EMMO VFO PRO

OWNER'S MANUAL

EMMO

GREEN YOUR LIFE

Preface

An Important Message From EMMO

Thank you for choosing EMMO. Congratulations on your purchase of a new VFO PRO.

This document is intended as a short introduction to your new e-bike. It contains essential safety, performance and service information. Please read and understand this manual fully before assembling and riding your bike. Be sure to watch the official Emmo VFO PRO assembly video available at https://emmo.ca/pages/e-bike-assembly-guide.

Additional information about your bike can be found on our website at www.emmo.ca.

Be sure to check all hardware for correct torque during assembly.

Illustrations

Illustrations shown in this document may differ in detail from the exact configuration on your particular e-bike model. The illustrations are a general reference for instruction and description purposes only.

Service & Support

If you have questions after reading this manual and watching the assembly video, please feel free to contact us.

E-mail: service@emmo.ca **Toll Free:** 1-888-217-1217

Find Emmo dealers near you: https://emmo.ca/pages/locations

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About This Manual

This document is intended as a short introduction to your new e-bike. It contains important safety, performance and service information. Read and understand it along with the information provided during the on-delivery instructions before using the product. Pay special attention to the safety messages as shown here, and keep the manual handy for future reference.

WARNING: Warning about a situation that can cause death, serious physical injury and or heavy material damage if one does not obey the safety instructions.

DANGER: Danger statement indicates a hazardous situation that, if not avoided, has a very high risk of death, serious injury, or property damage.

CAUTION: Caution statement indicates a hazardous situation that, if not avoided, could result in minor or moderate injury or property damage.

NOTICE: Notice is important information that can help you avoid bike/property damage or extend the life of parts and the bike.

About EMMO

Emmo is a proud Canadian company based in Toronto, Ontario. As the leading brand of electric bikes, Emmo has provided over 500,000 people with environmentally-friendly transportation throughout North America. We believe that electric mobility for everyone is a big step in moving towards a zero-emission future.

Since 2009, Emmo has offered a large selection of electric mobility options for commuting and recreation. With our diversity of products, we create high-quality options to accommodate everyone's needs with an emphasis on reducing their carbon footprint. The past decade has proven that Emmo e-bikes are not only a sustainable method of transportation, but that they also push the limits of conventional bikes –to take you further, with less effort and more fun.

Driven by our vision of inspiring more people to lead a greener lifestyle, Emmo strives to give our riders' the best experience possible. Our in-house research and development spans two continents. Our e-bikes are designed in North America and undergo rigorous testing at our state-of-the-art facilities. Throughout this process, every facet of this complex supply chain is vigorously scrutinized to ensure the end product arrives in flawless condition at our four distribution centers in North America. We continue to be at the forefront of the e-bike industry. With over 100 retailers, Emmo is never too far away.

For over 13 years, our strong commitment to design and innovation has resulted in every Emmo product encompassing the latest technology. Our e-bikes exclusively use programmable sine-wave BLDC controllers, allowing higher performance, longer range and enhanced reliability in all conditions. Backed by our comprehensive warranty, we ensure riders are confident in the purchase of their Emmo.

Emmo believes that a greener future is not only possible, it's necessary, and we want to do our part to build greener communities by making e-bikes more accessible.

Rules and Regulations

According to **Canada's Motor Vehicle Safety Regulations (MVSR)**. A qualified e-bike (defined as Power Assist Bicycle) must meet the following requirements:

- The e-bike must have operational pedals
- Upper wattage limit for the motor is 500W
- Maximum speed of an e-bike is 32km/h (20mph).

Other requirements include a permanently affixed compliance label from the manufacturer stating that the vehicle is a power-assisted bicycle under statutory requirements in force at the time of manufacture. Currently, there is no license, no insurance, and no vehicle registration required to operate a qualified e-bike according to federal legislation. E-Bike riders share the same rights and responsibilities as other road users.

However, provinces and local municipalities have the power to restrict the use of e-bikes. Most provinces require the rider to wear a helmet. Some provinces have special requirements with regard to the age limit to operate an e-bike, the type of helmet required, even the number of wheels and wheel size. In Ontario, typically, e-bikes are generally treated the same as regular bicycles. According to the Ministry of Transportation of Ontario (MTO), the age limit to operate an e-bike is 16 years old and above; the maximum weight of the bike is 120 kilograms (265 pounds); the bike must have a brake distance of less than 9 meters; Any modifications made to the bike's motor to create speeds greater than 32km/h are prohibited.

The rules and regulations are subject to changes in different provinces and municipalities. Please check your municipal bylaw and see where you stand.

Rules and Regulations

Useful links:

E-Bike Regulations in Ontario:
https://www.ontario.ca/page/riding-e-bike

E-Bike Regulations in British Columbia:
https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/151_2002

E-Bike Regulations in Alberta:
http://www.transportation.alberta.ca/content/doctype45/production/mopedpowerbikes.pdf

E-Bike Regulations in Manitoba:
https://web2.gov.mb.ca/laws/statutes/ccsm/h060e.php

E-Bike Regulations in Saskatchewan:
https://www.sgi.sk.ca/motorcycle/-/knowledge_base/motorcycle-handbook/power-assisted-bicycles1

E-Bike Regulations in Quebec:
https://saaq.gouv.qc.ca/en/road-safety/modes-transportation/electric-bike

E-Bike Regulations in New Brunswick:
https://www2.gnb.ca/content/gnb/en/services/services_renderer.200814.Motor_Vehicle_Registration.html

E-Bike Regulations in Nova Scotia:
https://novascotia.ca/just/regulations/regs/mv18786.htm

E-Bike Regulations in Prince Edward Island:
hhttps://www.princeedwardisland.ca/en/information/transportation-and-infrastructure/power-assisted-bicycles

E-Bike Regulations in Newfoundland and Labrador:
https://www.assembly.nl.ca/legislation/sr/annualstatutes/RSN1990/H03.c90.htm

Know and obey all relevant local laws

It is your responsibility to research and understand relevant laws where you ride your bike. Such laws may cover required helmets and safety gear, required lights and reflectors, required hand signals, where you can legally ride a bike (bikes and ebikes may have different restrictions), how fast you can go, what (if any) cargo or passengers you can carry, rider age, and more. Before using public transportation—buses, trains, etc.—to transport your e-bike, check with the relevant transportation authority for any rules governing weight limits, tire widths, lithium-ion batteries, or any other rules that might pertain to e-bikes. When you ride on the road, assume you must, at minimum, follow all of the rules that cars must follow. For additional information regarding traffic and vehicle laws, contact the road traffic authority in your area.

The net weight of this e-bike is 32 kilograms (71 pounds), and the top speed is 32km/h (20 mph). This e-bike is fully compliant with all pertinent rules and regulations governing electric bicycles.

Safety Disclaimer

This manual contains important safety, performance and service information. Read and understand it along with the information provided during the on-delivery instructions before using the product, and keep it for reference. Ensure that you comprehend all instructions and safety notes/ warnings.

WARNING: Ensure the bike fits you properly before use. You might lose control if the bike is too small or too big for you.

By choosing to ride an electric bicycle, you assume the responsibility for the risk of riding an e-bike. The rider is responsible for knowing and practicing the rules of safe and responsible riding, as well as proper use and maintenance of the bicycle.

WARNING: Riders must have the physical condition, reaction time and mental capability to ride and manage traffic, road conditions, and sudden situations. Riders should also familiarize themselves on local bylaws regarding riding an e-bike.

If you have an impairment, hearing impairment, physical impairment, cognitive language impairment, or a seizure disorder, consult your physician before riding any bicycle.

WARNING: Failure to confirm proper installation, compatibility, proper operation or maintenance of any component or accessory can result in serious injury or death. Make sure that correct setup, tightening and torqueing to recommended torque values have been completed on your bike.

CAUTION: Before the first ride, familiarize yourself with all the bicycle features. Practice and become proficient

at applying the brakes, using the throttle in a controlled setting before riding in more risky conditions. If you plan to ride at night, familiarize yourself with the lights and signals.

WARNING: Please make sure the bike works properly and safely before each ride or (inspect key components, including but not limited to the brakes, brake sensors, throttle). Make sure all the hardware, such as the handle bar, hand grips, seat, pedals are secured in place. Have your bike inspected by a licensed mechanic on a regular basis depending on the condition of the bike.

DANGER: **DO NOT** use this product with standard bike trailers, stands, vehicle racks, or accessories that have not been tested for safety and compatibility and verified as safe and compatible with the bike by EMMO. Contact us if you have any question or concern.

WARNING: E-Bikes and e-bike parts have strength and integrity limitations. Extreme riding should not be performed or you will risk damaging the components or becoming seriously injured or killed. This includes but not limited to jumps, stunts, or any riding that exceeds your capabilities.

WARNING:

- Keep the battery away from children and pets.
- Keep the battery & charger away from water and open fire.
- **DO NOT** drop or subject the battery & charger to any big shocks.
- Charge the battery only with the charger that was supplied with the e-bike or supplied by an official EMMO dealer.
- **DO NOT** use the battery & charger for other purposes.

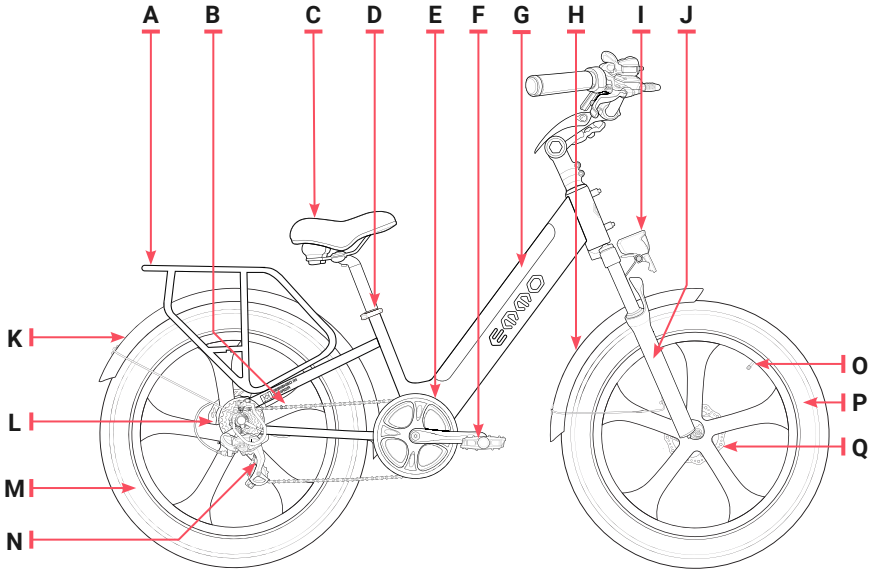
- Never connect the battery's terminals with each other.
- **DO NOT** cover the battery & charger or place objects on top of it during charging.
- **DO NOT** leave the battery & charger unattended while charging.
- Disconnect the charger and the battery immediately if you notice a strange smell or smoke.
- In the unlikely case that the battery is on fire: NEVER try to put the fire out with water. Cover the fire with large amounts of sand and call emergency services immediately.

In no event shall EMMO be responsible for any direct, indirect or consequential damages, including without limitation, personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, or product liability.

Description

1. Schematic Diagram

a. Side View

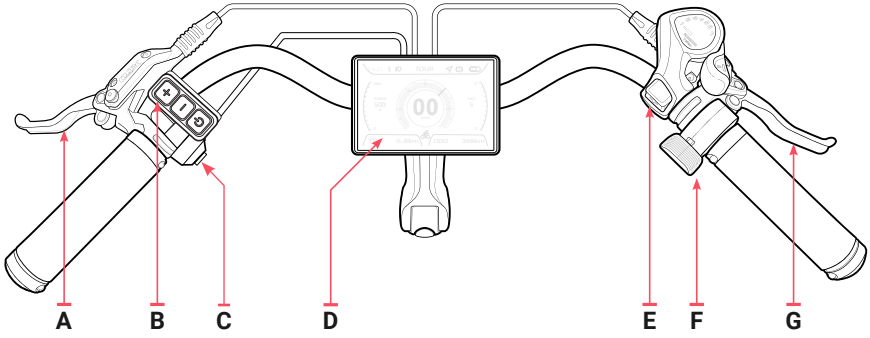


A	Rear Rack
B	Chain
C	Seat Cushion
D	Seat Clip
E	Pedal Crank
F	Pedal
G	Battery
H	Front Fender
I	LED Headlight
J	Front Adjustable Shock
K	Rear Fender
L	Rear Brake Disk
M	Rear Rim With Motor
N	Derailleur
O	Valve
P	Front Rim
Q	Front Brake Disk

Description

1. Schematic Diagram

b. Handlebar Attachments

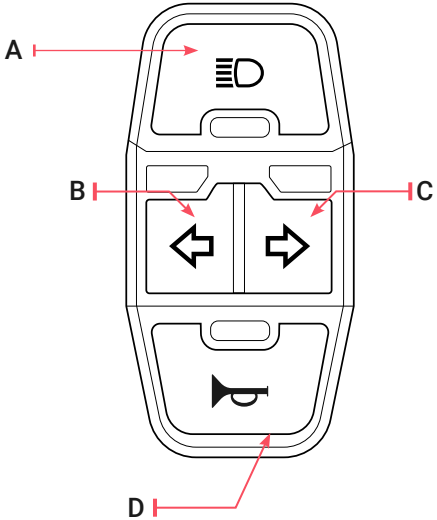


A	Front Brake Lever
B	Control Button
C	Lights Signal & Horn Switch
D	Speedometer
E	Gear Shifter
F	Throttle
G	Rear Brake Lever

Description

1. Schematic Diagram

c. Lights and Horn Controls

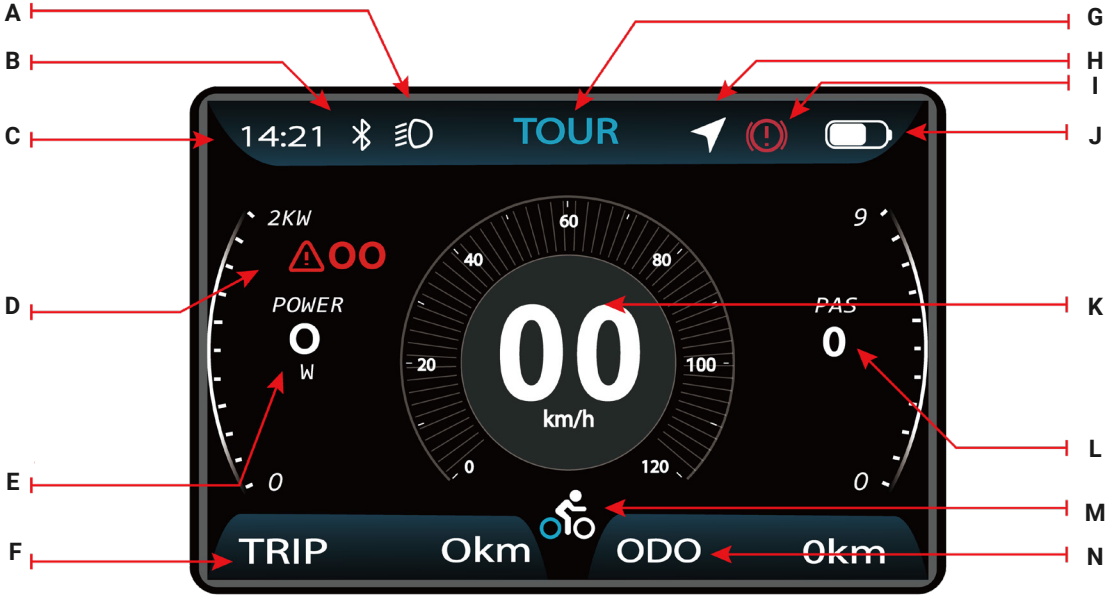


A		Headlight + Taillight	Press to turn on the headlight and tail light.
B		Left Turning Signal	Press to turn on the left side turning signal. Press again to cancel.
C		Right Turning Signal	Press to turn on the right side turning signal. Press again to cancel.
D		Horn	Press the button to sound the horn.

Operation Guide

1. Speedometer & Control

a. Display



Operation Guide

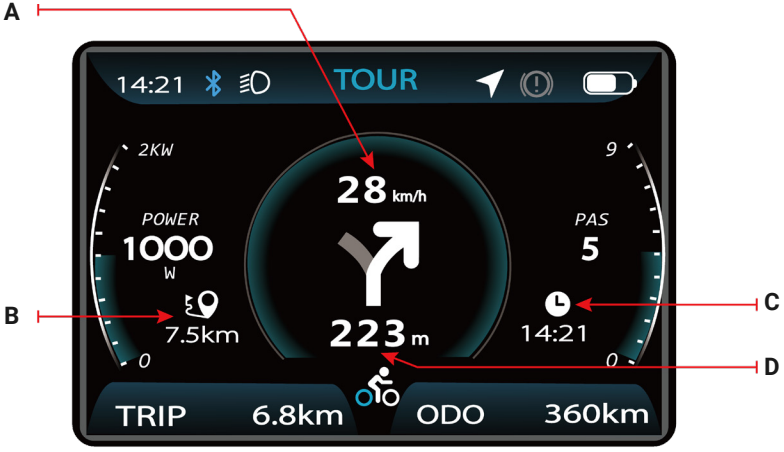
A		Headlight Indicator	Indicates if the status of the headlight is on/off.The icon lights up when the hedlight is on.
B		Bluetooth Indicator	Indicates if the status of the bluetooth is on/off.The icon lights up when the bluetooth is on.
C	14:21	Time Display	Display the current time.
D		Fault Indicator	When there's a malfunction in the instrument or or vehicle motor controller, it promptly displays the corrrespondng fault code.
E	POWER 0 W	Power Indicator	Indicates the current power output of the bike.
F	TRIP 0.0 km	Trip Distance	Displays the distance traveled for the current trip.
G	TOUR	Mode Indicator	Display the current bike mode.
H		Navigation Indicator	The mobile app connects to the display via Bluetooth, and lights up when the mobile app starts to navigate.
I		Brake Indicator	When the brakes are applied, the instrument illuminates an indicator.
J	100%	Battery Level Indicator	Indicates the current battery level of the bike.
K	00	Real-time Speed	Display the speed in real-time.
L	PAS 1	Pedal Assist Level	Display the pedal assist level.
M		Riding Mode	Indicates the current mode of the bike.
N	ODO 0.0 km	Total Distance Traveled	Display the total distance traveled.

Operation Guide

1. Speedometer & Control

b. Navigation

When the mobile phone connects to the instrument panel via Bluetooth and you enter the navigation interface to select a destination and start navigation, the main interface updates as follows:

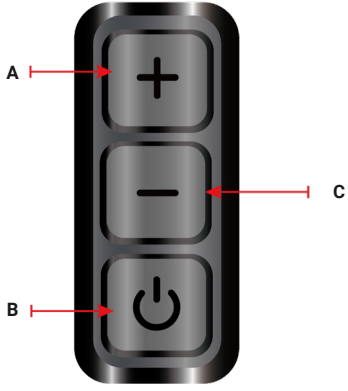


A	Real-time Speed
B	Distance to Destination
C	Estimated Tim e of Arrival (ETA)
D	Next Turn Prompt and Distance

Operation Guide

1. Speedometer & Control

c. Control Function



A	Plus (+) Button
B	Minus (-) Button
C	Power Button

Power On/Off

Hold the **POWER** button for 1 second to turn on the display and controller. To turn off hold the **POWER** button for 1 second. The bike has an automatic shutdown ffnction, which turns off the power if it's left unused for an extended period.The auto shutdown time can be changed in settings.

Operation Guide

1. Speedometer & Control

d. Function Summary

Enter the Password

You need to press the **"+"** button or **"-"** button to enter the password before entering the main interface, the **default password is 0000.**

Operation Guide

1. Speedometer & Control

d. Function Summary

Changing the Pedal Assist (PAS) Level

After entering the main interface, press the **"+"** button or **"-"** button to switch the PAS level. By default, there are 5 PAS level to choose from, which can also be changed in settings. No power output in level 0, level 1 is the lowest power and level 5 is the highest power. The default is 0 when the instrument is powered on.

PAS 1

Operation Guide

1. Speedometer & Control

d. Function Summary

Turn ON/OFF Headlight and Taillight

Turn on the light: Hold the **Headlight** button shown on **page 16** when the light is turned off. The headlight indicator will light up, and the headlight/taillight will be turned on as well.

Turn off the light: Hold the **Hedlight** button shown on **page 16.**The headlight indicator will no longer be lit, and the headlight/taillight will be turned off as well.

NOTICE: Once the headlight indicator and headlight/taillight are on, the indicator will dim but not disappear. The indicator will turn off if the e-bike is turned off or if the headlight and taillight are turned off.

Operation Guide

1. Speedometer & Control

d. Function Summary

Walking Mode

When the vehicle is stationary, press and hold the **"-"** button to activate the walking mode. Keep the **"-"** button pressed to engage the boosting function. During walking mode, the walking logo dynamically displays. To exit walking mode, release **"-"** button for up to 5 seconds. Upon release, the walking logo will disappear, reverting to the riding logo .

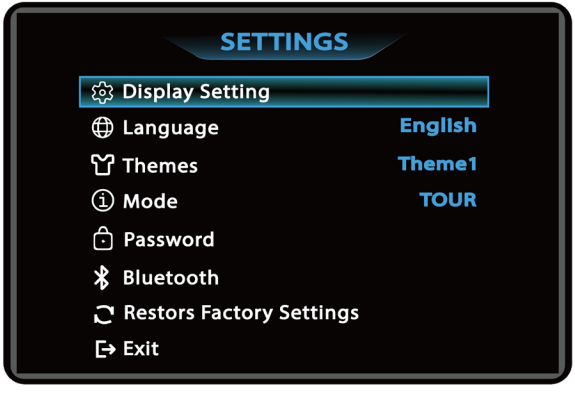
WALKING MODE

Operation Guide

1. Speedometer & Control

d. Function Summary

Press the **Power** button to enter the list of settings, use the **"+"** button or the **"-"** button to switch between different setting, press **Power** to confirm selection between "Display Setting", "Information", "Language", "Themes", "Password", "Bluetooth" and "Exit".



NOTICE: Depending on the region, some features or settings may not be availablle.

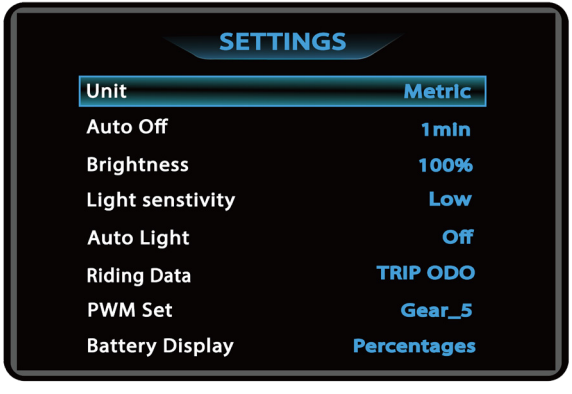
Operation Guide

1. Speedometer & Control

d. Function Summary

Imperial and Metric Unit Conversions

Go to the “Display Setting” menu, select “Unit”, press **Power** to enter the settings. Use the **“+”** button or the **“-”** button to move the cursor up and down after entering the settings, and select “Metric” or “Imperial”, press **Power** to save and exit to “Unit”, Exit the menu via “Back” Exit to the main interface.



UNIT MILE

NOTICE: The display is in imperial by default.

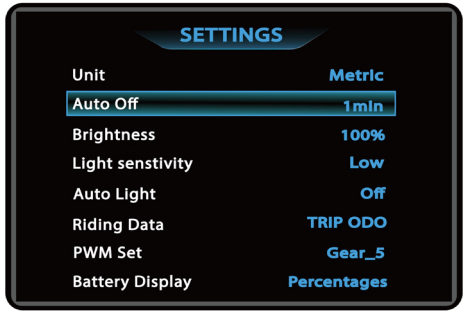
Operation Guide

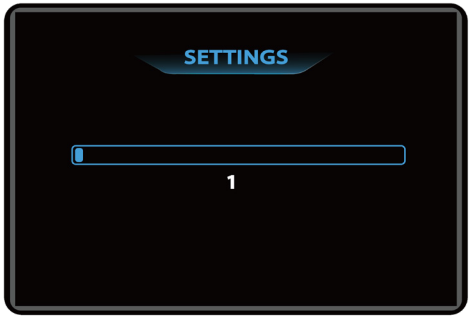
1. Speedometer & Control

d. Function Summary

Automatic Shutdown

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Auto Off”, press **Power** to access the settings. In the setting interface, pick a range between 0 to 60 minutes. The default auto-off time is 5 minutes, with 0 indicating no auto-off. Use the “+” or “-” keys to adjust the auto-off time to your preference. Press “Save” to exit to the “Display Setting” menu, then through “Back” and “Exit” to return to the main interface.





AUTO ON/OFF

NOTICE: Any operation will reset the internal timer, the bike will only shut down automatically when the preset time is reached.

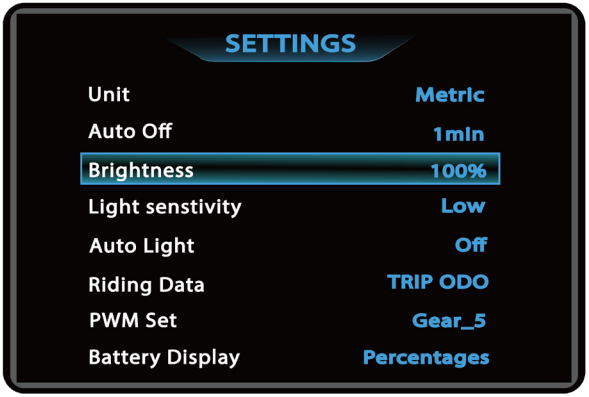
Operation Guide

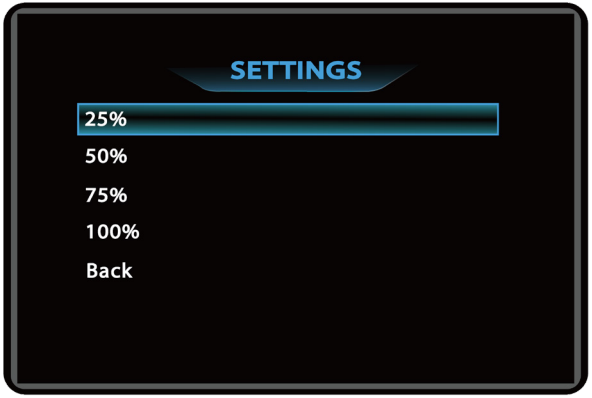
1. Speedometer & Control

d. Function Summary

Backlight Brightness Settings

Go to the “Display Setting” menu, use the **“+”** or **“-”** button to move the cursor up or down. Select “Brightness”, and press **Power** to enter the settings. Move the cursor to select the desired brightness level: “10%”, “30%”, “50%”, “75%”, or “100%”. Press **Power** to save and exit to “Brightness”, then exit to the main interface by selecting “Back” and then “Exit”.





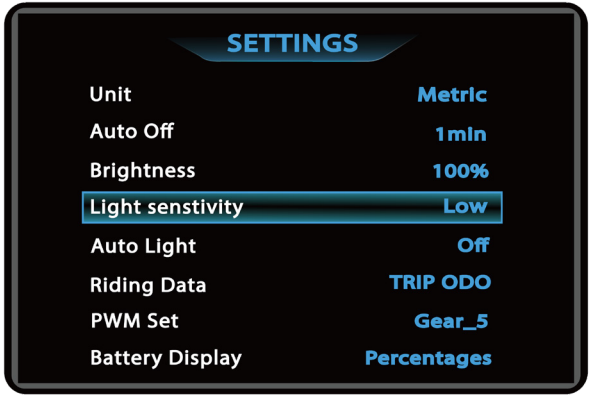
Operation Guide

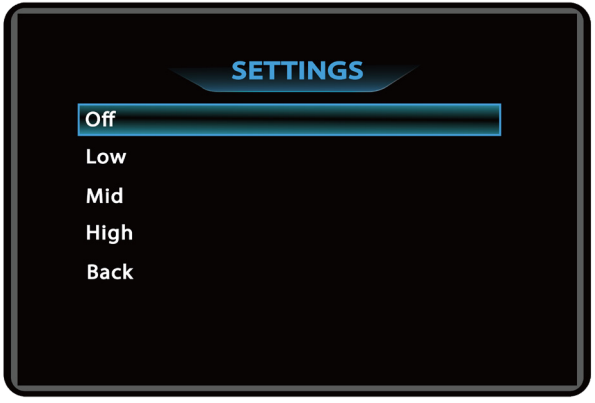
1. Speedometer & Control

d. Function Summary

Light Sensitive - Light Sensitivity

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Light Sensitivity”, press **Power** to enter the settings, and move the cursor after entering the settings and select “Off”/“Low”/“Mid”/“High”. Selecting “Off” will turn off the auto headlight feature. Press **Power** to save and exit to “Light Sensitivity”, exit to the main interface via “Back” to “Exit”.





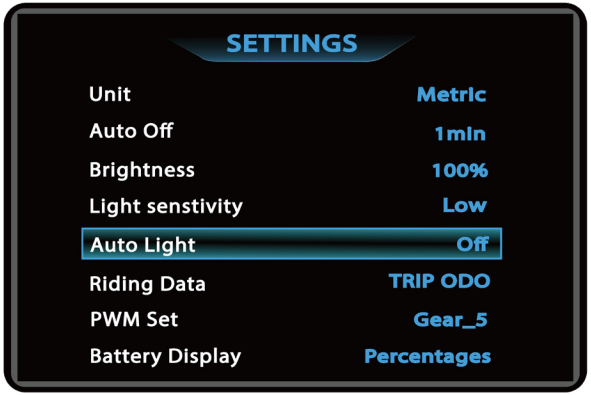
Operation Guide

1. Speedometer & Control

d. Function Summary

Auto - sensing headlight

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Auto Light”, press **Power** to enter the settings, and move the cursor after entering the settings and select “Off”/“ON”. Selecting “Off” will turn off the auto headlight feature. Press **Power** to save and exit to “Auto - sensing headlight”, exit to the main interface via “Back” to “Exit”.



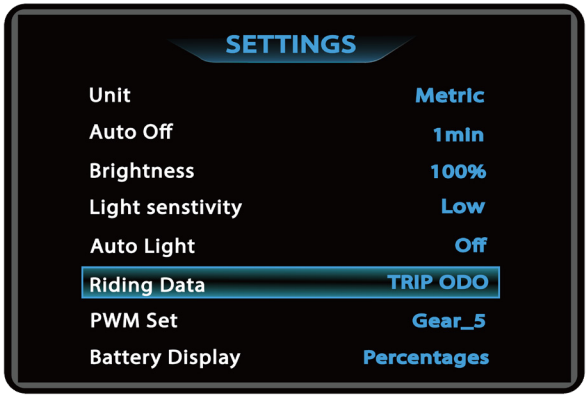
Operation Guide

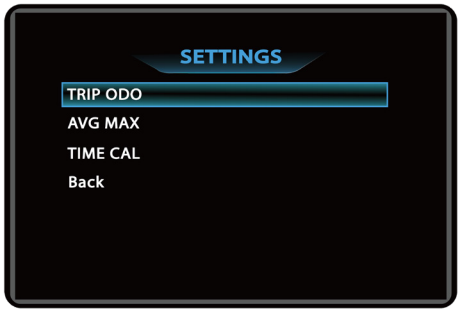
1. Speedometer & Control

d. Function Summary

Riding Data Display

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “R”, press **Power** to enter the settings.





TRIP ODO	Current and total mileage
AVG MAX	Average and maximum speed
TIME CAL	Riding time and calories

Operation Guide

1. Speedometer & Control

d. Function Summary

Riding Data Display

Press **Power** to save and exit to “Riding Data Display”, exit to the main interface via “Back” to “Exit”.

Operation Guide

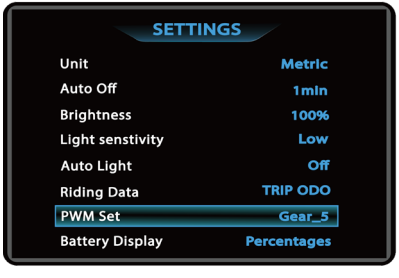
1. Speedometer & Control

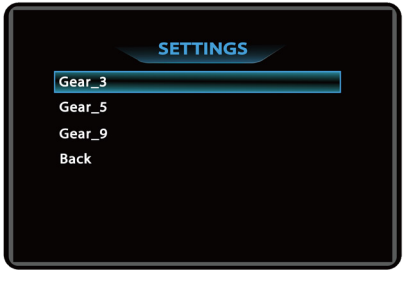
d. Function Summary

Maximum gear setting (PMW value setting)

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “PWM Set”, press **Power** to enter the settings.

The PWM value adjustment primarily facilitates the gear staging function, where a higher value corresponds to a higher maximum gear setting. By default, it’s set to **Gear_5**. Press **Power** to save changes and return to the previous menu.





Gear_3	PMW setting for P gear and **1-3** gear mode
Gear_5	PMW setting for P gear and **1-5** gear mode
Gear_9	PMW setting for P gear and **1-9** gear mode

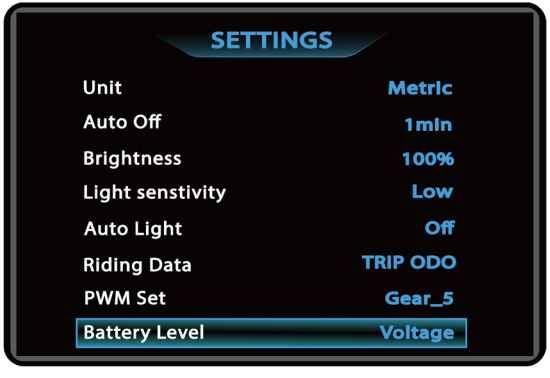
Operation Guide

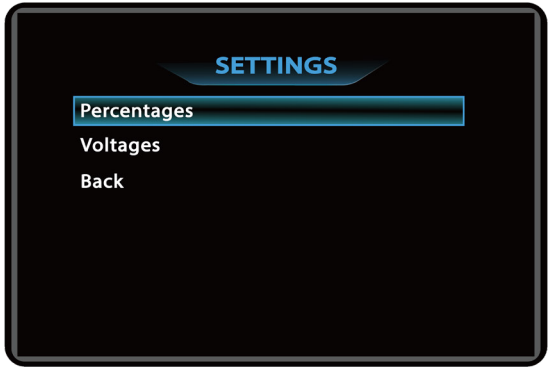
1. Speedometer & Control

d. Function Summary

Battery Level

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Battery Level”, press **Power** to enter the settings, and move the cursor after entering the settings and select “Percentage/voltage”. Press **Power** to save and exit to “Battery Level”, exit to the main interface via “Back” to “Exit”.





Operation Guide

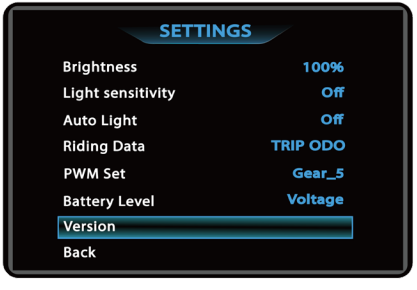
1. Speedometer & Control

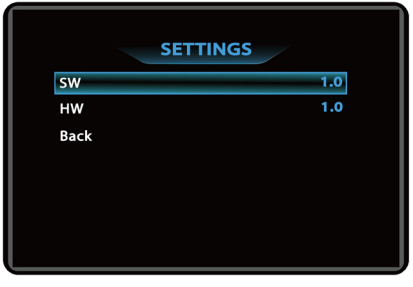
d. Function Summary

Version

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “PWM Set”, press **Power** to enter the settings.

Press **Power** to save and exit to “Riding Data Display”, exit to the main interface via “Back” to “Exit”.





SW	Soft version number
HW	Hardware version number

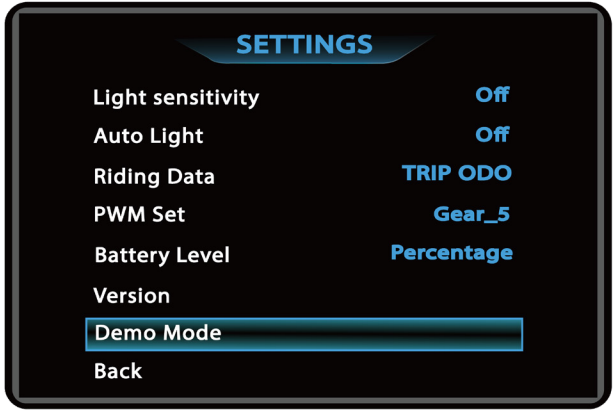
Operation Guide

1. Speedometer & Control

d. Function Summary

Demo Mode

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Demo Mode”, press **Power** to enter the settings. Press **Power** to save and exit to “Demo Mode”, exit to the main interface via “Back” to “Exit”.



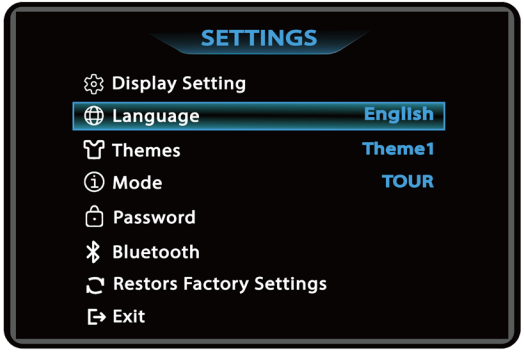
Operation Guide

1. Speedometer & Control

d. Function Summary

Language Selection

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Language Selection”, press **Power** to enter the settings, and move the cursor after entering the settings and select “English/German/French/Spanish/Italian/Japanese/Chinese/Dutch”. Press **Power** to save and exit to “Language Selection”, exit to the main interface via “Back” to “Exit”.



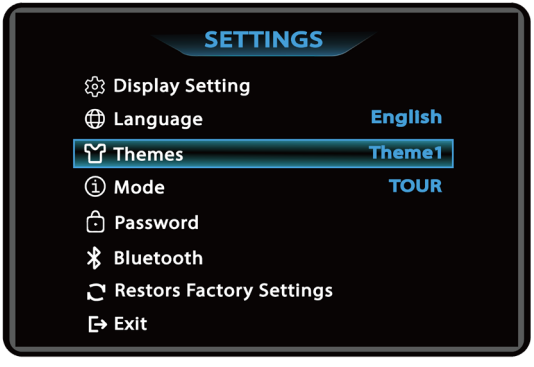
Operation Guide

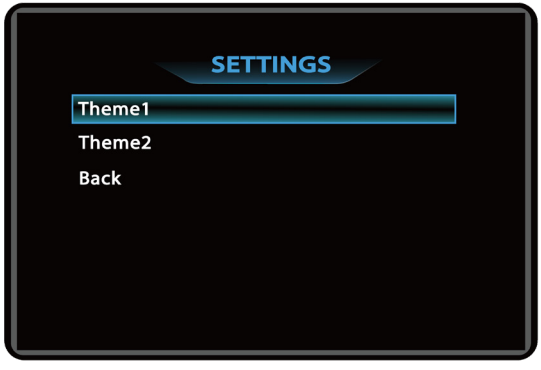
1. Speedometer & Control

d. Function Summary

Theme Selection

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Theme Selection ”, press **Power** to enter the settings, and move the cursor after entering the settings and select “Theme1/Theme2”. Press **Power** to save and exit to “Theme Selection”, exit to the main interface via “Back” to “Exit”.





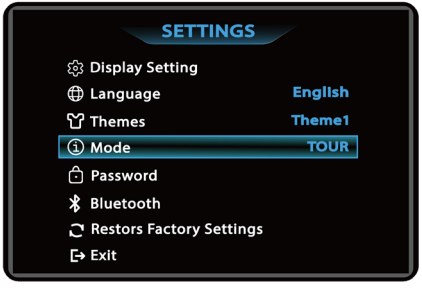
Operation Guide

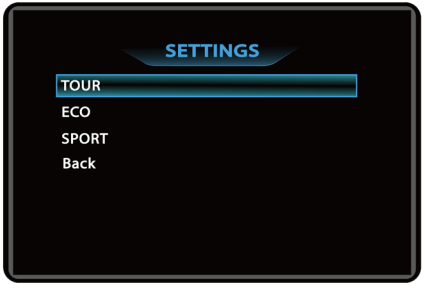
1. Speedometer & Control

d. Function Summary

Mode Selection

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Mode Selection”, press **Power** to enter the settings.
Press **Power** to save changes and return to the previous menu.





ECO	Energy - saving mode
SPORT	Sport mode
TOUR	Travel mode

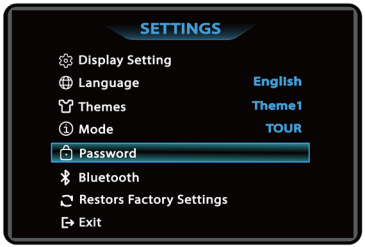
Operation Guide

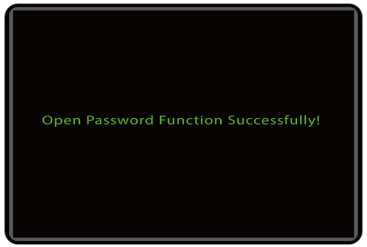
1. Speedometer & Control

d. Function Summary

Turn On the Password Function

Press the **Power** button to enter the setting information list, use the **"+"** button or the **"-"** button to move the cursor up and down, select the "Password" option and press **"OK"** to enter the Password options interface, select "Start Password" (Start Password status is off) and press **Power** to confirm, the interface prompts for the password, At this time, use the **"+"** button or the **"-"** button to toggle the number "0-9". Press **Power** to confirm the number in the current cursor, and after entering it, the system prompts you to turn on the password function successfully.





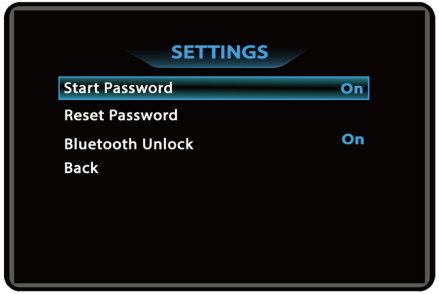
Operation Guide

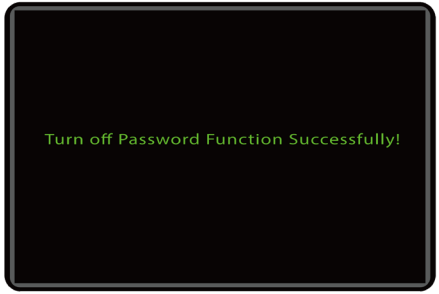
1. Speedometer & Control

d. Function Summary

Turn Off the Password Function

Press the **Power** button to enter the setting information list, use the **"+"** button or the **"-"** button to move the cursor up and down, select the "Password" option and press **"OK"** to enter the Password options interface, select "Start Password" (Start Password status is on) and press **Power** to confirm, the interface prompts for the password, At this time, use the **"+"** button or the **"-"** button to toggle the number "0-9". Press **Power** to confirm the number in the current cursor, and after entering it, the system prompts you to turn off the password function successfully.





Operation Guide

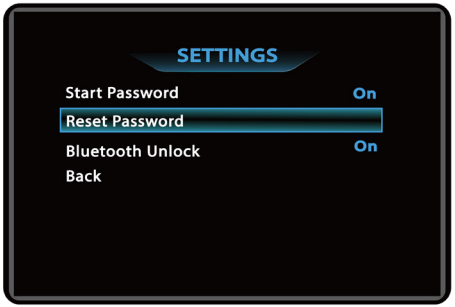
1. Speedometer & Control

d. Function Summary

Set and Modify Password (The initial password is 0000)

Press the **Power** button to enter the setting information list, use the **"+"** button or the **"-"** button to move the cursor up and down, check the "Password" option and press **"OK"** to enter the Password Options interface, move cursor to "Reset Password" and press **Power** to confirm.

- The interface prompts "Please enter your old password", use the **"+"** button or the **"-"** button to toggle the number "0-9" and press **Power** to toggle digits.

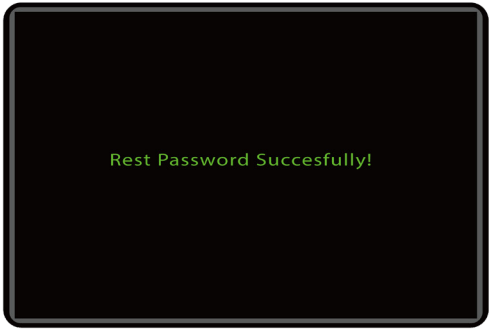


Operation Guide

1. Speedometer & Control

d. Function Summary

- After the old password is entered, the interface will prompt “Please enter your password”, use the **“+”** button, the **“-”** button or the **Power** button to enter a new password.
- After the interface prompts “Please confirm your password”. Enter your new password one more time using the 3 function buttons.



NOTICE: After the initial password is modified, if you want to enable the instrument password function, you need to enter the new password to enable it.

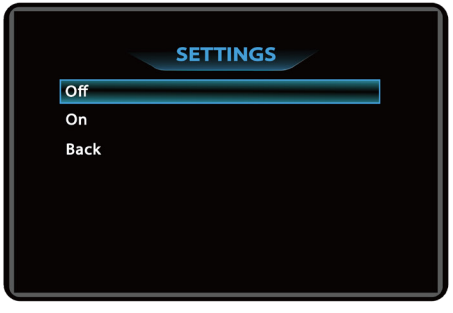
Operation Guide

1. Speedometer & Control

d. Function Summary

Bluetooth Lock Settings (Bluetooth Unlock Is On by Default)

Press the **Power** button to enter the setting information list, use the **"+"** button or the **"-"** button to move the cursor up and down, and press "OK" after checking the "Password" option, enter the Password options interface, select "Bluetooth Unlock" press **Power** to enter the settings, press the **"+"** button or **"-"** button after entering the settings to select "On" or "Off" ("On" means to turn on the Bluetooth lock, "Off" means to turn off the Bluetooth lock), press "Save"to select and exit.



NOTICE: To enable Bluetooth lock, activate the password function and set the Bluetooth lock to 'On'.

Operation Guide

1. Speedometer & Control

e. Bluetooth APP

Download the APP

HICYCLE

IOS Devices

Search "HICYCLE" and install on your mobile device.

Download on the App Store

Android Devices

Scan the QR code below, download it on your mobile device.

To download the **HICYCLE** APP on your mobile device, access either the App Store or scan the QR Code above to download the package, depending on your device's operating system. In App Store, search for "HICYCLE," then click "Download" or "Get" and follow the prompts.

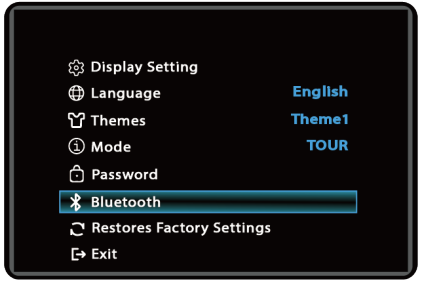
NOTICE: Emmo not liable for in-app purchases.

Operation Guide

1. Speedometer & Control

e. Bluetooth APP

Bluetooth Connection



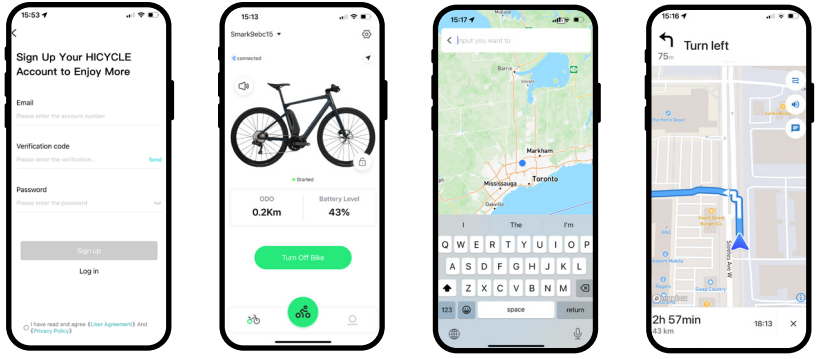
- Tab the **Power** key to enter the setting information list, use the **"+"** key or the **"-"** key to move the cursor up and down, select the "Bluetooth" option, and tab **"OK"** to enter the Bluetooth QR code interface.
- Open the **HICYCYLE** APP, click on "Scan" to add your e-bike and scan the QR code on the speedometer of the ebike to connect to your E-Bike. Enter pair password "**880000**".

Operation Guide

1. Speedometer & Control

e. Bluetooth APP

Bluetooth Connection



- To create an account, you will need to provide personal information including your name, and email address. Once you have created an account, you can log in and start using the app.
- After entering the main interface, start navigation by pressing '**go**,' enter your destination, and you can start your journey.

Operation Guide

1. Speedometer & Control

e. Bluetooth APP

Unbind Bluetooth and Connect to New Device

- When the display is **ready** to pair, the **Bluetooth icon** will appear **grey**.
- If the Bluetooth icon is **lit**, the display is **already connected to another device**.
  To disconnect and pair with **a new device,** follow the steps on the next page.

READY TO PAIR

HAS CONNECTED TO ANOTHER DEVICE

Operation Guide

1. Speedometer & Control

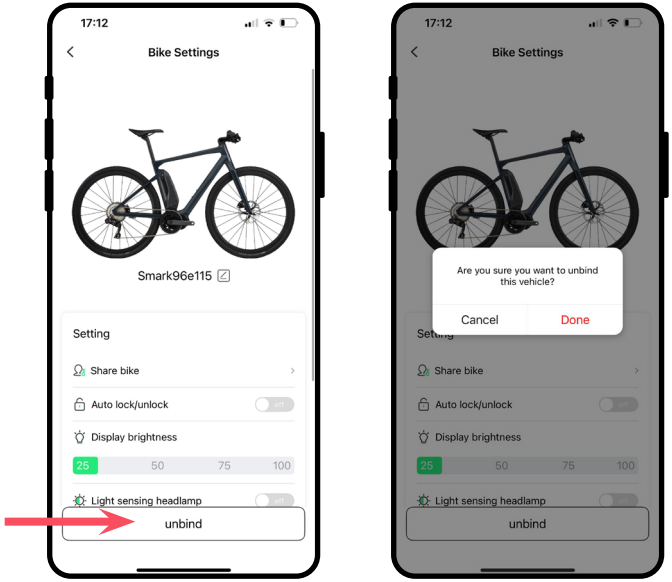
e. Bluetooth APP

Unbind Bluetooth and Connect to New Device

To disconnect the current device and connect to a new device:

1. Open the **Hicycle** app on the **current phone**, tap settings icon, click "**Unbind**" button and confirm by clicking "**Done**".

(Continued on next page)



Operation Guide

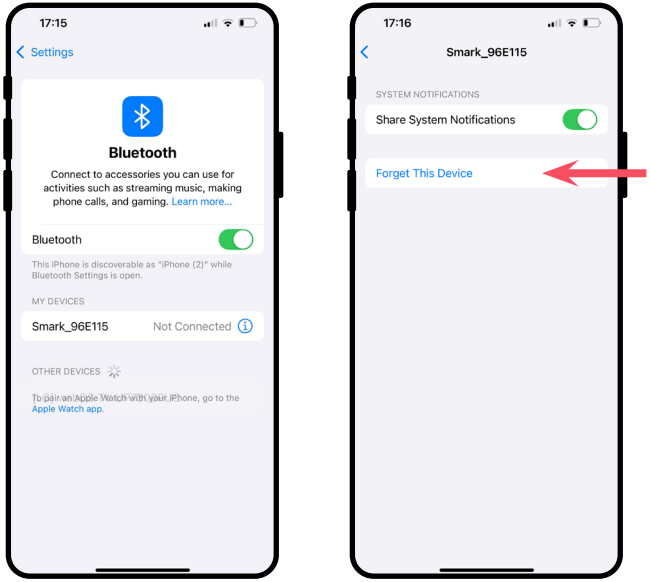
1. Speedometer & Control

e. Bluetooth APP

Unbind Bluetooth and Connect to New Device

2. Go to the phone's Bluetooth settings and **forgot** the device named **"Smark_xxx."**

3. The display is now ready to pair with a new device. For pairing instructions, refer to **pages 45–47** of this manual.



Operation Guide

1. Speedometer & Control

f. Error Code

When something goes wrong with the system, an error code will flash on the display. Check the details on the attached list. The motor will stop working in the event of an error. Only when the error is gone, will the motor work again.

Error Code	Error Description	Error Code	Error Description
03	Brakes applied	13	Temperature failure inside the battery
04	The throttle is not hosted	14	The temperature inside the controller is too high
05	Throttle failure	15	Controller internal temperature sensor failure
06	Low-voltage protection	21	Speed sensor failure
07	Over-voltage protection	22	BMS communication failure
08	Motor Hall signal line failure	23	Headlight failure
09	Motor phase line failure	24	Headlight sensor failure
10	The temperature inside the motor is too high	25	Torque sensor torque signal failure
11	Motor temperature sensor failure	26	Torque sensor speed signal failure
12	Current sensor failure	27	Overcurrent

Operation Guide

1. Speedometer & Control

f. Error Code

Error Code	Error Description	Error Code	Error Description
30	Communication failure	45	Battery temperature too high
33	Brake signal anomaly	46	Battery temperature too low
35	15V detection circuit anomaly	47	Battery state of charge (SOC) too high
36	Keyboard detection circuit anomaly	48	Battery state of charge (SOC) too low
37	Watchdog timer (WDT) circuit failure	61	Switch detection defect
38	Sensor WDT circuit failure	62	Electronic derailleur cannot be released
41	Battery total voltage too high	71	Electronic lock jammed
42	Battery total voltage too low	81	Bluetooth module error
43	Battery cell total power too high	A0	Controller fault
44	Single cell voltage too high	A1	Assist sensor fault

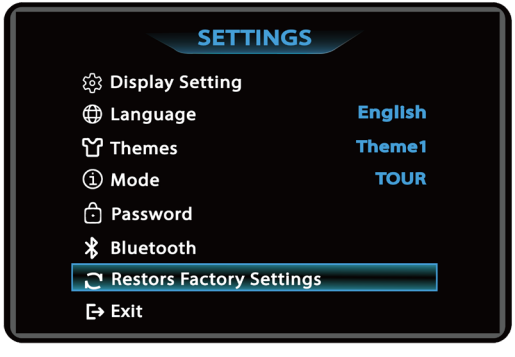
Operation Guide

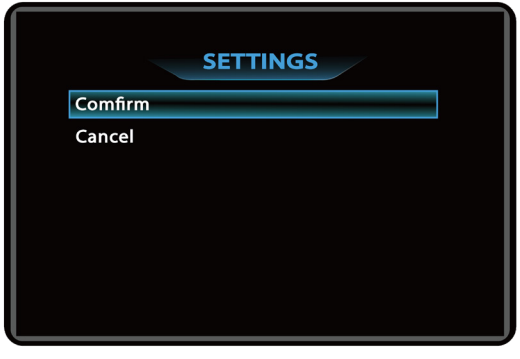
1. Speedometer & Control

g. Restore

Reset Factory Settings

Go to the “Display Setting” menu, use the **“+”** button or the **“-”** button to move the cursor up or down, select “Reset Factory Settings”, press **Power** to enter the settings, and move the cursor after entering the settings and select “Comfirm/Cancel”. By selecting **Comfirm** - Restore to factory settings automatically. By selecting **Cancel** - Pause this process, maintaining the current factory settings, redirecting back to the “Settings” page





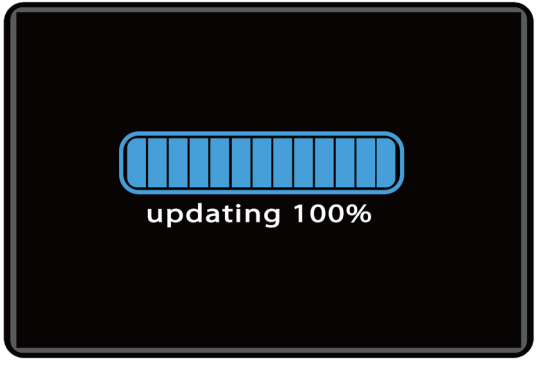
Operation Guide

1. Speedometer & Control

h. OTA

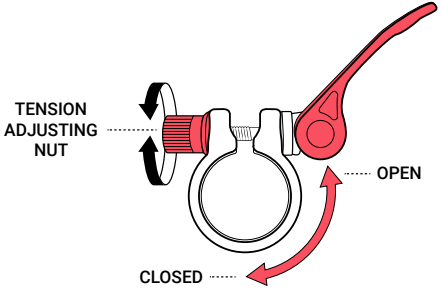
OTA Upgrade

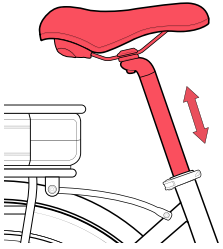
Upon powering on the instrument and connecting to the mobile app, you'll receive an OTA upgrade notification. After confirming the upgrade, the instrument briefly goes dark before accessing the OTA upgrade interface. Upon successful completion of the upgrade, it seamlessly returns to the main interface. See the image below for the upgrade interface illustration.

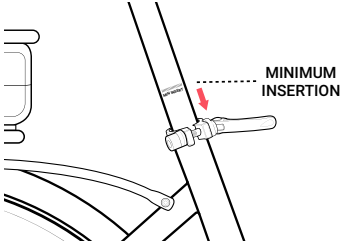


Operation Guide

2. Adjusting the Seat Height





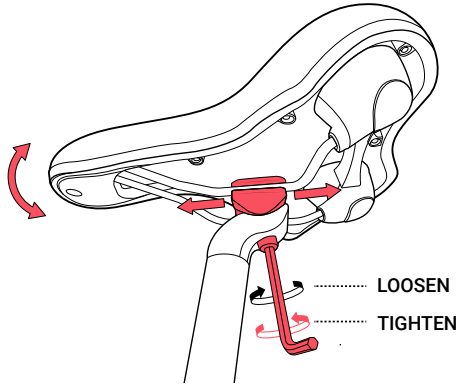


- Unlock the seat clamp, loosen the tension adjusting nut.
- Adjust the seat height to your preferred position and lock the clamp.
- Align the clamp opening with the notch in the seat tube and close the clamp lever fully.
- Closing the clamp should require enough pressure that it leaves an imprint in your hand.

WARNING: There is a **MINIMUM INSERT** marker on the seat post. You must not raise the seat to a higher position than that. Raising the seat post higher will result in injury or damage to property/e-bike.

Operation Guide

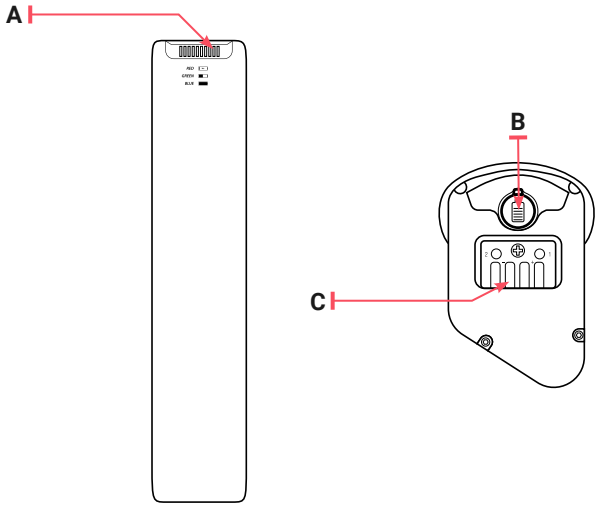
3. Adjusting the Saddle Position



- Loosen the bolt at the bottom.
- Adjust the saddle tilt by pressing down on the front or rear of the saddle.
- Tighten the bolt to secure the saddle.

Operation Guide

4. Battery



A	Charge Indicator
B	Charging Port
C	Discharging Port

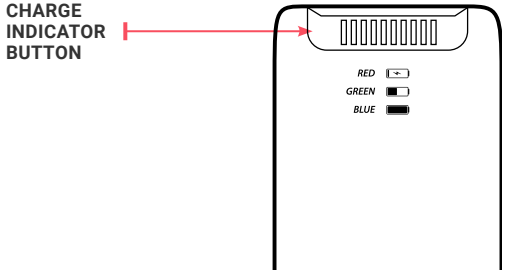
Operation Guide

4. Battery

a. Charge Indicator

Hold the button to see the current battery level. The colors of the LED lights indicates the current battery level.

- **Red:** Battery low or no battery.
- **Green:** Battery normal.
- **Blue:** Battery full.

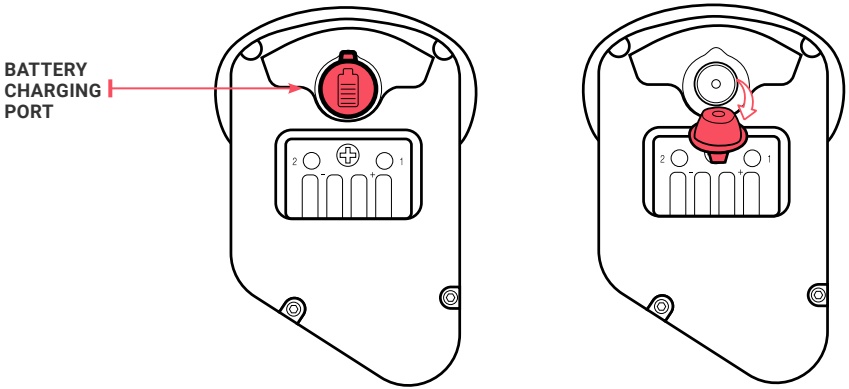


Operation Guide

4. Battery

b. Battery Charging Port

The charging port of the battery is located at the bottom, and you can find it by opening the rubber cover.

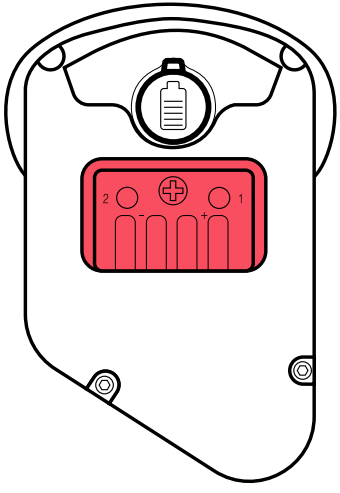


Operation Guide

4. Battery

c. Discharge port

The discharge port is connected to the bike.

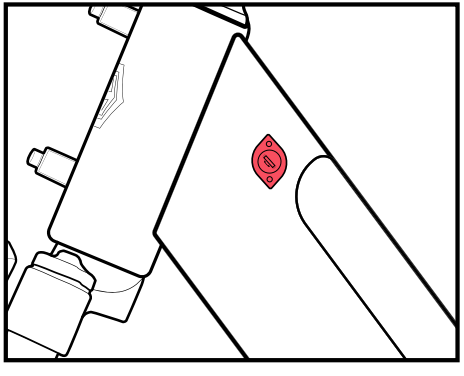


Operation Guide

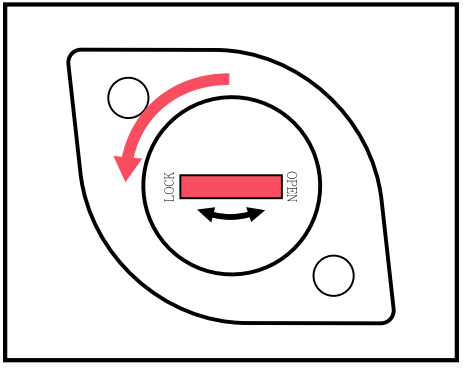
4. Battery

d. Battery Lock

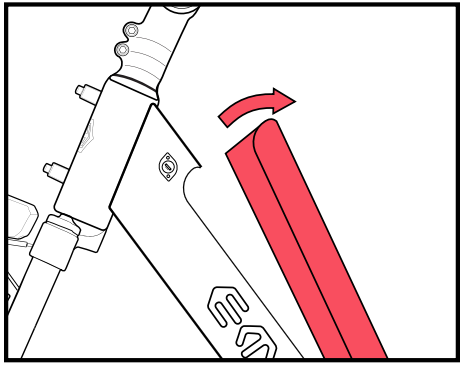
How to Remove the Battery



I. Insert the key to the battery lock. The lock is located on the left side of the bike frame.



II. Turn the key counterclockwise.



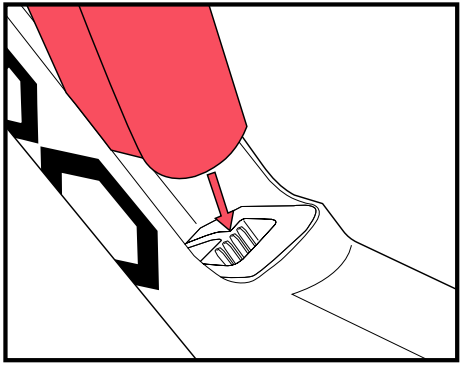
III. Lift the battery to remove it.

Operation Guide

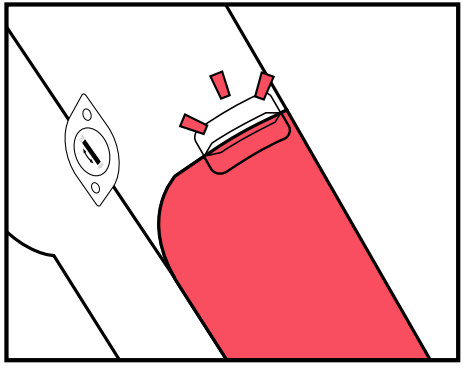
4. Battery

d. Battery Lock

How to Install the Battery



I. Insert the battery on the frame mount.



II. Push the top of the battery into the battery lock until you hear a click sound.

Operation Guide

4. Battery

e. Battery Safety Precautions

- Be sure to use the original/compatible battery (approved by EMMO). Using batteries from other brands may lead to severe accidents.
- Inspect the battery for any damage, leaking, overheating or smoking.
- Always charge between **0°C to 45°C**, charging outside of this range may cause permanent damage to battery.
- **DO NOT** lift the battery by its connectors or cables.
- **DO NOT** charge the battery for over 12 hours.
- **DO NOT** subject the battery to impact.
- **DO NOT** subject the battery to water.
- **DO NOT** subject the battery to heat or open fire.
- **DO NOT** open the battery pack by yourself. If you need any assistance, please contact your EMMO dealer.

Operation Guide

4. Battery

f. Disposal

This product contains lithum batteries which must be disposed or recycled in an environmentally safe manner. Do not dispose of the batteries in your household trash. Do not dispose of the batteries in a fire, this could cause the batteries to leak or explode. The incineration, disposal in landfill and or placing lithum batteries with household trash is prohibited by law in most areas.

NOTICE:

- Used batteries must be treated as hazardous waste.
- Batteries must be disposed of in accordance with the the regulations set forth by your local government/organizations.
- In case of uncertainty, please contact EMMO customer service department at service@emmo.ca

Operation Guide

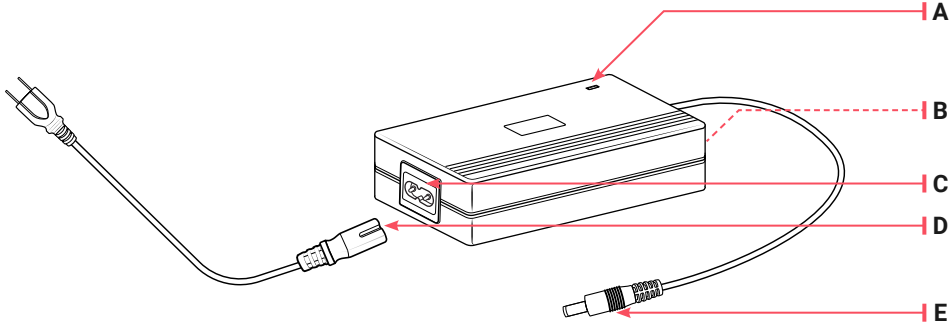
4. Battery

g. Storage & Maintenance

- For storage, please disconnect the battery from the bike and charge the battery on a regular basis (at least once a month).
- Battery packs and chargers need to be stored in a clean, dry, well ventilated place, avoid contact with corrosive material, and keep them away from heat and fire.
- Battery storage conditions:
  - Temperature: -20 to 35°C
  - Relative Humidity: ≤ 65%

Operation Guide

5. Charger

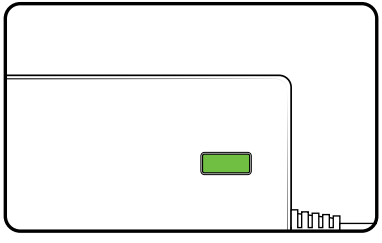


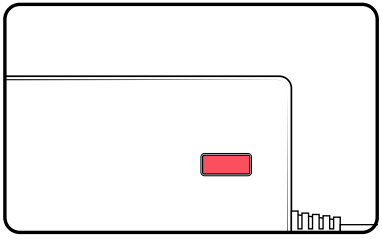
A	Charging Indicator
B	Charger Specification Label
C	Power Cord Socket
D	Power Cord
E	Charging Plug

Operation Guide

5. Charger

a. Charging Indicator





Charging Indicator Explanation:

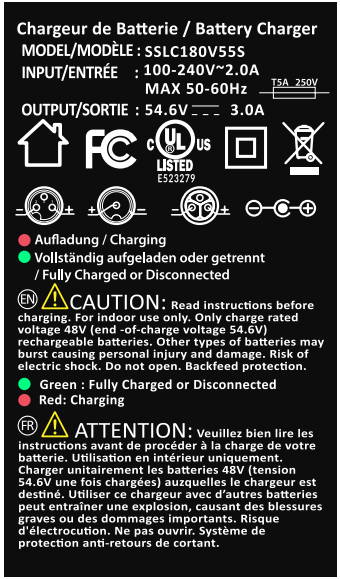
- During charging, the indicator will turn red.
- The indicator will turn green when the battery is fully charged.

NOTICE: If the charger gets warm during regular use, this is normal and is no cause for concern.

Operation Guide

5. Charger

b. Charger Specification Label



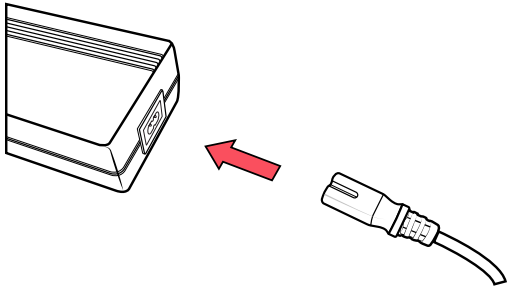
WARNING: It is your responbility to make sure that you are charging your e-bike with the correct charger. Contact your EMMO dealer if you have any questions or concerns.

Operation Guide

5. Charger

c. Power Cord Socket

d. Power Cord



Connecting the charger:

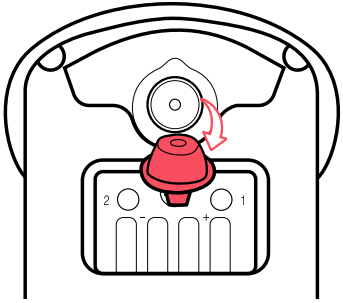
- Plug the power cord into the socket of the charger as shown.

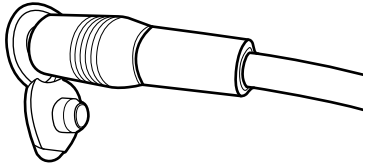
WARNING: **DO NOT** plug the power cord directly to the bike/battery. High voltage may damage the bike/battery and cause severe iniury.

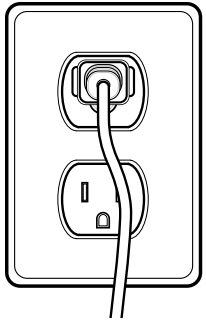
Operation Guide

5. Charger

e. Charger Plug







How to charge:

- The charging port is located at the tail end of the battery. (Refer to "Battery Charge Port "on Page 58.)
- Open the rubber cover of the charging port and then insert the charger.
- Plug the charger into a regular 110V wall outlet.

Operation Guide

5. Charger

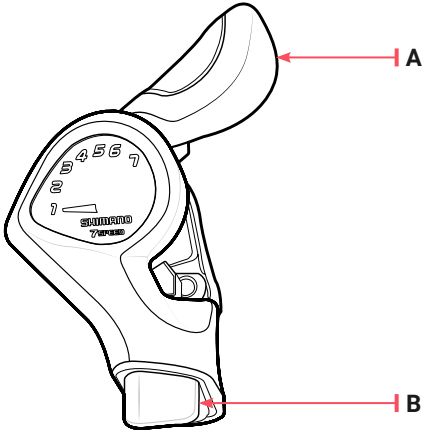
f. Charging Precautions

WARNING:

- You must use the compatible charger (approved by EMMO) to charge the battery.
- **DO NOT** submerge or allow the charger to be submerged in water or any liquid.
- **DO NOT** use the charger if the cord becomes frayed, has exposed solution or wires, or shows any damage.
- **DO NOT** use the charger if the plastic enclosure or the charging connector is broken, cracked or shows any significant damage.
- If the charger/battery becomes unreasonably hot, disconnect the charger from the power outlet and contact your EMMO dealer immediately.
- After the charging is completed, please disconnect the charger from the power outlet first.
- Leave the battery and charger out of the reach from children.
- Charge the battery in a dry, well-ventilated space. **DO NOT** charge the battery in the rain /snow, or in humid environments.

Operation Guide

6. Gear Shifter

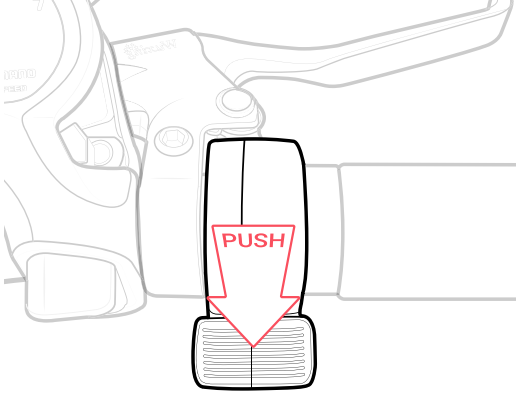


A	Push the upper lever to raise the gear (smaller numbers).
B	Push the button to lower the gear (bigger numbers).

Operation Guide

7. Throttle

Gently pushing the throttle lever downwards to accelerate.

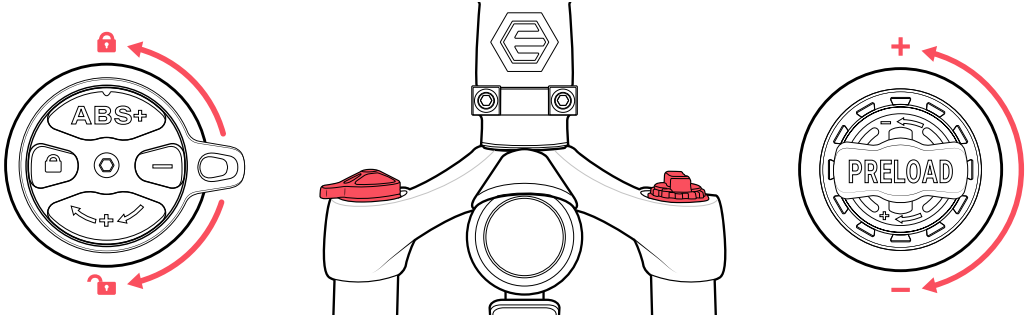


WARNING: DO NOT press the throttle if you are not ready to ride.

Operation Guide

8. Adjusting the Suspension Fork

The suspension fork can move up and down to cushion bumps, which can make riding on a rough road or trail smoother and more comfortable.

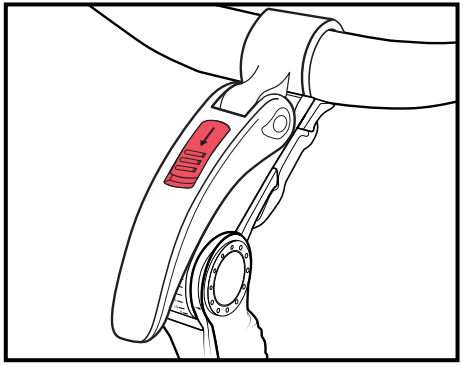


- **Locking the fork** creates a rigid fork, which can yield higher efficiency while pedaling and a more predictable ride depending on conditions such as terrain and cargo load.
- **Adjusting the preload** dial makes the fork softer, feel smoother, and more comfortable when riding on rough roads or on trails.

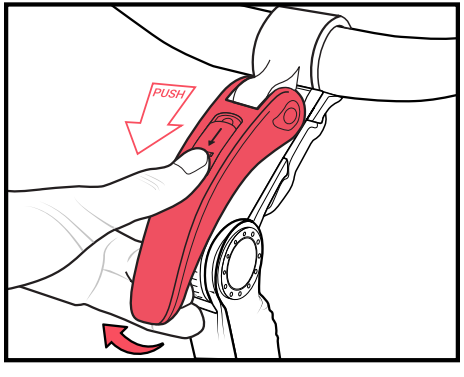
Operation Guide

9. Adjusting the Quick-Release Stem

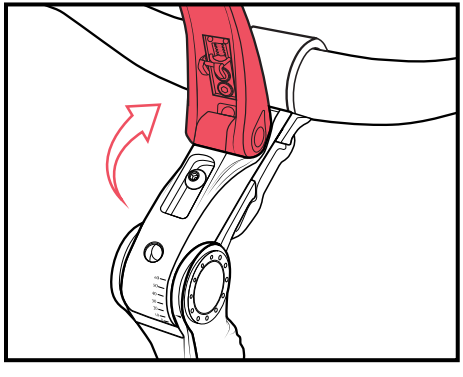
Quick-release adjustable stem allows riders to easily adjust the handlebar height and angle to suit their comfort and riding style without tools.



I. Locate the quick-release lever at the stem's base near the steering tube.



II. Press the safety button and flip the lever to unlock.

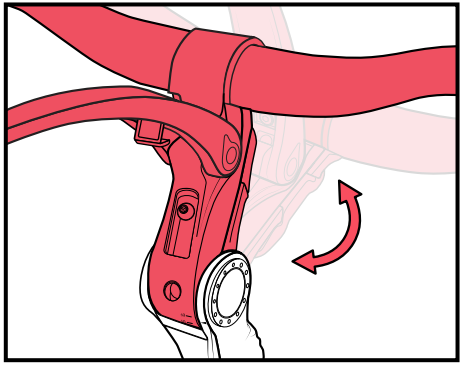


III. When it sticks out perpendicular, it is unlocked.

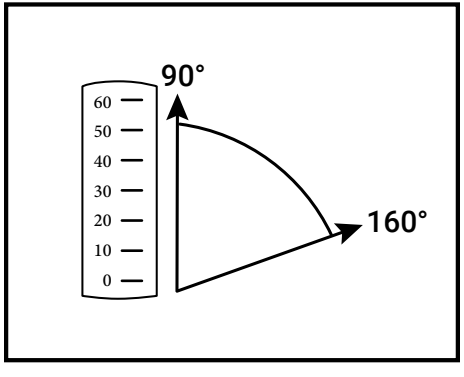
Operation Guide

9. Adjusting the Quick-Release Stem

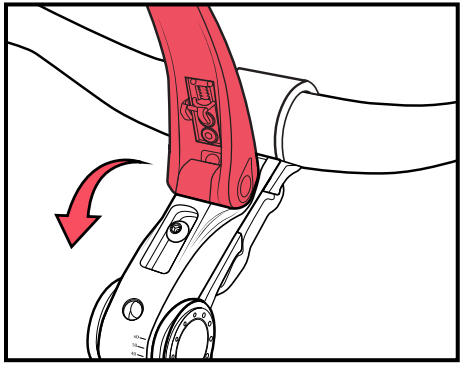
Make sure the handlebars are aligned with your front wheel for safe steering.



IV. Adjust the handlebar height within the stem's marked limits and tilt to a comfortable angle.



V. The adjustable angle range is 90°-160°.

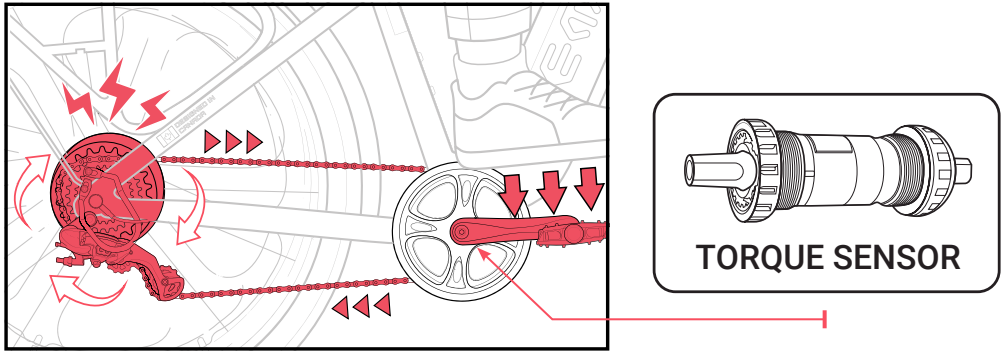


VI. Secure the adjustment by closing the lever until it locks flat.

Operation Guide

10. Torque Sensor

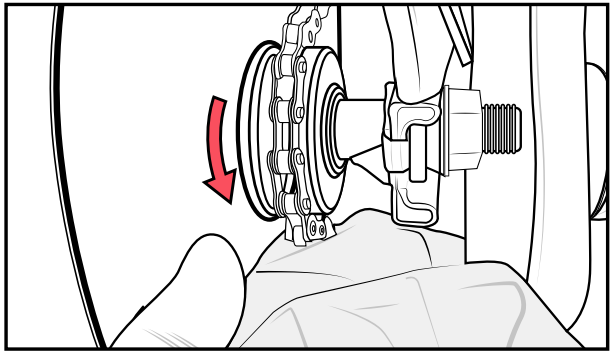
The torque sensor enhances your riding experience by seamlessly matching motor output to your pedaling efforts, leading to a smoother and more intuitive ride.



- **Efficient Battery Use** The bike only uses as much power as needed based on your pedaling force, extending the battery life per charge.
- **Improved Control** Provides better control over acceleration and helps maintain steadiness, making it ideal for climbing hills or navigating busy streets.

Operation Guide

11. Cleaning / Lubricating the Chain



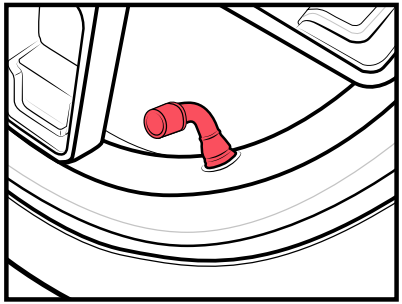
How to Clean the Chain:

- Put the bike on a service stand or lean the bike on the kick/side stand. Make sure the rear wheel is off the ground.
- Locate the chain on the right side of the bike, near the rear wheel hub.
- Hold a clean cloth to the chain (as shown).
- Turn the pedal to clean the chain.
- Apply new bicycle chain oil to the sprocket and chain.

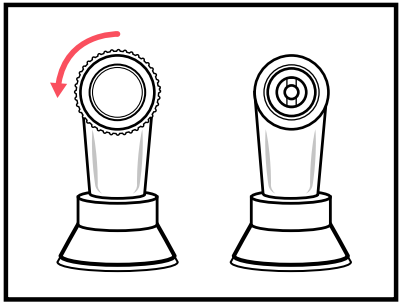
Operation Guide

12. Tire Pressure

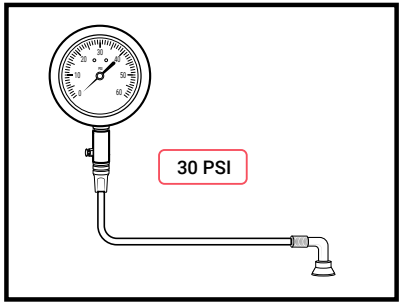
It is recommended to check the tire pressure on a regular basis to keep things at their best working conditions.



I. Locate the valve on the rim.



II. Remove the valve cap.



III. Use an air pump with gauge to adjust the tire pressure to 30 PSI.

Tire pressure affects the following:

- Service life of the tires and other components of the bike.
- Ride safety.

Operation Guide

12. Tire Pressure

- Ride comfort
- Travel distance

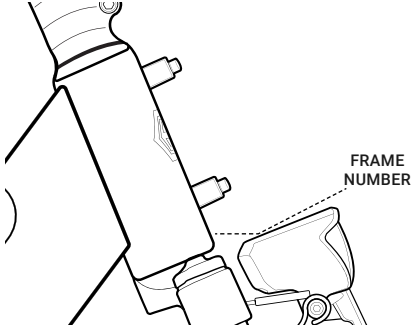
WARNING:

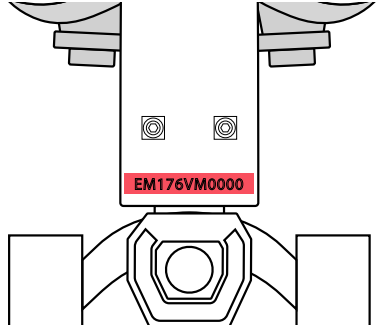
- You **MUST** inflate the tire to the recommended tire pressure before the first ride. Failure to do so may damage your bike and void your warranty.
- **DO NOT** over-inflate, as this could damage the tire or wheel. (The recommended tire pressure range is marked on both tires by the manufacturers.)

Operation Guide

13. Serial Number

a. Frame Number





Find the Frame Number:

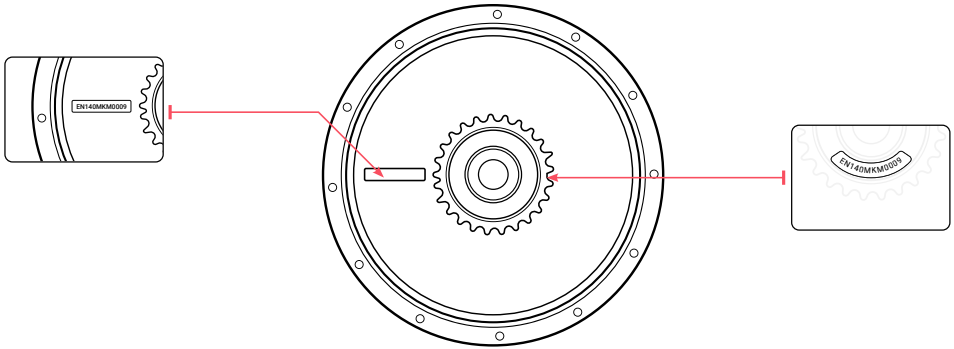
- The frame number is engraved on the neck of the frame.

Operation Guide

13. Serial Number

b. Motor Number

Located on the motor.



The motor number could be located at the following locations:

- **Location 1:** On the motor cover plate.
- **Location 2:** Behind the sprocket on the motor.

Troubleshooting

Potential Issues/Errors	Most Common Way To Solve Issue
Battery not fully seated in tray	Install battery correctly
Insufficient battery power	Recharge/test the battery.
Faulty connections	Reinstall or test the battery/wiring.
Improper turn on sequence	Clean and reconnect connectors
Brakes are applied	Restart the ebike.
Electrical cable unplugged	Repair or replace
Walk mode stopped	Ensure nothing is keeping any button(s) other than the walk mode button pressed on the UI Remote (on some models)
Control button(s) held	Ensure nothing is keeping any button(s) pressed on the UI Control (on some models)
Battery non-functional	Replace battery
Damaged or disconnected pedal assist sensor	Replace or reconnect pedal assist sensor
Loose wiring	Repair and or reconnect
Loose or damaged throttle	Tighten or replace
Loose or damaged motor plug wire	Secure or replace motor plug wire
Damaged motor	Repair or replace

Troubleshooting

Low or faulty battery	Check connection, charge or replace battery
Low tire pressure	Adjust tire pressure
Climbing too many hills, strong headwind, braking, and/or excessive load	Adjust your route or assist with pedals
Brakes rubbing	Adjust the brakes
Battery discharged for long period of time without regular charges, battery is aged, damaged, or unbalanced	If range decline persists; contact local dealer
Insufficient battery power	Charge or replace battery
Loose or damaged motor wiring	Reconnect or replace motor
Loose or damaged wheel spokes or rim	Tighten, repair, or replace
Battery damaged	Replace
Charger not well connected	Adjust the connections
Charger damaged	Replace
Wiring damaged	Repair or replace
Blown charger fuse	Replace charger fuse

NOTICE: If you have any questions, please contact your local dealer.

Recommended Torque Values

Area		Tool	Rec. torque
Handlebar	Stem clamp bolts	5 mm Allen	10 Nm
	Stem faceplate bolts	5 mm Allen	6 Nm
	Stem angle adjustment bolt (side)	5 mm Allen	12 Nm
	Stem angle adjustment bolt (bottom)	5 mm Allen	15 Nm
	Speedometer clamp bolts	3 mm Allen	3 Nm
	Remote clamp bolt	3 mm Allen	3 Nm
	Throttle clamp bolt	3 mm Allen	3 Nm
	Shifter clamp bolt	Phillips or flat head	6 Nm
	Brake lever clamp bolts	5 mm Allen	6 Nm
Brake	Caliper adapter to frame	5 mm Allen	6–8 Nm
	Caliper to adapter	5 mm Allen	6–8 Nm
	Brake pads to caliper	Cotter pin	n/a
	Brake rotor to hub	T25 Torx bit	7 Nm
Seat	Seat adjustment bolt	6 mm Allen	15 Nm

Recommended Torque Values

Frame Downtube	Controller mounting bolts	6 mm Allen	3 Nm
	Frame cable cover bolts	2.5 mm Allen	tighten securely; do not overtighten
Rear dropout	Rear axle nuts	18 mm wrench	40 Nm
	Torque arm bolt	4 mm Allen	5 Nm
	Derailleur hanger mounting bolt	5 mm Allen	10 Nm
	Derailleur mounting bolt	5 mm Allen	10 Nm
	Derailleur cable clamp bolt	5 mm Allen	6-8 Nm
Bottom bracket and crank	Pedal into crank arm	15 mm pedal wrench	35 Nm
	Crank arm removal info	Crank puller for square taper bottom bracket	n/a
	Crank arm bolt into bottom bracket spindle	8 mm Allen	35 Nm
	Freewheel removal	Contact local dealer	n/a
	Chainring bolts	5 mm Allen	10 Nm
	Kickstand mounting bolts	5 mm Allen	8 Nm
	Bottom bracket and cups	BBT-22 Park Tool	60 Nm

Tools and Torque Values

Accessories	Headlight/front fender mounting bolt	5 mm Allen and 10 mm wrench	6 Nm
	Fender mounting bolts (except at headlight)	4 mm Allen	6 Nm
	Replaceable rear rack mounting bolts	5 mm Allen	6 Nm

Riding Guide

1. Checking List Before Riding

- Whether the handlebar is stable and turns smoothly when turning.
- Whether the right and left switches on the handlebar works properly or not.
- Whether the throttle works properly or not.
- Make sure the tires are inflated to the recommended tire pressure (30 PSI).
- Check tire surface, make sure there are no cracks, damages, and foreign matter punctures or sticked on.
- Check whether the tread depth is enough. For your safety, tires should be replaced when the tread depth is below the recommended value by the manufacturer.
- Whether any error warning lights are on the speedometer.
- Whether the battery capacity is enough for your trip.
- Whether all lights are working properly.
- Whether the horn is working properly.
- Whether the mirrors are clean and adjusted to the appropriate angle.
- Whether the brake lever and brake system is working properly.

Warranty Policy

By purchasing any Emmo Inc products or other brand items sold by Emmo Inc, the customer agrees to the policies and procedures outlined below.

Terms and conditions apply for eligibility of warranty. Please refer to Terms and Conditions.

Any warranty is extended to the original owner with the original purchase paperwork. This portion does not cover the purchase of parts or the purchase of products sold by Emmo Inc that is not an electric bike, electric scooter ebike, electric motorcycle style ebike, electric mobility scooter, kick-style electric scooter, or ride-on toy.

Electric Bicycle

Emmo dealers may charge an assembly fee to assemble the ebike.

- Comprehensive Warranty (up to 4000km) There is a Two Year warranty (up to 4000km) for the frame, and motor. One year repair or part replacement is extended to the original owner on controller and other applicable components against manufacturer's defect in workmanship and materials on the e-bikes.
- Manufacturer's comprehensive warranty does not cover such parts including, but not limited to: seats, plastic housings and shrouds, pitting, scratches and chips, brake pads, tires, tubes, or damage due to lack of maintenance, accident, misuse or abuse. Damage incurred from water, road salt and other foreign debris or chemicals are not covered by the comprehensive warranty. The labour of any warranty repair will be covered by the original store that the bike was purchased from only when it is being repaired at said store. The parts will be covered by Emmo Inc. You are responsible for providing original purchase paperwork and shipping the item to and from the store.

- Six Month Warranty (up to 4000km) 6 Month warranty on original Batteries and Chargers provided that they have been maintained as instructed by your vehicle hand-book and not subjected to freezing temperatures. For Lithium models, the chargers must match the lithium batteries. Emmo is not responsible for any damage resulting from using another brand or voltage of charger. The customer is responsible for providing original purchase paperwork and shipping the item to and from the store.
- If you are not able to bring the ebike to the location you purchased from, you may be required to ship the item and a copy of your purchase paperwork to Emmo Inc before receiving a replacement item. You are responsible for shipping to Emmo Inc. Once the warranty claim is approved, Emmo Inc will arrange the shipping for the replacement parts and cover the return shipping to you unless expressed otherwise by Emmo Inc. Labour will not be covered by Emmo Inc.
- Certain conditions that may limit or completely void the warranty of your e-bike are: altering the ebike from its original design or its intended use, eg: pulling a trailer, as a delivery vehicle or any commercial use.

Purchased Parts

Please consult your Emmo dealer for more details of the parts policies.

- **Shipping Damage:** Emmo Inc will not be held responsible for any lost, stolen, or damaged items due to any delivery services or courier actions. Report any damage to Emmo Inc within 7 days of receiving the part with pictures for any shipping damage and proof of purchase. Please note the damage on the shipper's proof of Delivery prior to signing off on the shipment. Shipping damage is not covered by Emmo Inc if you choose your own shipping method or freight forwarder. The cost of shipping will not be covered under warranty unless Emmo Inc agrees in writing to cover the shipping cost.
- **Repair and Store Purchases of Emmo Inc Products:** Any warranty is extended to the original owner with

the original purchase paperwork. Any return or exchange within 7 days must be in new, unused, and original packaging. The customer is responsible for notifying Emmo Inc of the return or exchange and the cost of shipping will not be covered under warranty unless Emmo Inc agrees in writing to cover the shipping cost. On all return and exchange items, a restocking fee of 20% will be withheld from the refund amount unless Emmo Inc has agreed to another arrangement in writing. The cost of the item minus the restocking fee will be refunded once the product is returned and determined to be returnable. Restocking fees are 20% of MSRP not including Taxes, Freight/Shipping or PDI. Items out of original packaging will not be accepted.

- **Part Warranty Policy:** All items with warranty must have a valid warranty sticker. For Lithium models, the chargers must match the lithium batteries. Emmo is not responsible for any damage resulting in using another brand or voltage of charger or using an Emmo item with items that are not sold by Emmo Inc. Within 7 days, any items defective by manufacturer quality and are under warranty can be replaced. After 7 days, any items defective in manufacturer quality and are under warranty can be repaired. Warranty does not cover damage due to lack of maintenance, accident, misuse or abuse. Damage incurred from water, road salt and other foreign debris or chemicals. The labour of any warranty repair will be covered by the original store that the Emmo Inc part was purchased from only when it is being repaired at said store. For repairs that are done on items that are not from Emmo Inc, only a 7-day Parts Warranty will be included.
- If the part was paid by financing, you are responsible for any cancellation fees or penalties charged by the third party financing company unless Emmo Inc has agreed to cover the fees in writing. The financing loan agreement will only be cancelled after Emmo Inc has received and approved the returned item.
- For repairs that are done on items that are not from Emmo Inc, only a 7-day Parts Warranty will be included. Emmo Inc is not responsible for items modified from its intended use or purpose resulting in damage to the ebike or injury to the customer or third party.

NOTICE: If you have any questions, please contact your local dealer.

By sharing your experience with EMMO, you can extend your warranty for an extra **3 months for FREE.**

Your review will help us to continue providing great products and services, and help others understand how EMMO can make their life greener.

Thank you for choosing EMMO.

GET 3-MONTH
EXTENDED WARRANTY
FOR FREE

Scan the QR code to leave us a review.

LOCATION

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