

Portable Electric Scooter

Electric two wheels
A new era in urban mobility

USER MANUAL

BOOSTER PLUS

Thank you for purchasing our products

**PLEASE CAREFULLY READ THE USER MANUAL AND WARRANTY BOOK
BEFORE USING**



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WARNING

Whenever you ride the E-Twow electric two-wheel scooter you risk serious injury from collisions, falls or loss of control. To ride safely, YOU MUST READ AND FOLLOW ALL INSTRUCTIONS AND WARNINGS IN THIS MANUAL.

Check local laws and regulations to see where and how you may use your E-Twow scooter legally. Obey to all applicable laws for vehicles and pedestrians.

This manual includes basic operational instructions for the E-Twow scooter. It cannot cover all situations where injury or death may occur. OPERATORS MUST USE GOOD JUDGMENT AND COMMON SENSE TO DETECT AND AVOID HAZARDS AND DANGERS that they may encounter when riding the E-Twow. By using the E-Twow scooter, you accept of the inherent risks of operating this product.

FAILURE TO USE COMMON SENSE AND GOOD JUDGMENT AND HEED THESE WARNINGS CAN CAUSE SERIOUS INJURY. USE AT YOUR OWN RISK AND WITH APPROPRIATE AND SERIOUS ATTENTION FOR SAFE OPERATION. ALWAYS USE CAUTION.

SAFETY

1. The product is only for adults (above 18 years). Please do not carry two adults at the same time. Is not suitable for minors.
2. Always inspect the scooter prior to use. Properly inspecting and maintaining your product can reduce the risk of injury.
3. Please wear your safety helmet and other protective equipment when riding. Use an approved bicycle or skateboard helmet that fits properly with the chin strap in place and protects the back of your head. Local legislations may require riders of two wheel products to wear a helmet and other protective gear. Never ride the scooter barefoot or in open-toed shoes or high-heels.
4. Do not ride in traffic lane or unsafe roads and do not break local regulations.
5. Please exercise in wide areas, and ride only after you have a good control of the scooter. Please do not ride in traffic lane.
6. Do not make any dangerous actions when riding or riding with one hand. Keep your feet on the scooter.
7. Do not attempt to ride the scooter on stairs that are above 3 cm, it may overturn causing injuries and/or damages to the rider and/or scooter.
8. Highest speed is 30 Km/h. For your safety, please limit the speed to 20 Km/h. Please try to avoid using it at night, if needed, please limit the speed within 15 Km/h or less and turn the headlights on.
9. Do not use the scooter when the outside temperature is lower than 0°C.
10. Please slow down or get off from the scooter when riding in poor road conditions.
11. Do not ride the scooter in oily or icy surface terrain.
12. Please adjust the handlebar according to your height to ensure a safe riding.
13. To avoid damages of the electrical parts of the vehicle please do not immerse the scooter in the water with the depth of more than 4 cm and do not wash it with water under pressure.
14. For protection, please do not ride the scooter in bad weather such as heavy rain and high winds.
15. Do not drink alcohol and drive **E-Twow** scooter.

MAIN PARTS



1. Handlebar
2. Display
3. LED headlight
4. Hooter
5. Lock lever

6. Folding hook
7. Battery charging jack
8. Folding lever
9. Folding axel
10. Rear brake

FOLDING/ UNFOLDING STAGES

Folding stages



A – Unfolded



B – Folded handlebars



C – Fully folded

Folding steps

1. Open the **lock lever**, as shown in figure (a) and (b).
2. Press the **red button**, figure (c), at the same time press down handlebars as shown in figure (d) and push the **lock lever** to the lock position.
3. Hold the **handlebar** with both hands, push buttons shown in figure (e). Pull out the **handlebar** grips, figure (e), up to the maximum and fold downwards to maximum like in figure B, from above.
4. Push the **handlebar** forward when you press the **folding lever** in the direction of the arrow in the figure (f).
5. Continue folding the scooter until the **folding hook** reaches the **opening** located on the **rear brake**, as detailed in figure C from above.



(a)



(b)



(c)



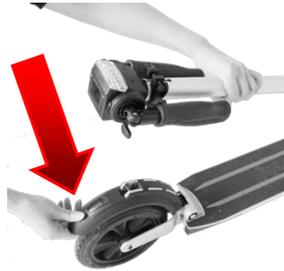
(d)



(e)



(f)



(g)

Unfolding steps

1. Press the **rear brake fender** in the direction of the arrow, as shown in figure (h), until the **folding hook** is released from the opening located on the rear brake. Then, lift the **handlebar** until it reaches the normal position and the **locking bolt** comes into place, like in figure (i).
2. Raise the two handles of the **handlebar** until they automatically return to the normal position, figure A.
3. Push the **lock lever** like is shown in figure (a) and (b) and lift the handlebars to the desired height. Now press the button shown in figure (c) and secure it in one of the two holes, as desired. Then close the lock lever and make sure that you always keep the lever secured and tightly closed.



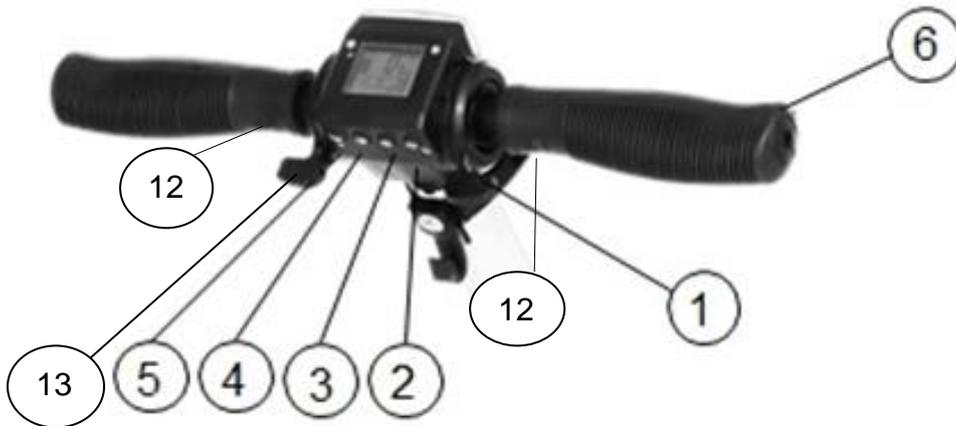
(h)



(i)

OPERATION

Basic instructions



1. Thumb accelerator
2. Switch button handlebar
3. Setting button
4. On/Off light button
5. Horn button
6. Handlebar
7. Square tube
8. Folding bar
9. Front fender
10. Battery front cover
11. Protection cover
12. Folding buttons
13. Thumb electronic magnetic brake



Operating Instructions

a) ON/OFF

Press the switch for 3 sec, and the display will light up, indicating that the power is on. Press for 3 seconds if you want to turn it off. The scooter will turn off if you don't use it for more than 3 minutes.

b) Speed control

Press the right thumb lever accelerator to control the speed (1-30km/h).

c) Breaking Control

Press the left thumb lever and the electronic magnetic brake will be activated. The more you press, the greater the braking force will be.

d) Horn

If you turn on the power, when pressing the horn button, it will honk.

e) LED Headlight

In manual mode: Press the On/Off Light button when needed and there will be a sign in display indicates the light is turn on. Press the button again when you do not need the light. Keep pressed for a few seconds.

The scooter is equipped with a sensor light that detects the need of light. The light will turn on automatically (auto light mode) if the sensor detects poor ambient light.

For example: when is cloudy weather and the auto light mode is on, the light turns on. If the daylight is proper, the auto light mode detects the light and the headlights will go off after 5 seconds.

On auto light mode, the display is also lighted depending on the ambient light.

If the scooter is on auto light mode, you can go to manual mode by pushing the On/Off Light Button until the sign "Auto" disappears from the screen.

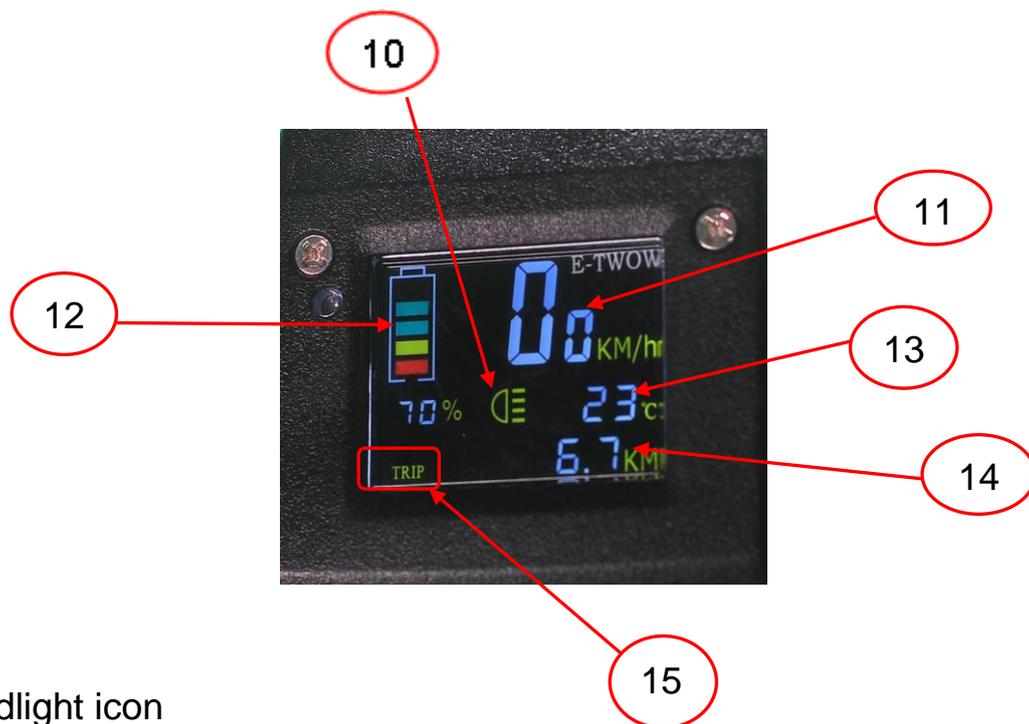
f) Mileage Show

When the display is powered, it displays 2 modes: total and trip. You can change it by pressing the settings button. In 'trip' mode, press the setting button (**S**) for 3 seconds and it will clear the trip.

g) Emergency

In an emergency, it's recommended to use the foot brake.

DISPLAY FACTORY SETTING



10 – Headlight icon

11 – Speed

12 – Battery

13 – Temperature

14 – Displays the total or trip distance

15 - Trip total (ODO) or total mileage from the last reset (TRIP)

MENU for SPEED LIMIT

a. To set up speed limit:

- Turn off the display
- Press and hold thumb brake
- Power the display

The display will show " L1"



b. Move to menu with button [LIGHT] L1-L2-L3-L4-L5

- To set up and save the speed limit, press button[SET]
- To finish the settings, release thumb brake.

- L1 = Limit the speed to 6 km/h
- L2 = Limit the speed to 12 km/h
- L3 = Limit the speed to 20 km/h
- L4 = Limit the speed to 25 km/h
- L5 = Limit the speed to 30 km/h

MENU for SETTING

a. To set up one of this program:

- Turn on display
- Press and hold thumb brake
- press the button [POWER]

The display will show: P1



b. Move to menu with button [LIGHT] P1- P2- P3

To set up and save the setting, press key [SET]

TO finish the settings, release thumb brake.

- P1 = Zero Start [ON/OFF]
- P2 = Cruise Control [ON/OFF]
- P3* = Acceleration [ON/OFF]

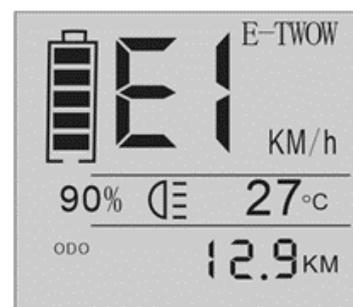
*P3 – Turns off the acceleration so that both handles become regenerative brake handles

ERROR CODE

E1 - Overcurrent protection (Motor does not move more than 4 seconds) - this error clears after release the acceleration throttle.

E2 - Communication error (No communication for more than 400ms) - this error clears when starting the communication.

E3 – Overvoltage error (Battery voltage higher) – this error clears if you put back the original battery.



RIDING OPERATION

Getting Ready!

1. Choose a suitable venue for riding.
2. Unfold the scooter in accordance with the instructions.
3. Adjust the T-pipe to the suitable height according to your height.

Start

1. Press the power button to turn on the power.
2. Stand one foot on the scooter and leave another foot on the ground.
3. Gently press down on the right thumb accelerator, the scooter will immediately move forward slowly. Place the foot which is on the ground on the scooter. With your right thumb press the right thumb accelerator. The bigger the pressure, the faster it will go.

Brake

1. **Electromagnetic brake** - pressing the left thumb electronic magnetic brake will activate the electromagnetic brake, which will power off the scooter and apply the brake. The more you press, the greater the braking force will be.

2. **Mechanic brake - E-Twow** also has a mechanic brake, which is activated by pressing with the foot on the rear fender. This also activates a sensor that stops the front wheel motor.

Cruise control – P2

This option allows the user to set and maintain a constant speed, without keeping the acceleration lever pressed. Press the acceleration right thumb and keep the same speed for 5 seconds and the cruise control will automatically begin. Then you can release the acceleration lever, and the scooter will continue cruising with the same speed. You can switch the function off easily as well, by pressing the brake or acceleration lever gently. The cruise control function is not activated by default, you need to activate it after the purchase of the scooter. This function can be activated or deactivated from the central control unit, according to the user's needs.

Zero start – P1

This function is designed for safety reasons. The option allows the acceleration to be activated only the scooter is first pushed with the foot and the wheel is in motion, ensuring that the acceleration lever is not actioned by mistake. The zero start function is not activated by default, you need to activate it after the purchase of the scooter. This function can be activated or deactivated from the central control unit, according to the user's needs.

Maximum Speed Limitation – L1, L2, L3, L4, L5

A lot of countries have a legislation that imposes a speed limitation for electrical vehicles. Once a maximum speed is set, the scooter won't exceed that speed. The maximum speed limit options are 6km/h, 12 km/h, 20 km/h, 25 km/h. This function can be activated or deactivated from the central control unit, according to the user's needs.

BATTERY AND CHARGER

Each **E-Twow** electric scooter is equipped with a special lithium polymer battery and a special smart charger. These accessories that come with each scooter have a dedicated number, please do not use the chargers from other brands. If the battery or charger will be damaged owing to these, our company will not be responsible. Also, each model has a different type of charger, as detailed below. Please do not use a charger from another model! (37.4V WITH 3.5A)

Battery

When you buy the **E-Twow** electric scooter, before the first use, please charge the battery fully. The E-twow battery can be charged at any point, and it is advisable to keep it as much as possible fully charged.

Warning: do not use batteries from other brands, it will not work with the **E-Twow** scooter.

Please charge the battery once every three months, even if you don't use the scooter, to maintain the battery fully functional and prolong its life span.

Water immersion, collisions, and other abnormal factors will lead to battery damages, which are not covered under warranty.

Charger

The company provides a dedicated charger which has a charging protection function: when the battery is 100% charged, the charger will automatically stop charging. Charging time is no more than 3 hours.

Water immersion, collisions, and other abnormal factors will lead to charger damages, which are not covered under warranty.

Charge Description

First connect the charger plug into the power socket. Then, open the rubber protective cover and put the charger connector into the scooter's charging socket.

The scooter is charging when the charger light is red, and the charger light turns green when the battery is fully charged.

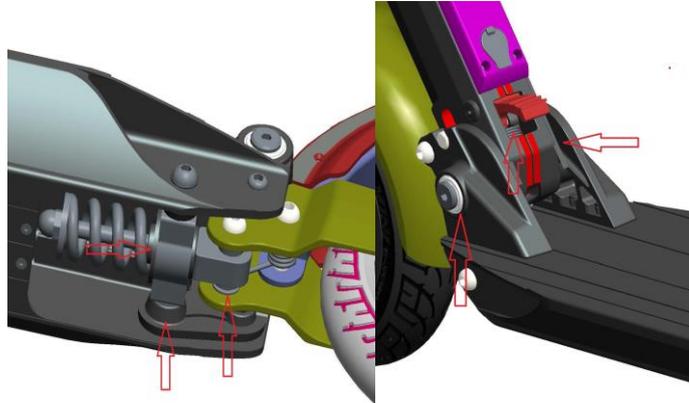


MAINTENANCE

Lubricating

Please add a small amount of grease or lubricants to handle folded position, rear shock absorber and all the joints of the scooter, every six months.

Please check the scooter' screws every three months to ensure they do not get loose.



Battery

The lithium polymer batteries provided by our company can be recharged at least 500 times, the normal use can reach more than 1,000 times.

Storage and care

Do not expose the scooter under the sun or wet places for too long time. Please store the scooter in a dry and warm environment, away from draft and moist, where the temperature is constant and at least 15 degrees. Please keep the scooter clean and dry.

For cleaning use a damp cloth and a mild detergent.

GENERAL TROUBLESHOOTING

Checklist

When the products have any problems, please refer to the following methods.

a) LED display black screen

Reason: Exposure under the sun for too long.

Solution: Place it in shadow and it will return to normal after a period.

b) Values from the display do not fit the actual values.

Reason: Parameters are set incorrectly or missing.

Solution: Please reset the display to the factory settings.

c) No information on digital display

Reason: Bad battery contacts or the battery is dead.

Solution: Turn off the power then restart again, if the problem still occurs, please contact your local reseller.

In case that the product still does not operate normally, please contact your local vendor or reseller.

PRODUCT SPECIFICATION SHEET

		BOOSTER PLUS
Specifications	Overall Expand Size	940*1160*135mm
	Overall Fold Size	940*330*150mm
	Scooter Weight	10.9 Kg
Capability	Maximum load	110 Kg
	Top Speed	30 km/h
	Grade Ability	25 degree slope
	Range (with fully charged battery)	max 35 Km
		The autonomy can vary according to the weight of the passenger, speed, slope degree, wind speed, road conditions, temperature and other factors
	Power Consumption	6.15Wh–7.5Wh/Km
The autonomy can vary according to the weight of the passenger, speed, slope degree, wind speed, road conditions, temperature and other factors		
Battery parameters	Type	Li-po Lithium Battery
	Capacity	33 V; 6,5 Ah
Motor parameters	Motor type	Brushless DC Motor
	Rated Output Max. Power	500W
Charger parameters	Input Voltage	110V/220V
	Charging time (charger)	1.5-2hr (3.5A)