

# USERS MANUAL



## VOGUE

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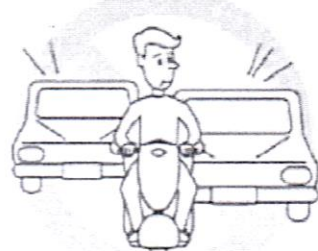




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# SAFETY INSTRUCTION

## General

 <p>Never use electronic radio transmitters such as walkie-talkies, or cellular phones.</p>	 <p>Make sure that there are no obstacles behind you while reversing your scooter.</p>
 <p>Do not make a sharp turn or a sudden stop while riding your scooter.</p>	 <p>Do not ride your scooter in traffic.</p>
 <p>Do not attempt to climb curbs greater than limitation show on Technical Specification</p>	 <p>Do not leave your hands and legs off the scooter when driving.</p>
 <p>Do not rider your scooter during snow in order to avoid accident on slippery road.</p>	 <p>Do not allow unsupervised children to play near this equipment while the batteries are charging.</p>

.Warning

1. To prevent injury to yourself or others, always ensure that the power is switched off when getting on or off of the scooter.
2. Always check that the drive wheels are engaged (drive mode) before driving. Do not switch off the power when the scooter is still moving forward. This will bring the chair to an extremely abrupt stop.
3. Do not use this product or any available optional equipment without first completely reading and understanding these instructions. If you are unable to understand the warnings, cautions or instructions, contact a Monarch Mobility professional, the dealers or technical supports before attempting to use this equipment, otherwise, injury or damage may occur.
4. There are certain situations, including some medical conditions, where the scooter user will need to practice operating the scooter in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional especially trained in assisting a scooter user in various daily living activities. Consult with your physician if you are taking any medication that may affect your ability to operate your scooter safely.
5. Do not attempt to lift or move a power scooter by any of its removable parts including the armrests, seats or shrouds. Personal injury and damage to the power chair may result.

6. Never try to use your scooter beyond its limitations as described in this manual.

#### . Modifications

Monarch Mobility Medical Product has designed and engineered power scooters to provide maximum utility. However, under no circumstances should you modify, add, remove, or disable any part or function of your power scooter. Personal injury and damage to the power chair may result.

1. Do not modify your power scooter in any way not authorized by Monarch Mobility. Do not use accessories if they have not been tested or approved for Monarch Mobility products.

2. Get to know the feel of your power scooter and its capabilities. Monarch Mobility recommends that you perform a safety check before each use to make sure your scooter operates safely.

#### . Inspections prior to using your power scooter:

1. If equipped with pneumatic tires, please check for proper tire inflations.

2. Please check all electrical connections and make sure they are tight and not corroded.

3. Please check all harness connections and make sure they are secured properly.

4. Please check the brakes.

#### . Weight limitation.

1. Please refer to the specifications table for weight capacity information. Power scooter is rated for a maximum weight capacity.

2. Stay within the specified weight capacity for your scooter. Exceeding the weight capacity voids your warranty. Monarch Mobility will not be held responsible for injuries or property damage resulting from failure to observe weight limitations.

#### . Tire inflation

1. If your scooter is equipped with pneumatic tires, it is necessary to check the air pressure at least one time a week.

2. Proper inflation pressures will prolong the life your tires and ensure the smooth operation while riding.

3. Do not under-inflate or over-inflate your tires. It is critically important that 30-25 psi (2-2.4bar) tire pressure be maintained in pneumatic tires at all times.

4. Inflating your tires from an unregulated air source could over-inflate them, resulting in a burs tire.

#### . Temperature

1. Some of the parts of the power scooter are susceptible to change in temperature. The controller can only operate in temperature that ranges between -25°C ~ 50°C.

2. At extreme low temperatures, the batteries may freeze, and your power scooter may not be able to operate. In extreme high temperatures, it may operate at slower speeds due to a safety feature of the controller that prevents damage to the motors and other electrical components.

## ELECTROMAGNETIC INTERFERENCE (EMI)

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (EM) radio waves that are emitted by television, radio and communication signals. These EM wave are invisible and their strength increases as one approach the source. All electrical conductors act as antennas to the EM signals and, to varying degrees, all power wheelchairs and scooters are susceptible to electromagnetic interference (EMI). The interference could result in abnormal, unintentional movement and/or erratic control of the vehicle. The United States Food and drug Administration (FDA) suggests that the following statement be incorporated to the user's manual for all power scooter like the *Monarch Vogue Power* scooters may as susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy emitted from sources such as radio stations, TV stations, amateur radio (HAN) transmitter, two-way radios, cellular phones and alarm systems of shops. The interference (from radio wave sources) can cause the power scooter to release its brakes, move by itself or move in unintended directions. It can also permanently damage the powered scooter's control system. The intensity of the EM energy can be measured in volts per meter (V/m). Each powered scooter can resist EMI up to a certain intensity. This is called "immunity level". The higher the immunity level the greater the protection. At this time, current technology is capable of providing at least 20 V/m of immunity level, which would provide useful protection against common sources of radiated EMI.

Following the warnings listed below should reduce the chance of unintended brake release or powered scooter movement that could result in serious injury:

1. Do not turn on hand-held personal communication devices such as citizens band (CB) radios and cellular phones while the powered scooter is turned on.
2. Be aware of nearby transmitters such as radio or TV stations and try to avoid coming close to them.
3. If unintended movement or brake release occurs, turn the powered scooter off as soon as it is safe.
4. Be aware that adding accessories or components, or modifying the powered scooter, may make it more susceptible to interference from radio wave sources (Note: It is difficult to evaluate the effect on the overall immunity of the powered scooter).
5. Report all incidents of unintended movement or brake release to the powered scooter manufacturer, and note whether there is a radio wave source nearby.

TURN OFF YOUR POWERED SCOOTER AS SOON AS POSSIBLE WHEN EXPERIENCING THE FOLLOWING:

- . Unintentional scooter movements
- . Unintended or uncontrollable direction.
- . Unexpected brake release

We as the manufacturer of power scooters asking them to test new products to be sure they provide a reasonable degree of immunity against EMI. We require that a powered wheelchair should have an immunity level at least 20 V/m, which provides a reasonable degree of protection against more common sources of EMI. The higher the immunity level the greater the protection. Your powered scooter has an immunity level of 20 V/m which should protect against common sources of EMI. Warning: The scooter itself can disturb the performance of the electromagnetic fields such as emitted by alarm systems of shops.

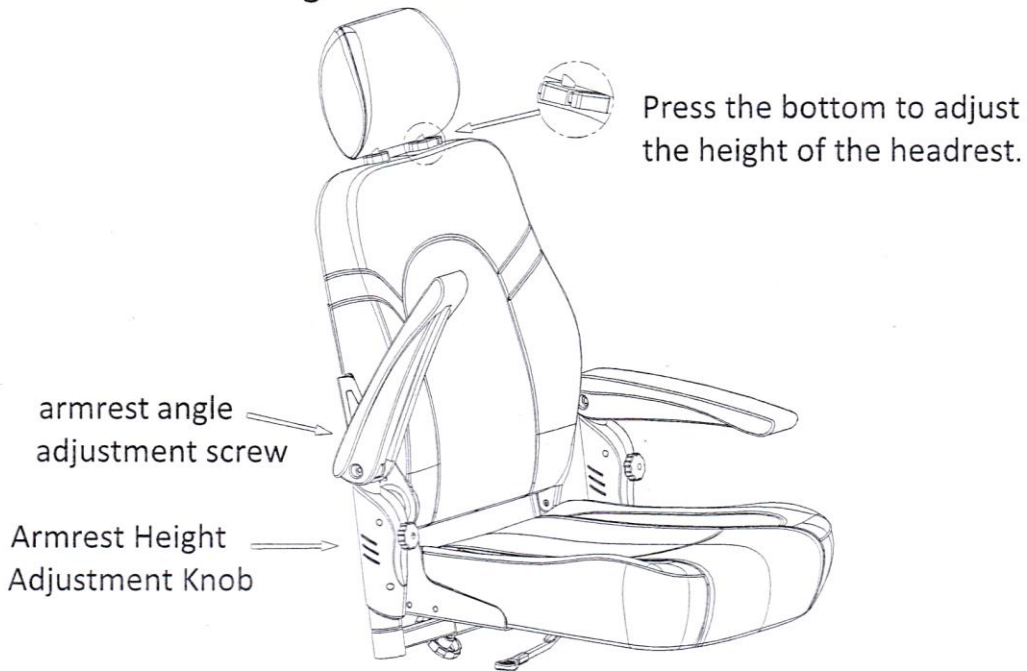
## TECHNICAL SPECIFICATIONS

MODEL	Monarch Vogue
WEIGHT CAPACITY	159kgs (350lbs)
SEAT: TYPE/SIZE	18"*18"
DRIVE WHEEL	330mmx120mm(13"x5")
FRONT CASTER(WHEEL)	330mmx100mm(13"x4")
REAR CASTER(ANTI-TIPPER)	None
MAX SPEED	13KPH(8.0 MPH)
BATTERY SPECIFICATIONS	12V 75Ahx2pcs
BATTERY RANGE	45km
CHARGER TYPE(240VforEurope)	8Amp,Off Board (220V for Europe)
CONTROLLER TYPE	S-DRIVE120A
MOTOR TYPE	650W
WEIGHT:W/BATTERY	136kg(300lbs)
WEIGHT:W/OBATTERY	92.5kg(204lbs)
TURNING RADIUS	2000mm
SUSPENSION	FULL
LENGTH	1490mm
WIDE	710mm
HEIGHT	1390mm
SEAT WIDTH	460mm
SEAT DEPTH	460mm
BACK HEIGHT	530mm
GROUND CLEARANCE	80mm
LEG ROOM	360mm



## COMFORT ADJUSTMENT

Adjustments for Seating Comfort:



Push the swivel lever downwards to rotate the seat.

Figure1

Armrest height adjustment

1. Loosen "Armrest Height Adjustment Knob" (Figure 1) until you can pull it outward. Note: The knob is retained in its housing with a spring.
2. While keeping the knob pulled, raise or lower the armrest to the desired position then release the knob. After releasing the knob, you may have to raise or lower the armrest until it aligns with the nearest locking position.
3. Tighten the height adjustment knob.

Armrest Angle adjustment

To increase the armrest angle, turn the armrest angle screw clockwise. To decrease the armrest angle, turn the armrest angle screw counterclockwise.

Driving and braking

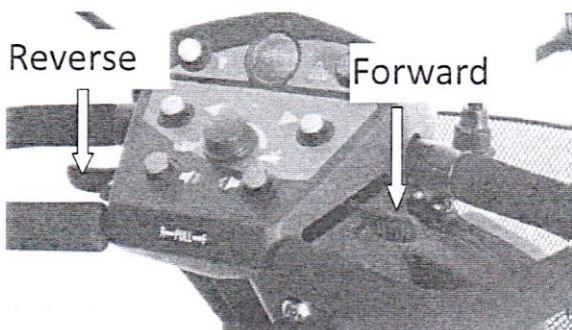


Figure2

Optional handle brake lever

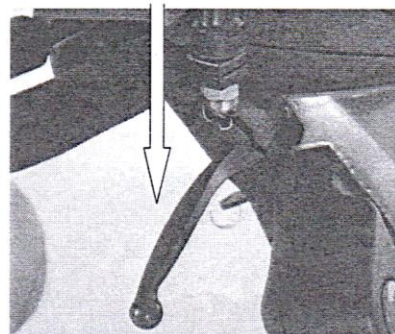


Figure3

- For Driving please pull the right throttle lever (forward) or the left throttle lever (rearward).
- Please release the throttle lever to stop the scooter. In the center position the magnetic motor brake system works also as a parking brake. Optional there is a hand brake system available.
- For safety, when rolling at free-wheel mode down slope, the automatic brake will take action if the transferring speed is more than 30% of the scooter's maximum speed.

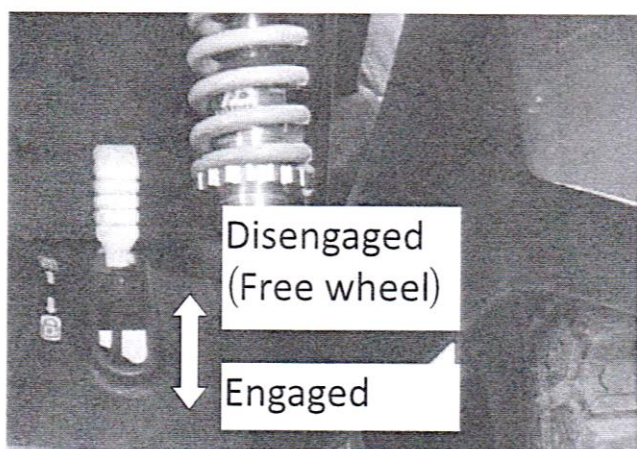


Figure4

- Please be noted that the scooter will be at free-wheel mode, when the motor is disengaged.
- To use the parking brake, you must move and lock the lever into the engaged position!

## 2.4 Tiller Positioning

Use one hand to grasp a handgrip.

Pull on the release lever and position the tiller at a comfortable and safe operating angle. Release the tiller adjustment lever. It will automatically lock the tiller at the selected angle.

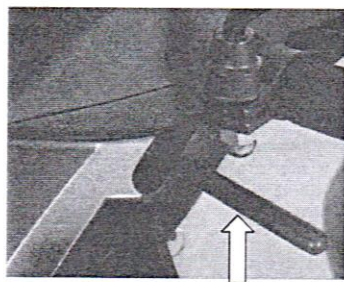


Figure5



Figure6

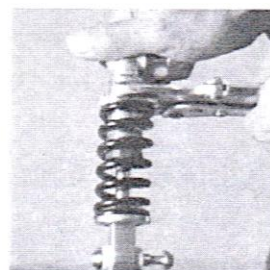


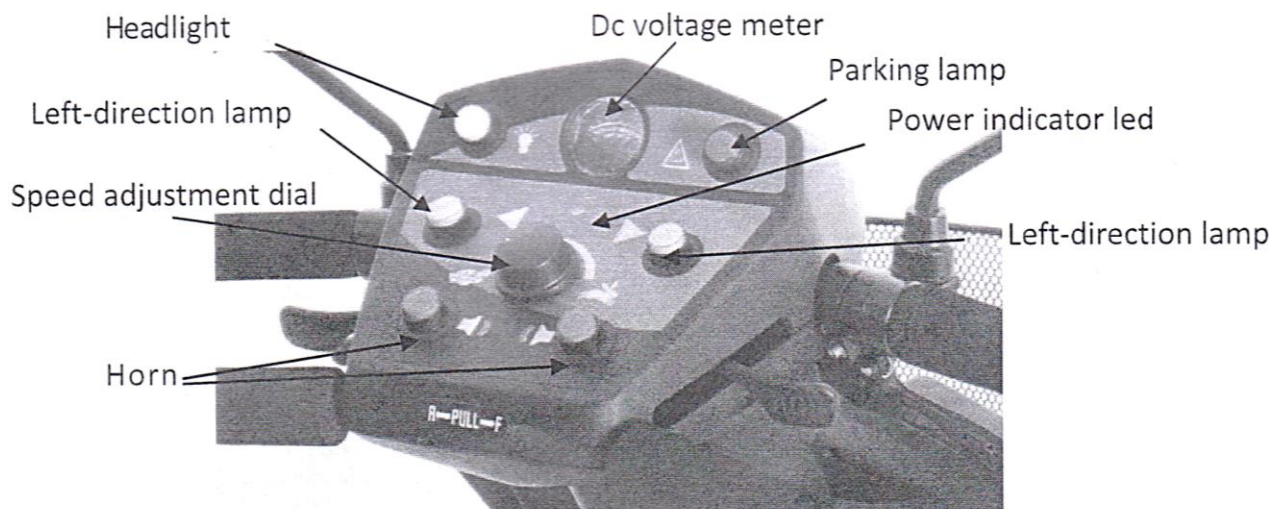
Figure7

Tiller angle adjustment handgrip

## 2.5 The adjustment of the suspension system:

The softness of the rear suspension system can be adjustable. See picture 7.

## OPERATION OF CONTROL PANEL



Control Panel figure 8

### Speed Adjustment Dial

The speed adjustment dial allows you to preselect the maximum top speed of your scooter. See figure 8.

Turn the dial counterclockwise to operate your scooter at the lowest speed level.

Turn the dial clockwise to increase the operational speed of your scooter.

We recommend that you select a speed setting at which you feel comfortable, safe, and in control of your scooter.

### Power Indicator LED

When the power to your scooter is turned on, the Power Indicator LED (Light Emitting Diode) will light up. See figure 8. This LED is used for diagnosing operational problems that may arise. Please see the Diagnostics section of this manual.

### Horn Button

Press this button to sound the horn. See figure 8.

### Headlight Switch Button

Press the button once to turn on the head lights.

Press the button a second time to turn off the head lights.

### Left-direction lamp

Press button once, left-indicator flashing, and warning sound act. Press again to turn off left-indicator.

### Right-direction lamp

Press button once, right-indicator flashing, and warning sound act. Press again to turn off right-indicator.

### **Parking lamp**

Press button once, turn on, right-left indicators flashing , warning sound act . Press again to turn off the Parking lamp function.

High / Low Speed

Switch High / Low speed by dialing switch once.

“H”symbol means “High Speed”

“L”symbol means “Low Speed” :

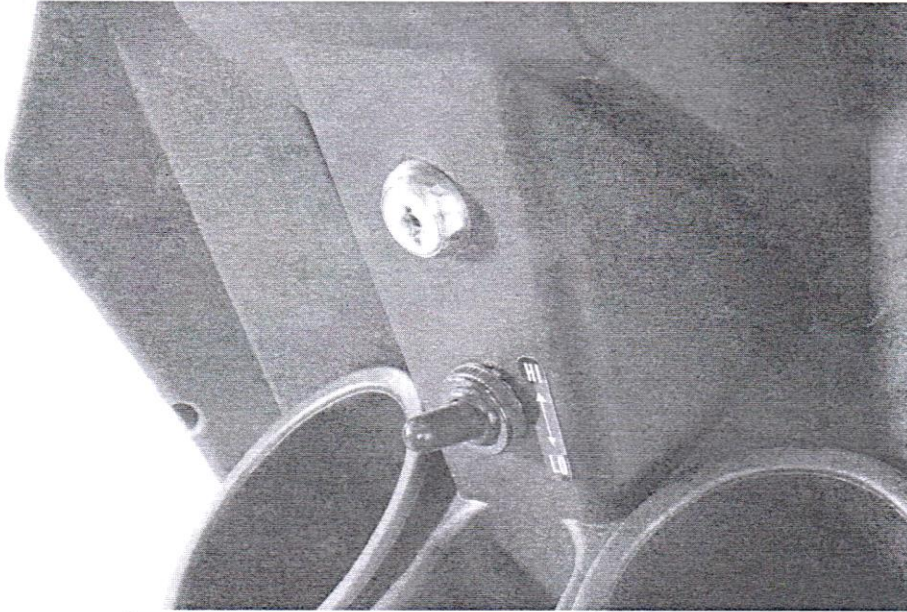


Figure9

# CHARGING INSTRUCTION

## Battery Charger Instruction

### 1.SPECIFICATION.

Item	BATTERY CHARGER (SWITCHING MODE)
Model	HJ-2408A
Output Current(DC)	8A±10%
Charging Voltage(DC)	29.4V
Floating Voltage(DC)	27.4V
Input Voltage(AC)	110/220V 43~60Hz
Efficiency	AC-DC85%
Operating Temperature	0°C ~ 40°C
Switching Method	SWITCHING MODE
Charging Method	Constant current two stage constant voltage
Battery Application	24V Lead Acid Rechargeable Battery (26Ahr ~ 75Ahr)
Output Detection	1.Short Circuit Protection 2.Reverse Power Protection 3.Overheat Protection 4.Charging Plug Protection
Operating Humidity	8% ~90%
Measure	L 173mm×W 90mm×H 63mm
Weight	1.2Kg
Color	black

### 2. OPERATING INSTRUCTION

- (1)Make sure the battery charger output voltage is the same as the connecting battery.
- (2)Plug in the power cord. LED indicates green flash when AC power on.
- (3)Connect the battery charger to the battery.
- (4)Start charging; please refer to 4. LED INDICATION

### 3. LED INDICATION

- (1)Green Flash: Power on
- (2)Red: Charging
- (3) Green: Full charged(Floating charge)

#### 4. TROUBLE SHOOTING

(1) If green indicator is off:

.Check AC input. If it works functionally, the battery charger may be defective.

(2) If green indicator keeps flashing and cannot turn to charging indication:

.Check if the battery connector is connected successfully.

.Check if there is any short circuit on the output connection.

.The battery charger may be defective if the battery connection works functionally.

(3) If red indicator keeps flashing :

.Check if the battery connection is reversed.

.Check if there is any short circuit on the output connection.

.Check if the environment temperature is too low (0oC)

.The battery charger may be defective if the red indicator still keeps flashing.

(4) Charging indicator (red) cannot turn to green:

.The battery might be defective, please stop charging and have the battery be repaired.

(5) If the charging indicator (red) turns to green (fully charged) immediately:

.The battery may be in well-charged condition.

.The battery may be defective if the battery is not fully charged.

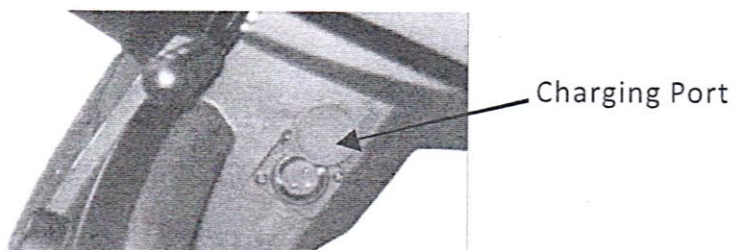
#### 5. CAUTION

(1) Before using the battery charger, read all instructions and cautionary markings.

(2) Use the battery charger in a well-ventilated area

(3) To avoid the risk of injury, charge only lead-acid or gel cell type rechargeable batteries.

(4) Please turn off the power after charging



#### Important!

. Always charge your batteries in well ventilated areas.

. The charger is intended for indoor use only. Please protect it from the moisture.

. For maximum performance, it is recommended that you replace both batteries at the same time if the batteries are weak.

. If the scooter will not be used for a long period of time, arrange to have the batteries recharge at least once every month to avoid deterioration of the batteries.

## BATTERY INSTRUCTION & MAINTENANCE

- . Read through the charger operating instruction before using it.
- . Make sure you charge the battery every time after you use the power chair or scooter.
- . Charge the battery at least 24 hours a week if the power chair or scooter has not been used. (This is to make sure that the electrolyte is always at the top level)
- . If the battery cannot be charged (Orange light cannot turn to Green) or if the Orange light turns to Green immediately, please check it with the technicians. The battery may be defective.
- . The voltage difference between the two batteries on a power unit cannot be more than 0.5 V; the battery case should be inspected for cleanliness and evidence of damage.
- . If the charger indicates red light, please kindly check if the charger is defected or if the cable wiring connection is poor.
- . Please keep the battery ⊖ and ⊕ connectors clean otherwise the charging condition will be poor.

## SCOOTER MAINTENANCE & REPAIR

Your power scooter is designed for minimal maintenance. However, like any motorized vehicle it requires routine maintenance. To keep your Monarch Vogue for years of trouble-free operation, we recommend you follow the following maintenance checks as scheduled.

### DAILY CHECKS

1. Visual check on the conditions of tires.
2. Inspect the battery condition meter on the controller to determine if batteries need to be charged.

### WEEKLY CHECKS

1. Your power scooter comes with standard pneumatic tires. If your power scooter comes with optional air tires, make sure to maintain the pressure of the tires between 30-35 psi.

### MONTHLY CHECKS

1. Visually inspect the controller harnesses. Make sure that they are not frayed, cut or have any exposed wires.

### SEMI-ANNUAL CHECKS

1. Check the motor brushes. We recommended that your authorized dealer inspect the brushes every six months or sooner if your power scooter is not operating smoothly. If inspection determines excessive wear on the brushes, they must be replaced or motor damage will result.

Warning! Failure to maintain the brushes could void the power scooter warranty.

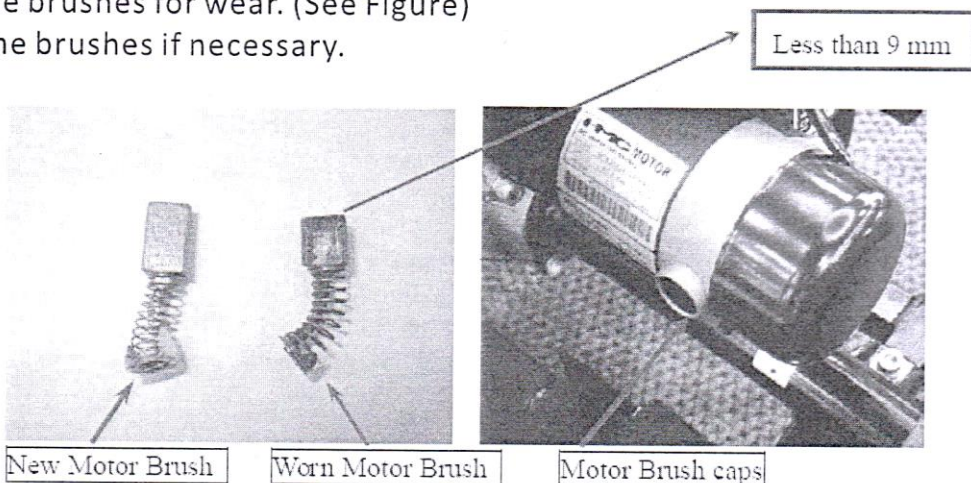
To inspect or replace the motor brushes:

Unscrew the motor brush caps. (See Figure)

Remove the brushes.

Inspect the brushes for wear. (See Figure)

Replace the brushes if necessary.





Inspect the state of the battery terminals every six months. Make sure that they are not corroded and the connections are tight. Periodically apply a thin film of petroleum jelly on the surface of terminals to guard against corrosion.

CHECKS:

- . Make sure to keep the controller clean while protecting it from rain or water. Never hose off your power scooter or place it in direct contact with water.
- . Keep wheels free from lint, hair, sand and carpet fibers.
- . Visually inspect the tire tread. If less than 1mm (1/32"), please have your tires replaced by your local dealer.
- . All upholstery can be washed with warm water and mild soap. Occasionally check the seat and back for sagging, cuts and tears. Replace if necessary. Do not store your scooter in damp or humid conditions as this will lead to mildew and rapid deterioration of the upholstery parts.
- . All moving mechanism will benefit from simple lubrication and inspection. Lubricate using petroleum jelly or light oil. Do not use too much oil, otherwise small drips could stain and damage carpets and furnishings etc. Always perform a general inspection of the tightness of all nuts and bolts.

## TROUBLESHOOTING & FAULT REPAIR

S-Drive controller: Your scooter is fitted with an S-Drive controller, which continuously monitors the operating conditions of your scooter. If it detects a problem it will indicate with error message by flashing light on the power ON/ OFF light. You must count the number of the flash, and see the list to check what kind of error has happened according to the number)

Number of Flashes	Fault	Impact on Scooter	Notes
1	Battery needs recharging	Will drive	Battery charge is running low. Recharge the batteries as soon as possible.
2	Battery voltage too low	Drive inhibited	Battery charge is empty. Recharge the batteries. If the scooter is left off for a few minutes, battery charge may recover sufficiently to allow driving for a short period of time.
3	Battery voltage too high	Drive inhibited	Battery charge is too high. If a charger is plugged in, unplug it or turn the Charge/Run switch to Run. Scooters powered by S-Drive will charge the batteries when traveling down slopes or decelerating. Excessive charging in this manner may cause this fault. Turn the scooter power off and then back on again.
4	Current limit time out	Drive inhibited	The scooter has drawn too much current for too long, possibly because the motor has been over worked, jammed or stalled. Turn the scooter power off, leave for a few minutes, and then turn the power back on again. The controller has detected a shorted motor. Check the loom for shorts and check the motor. Contact your service agent.
5	Brake fault	Drive inhibited	Check that the park brake release lever is in the engaged position. The park brake coil or wiring is faulty. Check the park brake and wiring for open or short circuits. Contact your service agent.

6	Out of Neutral at Power Up	Drive inhibited	Throttle is not in neutral position when tuning switch key on. Return throttle to neutral, turn power off and back on again. Throttle may need to be re-calibrated Check throttle wiring.
7	Speed Pot Error	Drive inhibited	The throttle or its wiring is faulty. Check for open or short circuits. Throttle may not be correctly set up. Contact your service agent.
8	Motor Volts Error	Drive inhibited	The motor or its wiring is faulty. Check for open or short circuits. Contact your service agent.
9	Other Internal Errors	Drive inhibited	Contact your service agent.
10	Push Too Fast fault	Drive inhibited	The scooter has been pushed faster than the programmed "Push Speed" parameter when the Park Brake Release function has been operated. The scooter has been pushed faster than the programmed "Rollaway Speed" parameter when the Park Brake has been mechanically released. Turn the scooter off and then back on again.

**Note:**

If you experience any technical problems, it is recommended that you check with your local dealer before attempting to troubleshoot on your own.

The following symptoms could indicate a serious problem with your power scooter. Contact your local dealer if any of the following arises:

1. Motor noise
2. Frayed harnesses
3. Cracked or broken connectors
4. Uneven wear on any of tires
5. Jerky motion
6. Pulling to one side
7. Bent or broken wheel assemblies
8. Does not power up
9. Powers up, but does not move

## **WARRANTY DECLARATION**

### Quality/ Warranty Declaration

Products are to be fit for purpose and of excellent quality and performance. For valid warranty claims scooter will, at their discretion, replace/ repair/ refund items mutually agreed to be defective.

scooter's Warranty as Following:

- . Frame: One-year limited warranty
- . Controllers: One-year limited warranty
- . Electronic Components and Charger: One-year limited warranty
- . Warranty Exclusion. The following items are not covered by warranty.
- . Motor brushes . Wheel Tires . Arm Pads
- . Seat Cushion . Fuses / Bulbs . Tiller Cover
- . Rear Shroud . Front Shroud Batteries and Consumable parts

Any damage or defect of any nature occurring from the misuse, abuse of the product, improper operation or improper storage is not to be covered. The warranty is to start from the date of arrival of our products.