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VT1

USER MANUAL



ENGINEERED BY ELECTRIC

Read this manual completely and carefully before using the vehicle.



PREFACE

This product has been designed as eco-friendly.



Safety, maintenance, basic storage directives are included in this user manual.

- 
- High efficiency direct current brushless motor
 - Digital smart driver with low voltage protection
 - Circuit stopper brake switch for safe riding
 - Long distances and high performance with high capacity battery
 - Fun and comfortable riding with high quality suspension system
 - Motorcycle equipment conforming European standards



This user manual belonging to your vehicle shall become an essential part of your life. Make sure that you receive it together with the vehicle you have purchased.



When there is a problem with your vehicle, do not use spare parts other than the original spare parts provided by authorized service.



The images and technical details provided with this manual may not completely represent the vehicle you have purchased. The main purpose of this user manual is to present the product and ensure its safe usage.



CAUTION

- In accordance with the legislation of some countries, there is a minimum age of usage for this vehicle and you need to have some kind of licence for it. In such cases, in order to use the vehicle you have purchased, please ensure that you are conforming the requirements designated by the legal legislation of the country you are living.

- Do not remove, change or modify any part of the vehicle without the approval of the authorized service. Actions taken without the approval of the authorized service shall corrupt the originality of the vehicle and it shall be out of the scope of warranty. Please conduct all modification in the authorized service spots.

 **WARNING** - These titles have been written so that the product will not cause any deadly accidents and personal harm.

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Thank you for choosing our product.
We hope you enjoy your electric kick scooter.

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1. DEVICE AND ACCESSORIES

Product



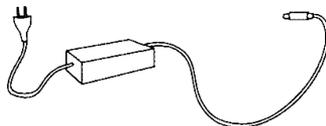
Accessories



Screws x 4



Allen
Key x 3



Charging
Adapter

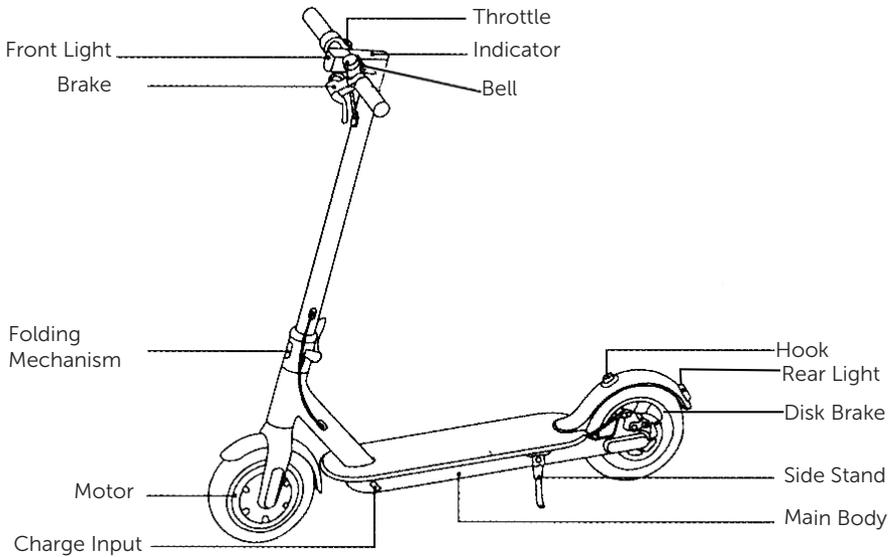


User
Manual



Spanner

2. FUNCTIONS



Indicator

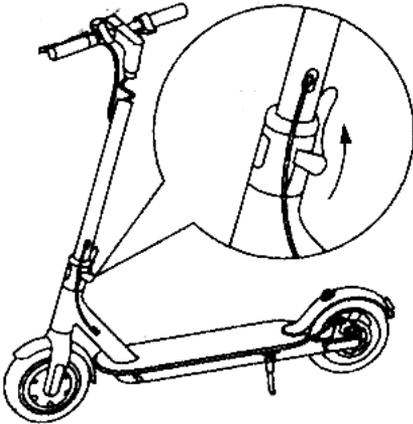


There are 4 Led lights on control panel. These lights show the battery level. 4 lights being on at the same time signifies that battery is full, 3 lights being on at the same time signifies that battery is at 75% power, 2 lights being on at the same time signifies that battery is at 50% power, 1 light being on at the same time signifies that battery is at 25% power or lower. Lower Led light can be white or green. While the vehicle is being used the lower Led light will be white. While the vehicle is on economical mode, it will be green.

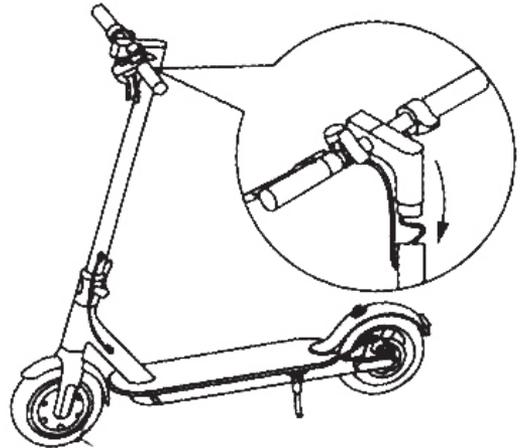
In economical mode, the vehicle has lower maximum speed. At the same time, they gain speed more lightly. Economical mode is better suited for beginners.

3. ASSEMBLING THE VEHICLE

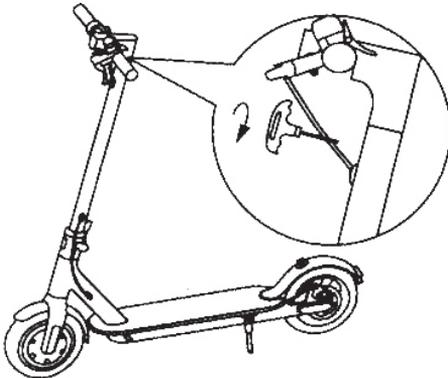
1- Place the handle connection pipe and press the folding pin



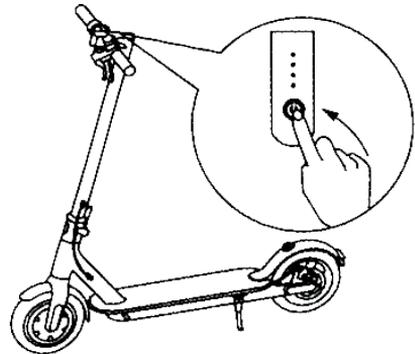
2- Place the handle vertically



3- Fix the screws on the handle with the allen wrench you got from the box



4- When the assembling is complete, press the power button the control that vehicle is working



Power Button

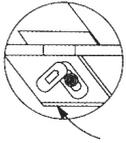
In order to start the vehicle, press the power button and hold it for 2 seconds. In normal mode, press the power button 2 times for economical mode, in economical mode, press the power button 2 times for normal mode.

4. CHARGING THE VEHICLE

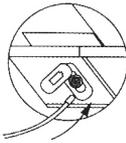
Charging duration of your battery is 3-4 hours. This duration is required for the full charging. Depending on the power level of your battery, your charging duration will vary. For example, after using the 50% of the power of the battery, your battery will be fully charged in 2 hours.

Charging your vehicle for more than 6 hours may result in your battery overheating or swelling. Batteries charged for prolonged durations may cause fire or even explosions. Please, do not charge your vehicle for more than 6 hours. If your battery isn't full after a 6 hour charging duration, please contact the nearest authorized service. Charging durations longer or shorter than the normal duration may indicate that your battery is broken. Please contact the nearest authorized service.

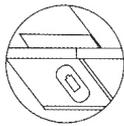
Even if you do not use your battery for long durations, its power will be depleted by the electrical parts of the vehicle. Even if you don't use the vehicle at all, please charge it at least once a month. Batteries not charged for prolonged periods may result in decreased battery capacities. This will cause your duration of riding to decrease.



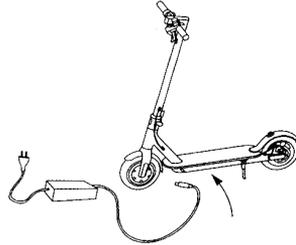
Open the charging lid



Plug charging device

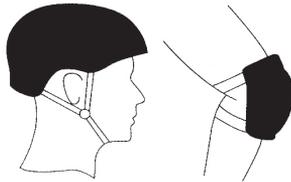


Close the lid after charging

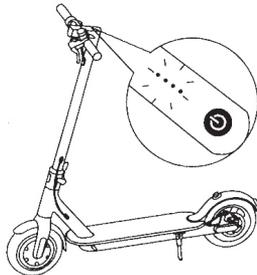


5. RIDING INSTRUCTIONS

Please wear helmet and knee pads

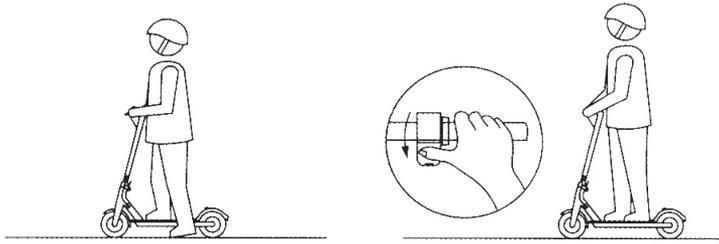


1. Turn the power on, check the battery power on the indicator.



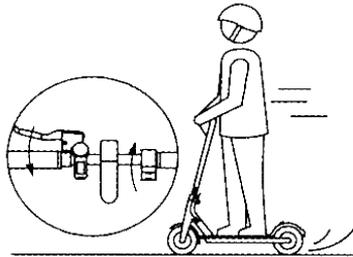
5. RIDING INSTRUCTIONS

2. While your one foot is on the ground, push yourself forward with your other foot..

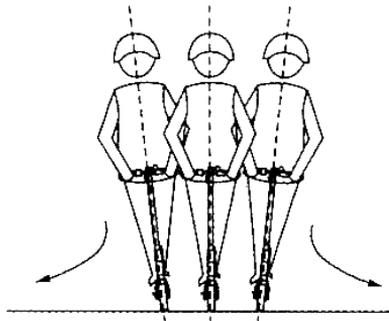


3. After the vehicle has gained some speed, place the foot on the ground, onto the vehicle and use the throttle arm. In order for your vehicle to gain speed, its speed needs to be higher than 5 km/h.

4. When you stop using the throttle arm, energy recovery system will automatically slow your vehicle. Additionally, this system will charge your vehicle to some degree while slowing it at the same time. If you want to hard stop, use the break arm.



5. While turning to left, lean your body slightly to the left, while turning right, lean your body slightly to the right. Slowly turn the handle towards the direction which you want to go.



6. INSTRUCTIONS FOR SAFE USAGE

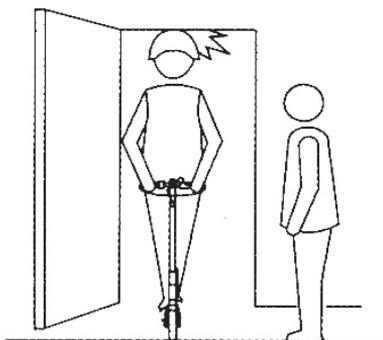
It is advised that you should not use the vehicle under the rain



For a more balanced riding, it is advised that you should ride the vehicle while slightly bending your knees on rough floors. On such roads, keep your speed between 5 and 10 km/h



Keep your head safe in places with short entrances

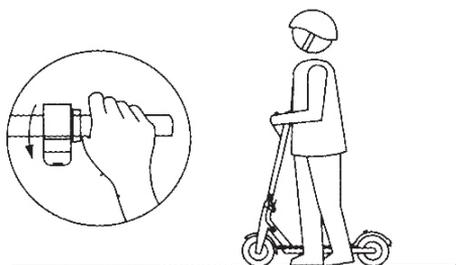


Do not increase your speed while going downhill

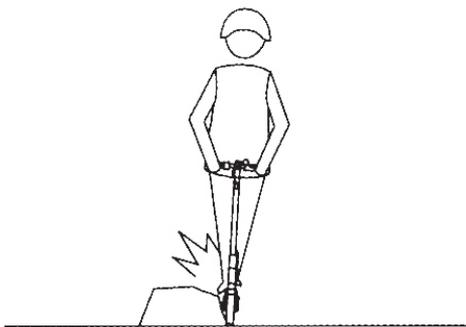


6. INSTRUCTIONS FOR SAFE USAGE

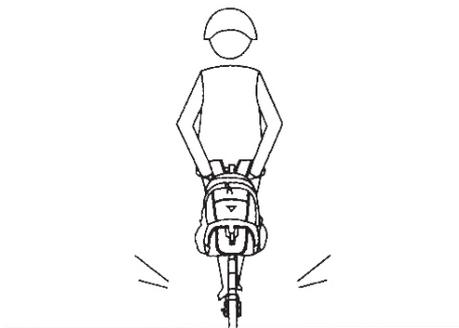
Do not accelerate the vehicle while you are walking with vehicle



While riding the vehicle, do not go over the obstacles, go near them



Do not hang heavy items from the handle



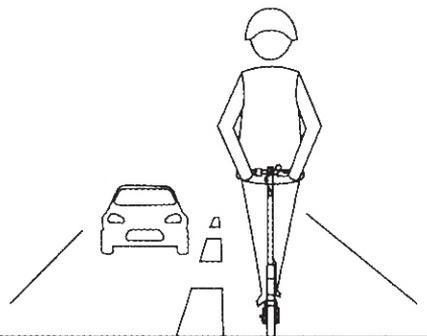
While riding the vehicle, make sure that both of your foot are on the main chassis



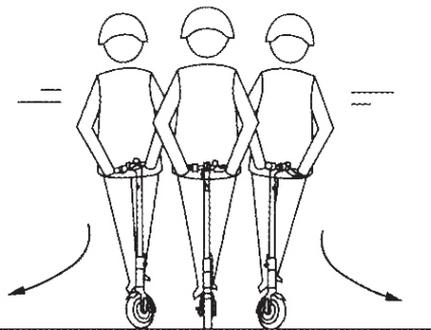
6. INSTRUCTIONS FOR SAFE USAGE

Preventing Dangerous Riding

Do not use the vehicle on highways



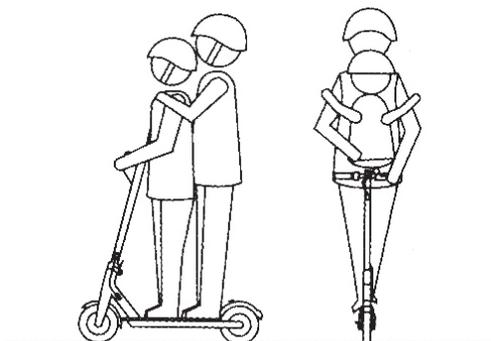
Avoid crowded walking roads and sharp turns



Do not go in the water pools deeper than 2 cm. Water pools deeper than 2 cm may result in your motor, driver or battery broken

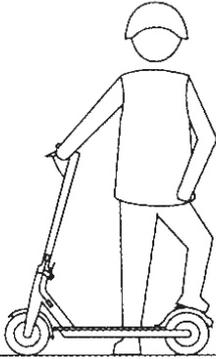


Do not use the scooter with more than one person

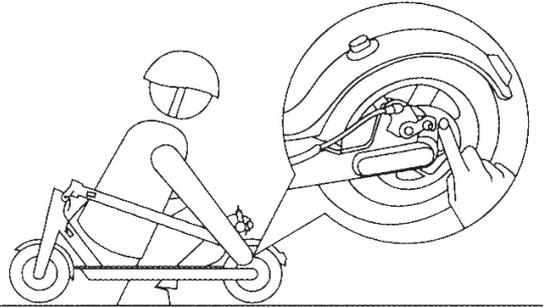


6. INSTRUCTIONS FOR SAFE USAGE

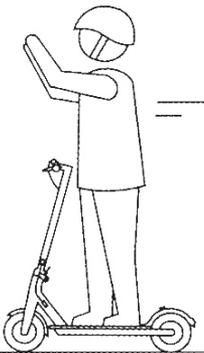
Do not press on top of rear fender



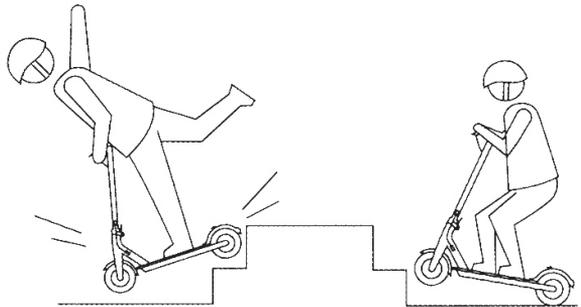
Do not touch the disk brake after usage. Disk brake will get hot after usage



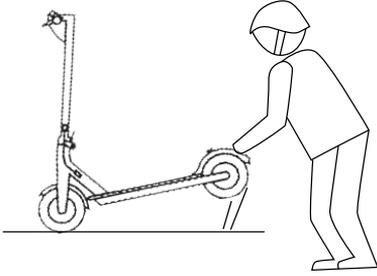
Do not let your hands free while riding



Do not climb to or jump down from obstacle while riding



6. INSTRUCTIONS FOR SAFE USAGE



Do not lift your electric kick scooter from the rear mudguard.

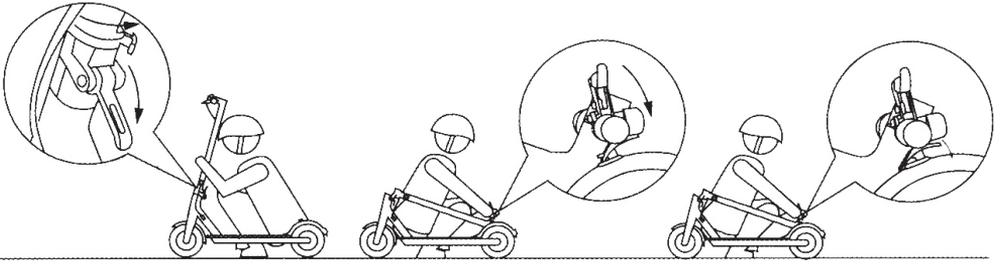


Safety Suggestions

- 1) Electrical kick scooter is a device designed only for entertainment purposes. It is not a highway vehicle. However, there are some risk using the vehicle in public. For the safety of yourself and your environment, please follow all the instructions stated in this user manual.
- 2) Always be careful about the floor types on which you have never rode before and make sure to choose the appropriate speed.
- 3) You need to respect the rights of the passengers while riding the electrical kick scooter. Do not frighten the passengers, especially children. Lower your speed as much as you can while passing near the passengers. If you are going towards the same direction as the passengers, make sure that you stay to the left of them as much as you can (For left hand traffic countries). If you are moving towards the opposite direction, stay on the right of them and slow down.
- 4) You should absolutely follow the traffic regulations of your country. At the same time conform the safety instructions and suggestions stated in this manual.
- 5) In order to prevent personal harm, do not let the people who don't know how to use it, to use your electrical kick scooter. While giving your electrical kick scooter to other, inform them about how to use the vehicle. Make sure that they are wearing right safety equipment.
- 6) Before each usage, check your electrical kick scooter. If there are any loose parts, low air pressure of wheels, empty battery, unusual noises while turning or other conditions, please stop using it immediately. Do not use your electrical kick scooter before tending to those faults.

7. FOLDING AND TRANSPORTING

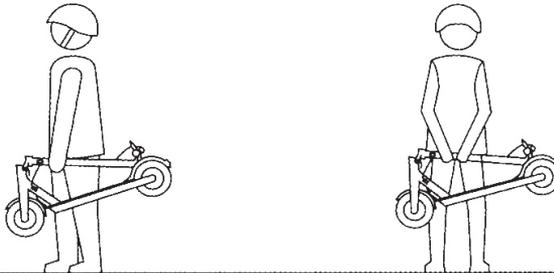
Folding



Make sure that the scooter is off. Hold the handle, open the folding pin and lower it to the back. After lowering it to the back, use the special hook placed on top of rear fender. In order to unfold your scooter, separate the handle from the hook and place it vertically and press the folding pin.

Transporting

You can carry your scooter as shown below.



8. MAINTENANCE AND STORAGE

If you see any dirt on your electrical kick scooter, you can slowly wipe it off with a damp cloth. Additionally, you can use toothbrushes. If there are scratches on the plastic parts of your vehicle, you can remove the scratches by using thin sand paper.

 **WARNING** Do not use alcohol, oil, gas oil or other corrosive and flammable solutions to clean your scooter. Otherwise, serious damages can occur on your scooter.

Do not wash your scooter with high pressure water.

Make sure that your scooter is of while washing it.

Do not turn on the power of your vehicle before making sure that it is hundred percent dry. If your plugged charging device gets in contact with water, you can get shocked. Please, after each charging, first remove the charging device from the scooter, then from the plug. Keep your charging device in a safe and dry spot.

If you are not using your scooter, you can store it in a dry and cool environment. Do not let your vehicle stay under the sun for prolonged periods. Too high or too low temperatures may result in your vehicle deteriorating rapidly and your battery lifespan decreasing.

Battery Usage

- 1) In order to prevent dangerous incidents, do not use the batteries of other brands
- 2) In order to prevent shocking, do not open the battery or try to remove it. In order to prevent short-circuit, do not touch the battery with metal objects. This can break the battery and may result in you seriously harmed.
- 3) In order to prevent any failures of your battery and your vehicle from getting burned, please use the original charging adapter you receive with your vehicle.

8. MAINTENANCE AND STORAGE

4) Your batteries are recyclable. Please return the broken batteries to the authorised service spots.

5) By charging the scooter after each usage, you can extend its usage lifespan. Do not let your battery in environments with temperatures higher than 50°C or lower than -20°C. Keep it away from fire. High temperatures may result in your battery burnt out.

If you do not use your scooter for 30 days, charge your vehicle and store it in a dry and cool environment. Scooters not being used for more than 30 days and not being charged shall have decrease battery lifespan.

When applicable, when the power of the battery goes below 20%, it should be charged.

Scooters used in room temperature will have extended usage durations and greater performance.

Your usage duration and performance will decrease in temperatures lower than "0" degrees. In temperatures lower than 20°C, half of the expected usage duration, or lower, will occur.

NOTE:

A fully charged scooter, in off mode, shall be chargeable for a duration of 120 and 180 days. If you keep your vehicle off for more than 120 days, your vehicle may not turn on. Battery failures as a result of such conditions will be out of the scope of warranty.

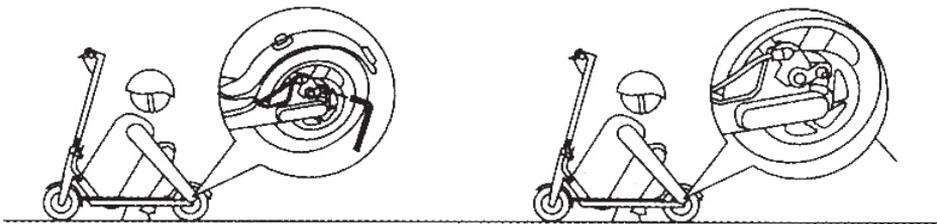
8. MAINTENANCE AND STORAGE

Disk Brake Setting

If the break is too tight, by using an allen wrench, slowly untighten the screw by turning it in the opposite direction of clockwise.

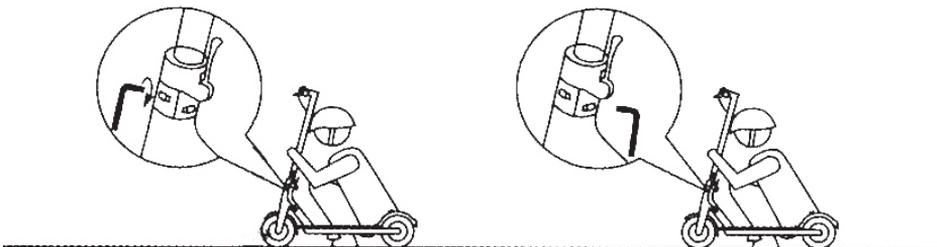
Shorten the size of the break cable. After that, tighten the tightener.

If you think that the break is too loose, extend the break cable and tighten the tightener.



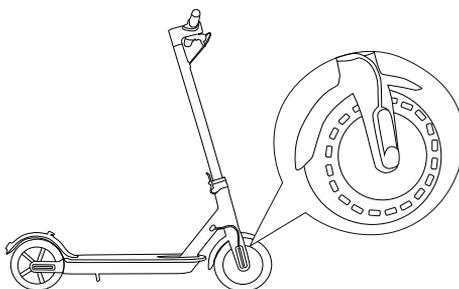
Brake Settings

If you have problems while turning, tighten the two screws next to the folding pin with an allen wrench.



Honeycomb Solid Tires

Thanks the solid tire structure used, these tires do not puncture and are designed to be minimally affected by vibrations while driving.



9. TECHNICAL SPECS

Usage Parameters	Name	VT1
Dimensions	Length x Width x Height[1] (cm)	106 x 42 x 114
	Folding :Length x Width x Height(cm)	106 x 42 x 48
Weight	Gross weight	12.5kg
Conditions	Max load	150
Main Parameters	Max speed(km/h)	25
	Range(km)	20
	Climbing Capacity(%)	11
	Applicable Areas	Normal road floor, Normal dirt floor, Obstacles smaller than 1 cm Pools shallower than 2 cm
	Working Temperature Range (°C)	10-40
	Storage Temperature Range(°C)	0-45
	Water Resistance Level	IP54
Battery Parameters	Nominal Voltage (VDC) (VDC)	36V
	Max Charging Voltage (VDC)	42V
	Nominal Power(Wh)	200
	Smart Battery Management System	Smart BMS, Low voltage, short circuit, Automatic sleeping/waking, High temperature protection, Battery usage control system
Motor Parameters	Nominal Power(w)	250
	Max Power(w)	550
Charging Device Parameters	Nominal Power(w)	71
	Nominal Nominal Input Voltage (VAC)	100-240B
	Nominal Output Voltage (VDC)(VDC)	42V
	Nominal Current(A)	1.7
	Certificate	CE
	Charging Duration (h)	3.5 Approx

10. EXISTENCE OF HARMFUL AND TOXIC SUBSTANCES

Name	Toxic and Harmful Substances					
	Led	Mercury	Cadmium	Chromium	PBB	PBDE
Power Adapter	X	O	O	O	O	O
Battery	X	O	O	O		O
Connection Pipe	X	O	O	O		O
Charge Connection Spot	X	O	O	O	O	O
Indicators	X	O	O	X	X	X
Circuit Panel	X	O	O	X	X	X
Motor	X	O	O	X	O	O
Storage	X	O	O	O	O	O
<p>Date designated in accordance with the requirements of SJF 11364 O: Toxic and harmful substances in all components of the device, in accordance with the standard GBf, is lower than the limit value of 26572-2011 X: In accordance with GBf 26572- 2011, existence of toxic and harmful substances in at least one component of the device, exceeding the limit</p>						

11. AUTHORIZED SERVICE

By visiting our www.volta.com.tr website,
you can check the location of our authorised services



MANUFACTURING COMPANY

Volta Motor Sanayi A.Ş.

Merkez Mh. Yıldıztepe Cad. Gümüřova OSB

Gümüřova / DÜZCE

Phone : 0850 222 28 65 - 0380 731 25 25

Serbest Bölge

- Tübitak MAM Teknoloji Serbest Bölgesi Barış SB. Mh.

5001 Sk. No:3 A/B Gebze / KOCAELİ / TURKEY

Tel : 0850 222 28 65

JIANGSU / CHINA

- No. 36-37, Yougu Industrial Park, No:58

Jinghong Road, Xibei Town, Xishan

District, Wuxi City JIANGSU / CHINA

地址：无锡市锡山区锡北镇泾虹路58
号优谷产业园36-37号

12. FAULT CODES

NOTE: Long sound of beep indicates the first digit of the error code. Short sound of beep indicates the second digit of the error code. For example, two long beep sound and four short beep sound one after another mean error code twenty-four.

FAULT CODE AND FAULT HANDLING

Error Code	Describe	Maintenance and Treatment
4	Short trouble	Check if a short circuit is wired or installed
10	Instrument panel communication failed	Check the circuit between the dashboard and the controller
11	Motor A current sensor is abnormal	Check the a"Check the line of the phase line (yellow line) of the controller or motor A" circuit between the dashboard and the controller
12	Motor B current sensor is abnormal	"Check the controller or motor B phase line (green, brown line) part of the line"
13	Motor C current sensor is abnormal	Check the controller or motor B phase line (blue line) part of the line
14	Throttle Hall exception	Check if the throttle if zero, the throttle line and the throttle are normal
15	Brake Hall anomaly	Check whether the brake will be reset to zero position, and the brake line and the brake will be normal
16	Motor Hall anomaly 1	Check that the motor Hall writing (yellow) is normal
17	Motor Hall anomaly 2	Check whether the motor Hall writing (green, brown) is line
18	Motor Hall anomaly 3	Check whether the motor Hall writing (blue) is line
21	BMS communication anomaly	BMS communication exception (non communication battery is ignored)
22	BMS password error	BMS password error (non communication battery is ignored)
23	BMS number exception	BMS number exception (ignored without communication battery)
28	Upper bridge MOS tube fault	"The MOS tube failed, and the error was reported after restarting that the controller needed to be"
29	Lower bridge MOS pipe failure	"The MOS tube failed, and the error was reported after restarting that the controller needed to be"
33	Controller high temperature alarm	"Battery temperature is too high, check the battery temperature, static release for a period of"
50	Bus high voltage	"Battery temperature is too high, check the battery temperature, static release for a period of"
53	System overload	Exceed system load
54	MOS phase line short circuit	Check the phase line writing for a short circuit
55	Controller high temperature alarm	"The temperature of the controller is too high, and the vehicle is restrated after the vehicle is cooled"

MANUFACTURING COMPANY

Title	Volta Motor Sanayi ve Tic. A.Ş.		
Address	Merkez Mh. Yıldıztepe Cad. No:10 Gümüşova OSB Gümüşova/DÜZCE	Tübitak MAM Teknoloji Serbest Bölgesi Barış SB. Mh. 5001 Sk. Temsal Binası Apt. No:3 A/B GEBZE/KOCAELI	No. 36-37, Yougu Industrial Park, No:58 Jinghong Road, Xibei Town, Xishan District, Wuxi City JIANGSU/CHINA 地址：无锡市锡山区锡北镇泾虹路 58号优谷产业园36-37号
Phone	+90 380 731 25 25	+90 850 222 28 65	
Fax	+90 380 731 25 35	+90 380 731 25 35	

OF THE PRODUCT

TYPE	Kick Scooter
BRAND	Volta
MODEL	VT1
CHASIS NUMBER	
DELIVERY DATE and PLACE	
MAXIMUM REPAIR DURATION	
WARRANTY PERIOD	2 YEARS

SELLING COMPANY

TITLE		
ADRESS		
PHONE		
FAX		
INVOICE DATE AND NUMBER		
DATE OF SALE		

This part has to be completely filled by the seller. (STAMP-SIGNATURE)

ACCEPTANCE CONDITIONS OF THE WARRANTY AND ITS DURATION

1. Warranty duration is two year and since the submission of the Warranty Document is absolutely necessary when conducting processes under the scope of the warranty, this Warranty Certificate must be kept safe during the duration of the warranty.
2. The product, including all of its parts, is under the scope of the warranty.
3. In case it is understood that the product is lots, the person can use his rights stated in the Article 11 of the Legislation Concerning Protection of Rights of Consumers numbered 6502 which as follows:
 - a) Terminating the contract by stating the readiness of returning the product,
 - b) Keeping the product and demanding discount depending on the rate of the fault,
 - c) When there are no extra costs, demanding the complete repair of the product free of charge, all costs belonging to the seller,
 - ç) If applicable, requesting that the product should be changed with an equal which has no fault
4. Since the invoice will be considered as basis for a conflict, the invoice must be submitted together with the Warranty Certificate.
5. The warranty shall be considered invalid when it is understood that there are damages on the invoice and warranty certificate, original serial number placed on the vehicle being removed or damaged.
6. The warranty shall be considered invalid when it is understood that the device has been assembled, maintained or repaired by an entity other than the authorised services of our company.
7. The maintenance of the vehicles shall be conducted by the authorised services during the periods stated in the user manual. Vehicles not maintained properly shall be considered out of the scope of the warranty.
8. Warranty offered by our company, does not include the failures resulting from the vehicle being used for its stated purposes or abnormal conditions and the failures stated below are also out of the scope of the warranty:
 - Failures resulting from the installing the components which have not been produced or sold by Volta Motor,
 - The vehicle having been inside a water pool deeper than the level of the rear wheel of the vehicle or components of the vehicle having been in contact with water as a result of the high-pressure water washing of the vehicle,
 - Parts such as shaft, differentials, gear box, motor, rims being broken, eroded or destroyed as a result of the vehicle being used with weights above its load limits,
 - Failures resulting from modifications made without written consent of Volta Motor,
 - Parts such as battery, balata, tyres, belts being old, eroded, losing performance as a result of usage,
 - Vehicle being charged with a charging device other than its original device or charging device being broken because of electrical lines, voltage changes and thus damaging the battery,
 - Batteries being swollen(expanding) or broken as a result of the vehicle being charged more than the duration designated by the company,
 - Charging device or other electronical components getting in contact with water,
 - Shock absorbers or chassis connection components being broken, bent as a result of them being loaded more than their carrying capacities stated in the user manual or receiving hard blows,
 - Damages and faults resulting from natural disasters such as fire, flooding, lightning,
 - Battery are products which have lifespans. Batteries being kept and not being used for more than 90 days (by a branch or last consumer),
 - Upon the delivery made to the customer, damages resulting from loading, unloading and transportation of the vehicle.
9. No other than the customer whose identity stated on the Invoice and Warranty Certificate of the vehicle can demand rights or compensations.
10. The consumer, for the disagreements resulting from the usage of his rights of warranty, can apply to the Consumer Arbitration Board of his residence area or of the area where the consumer processes have been conducted or to the Consumer Courts,

AT UYGUNLUK BELGESİ / DECLARATION OF CONFORMITY

Üretici / Manufacturer : Volta Motor Sanayi Ticaret Anonim Şirketi
Adres / Address : Merkez Mah. Yıldıztepe Cad. No:10 Gümüşova OSB Düzce Turkey
Adres 2 / Address 2 : Barış Sb. Mah. 5001 Sk. Temsa Binası Apt. No:3 A/B Gebze Kocaeli Turkey

Bu doküman da Volta Motor teknik dosyayı oluşturmaya yetkili olduğunu beyan eder.

Hereby with this document Volta Motor declares to be authorised to establish the technical file.

Beyan olunan ürün / Declares the product hereafter described:

- Ticari Adı / Commercial Name : VT1
- Tip / Type : Elektrikli Kick Scooter/ Electric Kick Scooter
- Marka / Brand : Volta
- Motor Gücü / Motor Power : 0,25 KW

Volta Motor yukarıda belirtilen modelin Elektro Manyetik Uyumluluk (2014/30/EU), Makine Emniyet (2006/42/EC) direktiflerine uygun olduğunu, gerekli tüm güvenlik önlemlerini aldığını beyan eder. Aşağıda EMC & MD direktif gereksinimlerinin değerlendirilmesi için gerekli standartlar listelenmiştir.

We hereby declare that model listed above has passed that all major safety requirements, concerning to Machinery Directive (2006/42/EC), Electro Magnetic Compatibility Directive (2014/30/EU) are fulfilled, as laid out in the guideline set down by the member states of the EEC Commission. This declaration is valid for all samples that are part of this declaration, which are manufactured according to the production charts appendix. The standards relevant for the evaluation of EMC & Machinery requirements are as follows:

Machinery:

EN ISO 12100:2010, EN 60335-1:2012+A13:2017

EMC:

EN IEC 61000-6-1:2019 EN 61000-6-3:2007/A1:2011/AC:2012

Yer ve Tarih (Place and Date)

Düzce

14/04/2020

CE



İmza Yetkilisi (Authorised Signer)

Genel Müdür

Fatih Bayraktar

ENGINEERED BY ELECTRIC

POWER



TURKEY'S INTERNATIONAL BRAND

VOLTA

ENGINEERED BY ELECTRIC

DÜZCE TURKEY

📍 Merkez Mh. Yıldıztepe Cad. No:10
Gümüşova OSB
Gümüşova/DÜZCE/TURKEY

☎ 0380 731 25 25

✉ info@volta.com.tr

GEBZE TURKEY

📍 Tübitak MAM Teknoloji Serbest Bölgesi
Barış SB. Mh. 5001 Sk. No:3 A/B
GEBZE/KOCAELI/TURKEY

☎ +90 850 222 28 65

✉ info@volta.com.tr

JIANGSU CHINA

📍 No. 36-37, Yougu Industrial Park, No:58
Jinghong Road, Xibei Town, Xishan
District, Wuxi City JIANGSU/CHINA
地址：无锡市锡山区锡北镇泾虹路58
号优谷产业园36-37号

✉ info@volta.com.tr

www.volta.com.tr