



**CAROMA**

**LTG:8.5**

# USER MANUAL



This manual contains important information to help you use your product more safely.

# CONTENTS

General Guidelines .....	2
For User Important .....	3
Safety Guidelines .....	4
Product Specifications .....	5
Product Components .....	6
Safety Guidelines Before Riding .....	7
Unboxing .....	8
Handlebar Unfolding .....	9
Handlebar Folding .....	10
Charging & Range .....	11
Handlebar Controls .....	12
Control Panel .....	13-15
Maintenance & FAQ .....	16



## REQUIRED CHECK BEFORE RIDING



## WARNING!

Please read this manual carefully before using the product.

### CHECK THE SCOOTER BEFORE RIDING

1. Check that the control panel turns on.
2. Ensure that the brakes are working properly.
3. Check that the brake pads are not damaged or need replacing.
4. Make sure the seat is stable and secure.
5. Check that the horn is operating correctly.
6. Ensure the switch for Eco and Turbo mode switch are working normally.
7. Make sure the voltage value is within the normal range of 42V-54V.
8. Make sure the folding mechanism is in good condition and operational.

---

 **FOR USERS IMPORTANT**

Thank you for your purchase of the Lighting Folding Electric Scooter by CAROMA!

To ensure your safety and the safety of others, please read and follow the guidelines in this user manual carefully and thoroughly before and during riding.

If you have any questions regarding the Lighting, please contact our service team by mail for further assistance.

team mailbox: [caromaservices@outlook.com](mailto:caromaservices@outlook.com)

Happy Riding!

The CAROMA Team



## SAFETY GUIDELINES

### SAFETY PRECAUTIONS

1. Always wear a helmet and knee and elbow pads when riding.
2. When first riding the scooter maintain a low speed and slowly increase speed as riding skills improve.
3. Do not ride the scooter on rainy days.
4. Riding through puddles is not recommended.
5. Children under the age of 16 are prohibited from riding.
6. The handlebar should be adjusted to an appropriate and comfortable position.
7. When going downhill, ensure you are driving slowly to avoid accidents.
8. Obey all traffic rules.
9. Ensure all screws are in condition and appropriately fastened.



## PRODUCT SPECIFICATIONS

### CAROMA LIGHTNING SPECS

NET WEIGHT	65 LBS
SIZE	49*46*24 INCH
CHARGING TIME	8H
WHEEL DIAMETER	8.5 INCH
MAXIMUM SPEED	34 MPH
LOAD CAPACITY	MAX 280LBS
LITHIUM BATTERY	48V 18AH
MOTOR	1600W



## PRODUCT COMPONENTS

# LIGHTNING



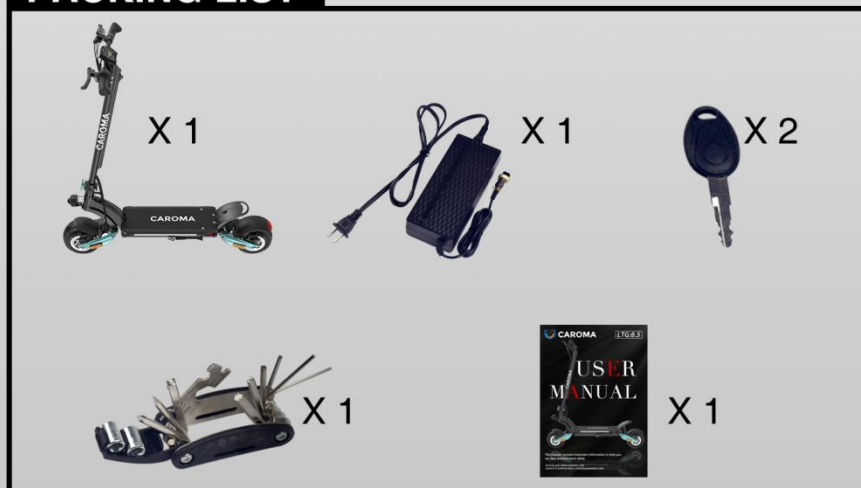


## SAFETY GUIDELINES BEFORE RIDING

### CHECK THE FOLLOWING PARTS OF THE PRODUCT AFTER UNBOXING

1. Check if there is a tool kit.
2. Check for a charger.
3. Check if there is a voltage lock key.
4. All nuts and screws should be tight.
5. Seat (if available).
6. Test the brakes.

### PACKING LIST

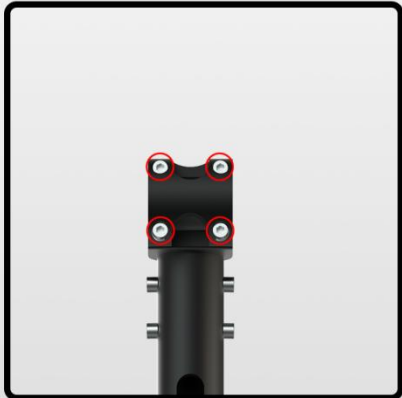






## UNBOXING

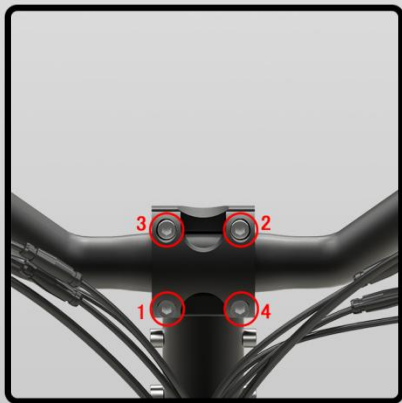
### HANDLEBAR ASSEMBLY



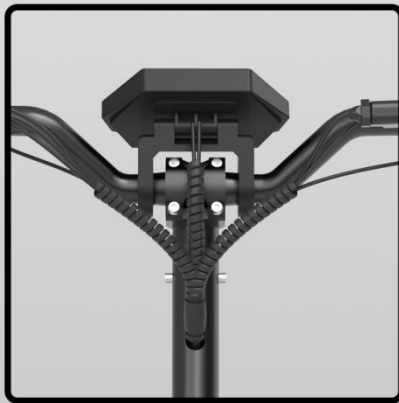
① Loosen the screws on the handle mount with a 4mm hex wrench, which is included in the basic tool kit.



② After aligning the handlebar with the center mount, replace the cover mount, and tighten the fixing bolt.



③ Progressively tighten the bolts in sequential order (1 to 4), ensuring equal tension balance between the mount and handlebar.



④ Installation complete.



## SCOOTER UNFOLDING

### HANDLEBAR UNFOLDING



① Push the handlebar in the direction of the arrow.



② Align the L-shaped buckle with the grooves, then tighten the folding knob.



③ Make sure to perfectly align the L-shaped buckle.



④ Unfolding complete.



## SCOOTER FOLDING

### HANDLEBAR FOLDING



① Loosen the knob in the direction of the arrow.



② Keep loosening the folding knob until the J-shaped buckle completely leaves the grooves



③ Lower the handlebar.



④ Folding complete.



## CHARGING & RANGE

NOTE: When connected to the charger, the red light indicates that the scooter is charging. The light will turn green when fully charged.

Be sure to close the charging port cap when driving or storing except when charging. Use only genuine chargers.

The range of the scooter depends on many factors: road conditions (off-road, uphill), weather, rider's bodyweight, frequent braking and acceleration, single/dual drive, gears 1/2/3 etc.

## POWER TURN ON/OFF

- 1 Press and hold the power button to power on.
- 2 Put the card close to the center of the meter(NFC sensing area), to get alightup screen. It is important to read these instructions before using NFC for the first time.

1

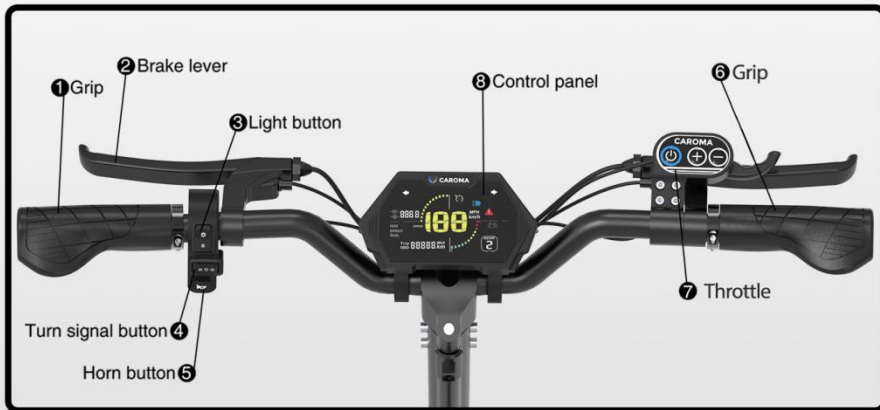


2





## HANDLEBAR CONTROLS



Lcd Control Panel



Horn Button



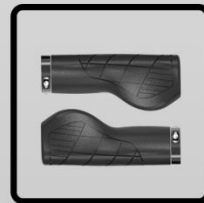
Light Button



Turn Signal Button



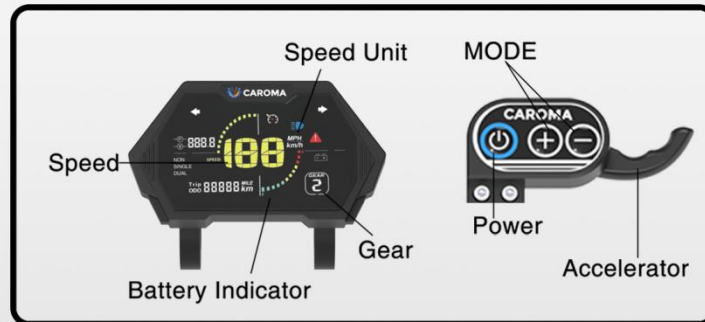
Throttle



Grip

## CONTROL PANEL INSTRUCTIONS

### CONTROL PANEL



#### Power on and off

Press and hold the POWER switch button to power on. After starting up, put the card close to the center of the meter (nfc sensing area), and the meter will display normally. Press and hold the POWER switch button again, or swipe the card again to turn off.

#### Key operation

Short press the POWER switch button to switch between displaying single mileage and total mileage. Double-click the POWER switch button to switch between displaying the current voltage and real-time POWER. Short press the POWER " + " button on the dial, the gear will increase. Long press the POWER " + " key to switch between single and dual drives, and the instrument display will switch between "Single" (single drive) and "Dual" (dual drive). Short press the POWER " - " button, the gear will decrease. Long press the POWER " - " button, "Speed" flashes, the scooter will limit the speed to 25 kilometers, and repeat the operation to release the speed limit.

## PARAMETER SETTINGS

Press and hold the (+) and (-) keys simultaneously  
Enters the mode settings menu. A short press of POWER will change the parameter item. Once the desired parameters are reached,  
Press and hold (+) or (-) to adjust the parameter value. A short press of the (-) key will decrease the value, and a short press of the (+) key will increase the value. After the modification is completed, press and hold the (+) and (-) keys at the same time to save the value and jump to the initial interface.

One speed limit: Long press POWER to enter the speed limit (the speed is less than 25KM/H), and long press POWER again to release the speed limit.

### FOR EXAMPLE

#### How to disable EBS (Electric Braking System)

Press and hold both the POWER(+) and MODE(-) key simultaneously to enter the settings, and short press (+) or (-) until P9 is displayed. Then hold POWER to select P9, short press (+) or (-) to change it to 0. Then long press MODE to save the changes.

Parameter settings and definition		
P00	Wheel diameter selection: 5-24	Default=8.5
P01	Voltage:(36V/48V/60V/72V)	Default=48
P02	The number of pole pairs of the motor: 10-50	Default=30
P03	One key to restore the factory P value (Press and hold the + button to restore the factory settings of the meter)	
P04	Kilometer (km)/mile (mile): 0 or 1	Default=1 (mile)

P05	Zero start non-zero start: 0 or 1	Default=0 (non-zero)
P06	Cruise selection: 0 or 1	Default=0 (no cruise)
P07	Soft Start/ Hard Start: 0 or 1	Default=0 (Soft Start)
P08	Speed limit selection: 5-100	Default=100
P09	ABS strength selection: 0 weak - 2 strong	Default=1 (Moderate)

## COMMON ISSUES AND SOLUTIONS

Issue 1: Both the light and horn are not working. This happens when the headlight is defective and is solved by replacing the headlight.

Issue 2: The scooter is not charging. The issue may be with the charging port. If the charging port is burned out, it will require replacing. The other may be that the charger is damaged. In either case, please contact customer service via e-mail to receive a solution.

Issue 3: The brake pads produce abnormal sounds. Generally, this is due to malposition. Please use the tool kit and adjust to the correct place.





## MAINTENANCE & FAQ

The screws should be regularly maintained, inspected and tightened. Especially the screws on the folding mechanism, brake system and motors (axle nuts).

1. Tighten the folding mechanism screws, handlebar, front & rear shock absorbers, front & rear wheel axle nuts.

2. Brakes: if you find rust or excessive wear on the brakes, which will occur with regular use over time, the brake pads and brake discs should be replaced.

3. Motor: Check the motor wires regularly. All exposed wires should be wrapped with electrical tape.

4. Tires:

(1) Do not inflate the tires beyond the recommended air pressure range.

(2) The tires will slide easily in wet conditions. Avoid rain, snow, icy road, wet dirt road, water, poor visibility.

(3) Replace the tires on your scooter once wear patterns become evident. This will prolong the use of the scooter.

5. Speed limit removal: please go to P8 and then press the "M" button for 1 minute until you go back to the main menu.

6. Battery & overheat protection: the controllers and the battery has temperature sensors and the scooter stops working when it gets too hot. Please wait about 0.5-2 hours to cool down the scooter or use eco/1st gear to continue riding after 5-10 minutes.