MOKWHEEL

E-BIKE USER MANUAL

www.mokwheel.com

FLINT PRO

MOKWHEEL


MOKWHEEL

CONTENTS

Attention

This manual contains detailed information about the product, operation and maintenance guidelines, safety precautions, and other helpful tips for users. All users must read and familiarize themselves with the following information to ensure safe use and prevent tragic incidents. Failure to review this information may result in injury or death.

Before use, be sure to read this manual and all provided component manuals. Keep this manual and other accompanying documents with the bike for future reference.

Since it is impossible to predict all situations or conditions that may arise during riding, this manual makes no representations regarding the safe use of the electric bike under all conditions. Therefore, any unforeseen risks associated with the use of the electric bike are the sole responsibility of the rider.

All contents of this manual are subject to change or withdrawal at any time without prior notice. Please visit www.mokwheel.com to download the latest version. Mokwheel makes every effort to ensure the accuracy of its documentation. However, Mokwheel assumes no responsibility or liability for any errors or inaccuracies that may occur.

Notice

The initial assembly and adjustment of Mokwheel bikes may be challenging and should be performed by two people. Pay special attention to areas marked with this warning symbol and all information starting with “NOTICE” in this manual.

As a parent or guardian, it is your responsibility to ensure the safety and supervision of your child’ s activities. Mokwheel bikes are not designed for children.

Safety Precautions

1. Failure to ensure the proper installation, operation, or maintenance of any component or accessory may result in serious injury or death.
2. Before riding, make sure the bike fits you properly. Riding a bike that is too large or too small may result in loss of control or a fall.
3. Ensure that all bolts are tightened and that the E-bike is properly set up before riding. Conduct regular inspections.
4. Always wear a helmet. Helmets significantly reduce the risk of head injuries. Follow local safety regulations when riding your Mokwheel bike. Riding without a helmet may result in serious injury or death.
5. Wear reflective clothing to make yourself more visible. Keep reflective materials clean and properly aligned. Use headlights and taillights when visibility is low.
6. Wear sturdy shoes and protective eyewear. Check your state' s laws for other potential protective gear requirements.
7. E-bikes are heavier and faster than conventional bikes—exercise extra caution while riding.
8. Ride slowly until you become familiar with the riding conditions. Never ride at excessive speeds or beyond your ability.
9. Alcohol, drugs, fatigue, and distractions greatly impair your judgment and ability to ride safely.
10. Keep your bike in a safe condition by regularly inspecting and maintaining it to ensure a longer product life for your Mokwheel E-bike. Refer to the safety checklist on page 43 of this manual.

11. Ensure that the handlebar grips are not damaged and are properly installed. Loose or damaged grips may result in loss of control and a fall.

12. Check the brake sensor functionality before each ride. The braking system is equipped with sensors that cut off motor power when the brakes are engaged. Make sure the brakes function properly before every ride.

13. Improper charging, storage, or use of the battery will void the warranty and may result in hazardous situations. Refer to the Battery and Charger section for details.

14. Exercise extra caution when riding in wet conditions. Wet environments may cause feet or hands to slip, leading to falls, serious injury, or death.

15. After any accident, do not ride your bike until it has been thoroughly inspected by a certified e-bike mechanic.

16. E-bikes and their components have limitations on strength and integrity. Avoid extreme riding, as it may cause component failure or result in serious injury or death.

17. Do not ride the bike for any unintended purposes, as this may result in severe injury or death.

18. Off-road riding requires close attention and specific skills. Be mindful of various conditions and hazards.

19. Wear appropriate protective gear and avoid riding alone in remote areas. If off-road riding is permitted, check local rules and regulations.

20. Do not use this product with standard bike trailers, stands, or racks. Contact Mokwheel to verify whether your equipment is compatible with this bike.

21. It is your responsibility to be familiar with the laws and requirements related to product operation in your riding area.

22. Ensure you understand all instructions and safety notices/warnings.

Product Description

MAXIMUM PAYLOAD: 350lbs
Including the weight of the rider as well as clothing, riding gear, cargo, etc.

1. Display
2. Bell
3. Brake Lever
4. Grip

5. Saddle
6. Seat Post
7. Rear Rack
8. Tailight
9. Rear Fender
10. Motor
11. Drive Belt
12. Crankset
13. Pedal
14. Tire
15. Rim
16.Brake
17. Front Fender
18. Headlight
19. Display
20. Battery
21. Frame

Assembly Instructions

Step 1: Remove Packaging

Prepare the necessary tools.
Unpack the MOKWHEEL electric bicycle and accessories.

* Make sure all the following parts are included.

1. Frame
2. Rear Wheel
3. Tool Kit
4. Gift: Keychain
5. Cable cover
6. Extra Screws
7. Battery Charger
8. Left Pedal
9. Bike Pump
10. Card
11. Front Fender
12. Charger Connector
13. Phillips Screwdriver
14. Right Pedal

Notice

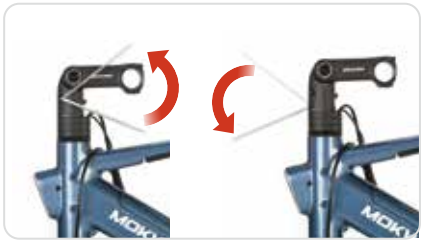
The following assembly steps are general guidelines to assist you in assembling your Mokwheel electric bicycle and are not a comprehensive manual for all aspects of assembly, maintenance, and repair.

We recommend consulting a certified electric bicycle technician for repairs and maintenance.

For detailed instructions, please visit the Mokwheel electric bicycle assembly video at:
https://www.mokwheel.com/pages/electric-bike-guide

Scan the QR code on the right to watch the assembly tutorial.

Step 2: Handlebar Assembly

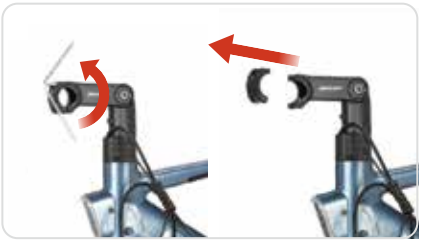


1. Loosen the screws above to turn the bike stem.

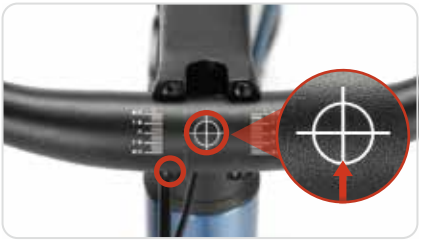
2.Use the tool to loosen the screw in the center of the stand.

3. Twist the handlebar stem 180 degrees.

4. When rotating the stem, please ensure to turn the handlebars and cables together to avoid damaging the wires.



5.Remove the stem cover by unscrewing the bolts in the front to install the handle-bars.



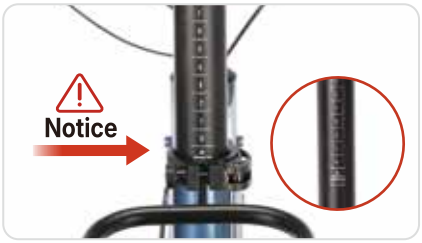
6. Attach the handlebar to the stem bar,insert two screws diagonally first to make sure each screw is tighten,and than adjust the handlebar head so that the vertical line of the aiming point is aligned with the frame bar.

7. Tighten all the bolts securely.

Step 3: Seat Installation

1. Adjust the tightness of the seat post clamp.

2. Adjust the saddle to a comfortable position based on your height.

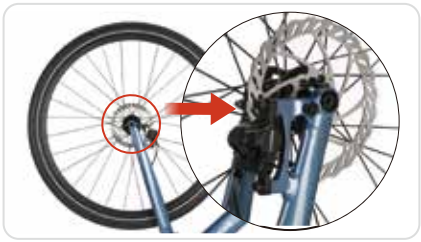


3. Please note that the adjustment must be made within the position indicated by the arrow, otherwise, the e-bike seat may be damaged.

Step4:Install the Front Wheel

1. Flip the bike frame upside down. Remove the Front Wheel Thru Axle(Set it aside for later use when installing the front wheel.)

2. Remove the brake rotor protection cover.



3. Install the front wheel onto the fork. Make sure the brake rotor aligns properly with the brake caliper before fully securing the wheel.

4. Insert the thru axle through the front fork and front wheel, then tighten it.

Step 5: Tire Alignment and Adjustment

1. Spin the front wheel and check for any excessive wobbling or misalignment.

2. Due to shipping, the tire may become off-center. To fix this, deflate the tire until the outer tire is loose enough to move. Adjust the tire by pulling it into position so that the white reflective line is evenly spaced around the rim. Once properly aligned, inflate the tire to lock it in place and ensure it doesn't shift.

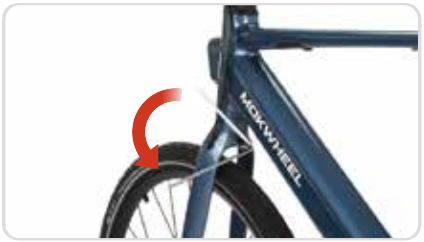
3. Check if the tire pressure is adequate. Use the included pump to inflate the tire as needed.

Step 6: Kickstand Adjustment

1. Loosen the hex screw located inside the kickstand.

2. Adjust the kickstand to the desired length.

Step 7: Front Fender Installation



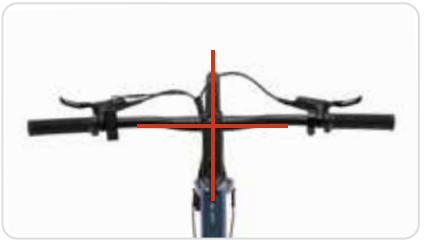
1. First, remove the screw from the top of the front fork.

2. Prepare the front fender. Insert it through the fork as shown, and position it correctly.

3. Attach the fender stays to both sides of the fork using the screws and tighten securely.

4. Use screws to fix the fender hanger at the center of the front fork steerer tube, and tighten firmly.

Step 8: Stem Adjustment



1. Make sure the handlebar, front wheel, and bike frame are aligned vertically.

2. As shown, tighten the center bolt on the stem.

3. Tighten the bolt on the side of the side

4. As shown, loosen the nuts on the stem to adjust the stem angle.

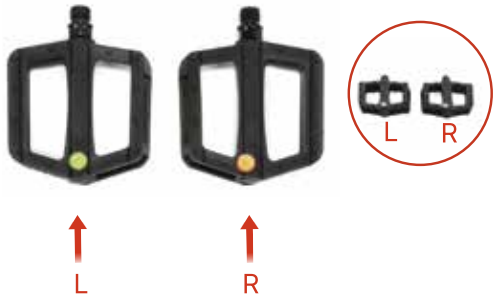
5. Adjust the angle of the stem to a comfortable position.

6. Then securely tighten all bolts.

7. Place the stem faceplate back and align it with the bolt holes.

8. Tighten the bolts evenly to ensure the handlebar is securely fixed and does not loosen.

Step 9: Pedal Installation



1. Identify the left and right pedals. “Left"and “Right" refers to the perspective of the riding position.
2. “L"means Left and is to be installed on the left. “R"means the right and is to be installed on the right.
3. Thread the pedals in with fingers first to ensure alignment before tightening with a wrench.

“R" pedal is fixed clockwise on the crank.

“L" pedal is fixed counterclockwise on the crank.

Step 10: Battery Installation and Removal

1. Insert the key into the battery lock and turn it clockwise.

2. After unlocking, lift the battery upward to remove it.

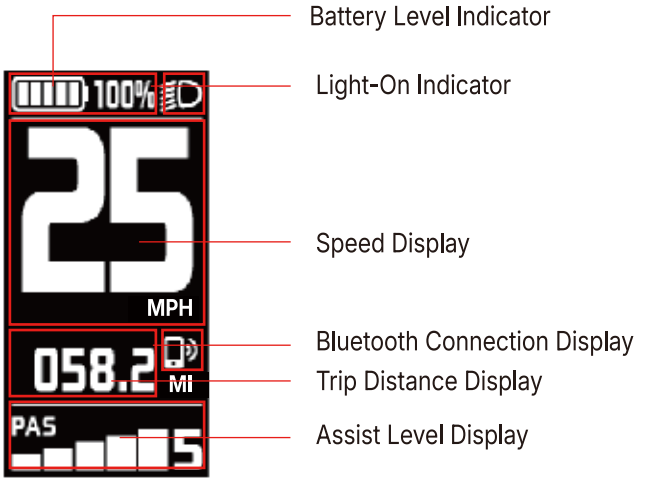
3. Note: Use both hands when lifting to avoid dropping. To install, reverse the steps.

Display & Instructions

Basic Buttons and Display Interface

Startup Interface

Startup Logo Interface



Basic Function Interface

Function Interface

Push Assist Display Interface

Long press the ⌄ button to enter Push Assist Mode. The display interface will show the following:

Fault Code Display Interface

When the display receives fault information returned by the controller, it will show the fault code interface to alert the user about relevant electrical system issues. The fault code will be displayed numerically in the speed value area.

(Page 33 of this manual provides the fault code descrip tions and troubleshooting methods.)

Setting interface

Within 10s after turning on display, long press M button to enter setting interface, short press ⌄ ⌃ to switch between setting interfaces. In any setting interfaces, short press M to enter parameter editing state, which offers two modes, picking and selecting. The picking mode is indicated by triangle cursor on the right, and selecting mode is indicated by parameter shown on white background. Short press to modify the parameters to edit. Long press M button to confirm and exit editing state, and long press M button again to return to previous page. Short press button to enter into each setting item accordingly.

(For more setting operation illustration , please refer to Page 30)

Settings Interface - Level 1 Menu Page

Operation Type	Description
Short press	Press the button and soon released, while the button is released,the function activated accordingly.
Long press	Press the button and hold, when the hold time exceeds the setting time(generally 2 seconds), the function activated accordingly.

Button Definitions and Basic Function Operations

Button Definitions

Power button: Turn on/off the display

Adjust button: Adjust the assisting power level during riding and switch functions

Long press the adjust buttons to perform specific function operation

Mode button: Switch interface functions and enter into parameter setting interface

Basic function operation

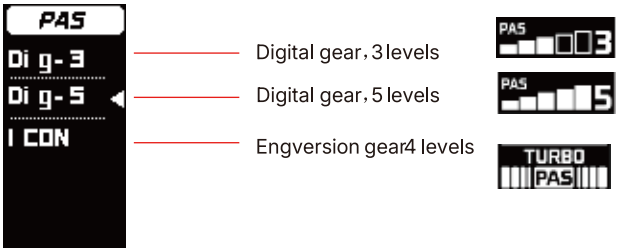
1.To turn on, long press ⏻ button, when the display and controller are well-connected, until boot logo interface appears and shortly enters the basic interface.
2.To turn off, long press ⏻ button, when display is on, until display is turned off.
3.If the rider does not perform any operation on the display within set shutdown time,while speed is 0, and current is less than 1A, then display will be turned off automatically. Set shutdown time is self-defined by user.

Assist level switch

During normal working state, short press buttons to switch assist level, and change assist Mode.

* Power assist display can employ any of the following three modes. Please indicate your choice of mode in the order, or you can modify and choose it through advanced setting and auxiliary tool.

Three types of power assist display modes:



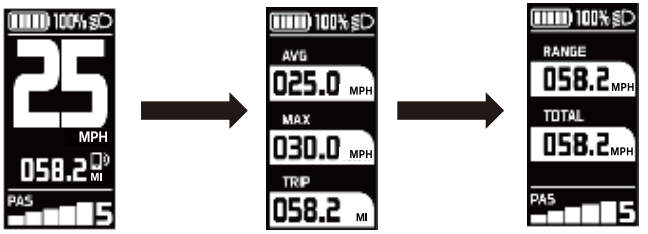
Digital gear levels:

English version gear levels:

Short press ⌄ ⌃ button to switch assist level. Switching level is not cycled, that is, after reaching 5th level , short press button to return to off level. It's the same when adjusting up.

Information switch

1.In a power-on state, short press M button to switch alternately from basic interface, function interface I, and function interface II. In normal riding state, if the bike speed is greater than 0, and display is not in the basic interface, then basic interface will be automatically returned to after 5 s no operation on M button.
2.Function interface I displays the average speed, maximum speed and subtotal TRIP mileage;
3.Function interface II displays the endurance mileage and total mileage.
4.The switching process of each interface, as shown below:



Basic interface Function interfacel Function interfaceII

*If BMS communication is not supported, display cannot obtain accurate RANGE information, and the value of RANGE is displayed as 000.0KM

Speed information switch

In basic function interface, display shows the real-time speed, average speed, and maximum speed. Users can switch info by short press M button.

Walk assist function

1.When speed is 0, long press ⌄ button to enter walk assist mode, motor output according to the setting speed and control the actual walk speed, display shows the walk assist icon and the real-time speed.

2.Release ⌄ button or any other button to exit walk assist mode, the motor is turned off, and the display gets back to the basic interface.

Walk assist interface, shown as below:

Battery power indicator

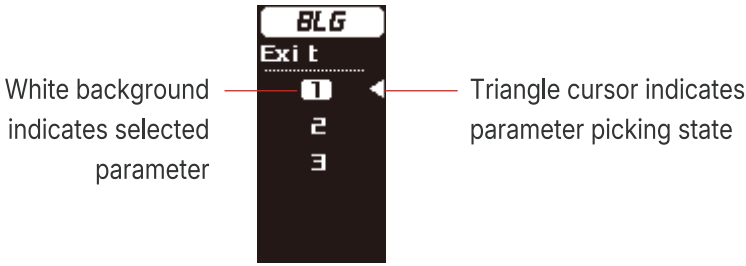
Battery power information is divided into battery bar indication and remaining percentage indication. When battery power is normal, battery capacity is divided into 5 bars.

SOC	SOC	Description Full battery
80%≤SOC		level 5
60%≤SOC<80%		Level 4
40%≤SOC<60%		Level 3
20%≤SOC<40%		Level 2
10%≤SOC<20%		Level 1
5%≤SOC<10%		Level 0
0%≤SOC<5%		Level 0 and icon blink at 1Hz

Setting Function

1.Within 10s after turning on display, long press M button to enter setting interface, short press ^ v button to switch between setting interfaces.

2.In any setting interfaces, short press M button to enter parameter editing state, the triangle cursor on the right side indicates parameter picking state. Except for the first-level, parameter setting mode is indicated by parameters shown on white background, as shown below:



1.Short press ^ v button to edit parameters. Long press M button to confirm parameter selection.

Long press M button again to exit and return to previous page.

2.In any interface of the setting mode, short press M to enter next level, and long press M button to return to the previous menu.

3.Settings Interface.First, enter the system's Level 1 parameter settings interface. The descriptions for each parameter settings interface are as follows:

Setting items	Interface	Description	Setting data	Remark
Unit Setting		UNIT=Unit	Value= KM/H MPH	KM/H Metric MPH Imperial
Backlight level setting		BLG=Backlight	Value=1, Back light level 60% Value=2 Back light level 80% Value=3 Back light level100%	Default Value=5min Step=5 min OFF means no auto shutdown
Auto shutdown time		AutoOFF= Auto sleep	Value=OFF,5-30 min	Default value: OFF
Power-on password setting		Psword= Password	Value=OFF and ON; When 1S ON, user is allowed to set 4-digit password	According to communication protocol
Display info		DSPIFO= display information	Read-only	According to communication protocol
Battery info		BATIFO= battery information	Read-only	According to communication protocol

Controller Info		CTLIFO=c ontroller information	Read-only	According to communication protocol
*Advanced setting options		ADVSET= Advanced setting	Go to advanced setting secondary parameter setting interface	See advanced settings
Reset to factory setting		RESET	Reset	A11 parameters will be restored to factory setting

Data clearance

Data clearance is aimed at the removal of data information such as subtotal mileage TRIP, average speed, and maximum speed. 10s after display is turned on when display is at function interface I, long press M button to show data clearance window, short press ^ v button to select accordingly. To remove the pop-up clearance window, long press M button or remain no operation for 30s.

After clearance, the subtotal mileage TRIP is 0, average speed and max speed is 0. ODO information can't be cleaned manually on the display, professional service tools are required.

Error information

Display can warn bike faults. When faults are detected, error code will be shown on interface and blink at 1Hz. When error code is shown, button functions will not be affected, meaning interfaces can be shown normally by pressing buttons. If no button operation after 5s, the display will returns to the
error code interface.
Error code interface as shown below:

Bafang protocol's error code information table:

Error code	Error description	Suggest operation
"07"shown at speed	Overvoltage protection	Check motor
"08"shown at speed	Failure of motor's hall signal wire	Check motor
"09"shown at speed	Failure of motor's phase wire	Check controller
"11"shown at speed	Failure of the motor's temperature sensor	Check controller
"12"shown at speed	Failure of the current sensor	Check battery
"13"shown at speed	Failure of the temperature of the battery	Check motor
"14"shown at speed	Controller temperature is too highand reaches the protection point	Check the install positionof the speed sensor
"21"shown at speed	Failure of the speed sensor	Change battery
"22"shown at speed	Failure of BMS communication	Check connector to control-ler
"30"shown at speed	Communication failure	Check connector to control-ler

Battery & Charger

or

A. Charge the battery directly on the electric bicycle.

B. Remove the battery from the electric bicycle and charge it sepa rately.

Battery Charging Tips

Always charge the battery after each use. Short rides will not damage the battery even if it is not fully charged.

★ When the power is connected or during charging, do not cover the battery. Ensure it is placed in a well-ventilated, open space. Do not charge the charger upside down, as this can restrict cooling and reduce the battery's lifespan.

★ Before starting each charge, inspect the cables, charger, and bat tery for any signs of damage.

⚠ Notice

Charging Instructions
First, connect the battery, then connect the power supply, and ensure the charger's red indicator light turns on. The red light indicates that the battery is charging, while the green light indicates that the battery is fully charged.

Always charge the battery at temperatures between 0°C and 50°C, and ensure the battery and charger are not damaged before starting the charging process. If you notice any abnormalities during charging, stop im mediately and contact Mokwheel support for assis tance.

When the Battery is Removed

- Do not touch the "+" and "-" terminals at the bottom of the battery.
- Handle with care to avoid dropping or damaging the bat tery pack.

Battery Charging Tips

1. Place the charger in a safe location, away from children.

2. Fully charge the battery before each use. This helps extend the battery's lifespan and reduces the risk of overcharging the battery pack.

3. Do not use chargers other than those purchased directly from MOKWHEEL to charge the battery.

4. Avoid exposing the battery to liquids, dirt/debris, or metal objects.

5. Do not pull on the charger's cables. When unplugging, carefully remove the AC and DC cables by holding the plastic plug.

6. If you notice any unusual odors or overheating from the charger/battery, stop charging immediately and contact MOKWHEEL E-bike customer service.

Notice

Please follow the above procedures and safety information to charge your MOKWHEEL E-bike with extreme care. Failure to adhere to the correct charging procedures may result in damage to your MOKWHEEL electric bicycle, charger, personal property, as well as serious injury or even death.

Do:

- If the battery will not be used for an extended period, fully charge it and recharge it every two months.
- Store it in a cool, dry place.
- Charge the battery after each use.
- Only use the charger specified by Mokwheel to charge the battery.

Do Not:

- Use it to power other electrical devices. Improper use may damage the battery, shorten its lifespan, and potentially cause fire or explosion.
- Disassemble or modify the battery or charger.
- Place the battery near fire or corrosive substances.
- Allow any liquids to come into contact with or inside the battery/charger.
- Expose the battery/charger to extreme weather conditions.
- Continue using a damaged battery/charger.
- Use the battery/charger for any purpose other than its intended use.

Extending Range and Battery Life

⚠ Notice

To ensure the hub motor does not overheat or become damaged due to overload, it is recommended that users pay close attention and adhere to the following guidelines:

* Use pedal assistance when climbing hills or accelerating from a standstill.
* Avoid sudden starts and stops.
* Accelerate gradually.

Brakes

Your electric bicycle is equipped with disc brakes for maximum reliability. Squeezing the brake levers generates friction between the wheel brakes and the brake discs, slowing down the wheels. To stop quickly, apply increased pressure to the brake levers.

It is important to understand how the brake levers control the front and rear brakes. The left brake lever controls the front brake, while the right brake lever controls the rear brake.

When using the front brake, the rear brake should always be engaged. Using only the front brake to slow down or stop at high speeds may cause the rider to be thrown off the saddle and result in injury from a fall. When slowing down or stopping, it is best to apply even pressure to both brake levers.

Electric bicycles with disc brakes may produce a slight scraping sound when the wheels are turning without the brakes applied. This is normal.

Notice

While riding, avoid using only the front brake, as this can cause the front wheel to lock up and lead to loss of control. Always use both the front and rear brakes together for balanced and safe braking.

Ensure that when full hand pressure is applied, the brake levers do not touch the handlebars (Figure 1). If this occurs, the brakes must be adjusted by increasing the cable tension.

Figure 1

A quick adjustment to the brakes can be made by tightening or loosening the threaded adjuster on the brake lever until the brakes reach a safe and fine-tuned state (Figure 2). If the brakes still do not function properly, further adjustments by an experienced bicycle mechanic may be required.

Figure 2

Notice

1. Disc brakes may become hot during use. Avoid touching the disc brakes immediately after use.
2. Slippery weather conditions can lead to skidding and require a longer distance to stop. When riding in wet or slippery conditions, brake earlier and avoid sudden stops.

Electric Bike Care Guide

To ensure safe riding, you must ensure that your electric bicycle is properly maintained. For your safety, please follow the basic guidelines below and have it regularly serviced by a certified electric bicycle technician.

1. Keep the battery fully charged when not in use to maintain it properly.
2. Never submerge the electric bicycle or any of its components in water, as this may damage the electrical system.
3. Regularly inspect the wiring and connectors to ensure there is no damage and that the connections are secure.
4. Clean the frame with a damp cloth soaked in a mild, non-corrosive detergent solution, then wipe it dry with a cloth.
5. When storing the electric bicycle, avoid leaving it in the rain or exposing it to corrosive materials. If the bicycle gets wet, dry it afterward and apply anti-rust treatment to the chain and other unpainted steel surfaces.
6. Riding on beaches or in coastal areas may expose your electric bicycle to corrosive saltwater. Frequently wash your bicycle and wipe or spray all unpainted parts with anti-corrosion treatment.
7. If the hub or bottom bracket bearings are submerged in water, they should be removed and re-greased to prevent damage.
8. If the paint on any metal surface is scratched or chipped, use touch-up paint to prevent rust. Clear nail polish can also be used as a preventive measure.
9. Regularly clean and lubricate all moving parts, tighten components, and make adjustments as needed.
10. Damage caused by corrosion is not covered under warranty. Give your electric bicycle special care to prevent corrosion and extend its product lifespan.

Safety Checklist

NOTICE: it is important to carry out the following checks before riding.

Component or Condition	Check Before Every Ride	Regular Inspection*
Tire pressure	X	
Tire wear/damage	X	
Brake pad adjustment	X	
Wheel quick release adjustment	X	
Head and tail lights	X	
Controls and displays	X	
Seatpostquickreleaseadjustment	X	
Brake pad wear		X
Brake cable tension/wear		X
Spoke tension		X
Wheel truing		X
Hub bearings		X
Chain lubrication		X
Derailleur adjustment		X
Reflectors		X
Battery and charger		X
Headset adjustment		X
Bottombracketadjustment		X
All bolts,nuts&mounting hardware		X

* Every 5 to 10 rides depending on length and conditions of ride.

NOTICE: it is important to carry out the following checks before riding.

Component or Condition	Clean and/ or Lubricate	Adjust/ Tighten	Repair/Replace if Necessary
Tire pressure		X	
Tire wear/damage		X	
Brake pad adjustment		X	
Wheel quick release adjustment			X
Head and tail lights			X
Controls and displays			
Seatpostquickreleaseadjustment		X	
Brake pad wear			X
Brake cable tension/wear		X	X
Spoke tension		X	
Wheel truing		X	
Hub bearings	X	X	
Chain lubrication	X		
Derailleur adjustment	X	X	X
Reflectors			X
Battery and charger			
Headset adjustment	X	X	
Bottombracketadjustment	X	X	
All bolts,nuts&mounting hardware		X	X

* Every 5 to 10 rides depending on length and conditions of ride.

Disclaimer

At MOKWHEEL, we take customer safety very seriously and always recommend that you carefully comply with local, state, and federal laws before purchasing our products.

- MOKWHEEL is highly capable and can reach higher levels as the rider's skills improve. We require all MOKWHEEL users to always exercise caution and take responsibility for their own safety and the safety of others.
- Some counties, states, and towns have different laws/regulations. Please check with local authorities and adhere to local speed/power limit regulations when commuting on roads or in specific areas, such as parks, tracks, trails, or private residential areas.
- Children under 16 should always be supervised by an adult. MOKWHEEL should not be operated by anyone below the recommended age limit.
- Always wear a helmet, elbow pads, and knee pads. We recommend avoiding sandals or riding barefoot; please wear athletic shoes when riding MOKWHEEL.
- Before every ride, inspect and secure all fasteners and wheels to prevent wear. Replace any worn or damaged parts immediately.
- Please use sound judgment and carefully consider all aspects to avoid causing harm, damage, or loss. We recommend purchasing basic insurance for riders and communicating with local authorities before riding.
- MOKWHEEL is not responsible for the actions of others after your electric bicycle is discarded. The consequences of your actions depend entirely on the purchaser and how you fulfill your responsibilities. If you need further information, we are happy to provide advice based on our knowledge.

Notice

When the service life of any component is exceeded, it may result in unexpected loss of functionality. This could lead to serious injury or even death. Therefore, pay attention to signs of wear, such as cracks, scratches, or changes in the color or operation of components, as these may indicate that the service life has been exceeded. Replace any worn parts immediately.


MOKWHEEL