflate your tires from a regulated air source with an available pressure gauge. Inflating your tires from an unregulated air source could overinflate them, resulting in a burst tire. Even tires equipped with built-in flat-preventative tire liners can and do get flats from

punctures, pinches, impact, and other causes. When tire wear becomes evident or a flat tire is discovered, you must replace the tires and/or tubes before operating the bike or injury to operators and/or damage to your bike could occur.



When changing a tire or tube, ensure that all air pressure has been removed from the inner tube prior to removing the tire from the rim. Failure to remove all air pressure from the inner tube could result in serious injury.

STORAGE INSTRUCTION

If storing your bike for longer than 2 weeks at a time, follow the instructions below to maintain the health and longevity of your battery.

- Charge(or discharge) the battery to approximately 75% charged.
- DO NOT leave the battery attached to the bike frame. Remove it from the bike during long-term storage.
- Store the battery in a dry, climate controlled, indoor location between 0°C – 40°C (32°F – 104°F).
- Check the battery every month to 75% charged.
- If stored for a long time, keep the battery cool and dry, and charge the battery for 2 hours every other 3 months.



Failure to follow proper battery storage procedures can result in a non-functional battery. Replacement will not be covered under warranty.



DO NOT cover up the charger while it is charging. The charger air cools and needs to be on a hard, flat surface in an open space. Use the charger with the indicator lights facing upward.



DO NOT open the battery housing, which will void the warranty and can result in damage to the battery, property or cause serious injury and/or death.

QUICK START GUIDE






GETTING STARTED



Figure 1 YL81F display



Figure 2 Control button

Button definitions: The YL81F display is equipped with five buttons on the corresponding operating unit: power button , plus button , minus button , light button  and toggle button  (the following is represented by the “i button”).

Press the power button on the display control pad to turn on the bike. To turn off, press and hold the power button for 3 seconds. The display will automatically shut off if it is not used for more than 10 minutes.

HOME PAGE



DISPLAY CONTROL PAD

1. **Display interface switching:** When the display is powered on, it will show the Current Speed (km/h) and Trip Odometer (km) by default. Short press i button to switch between Trip Odometer(km), Odometer (km), Maximum Speed (km/h), and Average Speed (km/h).
2. **Assist level:** Use plus/minus button to switch the assist level. Power assist is triggered when you pedal forward, and stops when you stop pedaling, sometime with a delay.
3. **Walk Assist Mode:** Long press the minus button, the electric bicycle will enter the walk assist mode. The electrical bike runs at a constant speed of 6 km/h. Release the minus button, the electric bicycle will immediately stop power output and return to the state before push.
4. **Turn on the light:** By pressing the light button, the controller will turn on/off the headlight.

ELECTRIC MODE

You do not need to pedal the e-bike if you use the hand throttle. The throttle can be controlled by twisting it from the resting position, and the farther the throttle switch is from resting position, the more power is sent to the motor to accelerate the e-bike. **The hand throttle can be removed if you don't need it or due to local law restriction.**

CRUISE CONTROL

Cruise control will be triggered when you holding throttle and riding at the same speed for 8 seconds, and it will be released by braking/pedaling or throttling.

ERROR CODE

If there is a fault occurs in the electronic system of the electric bicycle, the display will automatically show an error code, see below for a detailed definition of the error code.

Error code	Definition	Error code	Definition
E05	Brake failure	E09	Controller failure
E06	Battery undervoltage	E10	Communication reception failure
E07	Motor failure	E11	Communication sending failure
E08	Throttle failure		



Users must follow the instructions and warnings contained in this manual for safety. DO NOT attempt to operate your bike until you have adequate knowledge of its control and operation. Damage caused by failing to follow instructions is not covered under warranty and could result in serious injury or death. Contact Fafrees support if you have any questions about assembly or operation.

Parking, Storage, and Transport

Please follow these basic parking, storage, and transport tips to ensure your bike is well cared for on and off the road.

- When pushing or carrying the bike manually, turn off the power to avoid accidental acceleration of the motor.

- Turn off the power to conserve power.
- Ensure the battery is locked to the frame or use the key to remove the battery and bring it with you for security or storing in a temperature-controlled location.
- Park indoors when possible. If you must park outdoors in rain or wet condition, leave your ebike outside for only a few hours and then park it in a dry location as soon as possible to allow all of the systems to dry out. As with a regular bike, an ebike used in wet conditions needs more frequent maintenance to prevent rust, corrosion, etc. and to ensure all systems are working safely.
- Locking up your bike is recommended to ensure your bike is secure. Fafrees Bikes makes no claims or recommendations on the proper lock hardware or procedures to secure your bike, but we do recommend you take appropriate precautions to keep your bike safe from theft.
- Do not park, store or transport your bike on a vehicle rack not designed for the bike's size and weight.
- When carrying your bike on a vehicle rack, remove the battery. This will reduce the weight of the bike, make lifting and loading easier, and allow you to protect the battery by transporting it in the cab of a vehicle.

USER MAINTENANCE INSTRUCTIONS



If you do not have the experience, skill, and tools to complete maintenance and adjustment of your bike, we strongly recommend having a certified, reputable bike mechanic to maintain, tune, and ensure the bike is safe to ride.

Safety Checklist

Before every ride, and after every 25-45 miles (40-72 km), we advise following the safety checklist.

Safety Check	Basic Steps
Brakes	Ensure front and rear brakes work properly. Check brake pads for wear and ensure they are not worn. Check that the brake pads are properly positioned in respect to the rims. Check that the brake cables are greased, properly adjusted, and show no signs of wear. Check that the brake levers function properly and are securely attached to the handlebar. Check that the brake levers are firm and that the brake, motor cutoff, and brake light functions properly.
Wheels and Tires	Make sure your tires are inflated to the recommended limits listed on the sidewalls and that they are holding air. Check that the tires have good tread, no bulges or excessive wear, and are free of additional damage. Check that the rims are true and free of visible wobbles, dents, or kinks. Check that all of the wheel spokes are snug and not broken. Check the axle nuts and the front wheel quick release for tightness. Check that the locking lever on the quick release skewer is properly tensioned, closed, and secured.
Steering	Make that the steering is functional and that the handlebar and stem are properly fastened and adjusted. To check the security of the stem clamp bolt, twist the handlebar. Check to see that the handlebar is positioned properly with respect to the fork and the direction of travel.
Chain	Ensure the chain is clean, oiled, and runs smoothly. Extra care is required in wet, salty/otherwise corrosive, or dusty conditions.
Bearings	Ensure all bearings are lubricated, run freely, and show no excess movement, grinding, or rattling. Check headset, wheel bearings, pedal bearings, and bottom bracket bearings.
Cranks and Pedals	Ensure pedals are securely tightened to the cranks. Ensure the cranks are securely tightened and are not bent.
Derailleur and Mechanical Cables	Check that the derailleur is adjusted and functioning properly. Ensure shifter and brake levers are attached to the handlebar securely. Ensure all shifter and brake cables are properly lubricated.
Frame, Fork, and Seat	Check that the frame and fork are not bent or broken. If either frame or fork are bent or broken, they should be replaced. Check that the seat is adjusted properly, and seatpost quick release lever is securely tightened.
Motor Drive	Ensure hub motor is spinning smoothly and motor bearings are in good working order.

Assembly and Throttle	<p>Ensure all power cables running to hub motor are secured and undamaged.</p> <p>Make sure the hub motor axle bolts are secured and the torque arm, torque arm bolt, and torque washers are in place.</p>
Battery	<p>Ensure battery is charged before use.</p> <p>Ensure there is no damage to battery.</p> <p>Lock battery to frame and ensure that it is secured.</p> <p>Charge and store bike and battery in a dry location, between 0°C - 40°C (32°F - 104°F).</p>
Electrical Cables	<p>Examine connectors to ensure that they are completely seated and dry of any debris or moisture.</p> <p>Inspect the cables and cable housing.</p> <p>Make sure the brake, tail, and headlights are all adjusted correctly, working, and not blocked.</p>
Accessories	<p>Make sure that every reflector is fitted correctly and isn't covered up.</p> <p>Make sure that the bike's other components are securely fastened and working as intended.</p> <p>Check the safety equipment, including the helmet.</p> <p>Make sure the mounting gear is securely fastened if the vehicle has a front rack, rear rack, basket, etc.</p> <p>Make sure the taillight and the power cable are securely fastened if the vehicle has a rear rack.</p> <p>Make sure the fender mounting hardware is securely fastened if the vehicle has fenders.</p> <p>Make sure that the fenders are free of cracks and holes.</p>

TROUBLE SHOOTING

Symptoms	Possible Causes	Most Common Solutions
The bike can't be powered on	<ol style="list-style-type: none"> 1. Insufficient battery power 2. Faulty connections 3. Battery not fully seated in tray 4. Improper turn on sequence 5. Brakes are applied 	<ol style="list-style-type: none"> 1. Charge the battery 2. Clean and repair connectors 3. Install battery correctly 4. Turn on bike with proper sequence 5. Disengage brakes
Irregular acceleration and/or reduced top speed	<ol style="list-style-type: none"> 1. Insufficient battery power 2. Loose or damaged throttle 3. Misaligned or damaged magnet ring 	<ol style="list-style-type: none"> 1. Charge or replace battery 2. Replace throttle 3. Align or replace magnet ring
The motor does not respond when the bike is powered on	<ol style="list-style-type: none"> 1. Loose wiring 2. Loose or damaged throttle 3. Loose or damaged motor plug wire 4. Damaged motor 	<ol style="list-style-type: none"> 1. Repair and or reconnect 2. Tighten or replace 3. Secure or replace 4. Repair or replace
Reduced range	<ol style="list-style-type: none"> 1. Low tire pressure 2. Low or faulty battery 3. Driving with too many hills, headwind, braking, and/or excessive load 4. Battery discharged for long period of time without regular charges, aged, damaged. 5. Brakes rubbing 	<ol style="list-style-type: none"> 1. Adjust tire pressure 2. Check connections or charge battery 3. Assist with pedals or adjust route 4. Contact Product Support if range decline persists. 5. Adjust the brakes
The battery will not charge	<ol style="list-style-type: none"> 1. Charger not well connected 2. Charger damaged 3. Battery damaged 4. Wiring damaged 	<ol style="list-style-type: none"> 1. Adjust the connections 2. Replace 3. Replace 4. Repair or replace
Wheel or motor makes strange noises	<ol style="list-style-type: none"> 1. Loose or damaged wheel spokes or rim 2. Loose or damaged motor wiring 	<ol style="list-style-type: none"> 1. Tighten, repair, or replace 2. Reconnect or replace motor.

LIMITED WARRANTY

Your bike's warranty and other binding legal terms (e.g., terms of purchase, etc.) are subject to change at any time. To view your terms of purchase and know current warranty, please go to <https://www.fafreesbike.com/pages/warranty>

Warranty Info

Only the original owner of an ebike purchased from Fafrees online or Fafrees distributors is covered by this Limited Warranty. The Warranty Period begins upon your receipt of the ebike and shall end immediately upon the end of the Warranty Period.

The Limited Warranty is expressly limited to the replacement of a defective lithium ion battery (the "battery"), frame, forks, stem, handlebar, headset, seat post, saddle, brakes, lights, bottom bracket,

crank set, pedals, rims, wheel hub, freewheel, cassette, derailleur, shifter, motor, throttle, controller, wiring harness, LCD display, kickstand, reflectors and hardware (each a “covered component”).

The Covered Components are warranted to be free of defects in materials and/or workmanship during the Warranty Period.

Damage to a covered components during shipping is not covered by this Limited Warranty, but Fafrees will replace such damaged covered components if you notify Fafrees within 3 days after receipt with a dated picture of the damaged cover component. Shipping damage claims are very time sensitive and it is your responsibility to immediately inspect the ebike for damage upon receipt.

This Limited Warranty Does Not Cover:

Normal wear and tear of covered component.

Consumables or normal wear and tear parts (including tires, tubes, brake pads, cables and housing, grips, chain and spokes.

Any damage or defects resulting from failure to follow instructions in this manual, acts of God, accident, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, installation of parts or accessories not originally intended or compatible with the ebike as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance.

For the avoidance of doubt, Fafrees will not be liable and/or responsible for any damage, failure or loss caused by any unauthorized service or use of unauthorized parts.

The battery is not warranted from damage resulting from power surges, use of an improper charger, improper maintenance or other such misuse, normal wear or water damage.

Claims Process:

Fafrees will not replace any covered components under this limited warranty without first seeing photos or video of the damaged covered components.

In order to exercise your right to receive a replacement for a Covered Component under this Limited Warranty, you need to:

- Contact the Fafrees Product Support team by visiting <https://www.fafreesebike.com/pages/contact-us>. The Product Support team will initially work with you on the problem with your ebike to identify potential simple fixes.
- If the product support team determines that a covered component must be replaced, they will provide you with a set of instructions on how to replace or install the new Covered Component into your ebike.
- Covered Components under this Limited Warranty shall only be shipped to the address of the original purchaser.

Fafrees's liability shall under no circumstances exceed the actual amount paid by you for the ebike, nor shall fafrees under any circumstances be liable for any consequential, incidental, special or punitive damages or losses, whether direct or indirect.

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Visit www.fafreesebike.com or contact support@fafreesebike.com
for more information and after-sale service.



FAFREES

EN

MANUFACTURER INFORMATION

Manufacturer: Guangzhou Gedesheng Electric Bike Co., Ltd.
Address: No.105, East Commercial Street, Guangtang Village, Xinya Street, Huadu District, Guangzhou city, Guangdong Province, China

DE

HERSTELLER INFORMATIONEN

Hersteller: Guangzhou Gedesheng Electric Bike Co., Ltd.
Adresse: Nr. 105, East Commercial Street, Guangtang Village, Xinya Street, Bezirk Huadu, Stadt Guangzhou, Provinz Guangdong, China

FR

INFORMATIONS DE FABRICATION

Fabricant : Guangzhou Gedesheng Electric Bike Co., Ltd.
Adresse: n° 105, rue commerciale Est, village de Guangtang, rue Xinya, district de Huadu, ville de Guangzhou, province du Guangdong, Chine

IT

INFORMAZIONI SUL PRODUTTORE

Produttore: Guangzhou Gedesheng Electric Bike Co., Ltd.
Indirizzo: No.105, East Commercial Street, Guangtang Village, Xinya Street, distretto di Huadu, città di Guangzhou, provincia del Guangdong, Cina

ES

INFORMACION DE FABRICACION

Fabricante: Bicicleta eléctrica Co., Ltd. de Guangzhou Gedesheng
Dirección: No.105, East Commercial Street, Guangtang Village, Xinya Street, distrito de Huadu, ciudad de Guangzhou, provincia de Guangdong, China



RoHS

