

DUALTRON

MINI SPECIAL

The dream of electric technology

PERSONAL MOBILITY User Manual



Company Introduction

Minimotors Co. LTD., is a company who manufacture and distribute personal mobility with a professional production system since 1999.

Minimotors Co. LTD., has been making the electric mobility brand ←DUALTRON→ to meet the world people with the aim of making more innovative, more sensuous, and more convenient personal mobility from 1999 to the present and making a product that is loved by people in the world. Minimotors Co. LTD., Is doing its best to become the world best electric mobility company.



MINIMOTORS
Co.,Ltd. Since 1999

Brand Introduction

'DUALTRON' brand is a worldwide electric scooter brand name that Electier Co. LTD., designed.

'DUALTRON' is a breakthrough product that combines the world's first dual drive system and the new rubber suspension technology (patent application). It is a proud Korean luxury brand that has won the world electric scooter market exported to more than 20 countries.

DUALTRON®
The dream of electric technology

✓ **Please read the user manual carefully.**

Do not use the product until you understand its functions.

Do not rent the product to anyone who can't operate the product.

*For the first time, the user should use it with a slow speed' for safety.

Dualtron Mini user manual contents **DUALTRON mini**

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Before Reading Manual

This manual contains important information to help you to 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 result of serious injury.



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



Caution: Indicates a potentially hazardous situation that could be a result in serious injury.



✓ Please read this manual carefully before using this product

1) Safety guidelines and restrictions

* Even if the it is within the warranty period, you may be liable for any accident caused by any of the following causes.



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 the rain, snow, 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 and jumps such as jumping and dropping are prohibited as they can cause a great impact on the product and can cause of malfunction and accidents.



4. No companion boarding

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



5. Don't tune by yourself

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



6. Comply with the related laws

Unlicensed, driving after drinking, loading cargo on the scooter is 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 seniors are encouraged to use at low speed

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

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



8. Do not sudden 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, to prevent brake overheat, use the brakes properly to reduce the heat on the disk with proper brake use.

**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, overcurrent or low voltage cut, which may cause the product to malfunction.

**11. Safety warning when lifting the product**

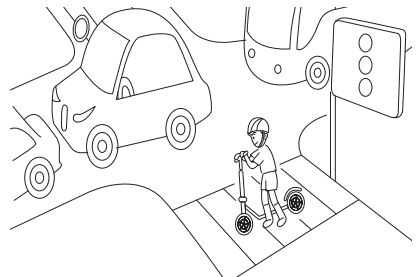
If the product is lifted by holding only the handle, there is a possibility that the product may be damaged due to deformation of the folding part due to load or movement of the product. When lifting the product, be sure to hold the product's body (footrest) with one hand and hold the handle with the 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 heels that interfere with driving.

2) 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 slowly turn safely.
4. To go to backward, it is safe if you getting off from the product after stopping before moving.
5. It is prohibited to use in a slippery place, a crowded place, a steep slope, roads with a risk of accident, uneven road.
6. When crossing a pedestrian crossing, get off from the product for pedestrian safety.
7. Do not drive in a threat 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 slow down.
9. When decelerating or braking, do not stop with using 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 rotor) after driving.
11. It is prohibited to drive with all the way by holding the handle with one hand.
12. Do not ride or drive when the kick stand is down.

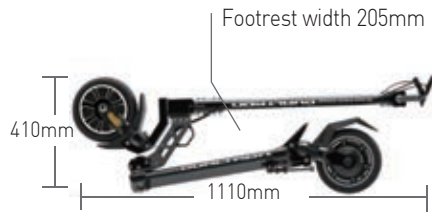


Product size

Unfolded

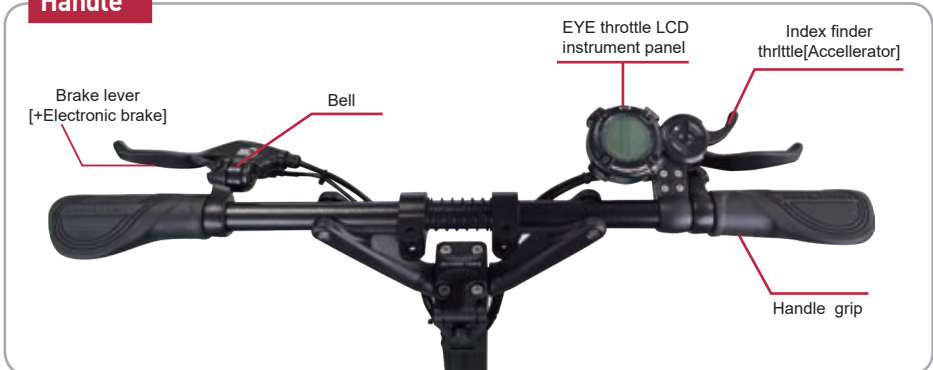


Folded



* Errors may occur depending on the measurement method.

Handle



Body frame





Checking the components inside of the box

Top : Default battery charger(2A), Default tool, User manual, Remote control
Bottom : Body(Lithium battery included)

Ejecting the product number.



Caution

Do not hold the handlebar only when lifting the product from the 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

Make a note of the serial number.



The serial number can be used to check information such as date of purchase, warranty period, etc., and product information can be checked even if the product is lost or stolen.
(May vary depending on branch office situation.)

Assembling of the instrument panel, brake

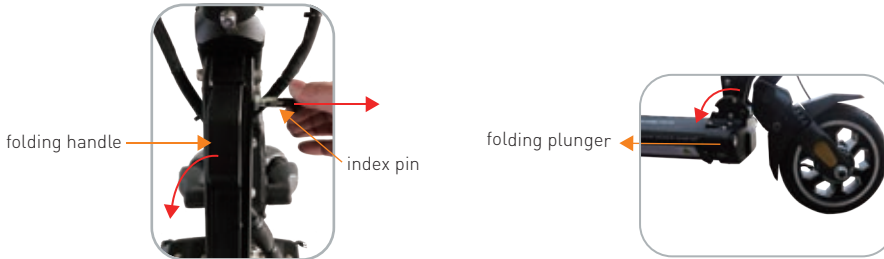


-Locate the instrument panel and tighten the fixing bolts.



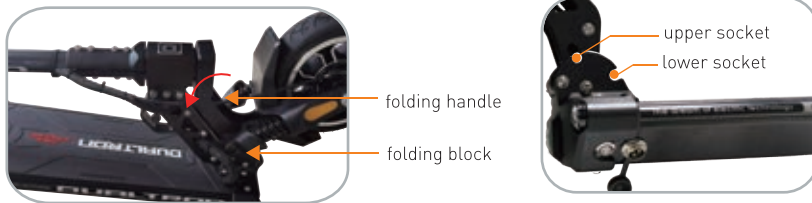
-Adjust the position of the brake and tighten the fixing bolts with a 5mm hexagon wrench.

1]Productun folding



1.Pull the index pin outward

Pull the index pin outward as the picture. Then Turn it a little, the index pin will get stuck and the folding handle will work. Index pin is used to fix the folding handle to prevent shaking and further strengthen the folding system.



2.Pull the folding handle

Pull the folding handle, folding plunger will come out of the upper socket and slip to lower socket.

3.Folding,fix the parts

Finish folding. the folding plunger will get stuck in lower socket. the folding handle will reset in the stem headset. please remember to insert the index pin back to make this folding system stronger.



2) How to start

Step1. Turning on the instrument panel

Press the POWER button on the instrument panel for 2 seconds to turn on the instrument panel. You can set the start mode, cruise mode, electronic brake, and ABS function.

*The power of the instrument panel 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.



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.



Step3. Acceleration

Acceleration can be performed by using the throttle of the instrument panel 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 index pin and the folding part fixing status.

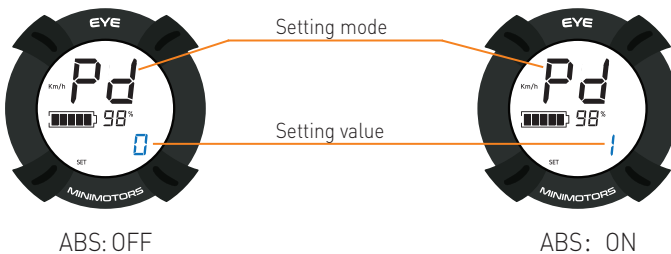
Trottle malfunction caution

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.

3) How to stop

Step 1 Use of rear drum brake + Electric ABS

Electric ABS function is designed into all MINIMOTORS products. Before using the scooter, please check if the ABS function turns on or not. It's available to select the function is on or off by yourself.



Step 2 Use of rear drum brake + Electric ABS

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

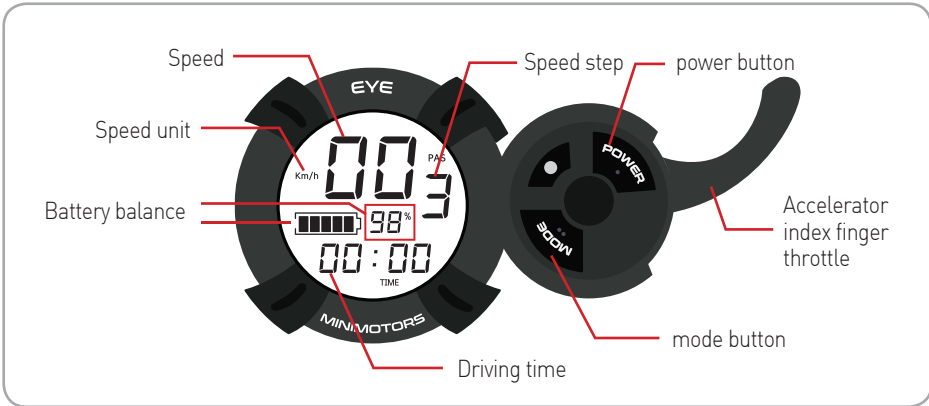
*For safe braking, check whether the brake lever and drum brake connection are damaged before and after driving (wire damage, external breakage, etc.). And check brake wear and looseness of brake inner core (inner wire). In the case of hydraulic brakes, it is also necessary to check the oil leakage or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

How to use the instrument panel



DUALTRON mini



1) Speed step setting

Can adjust with button. While the instrument panel is on, press to set the speed step. The setting is completed when the selected speed step value is selected.

* Blinks 3 times per 10 seconds when the remaining battery power is 10%.
It blinks continuously when the remaining battery power is 0%.

2) Functions and settings for each main screen



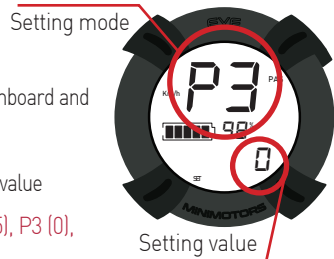
Mode	Discription
TRIP	Current mileage(Press and hold ● button to reset to '0')
ODO	Accumulated mileage
CHA	Not use
VOL	Current voltage
TIME	Drived time

3) Instrument panel detailed function

You can change the setting mode by turning on the power of the dashboard and pressing for 2-3 seconds.

In the setting mode, press once to change the internal setting value

* If you change the default setting values P0 (9) ,P1 (52) , P2 (15), P3 (0), correct information will not be displayed.



P0 9(Fixed)	P1 52(Fixed)	P2 15(Fixed)	P3 0(Fixed)	P4 Speed unit 0(Km/h), 1(mp/h)
P5 Start method 0(Acceleration start), 1(Kick start)	P6 Cruise mode 0(OFF) 1(ON)	P7 Slow start 0(Off:Power start~5(Slow start)	P8 Max output 5~100% (User adjust)	P9 Battery save 1(MAX SAVE) 2(MID SAVE) 3(NO SAVE)
PA Electronic brake power 0(Off)~5(Powerful)	Pb LCD brightness control 0(Back light off)~5(Brightest)	PC Auto off time setting 1~30 minutes	Pd ABS setting 0(OFF), 1(ON)	

1. Displaying speed unit selection - P4: 0 (Km/h), 1 (mp/h)
2. Start method selection - P5: 0 (Acceleration start), 1 (Kick start)
3. Cruise mode selection - P6: 0 (Off), 1 (On)
4. Slow start - P7: 0 (Slow start off: Power start) ~ 5 (Slow start)
5. Battery save mode - P9: 1 (MAX SAVE), 2 (MID SAVE), 3 (NO SAVE)
6. Electronic brake setting mode - PA: 0 (Electronic brake off) ~ 5 (Strongest)
7. LCD brightness adjustment - Pb: 0 (Backlight off) ~ 5 (Highest illumination)
8. Auto off time setting - PC: 1 ~ 30 minutes
9. ABS setting - Pd: 0 (OFF), 1 (ON)

4) Features of cruise mode (automatic driving)

The cruise control function allows you to maintain the driving speed automatically. Take advantage of cruise features

The advantage of being able to reduce fatigue when traveling long distances and to increase mileage of driving due to constant speed driving.

(1) The start of the cruise function

Select the Cruise function section of the dashboard as 'Settings' and set the throttle to the same Acceleration. The cruise function will start.



(2) End of cruise function

When you hold and release the brake while cruise mode is in effect, the cruise mode is automatically released

Precautions when using the cruise function



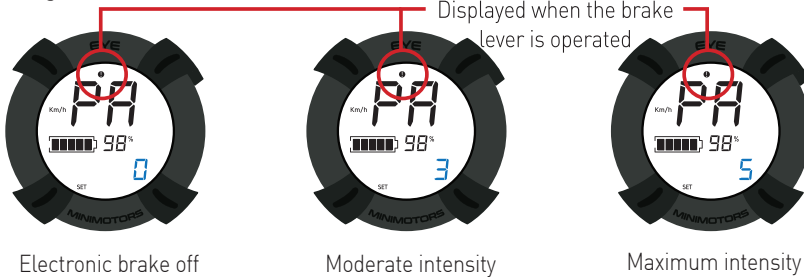
- * In case of cruise function, please ride in a position where brake can be used immediately so that cruise function is canceled and braking is possible in preparation for safety situation while driving.
- * When switching from dual drive mode to single mode in cruise mode, it is not possible to cancel cruise mode by using throttle and it is only possible to release by braking.

How to use the instrument panel



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5) Setting of Electronic brake

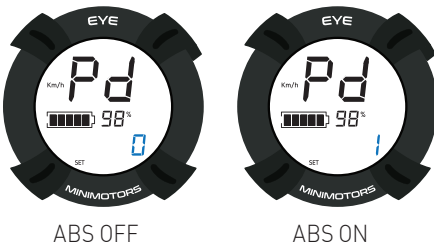


* Precautions when using electronic brake immediately after full battery charge

The electronic brakes do not operate when the battery is fully charged, so be sure to check and operate this device. When the battery runs out, the electronic brake will operate normally.

6) ABS function setting guide

All electric motorcycles are subject to sudden braking, causing the wheels to stop spinning. As a result, the slip of tire causes the driver to fall down, which can cause accidents. This product is equipped with ABS brake function to hold the tire lock, enabling more secure braking.



(1) ABS function ON

Set the ABS function part Pd of the dashboard to 1.

(2) ABS function OFF

Set the ABS function part Pd of the dashboard to 0.

* Pd - When the ABS function is ON, the PA - electronic brake function is canceled.

* ABS brake is an abbreviation of Anti-Lock Brake System. It uses the principle that maximum static friction force is larger than kinetic friction, so that braking distance (distance from breaking to stopping) is shorter than that of normal brake. It has the advantage that the vehicle does not slip well when wheel is rotating, and it is a brake assist system that can stop more safely without wheel lock and slip.



* Precautions when using the ABS function

ABS has the advantage of being able to stop at the shortest braking distance that can be obtained from the tires and road conditions. However, due to the principle of repeatedly holding and releasing the brake several times in a second, a lot of vibration occurs in the motor and the body. Repetitive vibration caused by this may cause frequent loosening of the motor, rim, fixing part and body fixing bolt.

7) Self-diagnosis through dashboard



Fault type	Diagnosis	Solution
2	System error	* If the error information appears, immediately stop using the product and take the scooter to the service center before use. Excessive use can result in damage to the product and safety accidents.
4	Motor error	
5	Accelerator error	
6	Controller error	
7 8 9	None	

* The number 1 is displayed when the cruise function is executed at a constant speed.

* The number 3 is displayed when the brake lever is operated. (When the indicator lights, the accelerator does not operate.)

1) LED function guide

Turn on the throttle power, and make sure the LED lamp button on the left side of the deck is on.



LED Lamp button

2) Remote control functions and settings

The LED remote control is infrared. Please aim at the bottom of the right LED bar.

Brightness&Light speed &Number of lamp beads control block

Multicolor light mode selection block

Light change mode selection block



Whole white lamp
Power but ton

Remote receiver
The lights will only be controlled when you operate the remote towards this place



Tip

Brightness&Light speed&Number of lamp beads control block:

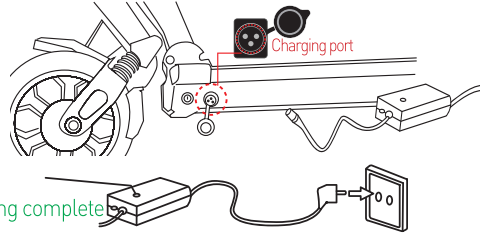
When single color light or whole white light is on, ↑ brighter/ ↓ darker; when the multicolor light is on, ↑ the light runs faster/ ↓ the light runs slower. When you press "IC Set" button, you can choose how many lamp beads work. Press "IC Set" button again to end the setting.

Multicolor light mode selection block:

"C3", 3 colors of light shine together; "C7", 7 colors of light shine together; "C16", 16 colors of light shine together; "CS", single color light shines.

1) Basic charging method

1. Open the chargingport cap and connect it to the connector of the charger and connect it to the household outlet.



2. Charging status indicator
 - (Red) Charging
 - (Green) Charging complete
3. Be sure to close the chargingport cap when driving or storing except when charging.
4. 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 fire. Learn the correct usage and prevent safety accidents in advance.

<p>1. Manufacturers and sellers are not responsible for any problems arising from any disassembly, modification, or mixing with other chargers.</p>	<p>2. The charger is forbidden to be used in places subject to high humidity, heat, flammable materials, confined spaces, or where there is no ventilation such as in a car.</p>
<p>3. The charger is not waterproof. It is thoroughly controlled to prevent moisture from entering the charger.</p>	<p>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.</p>
<p>5. If the charger lamp does not light, charger fall, strong external shock, long time charge, or cable cover damage, discontinue use immediately and contact the service center.</p>	<p>6. Unplug the charger when you are away from the home for long periods of time.</p>

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 and 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.





- 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 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 result. 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.



Battery disassembly prohibited

Battery disassembly, modification and repair are not covered under warranty.

1) Required checking before use

1. 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.



2. 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.



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



4. 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 (folding locking pin, plastic knob indexing plunger).



* 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 is generated
- Product smoke, ignition, sour odor
- When rain or wet with water or in a similar situation
- When other driving is judged to be unreasonable



Danger

2) Maintenance and self-maintenance

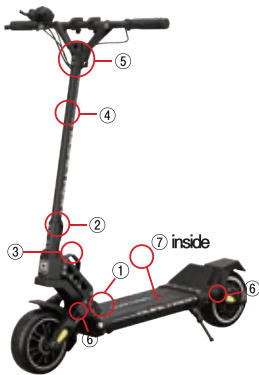
Electric products can be damaged by various factors. The life span of each part varies depending on driving habits and driving environment. Parts that exceed the service life may cause accidents. Let's manage various parts and prevent safety accidents in advance.



1. Check the replacement timing of consumable parts

※ The rubber inside the rubber suspension is cured as the consumable parts are used, and the performance of the suspension is slightly reduced because of the reduced elasticity.

- ① The components and suspension parts of the car swing arm, tires, tubes, wheels, bearings, headset bearings, discs, brake pads, cables and folding parts, various brackets and other consumable parts requiring periodic inspection and always check.

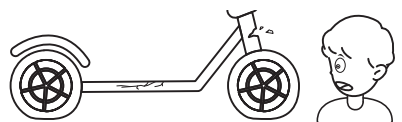


Fatigue failure parts and maintenance parts replacement cycle		
DUALTRON MINI		
No.	Parts name	Replacement cycle / km
1	FOLDING MOUNT	2YEARS / 7,000
2	HIGHER HINGE	3YEARS / 20,000
3	FOLDING HANDLE	1YEAR / 5,000
4	STEERING TUBE	3YEARS/ 20,000
5	HANDLE STEM	3YEARS / 20,000
6	SUSPENSION	2YEARS/ 10,000
7	BATTERY	2YEARS / 20,000
8	Other chassis components	If the exterior is damaged or deformed

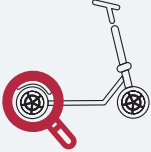
2. External damage inspection by driving environment

Caution

- 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



* Metal vibration may occur due to motor vibration, vibration of the brake disc and pad during the load section that accelerates during driving. (About 15 ~ 30Km, different for each product)

This is a phenomenon in which all revolutions (fans, automobiles, ships, etc.) are vibrating at a specific rotational frequency (rpm) rather than the product. However, if the continuous noise or metal noise is large, there is a possibility that the disk is bent and deformed.

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

* Be careful that the bolts of the motor, rim and motor shaft due to the ABS function may be loosened.

3) Maintenance by self-maintenance

1. Brake adjustment method

As you continue to use the drum brakes, the drum brake pad may wear out.

If the braking force drops, please use the wrench to adjust the unit like the picture.

If the brake lever is too tight, please loosen the nut to find the good position and tighten it again.



Caution

If the above measures are not taken effect, please visit the nearest branch and take and take a safety check. There may be another problem.

2. Front and rear suspension replacement

Front and rear dual suspensions designed by Minimotors. The suspension has two important parts, the spring and the rubber ,which have a combined funtion to make the performance perfect.

The suspension is easy to remove and assemble with a rubber hammer.

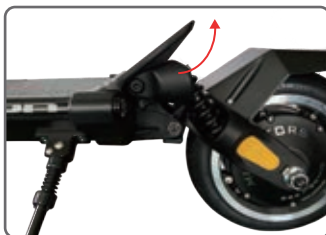
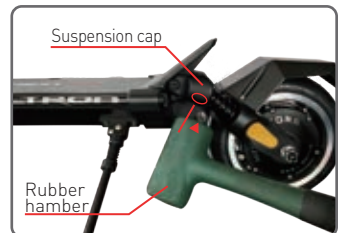


Step1. Loosen the screws

Please use an M8 wrench to loosen the screws. This screw is used to fix the suspension. After changing suspension,you must tighten it agian or the suspension will get out and you will fallen down.

Step2. Knock suspension cap

Hit the suspension cap with a rubber hamber.



Step3. Take the old suspension out and replace

Turn the suspension cap up ,take the old or broken suspension out and replace the new one.

Step4. Knock the suspension cap back

Knock the suspension cap back with a rubber hamber. Please knock the good place as the picture or you will damage the new suspension. <Don't forget to tighten the M8 screw back>.



Positioning module

NO NEED TO WORRY ABOUT OVER KNOCK

This is the positioning module,it is used to prevent over knocking the suspension and keep the good place for suspension cap.

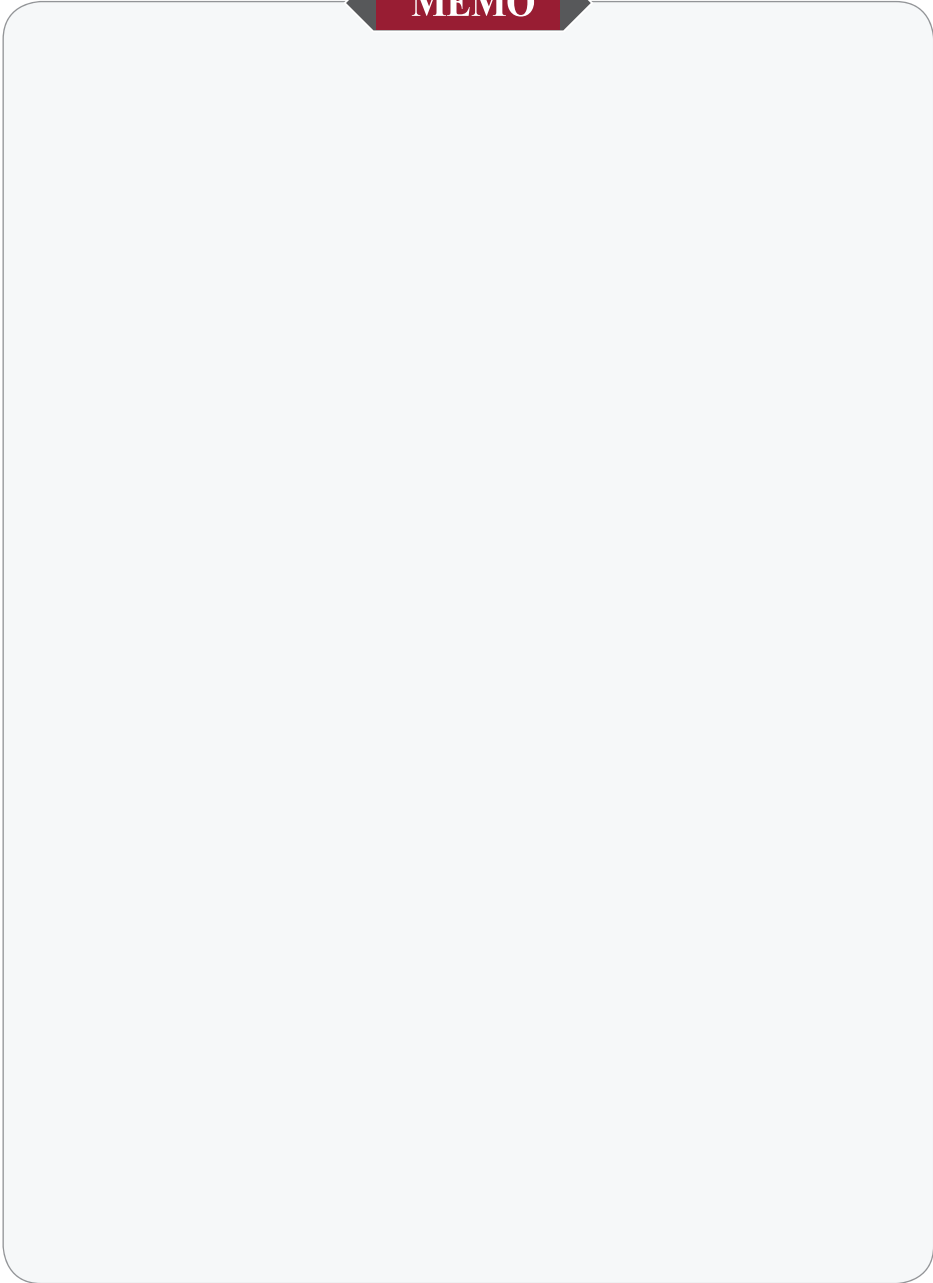
Product Specification

Product Name	DUALTRON MINI				Note
Motor	MAX 1450W BLDC HUB MOTOR				
Battery capacity	52V21Ah	52V19.2Ah	52V17.5Ah	52V12.8Ah	LG battery
Product weight	Around 22kg				Battery included weight
Charging time(1.7A)	12hr	11hr	10hr	7.5hr	When using standard charger(1.7A)
Charging time(6.5A)	3hr	2.9hr	2.5hr	1.9hr	When using quick charger (6.5A)
Max mileage	60Km	55Km	50Km	45Km	75kg load,25km/h flat road continuous riding basis
Max speed	25km/h				Speed adjustment function on the display. Single, Dual mode selection on the handlebar.
Folding	Handle one touch quick folding				
Gradeability	Around 37%(20°)				Weight, road condition, battery status, temperature can affect to the gradeability
Max load	100kg				
Product weight	Around 22kg				
Unfolding size	1115x600x1170mm				Length x Width x Height
Folding size	1110x205x410mm				Length x Width x Height
Instrument panel	EYE throttle is applied as the default option. Battery level, TRIP, ODO, Time. Speed display and mode change. Start method. Cruise system. Slow start. Speed limit, Battery save Electric brake, ABS, LCD brightness control. Auto off time setting.				
Light	Handlebar sides LED lights, Dual LED headlight & taillight, brake light				DC to DC converter is built in (12V 2A output)
Brake	Rear Drum brake+Electric ABS				
Suspension	Front& rear spring and rubber suspension				
Tire	9 inch x 2 wide tube tire(Air pressure Max 50PSI)				
Product material	Frame and handle:Aviasion aluminum forging alloy,6082-T6, Shaft:SCM440, Cover:Polypropylene				

*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.

MEMO



DUALTRON MINI

Electric Scooter User Manual

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