

ELECTRIC SCOOTER MANUAL

ES23



English version user manual: <http://www.topmate.cc/user-manual/ES23.pdf>
Spécification de la version française: <http://www.topmate.cc/user-manual/ES23.pdf>
Manual de Usuario en Versión Española: <http://www.topmate.cc/user-manual/ES23.pdf>
Deutsche Versionsspezifikation: <http://www.topmate.cc/user-manual/ES23.pdf>
Versione manuale italiana: <http://www.topmate.cc/user-manual/ES23.pdf>
日本語版説明書: <http://www.topmate.cc/user-manual/ES23.pdf>

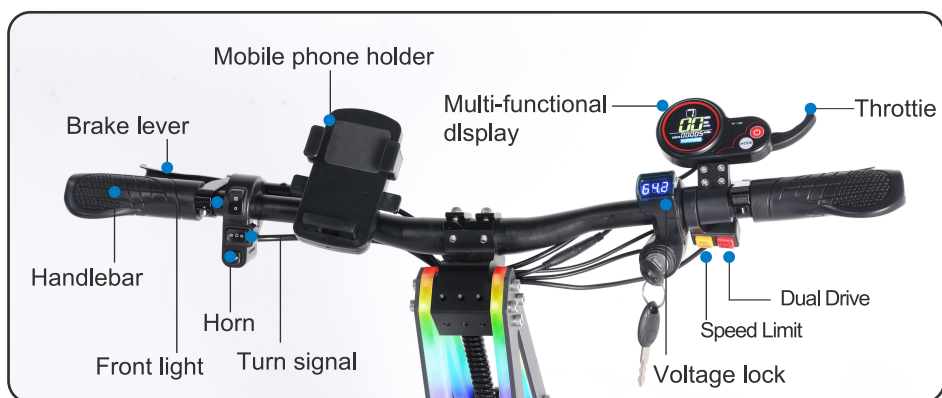
WARNING!

Please do the following checks before riding:

- 1) Make sure the meter can be turned on properly.
- 2) Make sure the brakes are normal.
- 3) Make sure the front bar is stable and all screws are tightened.
- 4) Make sure the seat is firmly installed.
- 5) Make sure the horn is working properly.
- 6) Confirm that the lighting system is working properly.
- 7) Make sure the single and dual drive (SINGLE/DUAL) switch is normal.
- 8) Make sure the Eco and Turbo modes are working properly.
- 9) Make sure the folding system is normal.
- 10) Check the brake pads.

SAFETY PROTECTION MEASURES

- 1) Please make sure to wear a helmet, elbow pads, knee pads and other safety equipment before riding.
- 2) For the first time, please choose low speed single drive, slow throttle, and gradually accelerate when you are skilled.
- 3) Adults only.
- 4) Be sure to confirm that the brakes are normal.
- 5) Adjust the stem to a suitable height.
- 6) Make sure all screws are tightened.
- 7) Do not charge in a sleeping or unattended environment.
- 8) Only use the original charger for charging.
- 9) Do not modify the vehicle.
- 10) Obey the traffic rules.



Notice:

- 1) Some accessories need to be purchased separately.
- 2) The configuration of different models is slightly different.

CHECK THE ACCESSORIES

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Please confirm receiving of the following accessories:



Multifunctional tool set



Charger



Keys



Seat



A manual



An electric scooter



Light remote control

ASSEMBLY TUTORIAL

Step 1



Take the scooter and accessories out of the package.

Step 2



Put the handlebars in place and tighten the screws to secure it.

EXPAND TUTORIAL

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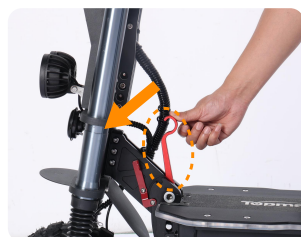
Step 1

- 1 Press the positioning lock of the scooter down.
- 2 Lift the front of the scooter.



Step 2

Fully unfold the scooter.



Step 3

After unfolding the scooter, please securely lock the folding latch.

INSTALL THE CUSHION



Step 1

- 1 Press the seat cushion fastener.
- 2 Lift the seat bracket.



Step 2

Lock the seat cushion fastener to secure the seat bracket.





Step 3

- 1 Install the cushion
- 2 And adjust the appropriate position to fix.

MULTIFUNCTION INSTRUMENT

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- 1) POWER SWITCH: Power button (press  for 3 seconds to turn on the instrument)
- 2) GEAR: Display the current gear (gears: 1/2/3)
- 3) SWITCH GEAR: Short press  button to adjust the gear1 - gear 3
- 4) SPEED: Real time speed
- 5) SPEED UNIT: Speed unit
- 6) ODO: Total mileage
- 7) BATTERY VOLTAGE: Battery power
- 8) Accelerator: Throttle

Note:

Please note that the battery power displayed on the instrument may be errors in actual use. Please pay attention to the real-time voltage on the voltmeter to determine the specific battery power.

MULTI-FUNCTION INSTRUMENT DISPLAY

Multi-function Instrument: The gauge will display numbers to determine the condition of your scooter.

- | | | |
|---------------------------------|-----------------------------|---------------------------------|
| 0) Means normal | 2) Means brake failure | 4) Means 6km/h cruise |
| 5) Real-time cruise | 6) Battery undervoltage | 7) Motor failure |
| 8) Throttle fault | 9) Controller fault | 10) Communication receive fault |
| 11) Communication sending fault | 12) BMS communication fault | |

POWER SWITCH ON/OFF

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- 1) Insert the key and turn it to the working position to turn on the voltmeter.
- 2) Press and hold the POWER button on the instrument for 3 seconds until the power is turned on.
- 3) Turn the key to the OFF position to turn off the voltmeter.
- 4) Press the POWER key for 3 seconds to turn off the instrument.



ECO TURBO/SINGLE DUAL KEYS

- 1) The red button **SINGLE DUAL** is the single & dual drive switch button.
- 2) The yellow button **ECO TURBO** is the speed limit and high speed switch button.

Note:

- 1) It is recommended for first time to ride in single drive and speed limit mode. After the low speed proficiency, you can choose the dual drive and high speed mode under the premise of safety.
- 2) Single drive mode is rear drive.
- 3) Please note that the range varies according to different driving modes, loads, braking times, weather or road conditions. If you want to ride longer distance on a single charge, we recommend you to use the single drive low speed mode.
- 4) If you hear an abnormal sound from the motor while riding, please stop riding immediately to check your scooter.
- 5) Please use the dual drive mode when climbing a hill.
- 6) Please note that the maximum speed is measured under the condition of full charge, flat road, 70kg load and 25 degree Celsius.

PRODUCT PARAMETERS

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Product specifications	Size	Folding 136*70*53cm Unfolding 129*70*131cm
	Wheelbase	101cm
	Weight	55.5KG
Product performance	Maximum load	150KG
	Maximum speed	90Km/h - 55Mile/h
	Climbing angle	50°
Battery parameters	Battery type	Lithium - ion power battery
	Standard voltage	60V
	Battery capacity	25Ah-1500Wh
	Battery range	46 - 50Mile
Motor parameters	Motor type	DC brushless motor

Motor parameters	Number of motors	Dual motros
	Motor power	60V 800W*2
	Maximum speed	1750 RPM/Min
	Standard voltage	60V
	Torque	More than 32N.m
Controller	Dual controller	Dual controller
	Standard voltage	60V
	Output current (max)	39A*2
Charging parameters	Input voltage	AC100-240V
	Output current	3A
	Charging time	8H (Single charger)
Tire	Tire type	Pneumatic off-road
	Tire size	11 inch
Suspension	Suspension	Front and rear suspension
Brake	Brakes form	Front and rear oil disc brakes+EABS
Lights	Bright LED headlights	18W*2
	Rear lights	Brake light
	Turning signal	Left + Right

CHARGING OPERATION

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Battery charging:

- 1) Open the charging port cover.
- 2) Insert the DC end of the charger into the scooter charging port.
- 3) Plug the AC end of the charger into a wall outlet.

Note:

- 1) Must use the original charger charging.

- 2) The scooter is equipped with 2 charging ports, 2 chargers are available for charging at the same time. But we recommend using a single charger for charging, which can extend the battery life.
- 3) Do not charge indoors or in unsupervised conditions.
- 4) The standard battery capacity is based on 25°C, the capacity of the battery will decrease according to the temperature drop.
- 5) Please do not charge below 0°C.
- 6) Please note that the 60V electric scooter has an undervoltage of 52V.

FREQUENTLY ASKED & QUESTIONS

Can't start:

- 1) Please check if the battery is running out of power.
- 2) Open the pedal to check if the battery fuse is loose or blown.
- 3) Open the cover to check if the throttle cable and controller cable are loose.
- 4) Check if the connection cable between the battery and the controller is loose.

Can not be charged:

- 1) Plug in the charger and check if the charger light is working.
- 2) Open the pedal to check if the battery fuse is loose or blown.

Can't accelerate:

- 1) Make sure the brake handle is in place.
- 2) Check if the connection wire between the battery and the motor is loose.

Only one wheel is turning (dual drive):

If only one wheel is rotating in the dual drive mode, you can check whether it is a motor problem or a controller problem. The method is to adjust the front and rear controller motor line and Hall line.

WHEN RECEIVED THE GOODS



About assembly:

Parts of more than 95% of the scooter are assembled at the factory, and needs you to finish the back assembly. Because this will ensure the safety of the product during transportation. For safe riding, it is important to check that all parts are firmly installed before riding. If you encounter any problems during assembly or riding, please contact your us for free.

Damage or Scratches:

In order to avoid damage in transit, the whole scooter is protected by foam and packed with double cartoon. If you find any damage after receiving the goods, please take photos and send them to us. We will provide you with a solution. If there are scratches on the body, you can repair them with spray paint.

Man-made damage:

If the damage is man-made, you can contact us to purchase replacement parts.

PRODUCT MAINTENANCE

- 1) Please fully charge the battery before the first use, and charge it after each use.
- 2) Please check the status of the battery frequently. If you do not ride for a long time, it is better to recharge it regularly and timely.
- 3) Do not ride in rainy days and places with water.
- 4) It is forbidden to disassemble and modify the scooter by yourself
- 5) If the braking ability decreases, please check if there is a shortage of brake fluid. If so, please add brake fluid. If you hear abnormal braking sound after adding oil, please replace the brake pads.

- 6) If you find that the wheels are badly worn, please replace them in time.
- 7) Please always check if there are any loose screws on all parts. If that happen, please tighten them in time.

AFTER SALES SERVICE

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Product after-sales service:

We provide product after-sales service. If there is a quality problem with the scooter, please feel free to contact us. We will provide you with professional and timely service.

Under normal use, we provides 1 year warranty for the following parts (subject to the date of the factory label): motor, instrument, charger, controller, battery, and body. Please note that the following cases are not covered by the warranty.

1. Not maintained in accordance with the normal instructions.
2. Man-made damage.
3. Force majeure damage.
4. Other cases, we will make professional judgment.

WARNING!

If you need after-sales, you need to provide after-sales card or purchase certificate, please keep it properly.

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