

# MiniWalker™

MW-Tiger 9 series



**USERS MANUAL**

# Before Reading Manual

This manual contains important information to help you use your product more safely. For safe use, it is marked as 'Danger', 'Caution' and 'Warning' depending on the degree of danger and the meaning is as below.

**Danger:** Indicates a hazardous situation that could be a cause of serious injury.

**Warning:** Indicates a potentially hazardous situation that could be a cause in light injury.

**Warning:** Indicates a potentially hazardous situation that could be a cause in serious injury.

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# 01. Safety guidelines and restrictions

## 1) Be careful of water!



This product and components are not waterproof.

Don't Let the water get into the product and components.

\* Never use it, if the road is wet due to rain, snow or hailstone.

\* If you wash or spread water to electric devices, it can result in malfunction or fire.

## 2) Beware of folding and spinning parts!



If parts of the body, as a finger or hair, get caught in the spinning or folding parts of the product, this may lead to severe injuries. Please be careful

## 3) No acrobatics



Stunts such as jumping and dropping are prohibited as they can cause a great impact on the product and can cause malfunction and accidents.

## 4) Beware of folding and spinning parts!



This product is designed for one adult only, so children, infants, or two people are prohibited from boarding.

## 5) Beware of folding and spinning parts!



Do not open or turn the electric parts (battery, controller or motor system).

## 6) Beware of folding and spinning parts!



Unlicensed, drunk driving loading cargo on the scooter are prohibited (more than bike or bicycle license is required) Please comply with the Road Traffic Act and related laws and regulations according to the place of use.

## 7) Beginners and juniors are encouraged to use at low speed

Beginners who are not accustomed to use the product, should avoid high speed mode driving and recommend low speed driving.

In addition, please use after practicing how to ride safely in a wide place.

### 8) Do not suddenly brake with front brake



If there is a risk of overturning, sudden deceleration should be done safely. Do not apply any unusual behaviors or artificial forces, such as stopping with your feet.

### 9) Do not accelerate downhill



Slow down at downhill. When reducing the speed, use the brakes properly to reduce the heat on the disk.

### 10) Do not drive on steep slopes



Acceptable gradeability is different for each product. Excessive hill roads exceeding the specification may cause damage to the product(parts) due to temperature cut, over current or low voltage cut, which may cause the product to malfunction.

### 11) Safety warning when lifting the product



If the product is lifted by holding only the handle, there is a possibility that the product may be damaged due to deformation of the folding part due to load or movement of the product. When lifting the product, be sure to hold the product's body(footrest) with one hand and hold the handle with other hand so that you do not get hurt in your back or knees.

### 12) Be sure to wear safety equipment



For the safety of passengers, be sure to wear a full face helmet and the other protective gear(knee, elbow, hand, upper body) and do not wear shoes such as slippers, high hills that interfere with driving.

## 02. Precaution before driving

- 1) Night driving should be avoided in any case, be sure to wear helmets and other guards (knees, elbows, hands, upper body, etc.) and drive safely.
- 2) Select the mode that suits you and drive . In order to cope with the sudden situation, exercise to slow down to hold the brake at all times.
- 3) When turning left / right, slow down to avoid danger of overturning or slipping., And then turn slowly and safely.
- 4) To go backward, it is safer if you get off the product after stopping before moving again.
- 5) It is prohibited to use in a slippery place, a crowded place, a steep slope, roads with a risk of accident, and uneven road.
- 6) When crossing a pedestrian crossing, get off the product for pedestrian safety.
- 7) Do not drive in a threat of any other means of transport, such as animals, pedestrians, bicycles, motorcycles, cars, etc.
- 8) If you pass the speed bumps and obstacles, be sure to slowdown.
- 9) When decelerating or braking, do not stop with foot, but stop with using brake appropriately.
- 10) Be careful that there is a risk of burns due to heat from motor and brake [especially disk] after driving.
- 11) It is prohibited to drive with the way by holding the handle with one hand
- 12) Do not ride or drive when the kick stand is down.

### 03.Name of each part





**Caution !**

Do not hold the handlebar only when lifting the product from box. Please be careful that the fixing slide of the folding part may be damaged, and a safety accident such as a part of the body may be caught. Therefore, when lifting the product, it is necessary to raise the handle bar first, and then slowly lift the body (footrest) of the product with both hands and do not damage the folding part.



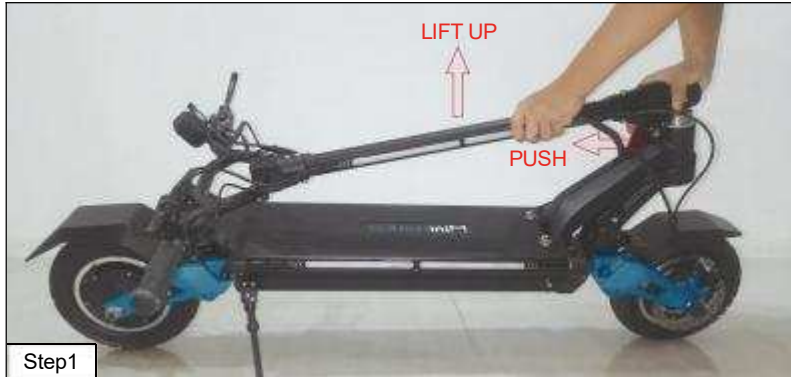
## 04.How to use the product

### 1) Product unfolding

Step1.Left hand hold and lift up the stem,at same time right hand push up the dunk.

Step2.Push down the dunk,and make sure it's fully sink to the correct position.

Step3.Lock the stem buckle firmly.



### 2) Assembling T bar

Step1.Loose the screw on handle stem with tool.

Step2.Put the T bar on handle stem,make sure it's in middle.

Step3. Tight the 4 screws on handle stem with tool.



### 3) Assembling the display, and brake lever



-Adjust the position of the brake and tighten the fixing bolts with a 5mm hexagon wrench.

### 4) Product folding

Step1. Loose the stem buckle.

Step2. Right hand push up the dunk,at same time left hand lift down the stem.





## 5) How to start

Step1. Turn on/off the scooter



Step1. Turn on/off the scooter

1) Put the card on NFC for 2 second, and sounds "beep" (two sounds) ,Voltmeter showing voltage bar.



\* The power of the display will turn off automatically after a few minutes of inactivity. At this time, the LED lamp is also turned off, so turn it off with the LED lamp button before you turn it on again.

- 2) Press the Power button on the display for 3 seconds to turn on the scooter.
- 3) Put the card on NFC for 2 second, and sounds "beep" (one sound),display will be off.

**Caution: the Supper card can't be used as key, it's only be used to copy NFC to phone.**

### Step2. Stance for driving

After tilting the kickstand, find a stable position on the footrest and then hold the handle grip comfortably. Be careful not to raise your foot on the rear fender.

\* Scooter are regularly with "zero start" when out of factory, users need to kick ground to start ride.

### Step3. Acceleration

Acceleration can be performed by using the throttle of the display while driving, and the deceleration or stop can be performed by holding the brakes on the handle.

### **Caution !**

Before driving,be sure to check the folding part, the handle part and the part where the main fixing part of the product are fastened well. And check the position of folding part fixing status.

#### **Throttle malfunction caution**

Regardless of whether the throttle is operated or not, the motor sensor may continue to operate,causing malfunctions such as sudden acceleration. In this case, holding the brake lever to cancel the operation. This phenomenon may be caused by corrosion of the throttle,immersion of the throttle,disconnection of the magnet, broken off levers,and broken spring. Do not bounce the throttle lever strongly.

### **6)How to stop**

Attention to using the brake gently first, don't brake suddenly. When you brake gently,the ABS function started. This will be very effective in reducing speed. After the speed dropped, the brakes are finally applied to stop the scooter

### Tip: Check for safe braking

\*For safe braking, check whether the brake lever and drum brake connection are damaged before and after driving (wire damage, external breakage, etc). And check brake wear and looseness of brake inner core (inner wire). In the case of hydraulic brakes it is also necessary to check the oil leakage or deficiency and always check that the braking force is sufficient.

\*Due to various factors such as road surface condition and speed, the brake can't stop the scooter as expected. The electric ABS function is an auxiliary function to further increase the braking force. The user should understand the electric ABS and consider the braking time when riding.

### 05. Display/Switches introduction



- 1) Turn on/off the scooter: Long press power button (around 3 seconds).
- 2) Light on/off: Long press mode button (around 3 seconds).
- 3) Switch speed gear: Short press mode button to change speed gear (1,2,3).
- 4) Mode function: Short press the power button to change the mode:

TIME>TRIP>ODO>VOL.

TIME: ride time for a single ride

TRIP: mileage for a single ride

ODO: scooter's total mileage

VOL: battery voltage

1) P Setting: Long press both two button together to into the P setting:

P00	9	Motor wheel size ( inches)	
P01	42.5	Low voltage protection ( accuracy 0.5	
P02	15	Motor pole pairs (pair) , pole pairs = number of magnetic steel pieces + 2	
P03	1	(0) out (1) Within Choice of speed signal	fixed
P04	0	(0)Km/h (1)Mp/h Speed display	
P05	0	(0) Zero start (1) Non-zero start Start	
P06	0	(0)Cruise is invalid (1) Cruise is valid	
P07	0	(0) Hard start (1) Soft start Soft and hard start selection	
P08	100	Percent speed limit (5% minimum- 100% maximum)	
P09	2	(0) turn off: (1) Weak: (2) Strong E-ABS intensity	

### Throttle error troubleshoot



-Brake sensor error: Brake sensor triggered. Try to check if the brake levers and cables are stuck, or if the sensors are faulty.



-Controller fault: Internal controller may be faulty. Check if it is damaged by water, or burnt. May need to replace controller.



-Motor fault: Motor issues, open and check if the motor cables are intact. May need to replace motor.



-Throttle fault: Check throttle display's internal spring and magnet sensor. You will need to open the back cover of your throttle display to troubleshoot it.

### Caution !

When defective happen, please ask help from dealer, don't repair the scooter by yourselves.

## 06.RGB lights introduction

RGB lights are assembled in stem pole and side of the body deck.

**Step1.** Scan the QR code and download the App (  duoCo Strip ).

**Step2 .** Start App, search and connect the Bluetooth controller( make sure the Bluetooth on your mobile phone is open).

**Step3.** Set light color via the App.





**Notes:**

1. Detailed operating instructions, enter the menu "Guide" .
2. LED Bluetooth controller is directly via mobile phone control remote distance can reach 20m without the need to set up, easy to connect open the software within 5 seconds you can automatically connect the controller.
3. Colorful gradient
4. All kinds of monochrome, double color gradient
5. All kinds of monochrome, double color, colorful flashing.



## 07.How to use the charger correctly



### 1)Basic charging method

**Step1.** Open the charging port cap and connect it to the connector of the charger and connect it to the household outlet.

**Step2.** Charging status indicator: (Red) Charging;(Green) Charging complete.

**Step3.** Be sure to close the charging port cap when driving or storing except when charging.

**Step4.** When connecting the connector to the charging port, metallic sparks due to voltage difference may be splashed, but this is normal.

### 2) Basic charging method

Failure of the charger and abnormal conditions can cause electric shock and fair. Learn the correct usage and prevent safety accidents in advance.

1 . Manufacturers and sellers are not responsible for any problems arising from any disassembly, modification, or mixing with other chargers.

2. The charger is forbidden to be used in places subject to high humidity, heat, flammable materials, confined specs, or where there is no ventilation such as in a car.

3. The charger is not waterproof. It is thoroughly controlled to prevent moisture from entering the charger.

4. Children and pets should not be allowed to approach the charger when they come into contact with them, as they may cause an electric shock.

5 . If charger lamp does not light, charger fall, strong external shock, long time charge, or cable cover damage, discontinue use immediately contact the service center.

6. Unplug the charger when you are away from home for long periods of time.

7. Use only genuine charger.

8. Do not insert conductors into the charging port.

9. Do not touch the plug for about 10 seconds after unplugging the charger. There is a risk of electric shock from instantaneous discharge.



10. Do not remove the terminal during charging. Charge the internal circuit of the charger will cause malfunction.

11. Do not operate the product during charging.

12. Charging terminals should be firmly contacted during charging and should not be used if terminals are corroded or damaged.

13. When disconnecting the charger from the product, it is safe to hold the terminal without holding the wire.

## 08. Safety precautions for Lithium-ion battery

**1) Care** Lithium batteries should be protected from direct exposure to children and pets.



**2) Performance** ① .Lithium battery is affected by external temperature. In winter, when the temperature is low, the performance of the battery is temporarily deteriorated and the mileage and power output

is reduced. ② Lithium battery has a characteristic that discharge performance is reduced by more than 15% when charging /discharging 300 times or more. If usage time is shortened due to long usage, it should be replaced with a genuine one through the nearest point.

**3) Charging** ① .Lithium battery should be used only with genuine battery and charger supplied from the manufacturer. Any problems caused by use of battery not made by the manufacturer, mixed use, or using the charger are not covered by the manufacturer. ② Charging the lithium battery with a non-genuine charger may cause malfunction or fire . ③ The lithium battery should be charged in a well- ventilated, dry place and around the charger in a place where there is no inflammable material . ④ Lithium battery should be charged at 0-45°C and discharged within - 10-60°C . Charging or discharging at a temperature outside this range may cause malfunction, fire or explosion. ⑤ In case of moving from cold outside to warm indoor, please charge it after 1-2 hours. This is to prevent condensation from occurring inside the product due to temperature difference.

**4) Storage** ① Lithium batteries should be kept away from snow, rain and direct sunlight. Do not store or charge them in a trunk or hot room. Select a dry place and store at room temperature (10 ~ 20 °C). ② When storing for more than 3 months, charge the remaining battery level to 70 ~ 80% (do not store full charge).

**5) Trouble symptom, safety** ① Lithium battery should be discontinued immediately if it is damaged or leakage of battery, sour odor, appearance deformation, etc., and contact the place of purchase to get technical support and service. ② If overheat, smoke or ignition is detected in a product with lithium battery, immediately stop charging and use, move the product outdoors as soon as possible, and then use

a fire extinguisher to evolve. Do not spray water or immerse the product in order to evolve, which is more dangerous. ③ Lithium battery pack has very high energy density, so if you charge the battery for a long time in case of short-circuit, leakage, bad battery, etc., there is a possibility of ignition. Therefore, you should avoid charging for a long time without a person, and charging must be done while the person is aware that the risk of unexpected fire can be avoided.

**6) Misuse** If the lithium battery is short-circuited or the polarity is changed, or if the battery is impacted, malfunction or fire may occur. If you think that the battery has been impacted, you should stop charging and using it and visit the nearest point for inspection.

**7) Water inflow** It should be controlled to prevent water inflow into the lithium battery. There is a risk of fire or electric shock if the charger is connected while moisture is present.

**8) Caution** Disconnect the battery from the main unit and prohibit recharging, reinstalling, or using other applications.

**9) Disposal** Disposal(When disposing of the lithium battery, the battery should be separated from the product at the point of purchase or near the point so that the charge and discharge terminals are not short-circuited. Dispose of it as industrial waste when disposing of it.

### **Danger !**

**Battery disassembly prohibited: Battery disassembly, modification and repairment are not covered under warranty.**

## **09.Safety guidelines before driving**

### **1)Required checking before use**

#### **Step1 : Check throttle and handle**

\* Operate the accelerator throttle lever about 2 ~ 3 times to check whether it returns to the home position.

\* Be careful that excessive throttle Leaning and manipulation of the throttle can cause malfunction due to internal parts damage.

\*Check the fastening condition and clearance of the QR lever on the handle.

#### **Step2 : Check brake and cable**

\* The brake braking force is sufficient to check the operating condition. If the braking force is significantly lowered, use it immediately after inspection and action.

\* Check that the brake pad is not worn, that the cable is not loose, that the cable is not damaged.

\*If there is an unusual feeling or noise during operation, check for breakage, wear and deformation of the inner wire of the brake cable.

\*Check that the bolts and nuts of the brake fixing parts are not loose.

#### **Step3 : Check tire pressure and uniaxial condition**

\* Check the front and rear tires for wear and punctures and check the proper air

pressure(45 to 50 psi) for the tire . When the shortage of air is shortened, the possibility of puncture increases, so check always.

\*It is necessary to judge the replacement time by observing the appearance of the tire such as tire damage,uneven wear.

#### **Step4:Tightening check such as folding part and handle part**

Make sure that the bolts and nuts of all parts of the product are tight and free from loosening. Check the fastening condition and clearance of the folding and fixing parts of the handle .tire such as tire damage,uneven wear.

#### **Danger !**

#### **In this case,stop driving immediately.**

If you encounter any of the following situations while driving, stop driving immediately and contact your nearest branch or service center for proper measures . If you provide pictures and videos to get accurate diagnosis, professional counseling is available.

- \*Unusual heating of the motor
- \*Brake braking status error
- \*Error messages on the instrument cluster
- \*When the throttle is returned to its original position
- \*Abnormal noise if generated
- \*Product smoke,ignition ,sour odor
- \*When rain or wet with water or in a small situation
- \*When other driving is judged to be unreasonable.

## **10. Maintenance**

### **1)Maintenance and self-maintenance**

Electric products can be damaged by various factors. The life span of each part varies depending on driving habits and driving environment. Parts that exceed the service Life may cause accidents. Let's manage various parts and prevent safety accidents in advance.

#### **Step1 : Check the replacement timing of consumable parts**

1 . The components and suspension, tires, tubes, wheels, bearings, headset bearings, discs, brake pads, cables and folding parts, various brackets and other consumable parts require periodic inspection and always check.

#### **Step2 : External damage inspection by driving environment.**

1 . Replace parts that may be damaged by external driving environment, such as deformation of parts, cracks due to compression, and signs of exceeding fine gold or life expectancy.

2 . If the product is exposed to strong sunlight for a long time, discoloration may occur.

3. In case of heavy driving such as normal jumps, slight impacts such as turning, collision, etc., when driving frequently or for a long time in a poor road condition or driving for thousands of kilometers or more, fatigue breakdown phenomena. Please check and replace the parts replacement schedule for each product for safety.

4 . Fatigue breakdown and maintenance parts may differ from the example conditions depending on the driving environment and the operating conditions. Also check parts other than the replacement cycle (maintenance parts) at all times to check for any signs of abnormality.

### **Important notice**

1. Please note that after running, there is a risk of burns due to the heat on the motor and brake (especially disk rotor) side.



2. Be careful that the bolts of the motor, rim and motor shaft due to the ABS function maybe loosened.

### **2) Brake adjustment method**

As you continue to use the brakes, the brake pads become worn out and the gap between the pad and the brake disc becomes wider. When the braking power drops, please ask the dealer change brake pad or adjust the brake device for you.



## 10.Product specifications

<b>Specification</b>		
<b>Product Name</b>	<b>MW-Tiger 9</b>	<b>MW-Tiger 9 PRO</b>
<b>Motor Power</b>	<b>52V 1000W</b>	<b>52V 2*1000W</b>
<b>Lithium Battery</b>	<b>52V 15.6A</b>	<b>52V 20.8A</b>
	<b>52V 20.8A</b>	
<b>Mileage</b>	<b>55KM</b>	
<b>Display</b>	<b>LCD DISPLAY</b>	
<b>LOCK</b>	<b>NFC LOCK</b>	
<b>Max Speed</b>	<b>25 km/ h(limited)</b>	<b>25 km/ h(limited)</b>
	<b>45-50km/ h(unlimited)</b>	<b>50-55 km/ h(unlimited)</b>
<b>Lights</b>	<b>Head light+ Front deck &amp; Rear deck light+ RGB side lights+ brake light</b>	
<b>Braking System</b>	<b>Front&amp; Rear disc brake + EABS</b>	<b>Front&amp; Rear domestic hydraulic brake+ EABS</b>
<b>Tyre Size</b>	<b>9*3.0(vacuum)</b>	<b>10*3.0 CST Tires</b>
<b>Suspension</b>	<b>Front &amp; Rear hydraulic suspension</b>	
<b>Steering Positioning</b>	<b>Yes</b>	
<b>Charging time( hour)</b>	<b>8-10H</b>	
<b>N .W . /G.W. (kgs)</b>	<b>27/32 kgs</b>	<b>30/35kgs</b>
<b>Package Size( cm)</b>	<b>129*25.5*57.5 cm</b>	
<b>Product Size</b>	<b>1250*600*1200mm(L*W*H)</b>	

### Remarks:

\*The specification can be changed by manufacturer without notice to improve the quality and safety for users.

\*The distance can be affected by loaded weight, wind direct (wind speed), road condition, slope and tire condition.

# Guarantee card

## User information:

Name: \_\_\_\_\_

Tel/Mobile phone: \_\_\_\_\_

Email: \_\_\_\_\_

Address: \_\_\_\_\_

## Product information:

Mode number: \_\_\_\_\_

Series number(laser on body frame): \_\_\_\_\_

Date of purchase: \_\_\_\_\_

Date of return: \_\_\_\_\_

Fault disruption: \_\_\_\_\_

Fault cause: \_\_\_\_\_

Signature of receiver: \_\_\_\_\_



