MONARCH

# VOLTA™

## Owner's Manual

**Congratulations on the purchase of your new Monarch Volta scooter.**

Even though your new scooter is both user-friendly and designed for maximum manoeuvrability in even the tightest spaces, we ask that you please read, understand and follow all of the instructions and suggestions in this manual before you operate your scooter for the first time.

The safe use of your new scooter is very important to us.

If you feel that you do not understand the instructions and suggestions presented in this Owner's Manual, or if, for any reason, you do not feel capable of performing the activities necessary to assemble, disassemble, operate, or maintain your scooter, in the first instance please contact your local dealer who supplied the scooter, or ring 1300 622 633.

While we have made every attempt to ensure that the information in this manual is correct at date of publication we reserve the right to implement changes into our product lines when those changes become desirable or necessary. If changes are implemented into our product line, there may be minor differences between the product you purchased and the illustrations and instructions in this Owner's Manual.

The Monarch Volta is imported by Scooters Australia Pty Ltd. If you need any assistance, please contact the dealer from whom you purchased the scooter.

Scooters Australia cannot be held responsible for personal injury or property damage resulting from the unsafe or the improper use of any of our broad range of health and personal mobility products. In addition, Scooters Australia cannot be held responsible for personal injury or property damage resulting from attempts to follow instructions, suggestions, and guidelines presented in this Owner's Manual.

**CONTENTS**

**FEATURES AND BENEFITS**

Your scooter has been designed with your comfort in mind. It has also been designed to be a safe method of transportation when safety and operating instructions are followed. Please review the features and benefits of certain components of the scooter below.

Control Panel: Easy to read display features from top to bottom: the backlit battery gauge; over-sized speed control knob; key switch to turn the unit on and off; and the red horn button.

Tiller handle: Offers rubber coated hand rests for comfort and dual throttle control levers for easy right or left hand use.

Adjustable Armrests: Your scooter features width, height and angle adjustable armrests to find the most comfortable position, as well as to make transfers easier.

Tiller: Easy to use tiller offers multiple adjustments to find your most comfortable driving position.

Front Basket: The scooter comes standard with a removable storage basket.(Foldable Plastic basket is optional)

Batteries: Both of the batteries are located under the battery cover, they are fixed by battery straps.

Seat Swivel: A standard feature, the seat can swivel to the left or right for easy transfers or to sit more comfortably at a table or desk.

***Figure 1. Features***

## II. SAFETY

Please exercise caution and consideration when you are operating your scooter. Driving your scooter carefully and thoughtfully will help ensure your personal safety and the safety of other people.

**NOTE:** Before learning to operate your scooter, have your authorised dealer determine if it is advisable for you to practice getting on and off your scooter and operating it in the presence of an attendant.

### BEFORE GETTING ON YOUR SCOOTER

- Check to be certain that the power is turned off. See section V. "Operation" in this manual. This will eliminate the possibility of accidentally activating the paddle controls and causing injury to yourself and/or others.
- Check to be certain that your scooter's freewheel lever is in the engaged position. See section V. "Operation in this manual.
- Flip up the armrests.

⚠**WARNING When getting on or off your scooter, keep your weight toward the middle of the deck. Putting most or all of your weight on the edge of the deck may cause an unstable condition.**

### GETTING ON YOUR SCOOTER

- Position the seat for safe and easy mounting. Ensure that the seat is facing forward. See Section V. "Operation."
- Return tiller to full upright position if necessary. Carefully place one foot on the approximate center of the deck and seat yourself comfortably and securely on the seat.
- Flip down the armrest(s.)

### GETTING OFF YOUR SCOOTER

- Make certain that the power is turned off and the key is removed.
- Return tiller to full upright position
- Flip up the armrests.
- Carefully place one foot on the ground, transfer your weight to that leg, and slowly come to a standing position.
- Step away from the scooter.

### MAXIMUM WEIGHT

Your scooter has been rated to a maximum payload (operator and anything else being carried onboard) of 160 kg on flat ground. Exceeding the maximum weight rating will void the warranty. See www.scootersaus.com.au for more information on carrying capacity and hill slope (see Q & A).

⚠**WARNING Exceeding the maximum weight rating may result in injury to yourself and/or others**.

### DRIVING ON INCLINES

- For maximum stability, lean forward in your scooter's seat while proceeding up ramps, inclines, curbs, or any low rise. See figure 2.
- Drive with caution when attempting to negotiate any incline, even access ramps.
- Always climb or descend an incline by driving straight up or straight down the face of the slope. See figure 2.

- Do not traverse or drive across the face of an incline in any direction. See figure 3.
- Do not attempt to negotiate an incline that is covered with snow, ice, salt, cut or wet grass, leaves, or any other potentially hazardous material.
- Do not drive your scooter in reverse down an incline.
- Try to keep your scooter moving when climbing an incline. If you do come to a stop, restart and accelerate slowly and carefully, ***always leaning forward.***
- Do not try to descend or climb a slope whose gradient is greater than recommended.

***scooter maximum recommended incline is 6°.**

***Figure 2. Going Up an Incline***

***Figure 3. Traversing an Incline***

⚠ **WARNING If, while you are driving down a slope, your scooter starts to move faster than you feel is safe, release the throttle control lever and allow your scooter to come to a stop. When you feel that you again have control of your scooter, push the throttle control lever forward and continue safely down the remainder of the slope.**

**DRIVING DOWN A DECLINE**

- Lower speed setting.
- Whenever it is safely possible, drive forward down any ramp, low rise, or incline.

***WARNING: Scooters Australia does not recommend that you drive your scooter in reverse down any incline, ramp, curb, or low rise. Backing down any slope may create a very hazardous situation.***

**Motor Braking System**

Your scooter is equipped with a system that uses the motor to aid in braking. This motor brake system is designed to work when the key is in either the on position or the off position.

When the key switch is in the on position, the freewheel is in the engaged position, and the scooter is under power, the motor will help slow down the scooter as soon as you take your hand off of the throttle lever.

When the key switch is in the off position and the freewheel is in the disengaged position, the motor brake system will keep you from pushing the scooter too fast (i.e. down a slope).

You may notice this when pushing the scooter. The scooter will move freely until you reach a certain speed. You will then encounter some resistance as the motor brake system is activated.

**MEDICATION**

Always check with your physician to determine if any of the medications you are taking may affect your judgment and/or your ability to operate your scooter. Also check with your physician concerning your physical ability to operate a scooter.

⚠**WARNING Do not connect or allow anyone except an authorised dealer to connect any electrical or mechanical device to your scooter. Unauthorised accessories will void the warranty and may cause injury.**

**RULES FOR USE AND OTHER SAFETY CONSIDERATIONS**

**NOTE:** Please remember that while on your scooter, you are a motorized pedestrian. You must observe and obey all pedestrian rules and regulations for the locale in which you are riding. So please follow the rules below.

- Read completely and understand this owner's manual before assembling, operating, transporting, or disassembling your scooter.
- Always operate your scooter with thought, care, and safety.
- Do not attempt to use your scooter on an escalator. Always use an elevator.
- Do not carry passengers under any circumstances.
- Do not mount or dismount your scooter unless the brake is engaged.
- Always make sure that the key switch is set to "Off" before mounting or dismounting your scooter.
- Do not back your scooter down an incline or across an uneven surface.
- Do not turn your scooter suddenly at full speed.
- Always make sure the seat is locked in the forward facing position before operating your scooter.
- Always come to a full stop before changing direction from forward to reverse or from reverse to forward.
- Do not operate your scooter where you could not safely or legally walk.
- Do not climb ramps or curbs that exceed your scooter's capacity.
- Always approach ramps, curbs and inclines straight on.
- Always be aware of and careful near mechanical pinch points especially when assembling and disassembling your scooter.
- Never sit on your scooter when it is being transported.
- Always fasten down your scooter securely with an approved tie-down system while transporting your scooter.
- Never operate your scooter if it is not functioning properly.
- Always use caution when driving on soft or uneven surfaces such as grass or gravel. Also use caution on decks where there is no railing.
- Never drive on the roadway, except when you must cross the street.
- Always cross streets at intersections and use crosswalks or the most direct route, making sure that your path is clear and that you are visible to motor traffic.
- Never drive your scooter up or down a step or curb that is higher than the ground clearance listed on the specifications chart .
- Never back up or down a step or curb.
- Do not drive your scooter in icy or salted conditions.
- Never operate your scooter while you are under the influence of alcohol.

## III. EMI/RFI

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (radio) waves that are emitted by television transmitters, cellular phones, citizen's band radios (CBs), amateur radios (ham radios), wireless computer links, microwave transmitters, paging transmitters, etc. These electromagnetic (EM) waves are invisible and increase in strength the closer one gets to the source of transmission. When these energy waves act upon electrical devices and cause them to malfunction or to function in an erratic or uncontrolled manner, they are referred to as Electromagnetic Interference (EMI) or Radio Frequency Interference (RFI).

**EMI/RFI AND YOUR SCOOTER**

All electrically powered vehicles, including scooters are susceptible to Electromagnetic Interference/Radio Frequency Interference (EMI/RFI). This interference could result in abnormal, unintended movement of your scooter.

⚠WARNING Unintended movement or brake release could cause an accident or injury.

The US FDA has determined that each make and model of scooter can resist EMI/RFI to a certain level. The higher the level of resistance, the greater the degree of protection from EMI/RFI—measured in volts per meter (V/m). The FDA has also determined that current technology is capable of providing 20 V/m of resistance to EMI/RFI, which would provide useful protection against common sources of interference. This product has been tested and has passed an immunity level of 20 V/m.

**EMI/RFI RECOMMENDATIONS**

- Do not turn on or use hand-held personal electronic communication devices such as cellular phones, walkies-talkies, and CB radios while your scooter is turned on.
- Be aware of any nearby transmitters (radio, television, microwave, etc.) on your intended route and avoid operating your scooter close to any of those transmitters.
- Turn off the power if your scooter is going to be in a stationary position for any length of time.
- Be aware that adding accessories or components or modifying your scooter may make it more susceptible to EMI/RFI.
- If unintended movement or park brake release occurs, turn your scooter off as soon as it is safe to do so.
- Report all incidents of unintended movement or park brake failure to your local dealer or ring 1300 622 633

⚠WARNING Turn off your scooter as soon as it is safely possible if unintended or uncontrollable motion occurs or if unintended park brake release occurs.

## IV. YOUR MONARCH VOLTA SCOOTER


***Figure 4. Your* Volta *scooter***

**FOR YOUR RECORDS**

Please fill in your scooter's information below. This information will be useful in the event that you ever need to contact your dealer concerning your scooter.

Model _____ Serial Number_____

Date of Purchase _____ Body Colour_____

Dealer Name_____

Company_____

Address_____

City _____ State_____ P/C_____

Please remember to fill in and return your warranty registration card in the back of this manual.

## SPECIFICATIONS

| Specifications | VOLTA |
|---|---|
| Length | 130 cm |
| Width | 62 cm |
| Tyres | Pneumatic, |
| Front | 410 – 350 x 5 |
| Rear | 410 – 350 x 5 |
| Weight capacity | 159 kg |
| Ground clearance (from motor) | 7 cm |
| Ground level to top of seat lowest position | 62 cm |
| Height from deck to top of seat at lowest position | 43 cm |
| Weight (w batteries) | 115 kg |
| Length of wheelbase (axle-axle) | 95 cm |
| Height of unit with tiller down and seat removed | 58 cm |
| Maximum speed (programmable) | 10 kph |
| Operating range* | 25 - 30 km |
| Batteries (2) | 50 a/h |
| Freewheel mode | Yes |
| Electromechanical Park Brake and Motor Brake | Yes |
| Charger | Off-board, 6 amp |
| Sealed transaxle Motor, | 24 VDC, 4 pole |
| Electronics | P&G 120 amp |
| | |

*** Notes:**

Range is an estimate only and will vary due to rider weight, drive surface, battery condition, slope and terrain. Scooters Australia makes no claims as to the range and performance of the scooter apart from these general estimates. More information regarding range and battery performance can be seen on our website: www.scootersaus.com.au

Literature is current at the time of printing. Scooters Australia reserves the right to make changes to the product or literature at any time without prior notice.

**WARNING: THIS SCOOTER SHOULD NEVER BE USED AS A SEAT WHILE BEING TRANPORTED**

## V. OPERATION

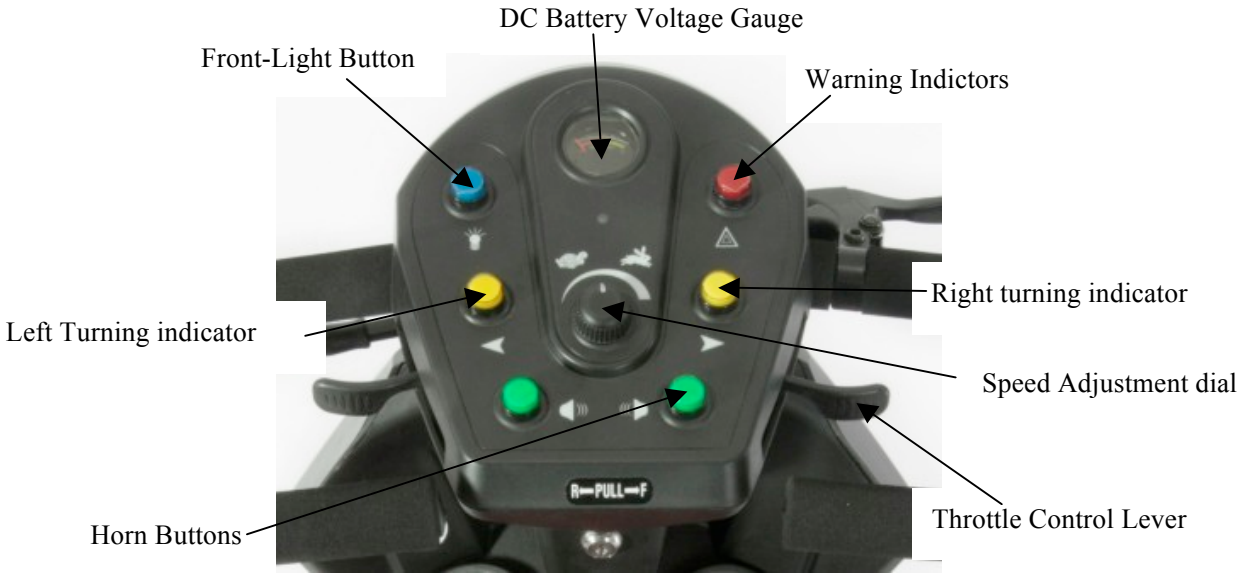



***Figure 5 Dashboard***

### CONTROL PANEL

**Speed Adjustment Dial**

The speed adjustment dial allows you to preselect the **maximum** top speed of your scooter. See figure 5.

- 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.

**Indicator Buttons**

There are left and right Indicator Buttons. Press this button to indicate the direction of steering, left or right.

**Horn Buttons**

Press either button to sound the horn. See figure 5.

**Battery Voltage Gauge**

This meter (see figure 5) shows the amount of voltage in your scooter's batteries.

- Green indicates a full charge on the batteries.
- Yellow indicates caution and approximately a one-half charge of the batteries.
- Red indicates that the batteries have less than one-half of a charge remaining. See section X. "Care and Maintenance" for instruction concerning charging the batteries.

**Throttle Control Lever**

The double throttle lever enables you to use only one hand (either the right or left) to operate the speed of the scooter. This self-centring lever system controls your scooter's speed (up to the maximum speed set by the speed adjustment dial) and its forward and reverse direction. See figure 5.

**To drive forward use either of the following:**

- Use your right hand fingers to pull back on the right side of the throttle control lever.
- Use your left thumb to push the left side of the throttle control lever.

**To drive in reverse use either of the following:**

- Use your left hand fingers to pull back on the left side of the throttle control lever.
- Use your right thumb to push the right side of the throttle control lever.

When the throttle control lever is completely released, it automatically returns to the centre "stop" position and engages your scooter's brakes, bringing you to a complete stop. You will hear a "click" when the park brake engages.

**NOTE:** Always bring your scooter to a full stop before changing direction

**Control Options**

Your authorised dealer can reverse the throttle control lever controls so that when you pull on the left side of the lever, your scooter will move in the forward direction, and when you pull on the right side of the lever your scooter will move in the reverse direction.

**TILLER ADJUSTMENT**

The tiller on your scooter employs a pneumatic handle to provide you with multiple tiller angle settings. To set the tiller to your liking, follow these directions.

1. Use one hand to grasp the pneumatic handle (Figure 4).
2. Position the tiller to a comfortable driving position and Loosen the pneumatic handle.

**SEATING**


***Figure 6. Armrest Width Adjustment***

**Armrest Width Adjustment**

To adjust the armrest width:

1. Loosen the adjustment knobs at the rear of the seat. See figure 6.
2. Slide the armrests in or out to the desired width.
3. Tighten the adjustment knobs.

⚠**WARNING Be sure adjustments knobs are securely tightened against the inserted armrest tube. Do not overextend the armrest.**

**Adjustments for Seating Comfort:**

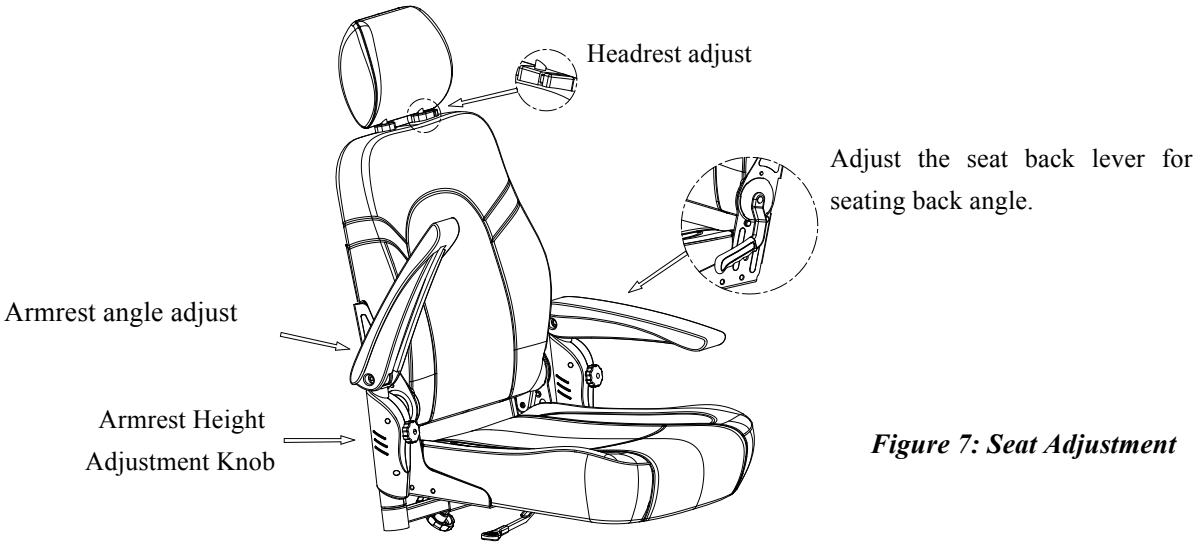



***Figure 7: Seat Adjustment***

**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.

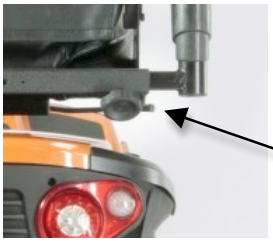



***Figure 8: Seat Rotation Adjustment***

**Seat Rotation Lever**

The seat can be rotated through 360° and locked at any 45° position.

1. Push down on the seat rotation lever and rotate the seat to the desired position. See figure 8.
2. Release the handle to lock the seat at any 45° position.

***Figure 9***

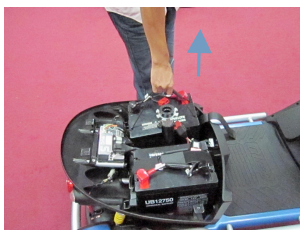


***Figure 10***

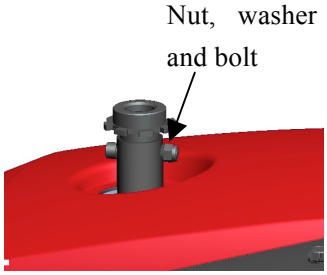



***Figure 11***

**Seat Height Adjustment**

To adjust the seat height:

1. Fold the seat back down, grasp the seat on both sides and lift the seat up and off of the seat pedestal. See Figure 9. (Note: Seat arms can be removed to reduce the seat weight).
2. Remove the batteries by lifting them out. See figure 10.
3. Remove the detent pin or nut and bolt that holds the seat post in the seat pedestal. See Figure 11.
4. Position the seat post at the desired height while aligning the holes in the seat post and the seat pedestal.
5. Reinstall the detent pin or nut and bolt.
6. Reinstall the batteries and battery cover.
7. Place the seat back onto the seat post and push down to lock it into place. Move the seat from side to side to make sure it is lock into place.

⚠WARNING Do not sit in or attempt to move your scooter unless the frame and rear carriage are securely engaged. Accidental separation of the frame from the rear carriage may occur and cause injury or damage.

⚠WARNING Never sit on your scooter in freewheel mode.

⚠WARNING Never disengage the park brake while you are operating your scooter.

⚠WARNING Always make certain that your scooter park brake is engaged before inserting the key into the key switch and turning it to the on position.

**FREEWHEEL MODE**

Your scooter is equipped with a freewheel lever that can set your scooter in or out of freewheel mode.

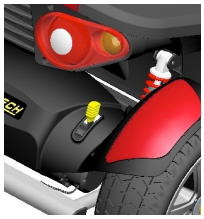


***Figure 12: Freewheel Lever***

To disengage the park brake and put your scooter in freewheel mode:

- Push back on the freewheel lever towards the letter N (Neutral Position).

To engage the brake and take your scooter out of freewheel mode:

- Pull forward on the freewheel lever towards the letter D (Drive Position).

Pushing the scooter too quickly in freewheel will cause the motor to act as a generator causing the scooter to become difficult to push.

## VI. RIDING YOUR SCOOTER

### MOUNTING

**NOTE:** For your first driving session, make certain that your scooter starts out on a level surface and that you will continue driving on a level surface.

### BEFORE GETTING ON YOUR SCOOTER

1. Check to be certain that the key has been removed from the key switch. See section V. "Operation" in this manual. This will eliminate the possibility of accidentally activating the controls and causing injury to yourself and/or others.
2. Check to be certain that your scooter freewheel lever is in the engaged position. See section V.
3. Flip up or remove the armrests.

⚠WARNING When getting on or off your scooter, keep your weight toward the middle of the deck. Putting most or all of your weight on the edge of the deck may cause an unstable condition.

### GETTING ON YOUR SCOOTER

1. Position the seat for safe and easy mounting. Ensure that the seat is facing forward. See Section V.
2. Return tiller to full upright position if necessary.
3. Carefully place one foot on the approximate centre of the deck and seat yourself comfortably and securely on the seat.
4. Flip down or replace the armrest(s.)
5. Place the key into the key switch.
6. Rotate the key clockwise to the on position.

### BASIC DRIVING

1. Make certain that you are seated safely and properly on your scooter.
2. Turn the speed control dial fully counterclockwise to its slowest setting.
3. Insert the key into the key switch—if you have not already done so.
4. Turn the key clockwise to the “On” position.
5. Place your hands on the handgrips.
    - If you wish to drive forward, pull back on the right side of the throttle control lever (or push the left side of the throttle control lever forward.)
    - If you wish to drive in reverse, pull back the left side of the throttle control lever (or push the right side of the throttle control lever forward.)
6. Pull on the throttle control lever to gently your scooter.
7. Release the throttle control lever to allow your scooter to come gently to a complete stop.
8. Practice these two basic functions until you feel that you have control of your scooter.

#### Steering

Steering your scooter is easy and logical.

1. With both hands on the handgrips of the tiller, turn the tiller to the right to travel to the right.
2. With both hands on the handgrips of the tiller, turn the tiller to the left to travel to the left.
3. Make certain to maintain sufficient clearance when turning your scooter so that the rear wheels will clear any obstacle.

⚠ WARNING Turning your scooter too sharply at too high a speed may create a situation where one of the rear wheels will leave the ground. This may increase the possibility of tipping the scooter. Avoid this danger at all times by decelerating and steering a wide arc around corners and obstacles.

**Steering in a Tight Spot**

If you must steer in a tight spot, such as entering a doorway or when turning around:

1. Bring your scooter to a full stop.
2. Set speed at the lowest setting.
3. Turn the tiller to the direction in which you wish to drive.

For more information on dealing with obstacles and tight spots, see "Control Through Tight Spots" below.

**Steering in Reverse**

Backing up your scooter requires attention to what you are doing.

- Use extreme caution when operating your scooter in reverse.
- Plan your route to avoid getting into a difficult situation.
- Make sure your proposed route is clear of people, pets, and obstacles.

1. Use your right fingers to push the throttle control lever or use your left fingers to pull back on the throttle control lever..
2. Turn the tiller to the left to drive in reverse to the left.
3. Turn the tiller to the right to drive in reverse to the right.

**NOTE:** Your scooter's speed in reverse is fifty percent of the speed set at the speed control dial.

⚠ WARNING Prevent injury! Do not drive down an incline in reverse.

**CONTROL THROUGH TIGHT SPOTS**

As you use your scooter to greatly increase your mobility, you will undoubtedly encounter some obstacles that will require practice to negotiate smoothly and safely. Below are some common obstacles that you may meet during the daily use of your scooter. Listed with those obstacles are some driving tips that should help you conquer those obstacles. Learn and follow those tips, and with surprising ease you will soon be in control of your scooter as you manoeuvre it through doors, up and down ramps, up and over curbs, through grass and gravel, and up and down inclines.

**Ramps**

**When proceeding up any ramp, curb, or incline:**

- Lean forward in your seat to move your centre of gravity forward for maximum stability and safety. If the ramp has a switchback, good cornering ability is required.
- Manoeuvre your scooter so that the front wheels take wide swings around the corners of the ramp.
- Doing this will allow your scooter's back wheels to follow a wide arc around the corner, staying clear of obstacles.

**If you must stop your scooter while driving up a ramp:**

Starting up again simply requires that you apply gentle and steady forward power pressure to the throttle control lever, ***always leaning forward.*** Accelerate gently after stopping on any incline.

**Driving down a ramp:**

- Keep your scooter's speed control dial set fully counterclockwise at the slowest speed setting.
- If you must come to a stop, release the throttle control lever slowly and smoothly.

⚠WARNING Prevent injury! Do not drive down an incline in reverse.

**Curbs**

See specifications for maximum curb height.

- Always use caution when negotiating any curb.
- Go up or down a curb head on at a direct 90° angle.
- Approach and negotiate the curb so that both back wheels of your scooter go over the curb at the same time.
- Never negotiate inclines or curbs by traversing them. Doing so may cause the scooter to tip over.
- Go down a curb slowly to avoid a jarring bump. Use as little power as possible.

**Grass and Gravel**

Your scooter performs admirably on grass, gravel, and hills, but you must follow the operational parameters presented in this manual. Refer to the "Safety" section. If you are unsure about any situation, avoid it. Common sense is your best protection.

- Feel free to use your scooter on lawns or in park areas.
- Avoid long or high grass, which may wrap around your scooter's axles.
- Avoid loose gravel.

## VII. DISASSEMBLY

Your scooter is designed to be partially disassembled in order to be transported. When disassembling your scooter, please be sure to follow these simple instructions.

⚠ **WARNING Remove the key from the key switch before you begin to disassemble your scooter.**

**Removing the Seat**

1. Place your scooter on a level surface.
2. (Optional) Loosen the armrest adjustment knobs and remove the arms from the seat. This will reduce the weight of the seat making it easier to lift.
3. Grip the seat on opposite sides and, with a firm grip; pull the seat straight up. See figure 13.

***Figure 13. Removing the Seat***

**Removing the Batteries** (if not ramping the scooter)

4. Undo the 4 plastic cover screws, lift cover off then lift batteries out. See figure 14.

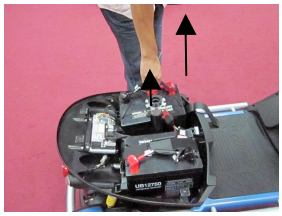
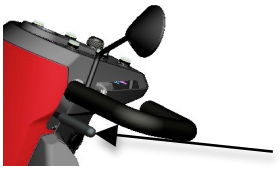


***Figure 14. Removing the Battery Cover and Batteries***

**Tiller Positioning**



Tiller Adjust handle

5. Remove the front basket by pulling it up and out of its bracket.
6. Use one hand to grasp the tiller adjust handle. Pull on the lever and position the tiller at the best angle for transport.
7. Release the handle. It will automatically lock the tiller at the selected angle.

## VIII. ASSEMBLY

⚠ WARNING Pinching and crushing hazard! Increased hazards due to pinching or crushing can result due to the component weight (such as batteries) during preparation for transport and maintenance work. Always carry out any work to be done with great care. Always try to get help from a second person, especially when stowing parts for transport.

⚠ WARNING **Pinch Point:** A pinch point is an area where you **MUST** consider your fingers to be sure they **DO NOT** become pinched between two metal or hard plastic areas. The greatest chance of pinch points, become possible during the assembly of the scooter.

⚠ WARNING **INJURY HAZARD DUE TO IMPROPER ASSEMBLY!**

Ensure that all components in the scooter have been correctly assembled. During assembly, please check that all connecting/locking devices are holding in place.

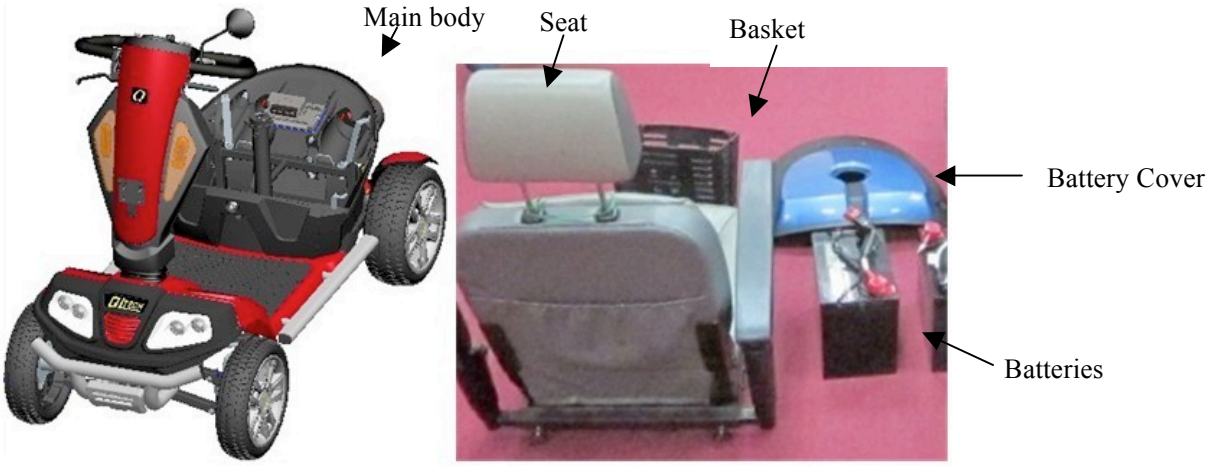



***Figure 15. Scooter Components***

**Re-position the tiller**

1. Reverse the procedures 5 – 7 above .

**Install the Battery Pack**

2. Gently lower the battery pack onto the frame. See figure 16.

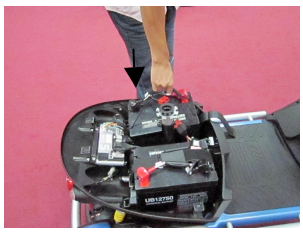


***Figure 16. Battery Installation***

**Install the Seat**

3. Hold the seat on an angle so you can see the seat swivel post underneath

4. Place the seat swivel post into the seat receiver post as shown in figure 17.
5. Push down on the seat to lock the seat in place. Move the seat from side to side to make sure it is lock in place.

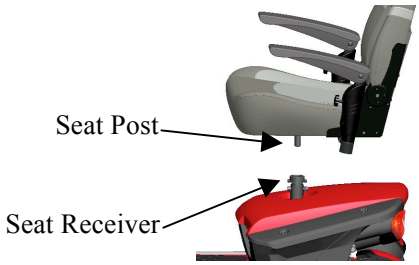



***Figure 17. Installing the Seat***

⚠ WARNING Pinch Point! Keep hands and clothing clear of the seat swivel post and seat post.

⚠ WARNING Accident hazard due to non-engaged seat! Ensure that the seat is properly engaged by turning the seat slightly left and right.

**Accident hazard due to incorrect seat position!** Always turn the seat to face forwards and engage it before driving. If the seat is in any other position, the possibility of tipping is increased. Before turning the seat, always ensure that the scooter is on an even and solid surface.

## IX. TRANSPORTING YOUR SCOOTER

NOTE: All Scooters Australia scooters can be equipped with docking devices for loading onto a vehicle by means of a mechanical lift or hoist. Contact your dealer for more information concerning docking devices and scooter lift devices. Alternatively, ramps are available for driving your scooter remotely into a vehicle.

**To Transport Your scooter:**

- Disassemble or fold down the seat and tiller (see section VII. “Disassembly”) as close as possible to the loading area of the vehicle to be used for transporting your scooter.
- The degree to which you disassemble your scooter or fold the seat and tiller depends on the size and shape of the cargo area of the transporting vehicle.
- Do not lift your scooter by its plastic body parts or dash. Breakage of these parts is not covered by the warranty.
- Do not use the tyres or wheels to lift the rear carriage. The carriage may rotate and cause injury or damage.
- Moving blankets or other forms of padding may be used to protect your scooter during transportation.

⚠WARNING If your scooter and its components are not properly and securely stowed during transportation, the scooter or the components may move or become airborne and cause injury or damage.

⚠WARNING Never sit on your scooter when it is being transported. Secure with an approved tie-down system.

## X. CARE AND MAINTENANCE ROUTINE MAINTENANCE

**ROUTINE MAINTENANC**E

The scooter requires minimal maintenance. All of the bearings are permanently lubricated and sealed.
No additional lubrication is required. However, **all scooters should be serviced annually by your authorised dealer.** Contact your dealer to arrange the annual service, either at your home or at the workshop. A call-out fee may apply for home visits.

**CLEANING YOUR SCOOTER**

There are several things that you can do to help keep up the appearance and maintain the performance of your scooter:

**Tyres**

Clean the tires with ordinary kitchen-type cleaners and a damp cloth. Do not use solvents on the tires. Solvents can cause the tire material to break down or become too soft.

**Body**

- Clean the body of your scooter with a damp cloth. **Do not** hose down your scooter! Dry with a clean soft cloth.
- Use cool water mixed with a mild soap to remove dirt and oils.
- Buff by hand with a soft cloth.

**Vinyl Seat**

Clean with a mild soap or mild detergent and a damp cloth. A vinyl cleaner may also be used.

**Floor Cover**

Wipe over with damp cloth.

# BATTERIES AND CHARGING

Battery maintenance is the most important part of maintaining your scooter. Keeping the batteries fully charged helps to extend battery life. Use the following guidelines to help keep your batteries in optimum condition.

**IMPORTANT:** New batteries **MUST** be fully charged prior to the initial use of your scooter.
**Charge new batteries for 12 hours even if the battery gauge already shows a full charge. This is to condition your new batteries for maximum performance.**

- For best results please charge your batteries overnight after every use.
- For daily use, keep batteries fully charged. We recommend that you plug in the off-board charger after each use and charge 6-8 hours.
- If you are not going to use the scooter for more than a week, **fully charge** the batteries and then disconnect them from the scooter.

**Charging Guidelines Checklist to Maximize Battery Life**

- Use only the automatic off-board charger supplied for all charging.
- Never use an automotive or wet type charger.
- Avoid deep discharges and never drain the batteries completely.
- Do not leave batteries in a low state of charge for extended periods. Charge a discharged battery as soon as possible.
- Fully recharge batteries regularly, and disconnect the charger from the scooter after charging.

- Always store batteries fully charged.
- Check stored batteries once a month and recharge as necessary.

**To Charge the Batteries:**

The charger for all scooter models is an off-board charger. To charge the batteries, plug the charger into the charger port on the battery pack or on the side of the console. Then plug in to the power point and switch on.

**Battery Maintenance**

GEL-cell or AGM and SLA deep-cycle batteries are used in our scooters. These batteries are maintenance free.
There is no danger of spillage or leakage, so these batteries are safely transportable on aircraft, buses, trains, etc.
By following the procedures set out in this manual, you can expect extended life from your scooter's batteries.

## TROUBLESHOOTING

**IF YOUR SCOOTER DOES NOT OPERATE**

- Make certain the freewheel lever is set to the engaged position.
- Check the main circuit breaker. If necessary, reset the circuit breaker.
- Make certain that the speed adjustment dial is at the desired setting.
- Make certain that the key switch is set to the "On" position.
- If none of the above procedures solve the problem, contact your dealer.

**MAIN CIRCUIT BREAKER**

The main circuit breaker reset button is located on the battery pack.

⚠WARNING Do not attempt electrical repairs. Consult your authorised dealer. If, for no apparent reason, your scooter stops operating, the main circuit breaker may have tripped.

**Possible causes for the main circuit breaker to trip:**

- Driving up a long, steep hill.
- Driving over a curb.
- Run-down batteries.
- Exceeding the maximum weight capacity of the scooter.
- Driving your scooter downhill *immediately* after charging (batteries may overcharge)

As you operate your scooter, battery voltages go down and battery current must rise to satisfy the demands of the motor and of other electrical devices operating on your scooter. This can cause a heavy current draw that will trip the main circuit breaker.

**Remedy:**

- Recharge your scooter's batteries. See "Charger and Batteries" in this section of this manual.
- If the problem continues, have your authorised dealer load test the batteries.
- If the batteries are good, the charger may be the problem. Consult your authorised

**Resetting the Main Circuit Breaker**

1. If the main circuit breaker trips as a result of run-down batteries or because of a temporary overload, reset the circuit breaker.
2. Wait ten minutes or so for the motor control board to return to the normal operating temperature range.
3. Make certain that the key switch is set to the "Off" position.
4. Press in on the main circuit breaker reset button.

**NOTE:** If the main circuit breaker continues to trip, there is probably an underlying electrical fault that needs attention. Contact your authorised dealer. Do not keep resetting the main circuit breaker without correcting the underlying electrical problem.

## DIAGNOSTICS

Your scooter has an automatic diagnostic feature and functions as follows:

- Any fault condition with the controller or with an associated system will cause the scooter to beep an LED light on the dashboard will flash.
- The number of beeps / flashes in each series is referred to as the "Beep Code."
- The beep code indicates the nature of the condition or fault.

**Beep Codes**

**1 Beep**

Indicates that the battery voltage (with the throttle control lever in the neutral position) is below the required operating voltage of the scooter.

- The batteries need to be charged.
- Your scooter will continue to operate at reduced speeds.
- As the voltage drops you will experience a power loss.

**Remedy:** Charge your scooter's batteries. See "Batteries and Charging" in this section.

**2 Beeps**

Indicates that the battery voltage is too low for the scooter to operate.

- At this voltage your scooter will cease operation.
- If you have charged the batteries and the condition continues, one or both of the scooter's batteries may be at fault.
- The continuance of this condition after you have charged your scooter's batteries may also indicate a problem with the battery charger.

**3 Beeps**

- Consult your authorised dealer.

**4 Beeps**

Indicates that the motor control board is overloaded and overheated.

- An overload can occur if you have been driving your scooter for an extended period of time up an incline above the recommended degrees.

- An overload can occur if your scooter is carrying a payload that is higher than the recommended weight capacity .
- Your scooter will not operate until the motor control board cools back to its operational temperature range.

**Remedy:** Turn off your scooter's key switch and allow the scooter to sit for 10 minutes. Consult your authorised dealer.

**5 Beeps**

Indicates a brake problem.

- The freewheel lever may be in the disengaged position.
- The brake or the brake wiring may be damaged.
- For safety reasons, your scooter was designed to cease operation until the problem is corrected.

**Remedy:** Make certain that the freewheel lever is in the engaged position.

- Turn the key switch to the "Off" position to stop the beep code.
- Set the freewheel lever to the "engaged" position.
- Turn the key back to the "On" position.
- If the above remedies do not solve the problem, contact your authorised dealer.

**6 Beeps**

Indicates that the throttle control lever was not in the neutral position when the key switch was turned to the "On" position. May indicate that the throttle control lever is out of adjustment.

**Remedy**:

- Turn the key switch to the "Off position.
- Make certain that the throttle control lever is in the neutral position.
- Turn the key switch to the "On" position.
- If the above procedure does not solve the problem, contact your authorised dealer.

**7 Beeps**

Indicates a problem with the throttle control lever. May also indicate a problem with the potentiometer (speed control.). Your scooter will not operate until the problem is resolved.

**Remedy:**

- Make certain that all electrical connections are firmly and correctly joined.
- If the connections are all firmly joined and the problem is not solved, contact your authorised dealer.

**8 Beeps**

Indicates a motor voltage problem. Your scooter will not operate until the problem is corrected.

**Remedy:** Contact your authorised dealer.

**9 Beeps**

Indicates other internal errors or faults. Your scooter will not operate until the problem is corrected

**Remedy:** Contact your authorised dealer.

**NOTE: IF YOU HAVE ANY DOUBTS ABOUT THE OPERATION OR SAFETY OF YOUR SCOOTER PLEASE CONSULT YOUR LOCAL AUTHORISED DEALER.**

# Limited Warranty

Scooters and Powerchairs

Effective January 1st, 2020

The following warranty is granted only to the INITIAL consumer who has purchased our product, and commences on the Date of Purchase by the Consumer from an Authorised Dealer, by Scooters Australia Pty Ltd. Any warranty claim must be made in the first instance to the Authorised Dealer from whom the product was purchased**. If the product is not taken to the Authorised Dealer a call-out fee may be payable.**

This warranty covers the following products:

- Monarch Buzz GE106/116/146
- Monarch Zener
- Monarch Tesla
- Monarch GC 340/440
- Monarch Volta
- Monarch GP600-650 Powerchair.
- Monarch Literider Powerchair
- Freerider 510DX, FR1
- Luggie – all models

***Three Year Warranty***

For the period of three years, from the date of purchase from the Authorised Dealer, in the event of defective materials or workmanship, Scooters Australia Pty Ltd will repair or replace at our option any of the following components found to be defective by an authorised Scooters Australia representative:

- Steel Frame
- Frame Welds
- Tiller Frame
- Front Fork
- Seat Post

***Eighteen month Warranty***

For the period of eighteen months, from the date of purchase from the Authorised Dealer, in the event of defective materials or workmanship, Scooters Australia Pty Ltd will repair or replace at our option any of the following components found to be defective by an authorised Scooters Australia representative:

- Transaxle
- Motor / Brake (electrical function only)
- Wire Harness(es)

**Note**: An increase in operating noise of the transaxle DOES NOT constitute a defect or major fault. With normal wear and tear, operating noise is expected to increase.

***One Year Warranty***

For the period of one year, from the date of purchase from the Authorised Dealer, in the event of defective materials or workmanship, Scooters Australia Pty Ltd will repair or replace at our option any of the following components found to be defective by an authorised Scooters Australia representative:

- Dash Assembly
- Battery Charger
- Potentiometer Assembly
- Electronic Controller
- Bearings
- Bushings
- Seat Swivel Mechanism
- Rubber Components, excluding tyres
- Plastic Components, excluding body
- Armrests, excluding pads

**Note**: While charging batteries it is normal for the battery charger to heat up. Heat coming from the battery charger DOES NOT constitute a defect

**NOTE**: Items not listed above are not covered for repair under this warranty

# Limited Warranty

Scooters and Powerchairs (continued)

Effective January 1st, 2020

***Warranty Exclusions:***

Scooters Australia does not provide warranty on any of the following items which may require replacement due to the normal wear and tear of day to day usage:

- Tyres and Tubes
- Plastic Shrouds
- Motor Brushes
- Bulbs / Fuses
- Brake pads
- Upholstery
- Armrest pads

This warranty also excludes the following:

- Batteries (Please consult battery manufacturer for any implied warranty)
- Loss or theft of components
- Damage caused by:
    - Battery fluid spillage or leakage
    - Abuse, misuse, accident or negligence
    - Improper operation, maintenance or storage
    - Commercial use or use other than normal
    - Repairs and / or modifications made to any part without specific written consent of Scooters Australia
    - Exceeding the specified weight capacity of the unit
    - Accessories other than those supplied or approved by Scooters Australia
    - Failure to adhere to the product instructions contained in the Owner's Manual
    - Acts of Nature, such as lightning strikes, etc
    - Circumstances beyond the control of Scooters Australia
    - Call out fees or freight costs if the product is not returned to the authorised dealer.
- ANY PARTS ALTERED OR REPAIRED BY UNAUTHORISED PERSONS.

**There is no other express warranty.**
Implied warranties, including those of merchantability and fitness for a particular purpose are excluded. Liabilities for consequential damages are excluded. This warranty gives you specific rights and you may also have other rights which may vary from state to state.

## *How to get Warranty Service*

Warranty service must be performed by an authorised Scooters Australia representative. Scooters Australia reserves the right to replace warranted parts with refurbished or new parts at our discretion. All service calls, call-out fees, transportation costs or any other charges associated with any warranty repairs are the responsibility of the consumer. Warranty is for the replacement of the part only and does not include freight for the replacement parts. Consumers are not to return any item to Scooters Australia without prior written authorisation. Any damages incurred while warranted parts are in transport are the sole responsibility of the consumer. To receive Warranty Service:

- Contact the Authorised Dealer from whom you purchased the product.
- Arrange to either deliver the product to the Dealer or to have the Dealer call out to inspect the product. **Such call-out may attract a fee – contact your dealer for details.**
- When the service is complete, either pick up the product from the Dealer or pay for it to be delivered to you.

### *Warranty Terms and Conditions*

Any sale of product by Scooters Australia is subject to and conditional upon its general trading terms and conditions. In the event of any inconsistency between those terms and conditions and the terms and conditions of this Limited Warranty, then the terms of this Warranty shall prevail.

Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

# Service Record

Initial Owner …….

Date Purchased: …… Invoice #: ……

| | Date Serviced | Invoice # | Technician (signature) | Notes |
|---|---|---|---|---|
| 12 Months Service | | | | |
| 24 Months Service | | | | |
| 36 Months Service | | | | |
| 48 Months Service | | | | |
| 60 Months Service | | | | |
| | | | | |

- Please phone your local dealer to arrange for your next service appointment
- Please ensure that the details of each service are recorded above.

Authorised Dealer

mounties care
Mobility & Independence

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**mobility@mountiescare.com.au**
**www.mountiescaremobility.com.au**