



FNS01



User's Manual

PREFACE

Dear Users,

We thank you very much for your choice of this electric mobility scooter.

The manual is to assist you operating and maintaining the scooter, please go through it with necessary information in mind prior to use the scooter. Any problem which is not covered in here or any confusion of the manual, feel free to communicate with your local dealers or distributors. Alternatively, you can direct contact with your local dealers or distributors.

The manual has the content of characteristics on main parts, key components, function of parts, safety requirements and instructions, battery instructions, points of attention, methods of coping urgent condition, and maintenance. Symbols are used for reminding matters need to care for, an understand of the manual fully is highly suggested.

This manual is written with current product information and product photoes as the follow. It is for the purpose easier understanding for users. The scooter is under continuous improvement and innovation. We reserve the right to continuousl improve products without notification, any new improvement please feel feel to contact with us any time.

We strongly believe that the scooter would bring you more convenient and reach the goal of free life to you.

Recommendation

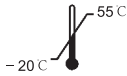
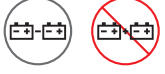
Please pay attention to “Warning” in the manual is to protect you from any injury. Unable to follow “Notification” in this manual may result in damage the scooter.

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SYMBOLS

	Warning Beware of potential hazard		Attention, see instruction for use
	Refer to instructions for use - Mandatory Failure to read the instruc- tions for use could intro- duce a hazard		Refer to instructions for use - Recommended Failure to read the instruc- tions for use could intro- duce a hazard
	Manufacturer		Product fulfill WEEE directive
	Date of manufacture		Serial number
	Batch number		Type BF applied part
	Use until year & month (Expiration date)		Type B applied part
IPX-4	Water proof grade		CE mark
	Medical device		UKCA mark
	=Radio frequency fields beyond this point may exceed FCC general public exposure limit		Importer
	Name and Address of European Union Representative		Distributor
	Unique Device Identification		Country of Manufacture
	Model Number		Don' t use when packing damaged

	Humidity limitation		Temperature limitation
	Store in clean & dry place protected from rain, snow, ice, salt and water.		Protect from heat and radioactive sources
	Danger of explosion		Package Number
	Keep dry		Foot Switch
	Equipotential		CF application part
	Switch		Fuse
	PCTB		Volume control
	Disposal and recycling only authorized recycling companies can recycle parts of this mobility wheelchair		Do not use cel phone, remote speakers, note book computer or other wireless ejecting device while operating the unit.
	Do not adapt battery which is with different capacity and wrong model number. Never combine use long time used battery with new battery at the same time, always change batteries in brand new condition.		Implication of flammable material. Do not expose under fire, fire sparkles and other heat sources conditions. Never transport batteries along with torch easy explosive items or flammable materials.
	Keep away other metal related items or tools away from the negative and positive terminal end to avoid any short cut or electricity shock from happening.		Avoid contacting with rain, snow, ice, salt and keeping in water, keep under clean and dry ambience.
	Easy to be crashed, crashing spot		The product has passed electromagnetic test of 20 V/M.
	With potential explosion		Battery contains anti-corrosion chemical substance.
Power	100~240VAC, 50~60 Hz		Type 2 device
DC output	+29.4V  2.0 A	Frequency	500VA

SECURITY GUIDANCE



1. The user must perform all of the procedures suggested in this manual.
2. This product is suitable for users with age between 18 to 75 years old.
3. Do not drive on public highway.
4. No over cross any gap which is over 100 mm (3.94") in width.
5. Never try to overpass obstacle which is over 40 mm (1.57") in height.
6. Scooter is suitable for both outdoor and indoor use, hospital, senior center, family or similar circumstances use only.
7. The suitable environment of using electric scooter :
Temperature $-10 \sim +50^{\circ}\text{C}$, Atmospheric Pressure $860 \sim 1060\text{hPa}$, Humidity $10\% \sim 93\%$.
8. Power Source Condition:
Charging Voltage AC $(100-240)\text{V} \pm 10\%$, $50 \pm 1\text{Hz}$, Battery Voltage DC 24V $(+5\%, -10\%)$, Power of Motor $\geq 180\text{W}$ environmental conditions that might be harmful to the scooter (e.g. inclines greater than 12 degrees, rain, snow, ice, etc.), such as temperature and humidity.
9. Operate scooter after it is under unfolded condition and only allow one person on scooter all time.

Weight limitations

1. The scooter is tested with simulation of human model at 120 kgs (265 lbs) load capacity.
2. Your scooter is rated for a maximum weight capacity. Please refer to the product specification table for this limit. Keep in mind that the maximum weight capacity includes the combined weight of the user and any accessories mounted to the scooter. Stay within the specified weight capacity of your scooter. Exceeding the weight capacity voids your warranty. We will not be held responsible for injuries and/or property damage resulting from failure to observe weight limitations.



- **WARNING !** We are not responsible for any damage and injury caused due to over weight.
- **WARNING !** Not to drive on dangerous slopes.
- **WARNING !** Do not drive backward when going up and down a hill. Maximum ability is uphill 8° .

Statement

Indications for use

This is a motor driven for indoor and outdoor transportation vehicle with the intended use to provide mobility to a disabled or elderly person limited to a seated position.

The Scooter (Model FNS01) has a base with aluminium alloy frame, two front wheels, two rear wheels, a seat, an adjustable steering post, an electric motor, an electromagnetic brake and 2 rechargeable Lithium-Ion Batteries. The movement of the scooter is controlled by the rider who operates the throttle lever, speed control dial and handle. The device is installed with an electromagnetic brake that will engage automatically when the scooter is not in use and the brake cannot be used manually. The scooter only can be operated under the normal road condition.



1. Please read the following statement.
2. Please read this manual carefully and understand everything clearly before using the Scooter for the first time.



1. Please do not use the Scooter in any unclear cases, otherwise, the product may be damaged or the user may get hurt. If you have questions, please contact us.
2. Please pay attention to the warning and cautions in this manual. We are not responsible for any injury and damage caused by wrongly use of this product and neglect of the warnings and cautions.

Instructions



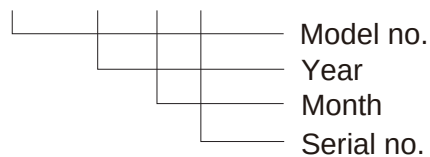
1. Improper use will cause death or serious injury of user.
2. Improper use will cause damage of scooter.
3. Comply with the manual to keep scooter in good condition.
4. DO NOT make sharp turns at high speed or on inclines or reverse direction abruptly.
5. DO NOT utilize brake release / freewheeling option on any incline without assistance to control motion.
6. To avoid danger of suffocation, keep all the plastic bag in the package away from babies and children. Do not use the plastic bag in cribs, beds, carriages or playpens. The plastic bag is not a toy.

PRODUCT RELATED EXPLANATION

【Intend Use】 The product is for people with inconvenience of having ability to walk fully or having or with disabilities (excluding obesity).

【Contraindications】 Intended user, with visual weakness, intellectual impairment or neck disease, who is unable to observe environment on the back, should be operated by others. Anyone with paraplegia below the chest, osteoporosis or hypochondriasis is prohibited to use the product.

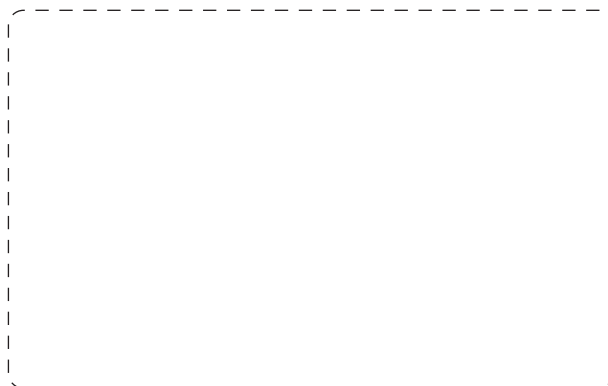
【Frame No.】 FNS01-2018-05-001



【Eternal Identification Mark】 Please refer to QR code on frame



【 Label of the Scooter 】



SPECIFICATION

Model	FNS01
Material of Frame	Aluminium Alloy
Unfold Size (L * W * H) (mm/inch)	946 × 495 × 926 mm (37.2"×19.5"×36.5")
Fold Size (L * W * H) (mm/inch)	418 × 495 × 693 mm (16.5"×19.5"×27.3")
Load Capacity	120 kgs (265 lbs)
Motor	180W × 1 pc brush motor
Controller	Dynamic
Battery	24V 6AH × 2 pcs lithium battery
Max Speed	6 km/h (3.7mph)
Driving Range	20 km (12.4 miles)
Front Wheels	161×50 mm (6.3"×2") PU solid wheels
Rear Wheels	190×54 mm (7.5"×2.1") PU solid wheels
Climbing Slope	Max 8°
Charging Time	6 hours
Width Between Armrests	435 ~ 475 mm (17.1"~18.7")
Seat Width	395 mm (15.6")
Seat Depth	385 mm (15.2")
Seat Height	560 mm (22")
Turning Radius	1200 mm (47.2")
Drive Model	Rear Drive
Braking System	Electromagnetic Brake
Weight (Without Battery)	24.3 kgs (53.6 lbs)
Weight (With Battery)	26.5 kgs (58.4 lbs)
Battery Weight	1.1 kgs × 2 pcs
Gross Weight With Export Packing	31.5 kgs (69.5 lbs)

SPECIFICATION DIAGRAM



Armrests are not included in standard production, an optional accessory for request.



LIST OF CONTENTS IN PACKING / BATTERY MOUNTING AND DISMOUNTING



Packing list

- Main device * 1
- Battery * 2
- Charger * 1
- Tools * 1
- Remote control * 1
- Users manual * 1

Battery mounting and dismounting

Mounting

1. Slide in battery from one end till it is loaded.
2. Push the other end down to battery holder till there is a click sound heard.



Dismounting

1. Push inner side groove, location as shown in photo 1.
2. Pull out the battery upward for taking out.



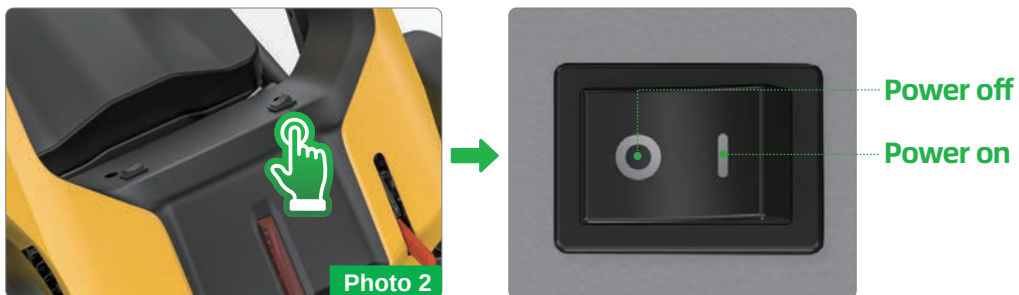
MAIN OPERATIONAL PARTS FUNCTION

Power Switch

The scooter has battery protection switch on rear side(Refer to photo 2). It is recommended the switch off if scooter is not used for more than 4 days, keep the switch on while scooter is used daily.

Step 1 Please push the rear power protection switch for turning power on and off, if scooter is not going to be used for more than 4 days. Switch it off would be great for power protection. (Location of power protection switch please refer to **Photo 2**) Switch it on while earlier was switched off and then go for **Step 2** for power on.

Directly press the power switch for power on and off if scooter is under daily use condition and rear power protection switch is kept on.



Load stuff into compartment under seat , which is very closed to power switch, may cause mistake touching of the power switch during operation of scooter, a sudden stop may lead to potential danger. Keep the compartment under seat clear.

Step 2 Press the power switch on control panel for power on and off (Refer to **Photo 3**).



Handle Bar Set

The handle bar set is including control panel (with LCD display of battery power, driving speed km/h, power switch, speed setting knob and horn.), handle, directional control lever. The major operational functions are shown. (Refer to Photo 4).



Photo 4



Photo 5

Battery power and speed are shown on LCD screen while power is turned on. (Refer to Photo 5).

Speed Adjustment

The adjustment of speed through speed control knob by fingers, speed range is from 0 km/h to 6 km/h at your choice. Turn the knob to very left for lower speed while turn very right for higher speed. (Refer to Photo 6).

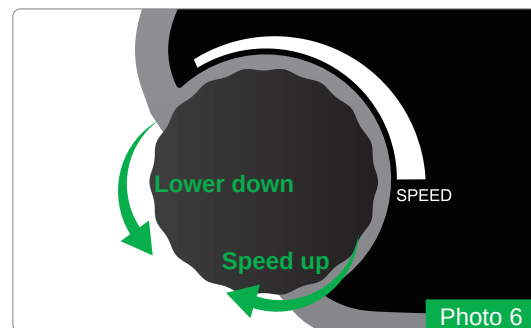


Photo 6



1. Always keep lower speed level during turning or backward for keeping safety.
2. Humidity of ambient environment significantly affects on the operational function main parts. Keep in low moisture surrounding before operating or during operating is strongly recommended.

Direction Control Lever

Forward and backward control are under Control Lever.

- Gently hold handle with both hands.
- Scooter goes forward by pulling left of lever to the back (or push right lever to the front) with fingers. (Refer to Photo 7).
- Goes backward by pulling right of lever to the back (or push left lever to the front) with fingers. (Refer to Photo 8).
- Beep sound goes on during backward.
- The control lever automatically return to neutral position while released and brake is engaged at the same moment.



Photo 7



Photo 8

Headlight switch: Push light switch for turning on and off headlight.

USD charging port: Available for charging other electronic devices.

Horn: Horn will be on by keeping pressing the horn button. Sound the horn in time under any necessary condition during driving.



Telescopic Steering Post

Pull up plastic clipper for adjusting the length of steering post, push back the clipper for locking at desired length of steering post.

Hand Brake Lever

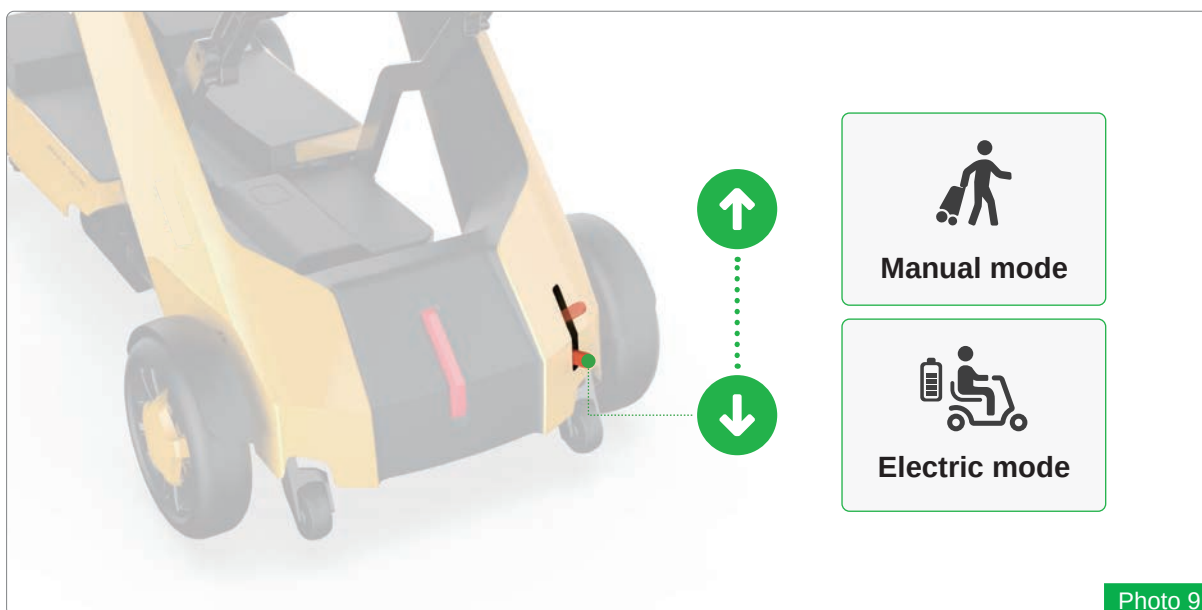
Hand Brake on and off can be done by switching the lever for manual or electric control. (Refer to Photo 9).

Electric Control Mode

Push down red lever at the back of scooter for electric control.

Manual Control Mode

Pull up red lever for manual control.



FOLD AND UNFOLD



The scooter is designed with 3 ways of fold and Unfold for customers choices depending on preferences and circumstances. They are **Automatic**, **Electric Switch** and **Manual** for your choice, please go through the instruction of these 3 ways under here.

Automatic Fold / Unfold

Keep pressing "🔒" or "🔓" button of remote controller. Automatic fold or unfold will be completed by scooter itself. (Refer to Photo 9).



Electric Switch for Fold / Unfold

Touch section "I" or "II" of switch button down at lower back of scooter till completely unfold or fold the scooter.



Load stuff into compartment under seat, which is very close to fold and unfold controlling switch, may cause mistake touching of the fold and unfold controlling switch during operation of scooter. A sudden fold of scooter will mistake activated that may lead to potential danger. Keep the compartment under seat clear.

Manual Fold / Unfold

Manual Fold

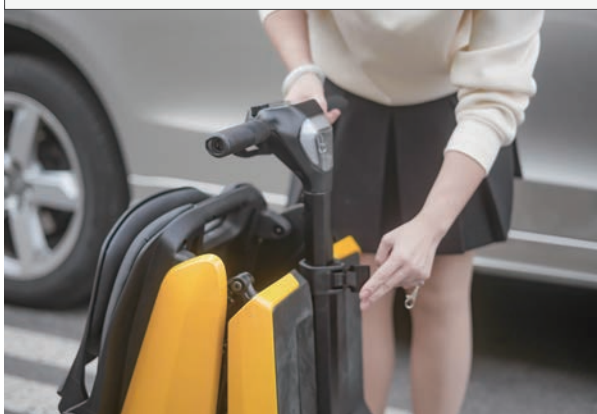
Step 1 Push the hand lever under the seat forward.



Step 2 Then lift up the lever up vertically till scooter is fully folded.

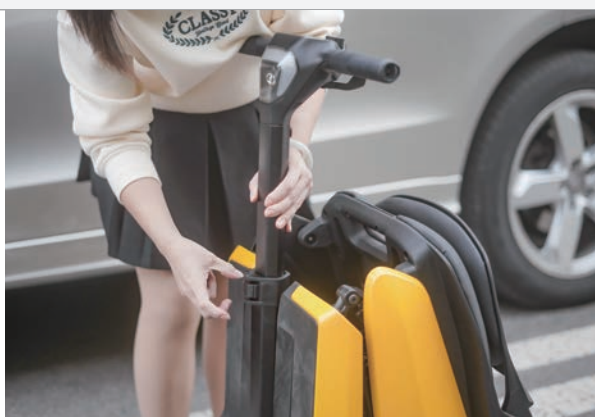


Step 3 Lower down steering post.



Manual Unfold

Step 1 Flip steering post locking to side to higher up steering post and lock it.



Step 2 Pull of push steering post to the front of scooter for unfolding.



Step 3 Once scooter is fully unfolded, flip up seat back.



Step 4 Push the hand lever under seat backward to lock unfold status.



BATTERY AND CHARGING

The scooter is design for maintenance free with long usage of Lithium Ion Battery. It is suitable to be Charged with 24V 2A charger.

1. Fully charge the battery is good for battery usage. At least charge once in every 3 month.
2. Charge battery to full level and take apart battery from scooter if not going to use your scooter for long period of time.

While FNS01 comes to battery charging, open the cap of charging port on end of handle bar and connected with charging plug till the battery is full charged. (Refer to photo 10). It is recommended charge battery to full every day for keeping best status.





1. Do not charge continuously over 6 hours through charging port of controller to prevent over charging while two batteries are inserted. Never charge over 3 hours when it is only one battery.
2. Make sure charger plug is fully plug in the charging port of scooter.
3. Disconnect AC power source after fully charge of battery will keep the life of Lithium Ion Battery longer.



1. Charger red light is off while power source and power of charger is on. Please check if the power connection is set properly.
2. Charging Time: 6hours if the dual battery on the scooter charging through charging port at one end of handle bar or off board charging.

Frequency of Charging

The frequency of charging is based on the following conditions.

- A. All day long driving of scooter.
- B. Occasional driving scooter.

How to reach maximum driving distance

- A. Make sure full charge before driving.
- B. Keep away from go up hills, macadam and soft terrain.
- C. Carry necessities, reduce load of scooter.
- D. Drive smoothly without intermittent.



Some knowledge on how charger charge battery

Large input of current from charge to battery at low voltage level, small current given from charger when battery is close to full. Almost zero or little current given to battery, continuously charging would not cause over charge, however, it is suggested charge duration not over 8 hours. The battery will continuous be charged under charger connected situation.

The indication of charger lights

Two LED lights are on charger, red stands for power connection, the other is charging status indication which shows charging with orange color and turns green on fully charged. Red light may continue after power source disconnection, there maybe something wrong. Normally red light will be off in a few seconds if disconnected to power source, it is normal for red light to snuff out while battery voltage is up to level.

Other type of charger

The charger is designed for battery of the scooter. Strongly suggest do not use other type of charger from original manufacturer.

Safe and reliable battery charging

- A. Do not charge continuously over 8 hours through charging port of controller to prevent over charging while two batteries are inserted. Never charge over 3 hours when it is only one battery.
- B. Keep charging time of single battery in 6 hours when it comes to off board charging to avoid over charging.
- C. Immediately unplug charger from power source as soon as indicating light on charger turns green.
- D. Charge scooter once a week when the use frequency is once in a week. Fully charge takes 6 hours.
- E. Keep battery at full power.



Suitable specification of battery. Lithium Ion battery with specification listed.



Do not take apart battery on your own. No need to add water for the battery. Miss use of battery cause damage are excluded in warranty.

BATTERY SAFETY AND LIFE GUIDE



The reason of weak on new battery

The scooter use deep-cycle battery under special chemical technology that allow battery quick to be charged with longer time use after full charge. Battery along with scooter packing is charged full, however, the performance of initial power will be reduced in the process of transportation, such as temperature variation.

High temperature causes battery power loss while low temperature lead to longer charging hours. It takes a few days for adapting to ambient environment then turn to normal after transportation. It takes a few days for returning to stable performance after several charging and discharging cycles.

Steps of improving battery performance

- A. Always charge to full when battery is new to ensure battery has 88% at least.
- B. Always charge battery to full after use and keep on driving scooter is safe and familiar locations. Stay low speed if you are first time user.
- C. Charge battery to full after second time driving, it will increase the battery reach 90% capacity performance.
- D. After 4~5 times of driving with full charging, the performance of scooter will reach 100% level.

Ensure battery life

Full charge of battery keep good performance and life longer, while over charge and seldom charge of battery damage.

Storage of scooter and Battery

Long time for not using scooter, please following the instruction for storage of scooter.

- A. Charge full battery.
- B. Disconnect battery.
- C. Keep scooter under dry and suitable temperature.
- D. Avoid dramatically temperature variation during storage.



Keep in warm condition a few days when battery get frozened.



Long time storage of scooter is preferred lay a plate under foot rest panel for supporting and it will avoid stain on tires after long time pressure to the ground.

INSTRUCTION OF OPERATION

Before operating instruction

- A. Make sure battery is fully charged.
- B. Familiar with the route condition including crowd, animal and potential obstacles.
- C. Always keep away from uneven and sloppy terrain.
- D. Check if it is fully inserted and the brake lever switch is pushed.
- E. Steering with both hands rest on handle bar.
- F. Sound the horn to check if it works.

Driving

Upon driving the scooter, please follow the following steps.

- A. Unfold scooter fully.
- B. Check if the seat at right position and adjust tiller to comfortable position.
- C. Turn on power after making seat properly with hands on handle bar.
- D. Gently push directional control lever with right thumb.
- E. Brake release automatically and scooter move forward. Do not push control lever to much in a sudden for the speed would be rapidly pick up.
- F. Turn handle bar to left for turning left.
- G. Right turning of handle bar to make right turn.
- H. Scooter move straight forward by keeping handle in center position.
- I. Brake is automatically on when control level in center position and once scooter stop going.

Steps of improving battery performance

- A. Always charge to full when battery is new to ensure battery has 88% at least.
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- C. Charge battery to full after second time driving, it will increase the battery reach 90% capacity performance.
- D. After 4~5 times of driving with full charging, the performance of scooter will reach 100% level.

End of Driving

- A. Make sure scooter is fully stopped.
- B. Turn off Power with Key or turn the rocker switch to "O" position.
- C. Carefully get off the scooter.
- D. Fold scooter with 3 types of choice through Remote Controller, Electric Switch or by manual.

WARRANTY

1. This warranty is valid from the date of product shipped out from factory and valid for the replacement of disfunctional parts only. Any parts under warranty will be replaced and shipped to your door. Any service and labor fees, if applicable, to replace parts under warranty must be paid by the user.
2. Due to its straightforward design, most parts can be easily exchanged by the end user without a professional service tech required. However, it is always recommended you seek professional help for maintenance and service, to make sure the work is done properly.

Under warranty

Chair frame	1 year	Motors	1 year
Controller and CPU system	1 year	Battery	6 months
Wear parts: Includes tires, seat and back rest, armrests, and support straps.			3 months

The warranty does not cover:

1. Products damaged by user negligence.
2. Products damaged accidentally.
3. Products damaged intentionally.
4. Products that have been subjected to negligence.
5. Products that have been subjected to abuse.
6. Products that have been improperly stored.
7. Products that have been improperly handled.
8. Products that have been improperly operated.
9. Products that have experienced general misuse.
10. Products that have been modified in an unauthorized, unapproved way.

Warranty is non-transferable and only valid for the original scooter purchaser.

The company reserves the right to make any change and improvement without prior notice.

It reserves and also the property of models and forbids any reproduction, even partial.

TROUBLE SHOOTING AND MAINTENANCE

Digital display on top control panel has reminding icons and code shown in case any fault of scooter, the factor of corresponding factors and trouble shooting methods are listed below under codes.



Reminding icon of fault

Red icon flash rule is:

Number of flash + stop + Repeat flash form a set of code, in then the set of code will be continuously flashing.

Description of flash code to identify the type of fault.

Flash *	Description
1 - 1	Thermal Cut-back / Stall
1 - 2	Throttle Trip
1 - 3	Speed Limit Pot Fault
1 - 4	Under Voltage Fault
1 - 5	Over Voltage Fault
2 - 1	Main Contactor Driver Off Fault
2 - 2	Unused
2 - 3	Main Contactor Fault

Flash *	Description
2 - 4	Main Contacter Driver On Fault
3 - 1	Drive inhibit / OONAPU / Proc or Wiring Fault
3 - 2	Brake On Fault
3 - 3	Precharge Fault
3 - 4	Brake Off Fault
3 - 5	High Pedal Disable Fault
4 - 1	Current Sense Fault
4 - 2	Motor Voltage Fault
4 - 3	EEPROM Fault
4 - 4	Power Section Fault

The battery of electric scooter is an extremely important part, the battery life determines the service life of the scooter. Try to keep the battery saturated after each use, to develop such a habit, it is recommended to conduct a deep discharge every month! If you don't use a electric scooter for a long time, place it in a place to avoid bumps and pull out the battery to reduce discharge. It is also best not to overload in the process of use, which has direct harm to the battery, so it is not recommended to overload and avoid directly affecting the service life of the battery (Refer to photo 11).



Photo 11



Photo 12

After the electric scooter is used for a period of time, it is necessary to check the screw loosening of the electric scooter to ensure the connection and operation between the parts and components, and to avoid accidents (Refer to photo 12).

After being wet by rain water, electric scooter should be wiped with dry rag in time, especially the part containing electrical circuit, so that the electric walking vehicle can keep dry and clean (Refer to photo 13).



Photo 13



Photo 14

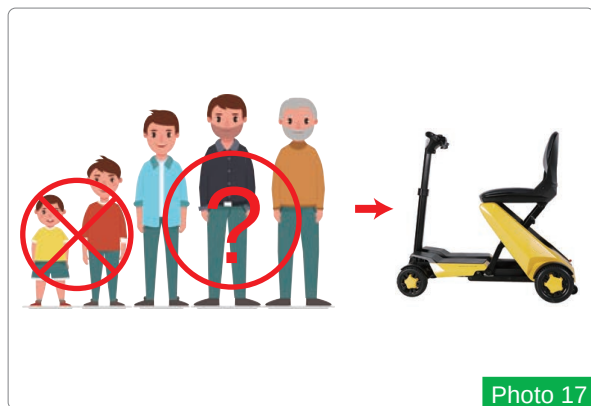
If the electric scooter is on the beach, gravel or wet road, if there is sand, mud or gravel on the tire, it should be cleaned in time to prevent some parts from rusting or the tire running badly, which will affect the beauty and driving comfort and safety (Refer to photo 14).

Electric scooter should avoid scratching seat leather and PU handrails and plastic ornaments with sharp objects, thus affecting the beauty of the whole vehicle (Refer to photo 15).



Electric scooter vehicle should be placed in a place where the sun can not shine, please avoid sunlight, otherwise it is not only harmful to the battery, but also has a direct impact on the service life of plastic parts and stickers of electric walking vehicles (Refer to photo 16).

Electric scooter are relatively simple to operate, avoid driving by children or adults without experience in electric scooter. Drivers should avoid unnecessary large-scale body movements or sleep on electric scooter, which may lead to accidental danger. In order to avoid this situation, it is best to unplug the power switch key when not in use. It also avoids the risk of theft (Refer to photo 17).



Maintenance tool Simple tool kit is accompanied with scooter in scooter packing, while dry soft fabric and so on are handy and easy to get in the market are not included. The period of maintenance is vary depending on the real use frequency and situation, there is no specific rule.

Maintenance frequency

1. Daily check

Turn off the controller, check the lever, make sure the lever is not bent and broken, and be sure to return to it when you release it. Check the nibber base of the lever for damage. Just check the base and do not repair it. If you have any questions, please contact your dealer.

2. Weekly check

Disconnect the controller connector and charger connector from the battery compartment. Check the connection and for corrosion. If necessary, please contact the dealer.

Make sure that all parts of the controller are tightly connected to the product, do not screw the screws too tightly.

Check the brakes. This inspection must be carried out on a level surface and there must be enough open space around.

Check the brakes:

- Turn on the controller. After one second, check the battery indicator to make sure the battery is powered.
- Slowly push the lever forward to guide you to hear the "beep" of the brakes, and immediately release the lever. You must hear the brake operation sound after each lever is pushed for a few seconds.
- Repeat the operation three times to push the controller to the rear, left and right sides for inspection.

3. Monthly check

- Check the anti-roll wheel for excessive wear and replace the wheel if necessary.
- Check the wear of the front wheels and drive wheels. If maintenance is required, please contact your dealer.
- Check the front fork for wear and looseness, which may indicate that adjustment is needed or the bearing needs to be replaced. Please contact the dealer for repair, or replacement.
- Keep the product clean and do not leave debris, such as food, beverages, residues, etc.

4. Storage

This product should be stored in a cool and dry environment. Do not store it at the extreme temperature. If it cannot be stored under the above conditions, it may cause rusting of the scooter, and damage to the electrical system. Storage conditions: temperature: -40 ~ +65 degree C; Relative humidity: W80%; Atmospheric pressure: 86kPa ~ 106kPa.

If you discover a problem, require for parts supply (Such as battery, tire, charger and so on) contact your authorized local Dealer or Distributor for assistance, alternatively direct contact with manufacturer with the following Contact Information.

Highly suggest that use original parts from supplier to avoid any potential issues or failure of function of scooter, please always consult with authorized local Dealer or Distributor first.

ELECTROMAGNETIC INTERFERENCE & COMPATIBILITY



1. FNS01 electric scooter meets the electromagnetic compatibility requirements of IEC60601 standards.
2. The user shall install and use according to the EMC information provided in the attached documents.
3. The portable and mobile RF communication equipment may affect the performance of electric scooter and avoid strong electromagnetic interference when using, such as close to mobile phones, microwave ovens, etc.
4. The guide and the manufacturer's statement are detailed in the annex.



1. FNS01 electric scooter should not be used close to or stacked with other equipment. If it must be used close to or stacked, it should be observed and verified that it can operate normally under the configuration used.
2. In addition to the cables sold by FNS01 electric scooter manufacturers as spare parts of internal components, the use of accessories and cables other than those specified may result in increased emission or reduced immunity of FNS01 electric scooter.

Project	Cablelength (m)	Whether or not shielded	Remark
POWER CORD	1.3	NO	/
CHARGER OUTPUT LINE	1.1	NO	/
EXTENSION CORD	0.12	NO	/

Guidelines and manufacturer's statement-Electromagnetic Emission		
FNS01 electric scooter is expected to be used in the electromagnetic environment specified below, and the buyer or user of the electric scoote shall ensure that it is used in this electromagnetic environment.		
Launch test	Compliance	Electromagnetic environment-Guidelines
IEC60601 RFlaunch	1	FNS01 electric scooter only uses RF energy for its internal functions. Therefore, its RF emission is very low and may not cause any interference to the nearby electronic equipment.
IEC60601 RFlaunch	B	FNS01 electric scooter is suitable for domestic use and all facilities directly connected to the public low-voltage power-supply network for domestic use.
IEC60601 Harmonic emission	A	
IEC60601 Voltage fluctuation/ flicker emission	FIT	

Guidelines and manufacturer's statement-Electromagnetic Immunity			
FNS01 electric scooter is expected to be used in the electromagnetic environment specified below, and the buyer or user of the electric scooter shall ensure that it is used in this electromagnetic environment.			
Anti-interference measurement	IEC60601 Test Level	Coincidence level	Electromagnetic environment-Guidelines
Electrostatic discharge (ESD) ISO7176 IEC60601	±6 kV Contact discharge ±8 kV Air discharge	±6 kV Contact discharge ±8 kV Air discharge	The floor should be wood, concrete or ceramic tile, and if the floor is covered with synthetic materials, the relative humidity should be at least 30%.
Electrical fast transient burst ISO7176 IEC60601	±2kV To the power cord	±2kV To the power cord	The power supply in the hospital or in the commercial environment should be of typical quality.
Surge ISO7176 IEC60601	±1 kV Differential-mode voltage ±2 kV Common mode voltage	±1 kV Differential-mode voltage	The power supply in the hospital or in the commercial environment should be of typical quality.
Voltage sag, short interruption and voltage variation on power input line ISO7176 IEC60601	–0% U_T , Last for 0.5 circuits (on U_T ,100% sag) –0% U_T ,Last for 1 circuit (on U_T ,100% sag) 70 % U_T , Last for 25 circuits (on U_T ,30% sag) 0% U_T ,Last for 5 seconds (on U_T ,100% sag)	–0% U_T , Last for 0.5 circuits (on U_T , 100% sag) –0% U_T , Last for 1 circuit (on U_T ,100% sag) 70 % U_T , Last for 25 circuits (on U_T ,30% sag) –0% U_T , Last for 5 seconds (on U_T ,100% sag)	The power supply in the hospital or in the commercial environment should be of typical quality. If the users of electric scooter need continuous operation during power interruption, uninterruptible power supply or battery power supply is recommended.
Power frequency magnetic field (50/60Hz) ISO7176 IEC60601	30 A/m	30 A/m	The power frequency magnetic field should have the horizontal characteristics of power frequency magnetic field in typical commercial or hospital environment.
Note: U_T refers to the AC network voltage before the test voltage is applied.			

FNS01 electric scooter is expected to be used in the following specified electromagnetic environment, and the purchasers or users of NPL001、NPL002、NPL003 electric scooters shall ensure that it is used in this electromagnetic environment:

Anti-interference measurement	IEC60601 Test Level	Coincidence level	Electromagnetic environment-Guidelines
RFconduction ISO7176 IEC60601	3 Vrms 150 kHz to 80 MHz	3 Vrms	Portable and mobile RF communication equipment shall not be used closer to any part of the electric scooter, including cables, than the recommended isolation distance. The distance shall be calculated by the formula corresponding to the transmitter frequency. Recommended isolation distance $d = 1.2 \sqrt{P}$
RF radiation (charger) ISO7176 IEC60601	3 V/m 80 MHz to 1.0 GHz	3 V/m	$d = 1.2 \sqrt{P}$ 80 MHz to 800 MHz $d = 2.3 \sqrt{P}$ 800 MHz to 1.0GHz
RF radiation (scooter) ISO7176 IEC60601	20 V/m 26 MHz to 2.5 GHz	20 V/m	$d = 0.2 \sqrt{P}$ 26 MHz to 800 MHz $d = 0.4 \sqrt{P}$ 800 MHz to 2.5 GHz Where P is the maximum output rated power of the transmitter provided by the transmitter manufacturer, in watts (W), and d is the recommended isolation distance in meters (m). ^B The field strength of the fixed RF-transmitter is determined by surveying the electromagnetic field A. in each frequency range, B should be lower than the coincidence level. Interference may occur near equipment marked with the following symbols. 

Note 1: At the frequency of 80MHz and 800MHz, the formula of higher frequency band is adopted.

Note 2: These guidelines may not be suitable for all cases where electromagnetic propagation is affected by absorption and reflection of buildings, objects and human bodies.

a. If the fixed transmitting airport is strong, such as the base station of wireless (cellular / cordless) telephone and ground mobile radio, amateur radio, am (amplitude modulation) and FM (frequency modulation) radio broadcast and television broadcast, and the field strength of the place where NPL001、NPL002、NPL003 electric scooters are located is higher than the RF coincidence level of the above application, then the electric scooter should be observed to verify It can operate normally. If abnormal performance is observed, supplementary measures may be necessary, such as reorientation or repositioning of the electric scooter. b. The field strength should be less than 3 V / m in the whole frequency range of 150 kHz to 80 MHz.					
Recommended separation distance between portable and mobile RF communication equipment and electric scooter.					
FNS01 electric scooter is expected to be used in an electromagnetic environment where radiated RF disturbances are controlled. According to the maximum output power of communication equipment, the buyer or user of electric scooter can prevent electromagnetic interference by maintaining the minimum distance between portable and mobile RF communication equipment (transmitter) and electric scooter.					
Rated maximum output power of transmitter/W	Isolation distance corresponding to different frequencies of transmitter/m				
	150 kHz ~ 80 MHz $d= 1.2 \sqrt{P}$	80MHz ~ 800 MHz (Charger) $d= 1.2 \sqrt{P}$	800 MHz ~ 2.5 GHz (Charger) $d= 2.3 \sqrt{P}$	26MHz ~ 800 MHz (scooter) $d= 0.2 \sqrt{P}$	800 MHz ~ 2.5 GHz (scooter) $d= 0.4 \sqrt{P}$
0.01	0.12	0.12	0.23	0.02	0.04
0.1	0.38	0.38	0.73	0.06	0.13
1	1.2	1.2	2.3	0.2	0.4
10	3.8	3.8	7.3	0.63	1.26
100	12	12	23	2	4
For the rated maximum output power of the transmitter not listed in the above table, the recommended isolation distance D, in meters (m), can be determined by the formula in the corresponding transmitter frequency column, where P is the maximum output rated power of the transmitter provided by the transmitter manufacturer, in watt (W). Note 1: At 80 MHz and 800 MHz frequencies, the formula for the higher frequency range is used. Note 2: These guidelines may not be suitable for all cases where electromagnetic propagation is affected by absorption and reflection of buildings, objects and human bodies.					

WARRANTY STATEMENT

Warranty Registration Card

User Name		ID No.	
Address		Phone No.	
Model		Product No.	

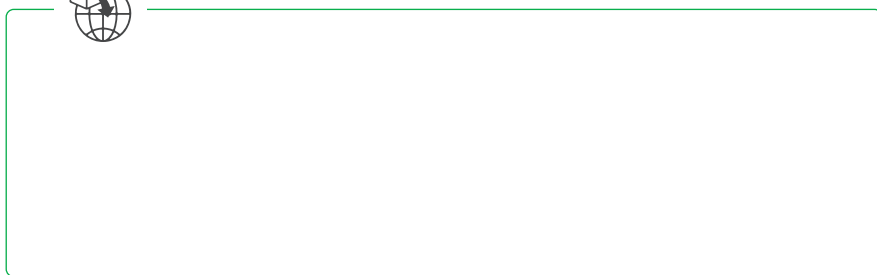
Purchasing Date	(Month) (Day) (Year)
Manufacturer	
Distributor	(Stamp or signature)
Distributor (Phone, Address)	

Manufacturer is responsible for any issue on material, manufacturing defect or design effect of the scooter while dealer will take care for maintenance and service.

Warranty excludes:

- A. Issues due to misuse and improper maintenance.
- B. Change components which is not from manufacturer.
- C. Accident caused damages.
- D. Consumption parts.
- E. Alteration of original design.
- F. Natural disaster resulted issues.

The guarantee card must be handed over to the after-sales department of the manufacturer in 15 days after returned to the dealer.



EC	REP
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FNS01

