

Monarch



Genie

INTRODUCTION

Dear Customer

Thank you for choosing Solax-Genie scooter !

Please read this manual carefully before operating Solax-Genie because this manual will help you to operate Solax-Genie smoothly. If you can't understand all of the content completely or you need the assistance, please contact the scooter dealer of Solax-Genie or Dongguan Prestige Sporting Goods Co. Ltd. TEL: 86-769-88918228, E-mail: alex@solaxtech.com.

This manual covered Solax-Genie main structure characteristics, main components, function of each part, safety requirements and instructions, battery instructions, matters need attention, the methods of dealing with emergencies, and scooter's maintenance.

The following symbols used in this manual in order to indicate warning and matters need to be attention; therefore, it is important to you to fully understand and master the content.



WARNING: Failure to note the warnings from this manual will cause your personal injury.

NOTIFICATION: Failure to note the notification from this manual will damage your Solax-Genie.

All of the information and pictures in this manual are subject to the factory's products (FIG 1) and only for customer's reference. The product will continue to be improved and modified without prior notice. Please do understand and support us.



(FIG 1-Genie-scooter)

Finally, we believe that Solax-Genie will lead you to the comfortable, convenient, and wonderful life.

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Product stipulate that the following situation should not be use.

1. Sick or ill person.
2. Patient with acute tumor.
3. Patient with heart disease.
4. Women in pregnancy or during menstruation.
5. Children under 12 years old.
6. Consult a physician before use who worry about own health.
7. Consult a physician before use who use the pacemaker.
8. Patient with action inconvenience or slow perception.
9. Unconscious, bad coma blood circulation or severe sensitive skin.

I. Genie Feature Guide

Solax-Genie is mainly composed of the following parts: Front and rear frame, Control panel, Front/Rear cover, Front tires, Rear tires, Handle switch, Handle, Drawtube, Folding seat, Seat carriage, Folding handrail, Footboard, Carry handle, Battery, Charger, Motor set.(FIG2)



(FIG2)

The overall design from Solax-Genie scooter is full of modern recreational flavor. Safety and comfort, easily operated, folded simply and conveniently carried, lightweight and stable. It mainly has following characteristics:

1. Frame is consisting of advanced aluminum alloy with light, strong and durable.
2. Don't need any tool to folding and unfolding. Easy operation.
3. Seat, front and rear frames can be folded, also easy to carry.
4. Solax-Genie is a portable and foldable scooter with light weight and small size which can be put in the trunk or take it with you through the public transportation.
5. Battery is easy to load and unload, also convenient for user to carry.
6. Comfortable—fit the ergonomic seat; Handle bar can be adjusted to a comfortable height and gradient.
7. 6 inch solid front tires and 7 inch solid rear tires design.
8. Starting smooth and braking stability.
9. Body shape-stream is beautiful and elegant, surface is smooth and bright, environmental protection and durable.

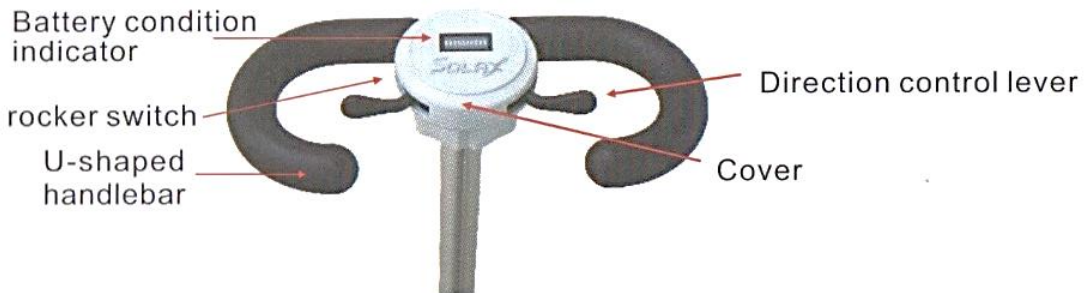
In conclusion, Solax-Genie is a unique scooter, for middle age, elderly, disabled, walking difficulties, weak and lack endurance elder people, cripple or physically disabled people. The scooter is a trust and worthy product. It also used for theme park, amusement park, zoo, museum etc. , meanwhile, it is an ideal riding and shopping tool for middle aged and elderly people.(the following figures)



» II. Main Part and Relevance Function

Control panel

The control panel is an operating controlling component, which is mainly to control power supply's connection and cut off, moving forward and backward as well as show the battery level, including power switch (rocker switch), direction control lever, battery condition indicator, control panel, cover, etc.



Genie control panel



NOTIFICATION: Do not put the control panel in the humid area. If the control panel has been affected by moisture before using, please ensure it is dry when you operate it.

Power Switch (In different regions, the power switch design is divided into the key switch and rocker switch)

- Power switch design: Please insert the key completely into the key switch and turn clockwise on the power before driving. If the power switch design is the rocker switch, please press the “—” and then you can turn on the power.
- Please turn the key by anticlockwise direction and remove the key from the power switch after using. Or press the “0” and then you can turn off the power.



WARNING: If the key is removed during use or press the rocker switch to "0". The electromagnetic brake will be locked and your scooter will stop suddenly.

Direction control lever

Forward and back control as below:

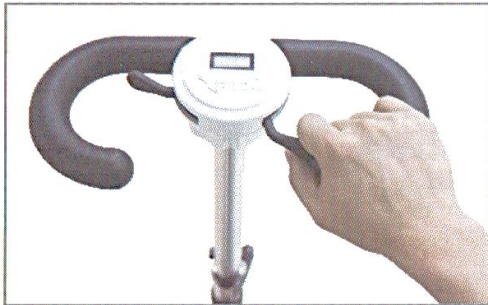


FIG 4



FIG 5

- Hold the U-shaped handlebar
- Stir the right direction control lever with your right forefinger, your scooter moves in forward direction. (FIG 4)
- Stir the left direction control lever with your left forefinger, your scooter moves in backward direction. (FIG 5)
- The direction control lever will return to the center position when release it and the brake will be locked.

Battery condition indicator

Battery condition indicator is an instrument that indicates the status of power in your batteries so as to provide reference data of how long the scooter can run normally. There are three indicating lights with different color: red, yellow and green. When you turn on the power and ride the scooter, the battery condition indicator will indicates the status of power in your batteries. If the red light is on, which means the power is weak, you need to recharge your battery; if the red and yellow lights are both on, which means the power is moderate; if three lights are all on, which means the power is sufficient.

Folding body:

When unfolding the folded Genie, use your right hand to press outward the release switch of the handle tube on the forehead of the scooter. (FIG 6 & FIG 7), then use the other hand to hold the edge of the seat, and then pull outward of the scooter body with your two hands (FIG 8). When the body has been unfolded to some degree, use one hand to push down the footboard until the footboard becomes a flat (FIG 9). Reset the seat until the body is fully unfolded (FIG10)

FIG 6



FIG 7



FIG 8

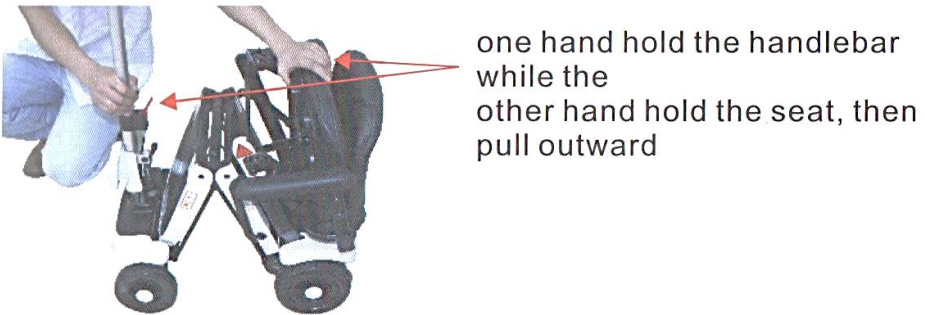


FIG 9

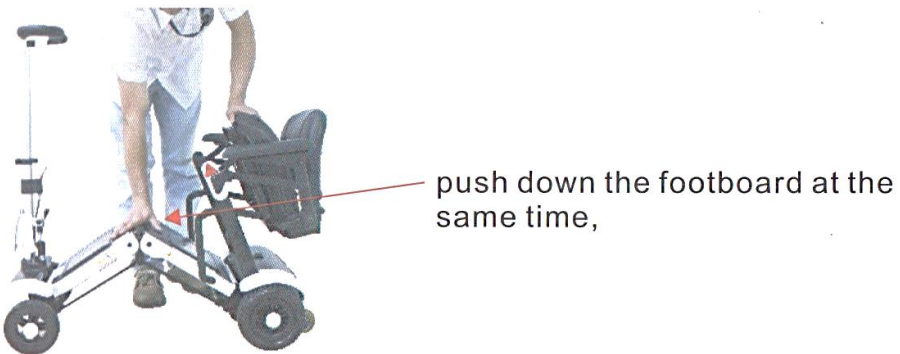
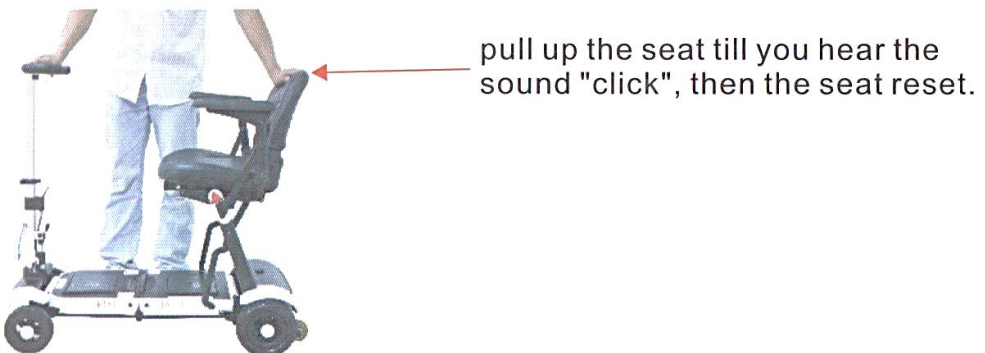


FIG 10





Warning:

1. Please keep your fingers away from the spots because that may clip your fingers when unfolding the scooter body.
2. Please don't unfold the scooter body before the lock switch has been turned on.
3. When adjusting the seat, the seat reset after you hear the "click" sound.

When folding the folded Genie, push down the Seat Fold Button under the seat with one hand (FIG 11), and use another hand to push down the seat back (FIG 12-13), then the front and back frame will automatically draw close and fold. And when the frame is folded to some degree, use your both hands (one hold the edge of the frame and another push the seat) push together the frame and the seat until the front and back frames are fully folded.

FIG 11



FIG 12



FIG 13



FIG 14



Collect the scooter with two hands push in wards

Telescope handlebar

Press down the handlebar switch (FIG 15) and adjust the handle tube to the extreme, then unlock and loosen the quick release (FIG 16), and the handle tube will draw down automatically. When the handle tube draws down completely, lock and buckle up the quick release (FIG 17).

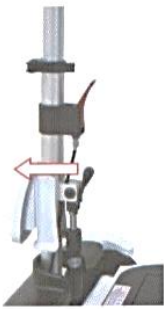


FIG 15



FIG 16

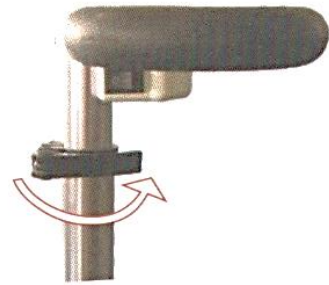


FIG 17

Controller

Controller is fixed in the rear cover and it receives the signal from the control panel and transfers to motor, brake and bulb.



Warning: Please do not place the controller in the humid environment. If the controller has been affected by moisture, make sure to dry it before operation

Brake

Genie is equipped with electromagnetic brake. Please do not switch off the brake by hands. Please raise the head of the scooter or fold your scooter to pull when you need to move your scooter by hands.

Motor/ Transmission component

Motor/Transmission components will convert the electrical energy to rear wheel drive.

III. Safety Requirements

Driving Surface

Solax-Genie has the best stability under the normal driving conditions (such as dry level ground with the constituent concrete or asphalt). However, it may meet other grounds, such as grassland, gravel and etc. So there are some requirements before riding the scooter:

- Please read this manual before driving the scooter.
- Make sure about your physical condition before driving the scooter.
- Solax scooter can be used in the park and grass safely.
- Try to avoid driving in the loose gravel, covered soil and sandstone.
- Do not drive the scooter if you can't tell the condition of the roads.
- Solax scooter can stride over an obstacle with a certain height, but you must minimize the speed and slowly drive over the obstacle.(FIG 18)

Load capacity	Height
<136Kg	60mm



FIG 18



Warning: Do not exceed the specify climbing angle (0-15°)

Please do follow the manual instruction before operation.

Safety Precautions

- Do not operate your scooter before you fully read and understand this manual.
- Do not carry passengers when you operate the scooter.
- Remove the key when you leave the scooter.
- Ensure the seat is fixed and fastened.
- Please slow down when driving on the uneven or soft ground.
- Please slow down before turning.
- Do not park on slopes.

- Approach slope end, slopes, raised ground and unprotected edge zone (such as curbside, vestibule and stairs etc.) with extra care.
- Changing initial setting or refitting your scooter is forbidden.
- Please be careful when driving in the busy streets, markets or shopping center; driving in the unsafe zone. Prohibited area is forbidden; please consult local authorities about the traffic rules for scooters.
- Hold the handle with both hands and put both feet on the footboard when driving.
- Using your scooter as a seat on a moving vehicle is forbidden.
- Please ensure the safety of the batteries when your scooter is on the other vehicles for transportation.
- Do not drive after drinking.
- Climbing or driving along the edges of roads is forbidden, otherwise, the scooter will be damaged permanently.
- Do not exceed the maximum tolerance gradient when driving.
- Do not carry passengers or exceed the maximum weight capacity.
- Do not reverse on uneven slopes or uneven ground; be careful when passing over slopes.



WARNING: The battery should be protected in freezing temperatures! Do not charge the frozen battery, otherwise, it will damage the battery and may cause personal injury.

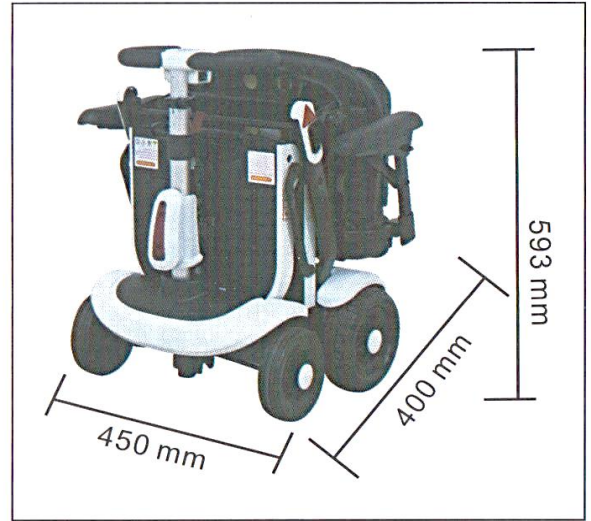


WARNING: Do not drive on freezing, slippery or salty ground, otherwise, you may suffer accident and personal injury.

IV. Specification



Unfold size FIG 19



Folded size FIG 20

Specification

Model	Genie
Length	930mm (36.9in)
Width	450mm (18.1in)
Tire	6 inches of front wheel 7 inches of rear wheel
Speed	6 km/h (3.7mph)
Safe gradient Maximum Gradient	0°-15°
Range up to	15km/9.32miles
Turning circle	1350mm
Total Weight(with battery)	26.6Kg (58.6ibs)
Colors	White & black
Brake	Intelligent regenerative electromagnetic brake
Drive system	Rear wheel differential drive
Handlebar	2 positions
Load capacity	136Kg (300ibs)
Ground clearance	60MM (1.6in)
Battery	25.9V/10Ah(Lithium battery)
Motor	24V 120W
Battery charger	DC29.4V/2A off-board (automatic protection charger)

» V. Battery and battery charging

This scooter is designed with one maintenance free 25.9V/10AH deep discharging Li-polymer battery with a long usage time as well as a long useful life. Charging with a 29.4V/2AR charger makes it easy to use.

- Charge the battery before the first operation. Please charge the battery every 3 months.
- In order to drive the scooter smoothly, the battery should be fully charged. And please remove the battery when you don't use the scooter

The Guide for charging steps:

1. Remove the key or switch off the rocker switch. Place the charger and switch off its power and insert the plug into the charge socket. Please view FIG-21.

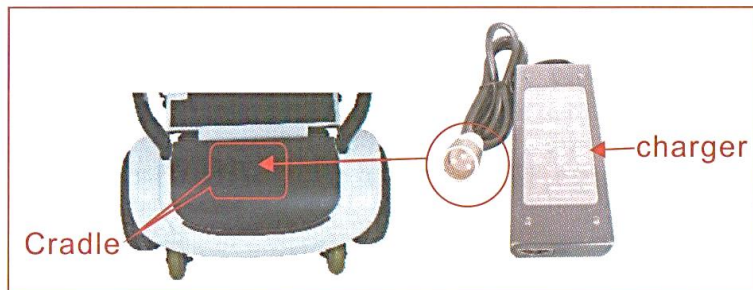


FIG-21



Warning: Match the charger socket and charger plug properly

2. Electrical connection: Insert one end of the AC power wire into the socket of household power then insert the other plug into the socket of the charger. (FIG 22)
Verify the connection before you turn on the main power switch. Red light indicates power on, orange light indicates on charging and green light means fully charged.
3. Turn off the power switch first when the battery is fully charged. Then take out the DC charging connector before you take out the AC input power socket.

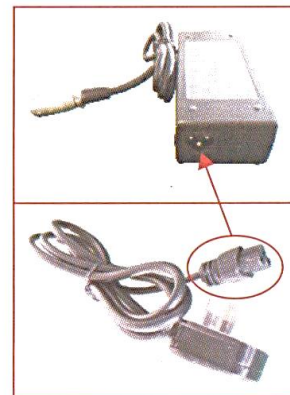


FIG 22



Warning: You must turn off the power switch once the battery is fully charged, and then take out the plug otherwise you may shorten the working life of the battery.

4. If the red light is off when the power on, please check whether the power plug is properly inserted.
5. Normally allows 8-14 hours for charging.



ATTENTION: The scooter has a self-locking function to prevent driving when you charge the battery.

Guide to Safe and Lasting Battery

How does charger work?

When battery voltage is low, the battery charger outputs a large current to charge the battery. When battery voltage is close to full, the battery charger outputs a small current. When battery is full, the battery charger will output very little current which is almost zero. Therefore, the battery will continually charge after connecting the charger, but will not overcharge. It is better to charge no more than 24 hours.

How does the indicator light (LED) in charger display?

There are two LED indicator lights in the charger. The red indicator light is the power indicator light. Regarding the other one, it is orange when charging and it will become green when the battery is charged fully. The red one will sometimes still on after pulling the charger plug out from the power socket; then you may think there is some thing wrong with the charger, however, in fact, it needs seconds for the red light to snuff out when the battery voltage is up to 26V.

Other chargers can be used?

In order to charge safely and efficiently, we suggest using the charger supplied by original manufacturer.

How often should charge the battery?

The charge times depend on:

- Driving Genie all day.
- Driving Genie occasionally for few times.

Following information will offer the safe and reliable charge method.

- If you driving scooter everyday, you should charge it after using. So that it is convenient for you to use it next day. Charging of the battery should be vary from 8 up to 12 hours.
- If driving scooter once a week, then charge battery once a week. Charging the battery should be vary from 12 up to 14 hours.
- Make sure your battery fully charged and saturation.

How can you get the maximum operating distance?

Some driving conditions such as hills, sidewalk gaps, uneven and soft surface, turning and against the wind will affect the driving distance and time after per battery charging.

Several methods for obtaining the maximum driving distance

- Fully charged your battery before driving it.
- Avoid hills, gaps, macadam and soft surface.
- Only to carry the necessities and reduce the luggage weight.
- Keep a constant speed.
- Avoid intermittent driving.

Which types and specifications of the battery should be used?

We recommend the Li-polymer battery which Genie has fitted with.



Warning: Please do not dismantle the Li-polymer battery and do not add water. Failure to observe this note will invalidate the warranty, and damage the battery and scooter.

Why the power of the new battery is weak?

Deep-cycle battery uses the unique chemical technology and design. It can be charged quickly and can be used for a long time after full-charged. The battery is fully charged already before leaving the factory, but may change its initial performance during the transportation due to the temperature. The power of the battery will lose in high temperature and it will extend the charging time in low temperature. The battery needs few days to adapt to the surrounding environment before it gets stable performance.

More importantly, deep-cycle battery can only get high performance after using for several times of charging-discharging cycles.

Please follow the steps to improve the battery performance as below:

1. New battery must be fully charged before using and it can reach 88% capacity.
2. Please drive in the safe and the familiar area. Low speed is recommended at the first time. Do not travel too far until you are familiar with the operation and the battery should be fully charged.
3. Please give the battery another fully charging after operated it in the second times and this will make the battery up to 90% capacity.
4. The battery capacity will top to 100% and extend the driving time after four to five charging and discharging cycles.

How to ensure the battery life?

A fully charged battery will provide good performance and extend battery life, so keep the battery full charged whenever possible. It will affect performance and shorten battery life if you over discharging, seldom charging or do not fully charge.

How to store scooter and battery?

If you don't operate your Genie, please follow the instructions:

- Charge your battery fully before you store it.
- Disconnect the battery from controller attachment joint.
- Store your scooter in a dry and warm place.
- Avoid to store Genie in temperature variation place.



Warning: If battery was frost, it should be kept warming for several days before charging.

If you will leave the scooter for a long time, please lay a plate under the footboard to support scooter. It can reduce stains of tires when wheels pressing on the ground.

» VI. Operational instruction

Check before operating:

- Please check the battery is fully charged or not. (Refers to “V. Battery and Battery Charging)
- Please check the driver knows the way or not. (Including the crowd, animal, obstacle)
- Avoid the un-flat and slope road condition,.
- Check if the key is inserted into the key switch or the end of rocker switch is pressed. (Refers to “II. Function Introduction”)
- Make sure your hands are steering the handle bar. (Refers to “II. Function Introduction”)
- Please check the horn is working or not.
- Please check the seat get stuck into safe lock hole or not.
- Please check the tiller quick release is locked or not.

Driving

- Please follow the instructions after you choose your route:
- Please unfold the scooter fully according to the instruction (FIG 6-10) after you read the manual.
- Unfold the seat to right position, and adjust the tiller for the suitable position, then lock it.
- Please seat on the seat and grasp the handlebars, then turn on the power switch.
- Press the speed control lever gently by your right thumb.
- Brake releases automatically and scooter will move forward (Remark: do not press the speed control lever too fast)
- Push right handlebar moves scooter turn left when operating.
- Push left handlebar moves scooter turn right when operating.
- Steer the handlebar in the middle, scooter will move in forward direction.
- Release the speed control lever, until scooter has slowed down or fully stopped.
- Press the speed control lever gently by your left hand thumb, scooter will move backward steadily at the speed you set.
- Brake can be automatic locked when scooter fully stopped.

Finish operating

1. Make scooter fully stopped
2. Off the switch and remove the key or press the rocker switch “0”.
3. Get down scooter in safety.
4. Fold the scooter according to the instruction: FIG 11-17.

» VII. Basic troubleshooting

The main reason is battery without sufficient capacity or performance declined, and most of the electrical equipment issue can be solved by yourself.

- Please check the key is inserted into the switch or not, and keep it "on".
- Check it if the battery is fully charged or not. (Refers to "V. Battery and Battery Charging)
- If the battery capacity is insufficient, please increase the charging time/ cycles. (Refers to "V. Battery and Battery Charging)
- If the issue continued, then battery capacity testing is needed.

Scooter can not work continually when you are driving it

- Battery line is loose.
- Motor carton bush is damaged.

Speed suddenly slows down when driving

- Battery capacity is insufficient.
- Battery aging.

If met the problem that you can not solve it by yourself, please contact your dealer for further consult and assistance.

» VIII. Maintenance

There are few parts of Solax scooter require maintenance.
The following issues must be checked and maintained:

The connection of the battery and electrodes

- Ensure the electrode connections are tight and have no corrosion.
- The battery should be placed flatly inside the battery holder.

Wire Connector

- Check all the wire connectors regularly.
- Check all the wiring insulation condition, including the plug of the charger regularly
- Repair or change the damaged connector and connector joint.

ABS Plastic Cover

- Control panel, front cover, footboard and back cover are all made by durable ABS plastic with baking finish on the surface. Do not use oil or other chemical liquids to wipe the scooter. In order to prevent the electrical components from damage, do not wash the scooter from the tap directly.

Bearings and Motor/Transmission Parts

- The components have injected lubricant and are sealed; therefore, it is unnecessary to inject lubricant any more.
- Protect all the electronic components from moisture, such as control panel, battery charger and other electric controlled components.
- If some components become damp, please dry it before use.

Storage

Please refers to “V. Battery and Battery Charging” and ”How to store your scooter and battery”.

Once your Genie is folded out for the first time, you will notice that several labels are located on the floorboard and other areas of the Genie. These labels are to provide both “SAFETY WARNINGS”.



WARNING

Before driving please check:

1. Do not use before reading user's manual.
2. Each folding frame to keep on stable.
3. Handle is locked and adjusted in position.
4. Seat is locked on seat frame and engaged.
5. Limit for one person and do not stand up when operating scooter.
6. Maximum loading capacity is 300 lbs.

WARNING

EMI-RFI This product has been tested and passed at an immunity level of 20V/M. For more information refer to user's manual.

WARNING

pinch point

WARNING

Uncompleted folding procedure will damage or injure scooter and person.

WARNING

1. Do not use batteries with different amp-hour capacities. Use only AGM or GEL batteries.
2. Do not mix old and new batteries. Always replace both batteries at the same time.
3. Do not mix AGM and GEL batteries. Always use batteries of the same type and chemistry.
4. When you exchange to Li-Poly battery, please follow the Li-Poly user instruction.
5. Always keep area clean and dry.

SOLAX Battery for Solax Genie
easy life

Model	Genie 153*202.5*40
Battery	25.9V10AH --- 259Wh
Battery charger	DC29.4V/2A Automatic protection charger

Note:

1. For 1st time charging is 24 hours. Failed operation will damage your battery.
2. In order to drive your scooter smoothly, the batteries should be fully charged.

TB11101892 Made in China

Caution: Do not touch the locking of pull lever when people are sitting on the chair.

Please exchange batteries when firstly use



SOLAX ELECTRIC SCOOTER

Warranty Card

User Name		ID No.	
Address		Phone No.	
Model		Item No.	
Purchasing Date	YY	MM	DD
Guarantee Time	12 months warranty from purchasing date (6 months warranty for battery)		
Manufacturer	Dongguan Prestige Sporting Goods Co. Ltd.		
Supplying Dealer (Stamp or Sign)			
Phone No (or Address)			

(1). Warranty Statement:

Dealer is responsible for the repair or replacement from the parts when quality problems of Materials, manufacture or assembling comes out under the normal usage.

(2). Warranty Exclusions:

- a. Damages caused by improper operation and maintenance;
- b. Damages caused by irregular spare parts;
- c. Damages caused by accidents;
- d. Consumables are not covered by warranty such as the tires, bearings, bulbs etc.
- e. Damages caused by unauthorized refit of the scooter;
- f. Damages caused by natural disasters such as hurricanes, floods and earthquakes;

1. Warranty stub for dealer

SOLAX ELECTRIC SCOOTER

Warranty Card

User Name		ID No.	
Address		Phone No.	
Model		Item No.	
Purchasing Date	YY	MM	DD
Guarantee Time	12 months warranty from purchasing date (6 months warranty for battery)		
Manufacturer	Dongguan Prestige Sporting Goods Co. Ltd.		
Supplying Dealer (Stamp or Sign)			
Phone No (or Address)			

(1). Warranty Statement:

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- e. Damages caused by unauthorized refit of the scooter;
- f. Damages caused by natural disasters such as hurricanes, floods and earthquakes;

2. Warranty stub for customer

SOLAX ELECTRIC SCOOTER

Warranty Card

User Name		ID No.	
Address		Phone No.	
Model		Item No.	
Purchasing Date	YY	MM	DD
Guarantee Time	12 months warranty from purchasing date (6 months warranty for battery)		
Manufacturer	Dongguan Prestige Sporting Goods Co. Ltd.		
Supplying Dealer (Stamp or Sign)			
Phone No (or Address)			

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