Monarch Buzz

Owner's Manual
Monarch Buzz
MODEL GB116

Thank you for purchasing your Monarch Buzz electric scooter.

Buzz Model GB116

Standard Packing List:

1 Owner's Manual
1 Battery Pack
1 Front Basket
1 Seat with Armrests
2 Keys
Battery Charger
Seat Post Nut and Bolt or Detent Pin

DISCLAIMER

We ask that you read this manual completely before operating your new Buzz Scooter, we are not and cannot be held responsible for any damage or injury incurred due to improper or unsafe use of the Buzz Scooter. We specifically disclaim responsibility for any bodily injury or property damage that may occur during any use that does not comply with applicable federal, state, or local laws or ordinances.

PLEASE NOTE: Some of the illustrations in this manual may not relate to your model. So take care to ensure you understand the instructions thoroughly and make sure that when the illustrations are different to your scooter you are aware of those differences.

CONTENTS

I. INTRODUCTION

Congratulations on the purchase of your new Buzz Scooter. The Buzz combines cutting edge technology with attractive designs that are also highly functional in today's world. We at Scooters Australia know that you have chosen a scooter that will give you years of dependable operation and also will enhance the quality of your life by providing you with the mobility to experience an active daily lifestyle.

Even though your new Buzz Scooter is both user-friendly and designed for maximum maneuverability 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 Buzz 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 Buzz Scooter, please contact your local SCooters Australia dealer or call Scooters Australia on 03 9799 9077.

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. Also, 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.

We have used the latest product specifications and the latest product design information to manufacture your Buzz Scooter. SCooters Australia reserves 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.

We would appreciate hearing about the dependability of your Buzz Scooter and about the convenience of mobility it has provided for you. We would also appreciate hearing about the service you received from your local dealer or representative.

I. INTRODUCTION

FEATURES AND BENEFITS

Your Buzz 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 Buzz Scooter below.

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

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

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

Basket: The Buzz comes standard with a removable storage basket.

Tiller: Easy to use tiller offers multiple adjustments to find your most comfortable driving position. The Tiller Adjustment Knob is located at the bottom of the tiller on the right side. The Tiller Lock Knob is located at the bottom of the tiller in the front so that you can lock the tiller in place when disassembled.

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.

Easy Access Battery Pack: Located under the seat, the battery pack has a wireless connector system for easy disassembly and reassembly. The battery pack can be removed and brought indoors for charging with its off board charger.

Auto Grade Carpet: The Buzz comes standard with an auto grade carpet that is designed to reduce slips.

Inter-changeable shrouds: The body (rear shroud, deck shroud) of your scooter is formed ABS plastic and is painted for style and durability. Each Buzz™ comes standard with three sets of quick-snap color shrouds in Red, Blue and Sahara. Colors can be changed by gently snapping off the pieces.

Figure 1. Buzz Features

I. INTRODUCTION

ACCESSORIES FOR THE BUZZ SCOOTER:

A variety of accessories are available for your Buzz Scooter. Please contact your Authorized Dealer for more information or to order.

- Cane Holder Tube
- Cup Holder
- Deluxe Pack N' Go
- Forearm Crutch Holder
- Mirror
- Safety Flag
- Scooter Cover
- Touch-up Paint

*Some accessories require a mounting bracket or mounting clips. Please check with your dealer to find out if the accessory you would like to order requires a mounting bracket or mounting clips.

II. SAFETY

Your Buzz is a battery-operated personal mobility vehicle. Please exercise caution and consideration when you are operating it. Driving your Buzz carefully and thoughtfully will help ensure your personal safety and the safety of other people.

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

BEFORE GETTING ON YOUR BUZZ

- 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 Buzz 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 Buzz 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 BUZZ

- 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 BUZZ

- 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 Buzz Scooterv has been rated to a maximum payload (operator and anything else being carried onboard) of 112 kgs. Exceeding the maximum weight rating will void the warranty.

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

II. SAFETY

DRIVING ON INCLINES

- For maximum stability, lean forward in your Buzz 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 handicap 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 Buzz Scooter moving when climbing an incline. If you do come to a stop, restart and accelerate slowly and carefully.
- Do not try to descend or climb a slope whose gradient is greater than recommended.

***Buzz 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 Buzz 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.

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. If it is necessary to back down a slope follow one of two procedures.

II. SAFETY

NOTE: When using either of the following procedures to back down a slope, Scooters Australia strongly advises that you have the assistance of another person.

Procedure 1 - Under Power

1. Set the key switch to the "Off" position. See section V. "Operation."
2. **Dismount your** Buzz Scooter
3. Set the key switch to the "On" position. See section V. "Operation."
4. While standing alongside your scooter, carefully operate the controls at the lowest speed setting. See section V. "Operation."
5. Slowly and carefully back your scooter down the incline.
6. Carefully remount your Buzz Scooter and resume normal operation.


WARNING When your scooter is in freewheel mode, the park brake is released. If the batteries are dead, the motor braking system will not work. The weight of the scooter on a slope may cause you to lose control of the scooter. If you do not feel capable of manually controlling your scooter down the slope, request assistance or do not attempt to use this procedure.

Procedure 2 - Emergency (No Power)

1. Set the key switch to the "Off" position. See section V. "Operation."
2. **Dismount your Buzz.**
3. Set the freewheel lever to "Disengaged."
4. While standing alongside the scooter, carefully manually maneuver it down the slope.
5. When you have reached a level surface at the bottom of the slope, position the freewheel lever in the engaged position. See section V. "Operation."
6. Refer to section X. "Care and Maintenance" to restore power.

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.

II. SAFETY

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 Buzz Scooter. Also check with your physician concerning your physical ability to operate a scooter.

 WARNING Do not connect or allow anyone except an authorized dealer to connect any electrical or mechanical device to your Buzz.
Unauthorized accessories will void the warranty and may cause injury.

NOTE: Please remember that while on your Buzz Scooter you are a motorized pedestrian. You must observe and obey all pedestrian rules and regulations for the locale in which you are riding.

Please use your Buzz often and allow it to expand the horizons of your daily life. The more mobility your scooter brings to you, the happier you will be.
But as with all things, especially motor operated vehicles, observing a few rules and safety considerations will help ensure safe scooter operation.
So please follow the rules below.

RULES FOR USE AND OTHER SAFETY CONSIDERATIONS
- Read completely and understand this owner's manual before assembling, operating, transporting, or disassembling your scooter.
- Always operate your Buzz 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 position before operating your Buzzaround Lite.
- 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 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 Buzzaround Lite when it is being transported.
- Always fasten down your scooters securely with an approved tie-down system while transporting your scooter.
- Never operate your scooter if it is not functioning properly.

II. SAFETY

RULES FOR USE AND OTHER SAFETY CONSIDERATIONS - continued

- 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 (see pages 14-15).
- 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 BUZZAROUND LITE

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 Buzz Scooter.


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

The 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, walkie-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 Authorised Dealer.


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 BUZZ SCOOTER

Figure 4. Your Buzz Scooter

FOR YOUR RECORDS
Please fill in your Buzz 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 Color_____

Dealer Name_____

Company_____

Address_____

City _____ State_____ P/C_____

IV. YOUR BUZZ SCOOTER

Specification	**GB-106**	**GB-116**
Weight capacity	112 Kgs	136 kgs.
Drive Wheels	Rear	Rear
Maximum speed	6 kph	6 kph
Operating Range [1]	12 kms	12-20 kms
Ground Clearance to center deck	44 mm	50 mm
Ground Clearance to transaxle/motor	37.5mm	37.5mm
Turning Radius	775mm	925mm
Type Batteries	2-12 AH	2 x12 - 20 AH
Colors	Red, Blue, Sahara	
Freewheel Mode	Yes	Yes
Electronic Speed Control	Yes	Yes
Electro-Mechanical Brakes	Yes	Yes
Charger	Off-board	Off-board
Controller	45 Amp	50 Amp
Length	910 mm.	1012 mm.
Width	535 mm	556 mm.
Height (ground to top seat back)	750-800 mm	868-918 mm.
Ground to top of Seat	475 - 535 mm.	550-600 mm
Ground to top of Deck	106 mm.	103 mm
Deck to top of Seat	375-425 mm	431-481 mm
Number of Seat Height Adjustments	3	4
Size of Increments	50 mm	12.5 mm
Front axle to Rear axle	715 mm	750 mm
Weight of Unit: (assembled)	**43.5 kg**	46 kgs.
Front Half	13.2 kg	15 kgs.
Rear Half	11.8 kg	11.3 kg
Seat with Arms	9.5 kg	9.5 kg
Battery pack weight	8.6 kg	11 kg
Tires:	Flat Free	Flat Free
Front	200 mm	200 mm
Rear	200 mm	200 mm
Rear Anti-Tip Wheels	100 mm	100 mm
Standard Seat:	Stadium Style	Stadium Style
Seat Back Height (no headrest)	400 mm.	400 mm.
Width x Depth	425 x400mm	425 x 400mm
Color	Black Vinyl	Black Vinyl

IV. YOUR BUZZ SCOOTER

Specifications	**GB-106**	**GB-116**
Optional Seat:	Stadium Style	Stadium Style
Seat Back Height (no headrest)	39 mm	39 mm
Width x Depth	450 x 400mm	450 x 400mm
Color	Black Vinyl	Black Vinyl
Warranty:		
Frame	Lifetime Warranty	Lifetime Warranty
Drive Train	2 Year Warranty	2 Year Warranty
Electronics [2]	1.5 year Warranty	1.5 Year Warranty

*** Notes:**

1. Battery range will vary due to rider weight, drive surface, and terrain.
2. Electronics warranty excludes batteries.
3. There is a +25mm/-25mm tolerance on all dimensions.

V. OPERATION

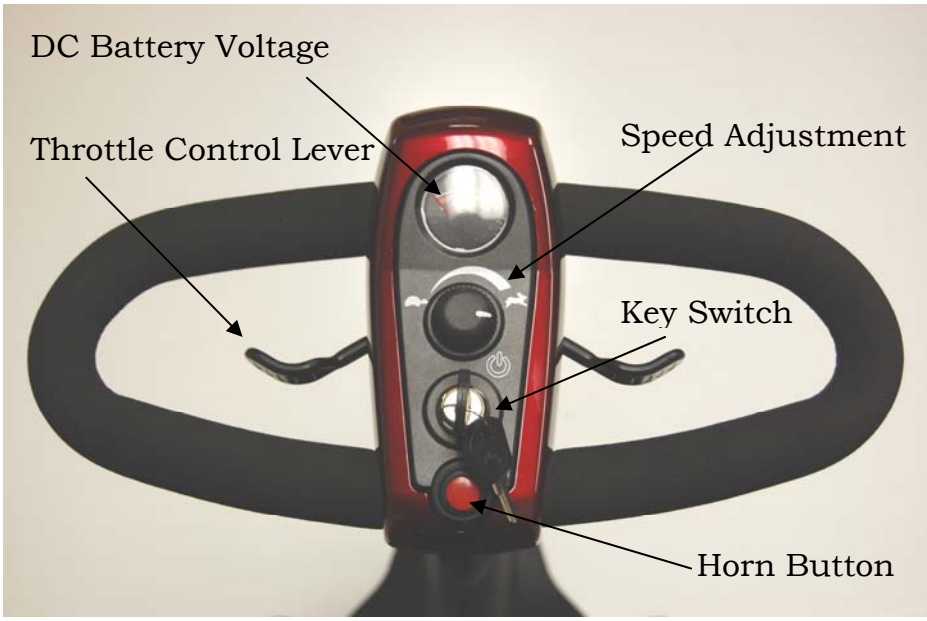

Figure 5. Buzz Delta Tiller Control Panel

CONTROL PANEL

Speed Adjustment Dial

• The speed adjustment dial allows you to preselect the maximum top speed of your Buzz 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.

Key Switch

This switch turns the power on and off to your scooter. See figure 5.
• Insert the key into the key switch.
• Turn the key 90 degrees clockwise to turn on your scooter's power. Your scooter will beep once, the DC Battery Voltage Meter will light up, and the needle will move to indicate that power is on.
• Turn the key back to the vertical position to turn off your scooter's power.

NOTE: Always make certain that the key is removed from the key switch before getting on or off your Buzz Scooter or before lowering the tiller completely.

Horn Button

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

V. OPERATION

DC Battery Voltage Meter
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.

Delta Tiller Throttle Control Lever
The Delta Tiller enables you to use only one hand (either the right or left) to operate both the speed and the direction of the Buzz Scooter. This self-centering lever system controls your Buzzaround Lite'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.

NOTE: Always bring your scooter to a full stop before changing direction from forward to reverse, or from reverse to forward.

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 center "stop" position and engages your scooter's brakes, bringing you to a complete stop. You will hear a "click" when the park brake engages.

Control Options Your Authorised Dealer has made provision for the individual needs and abilities of the operators of the Buzz Scooter.

Your authorized 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.

DELTA TILLER ADJUSTMENT
The tiller on your scooter employs an adjustment knob to provide you with multiple tiller angle settings. To set the tiller to your liking, follow these directions.
1. Use one hand to grasp a handgrip.
2. Use your other hand to loosen the tiller adjustment knob. See figure 4 on page 13.
3. Position the tiller to a comfortable driving position.
4. Tighten the tiller adjustment knob.

V. OPERATION

SEATING

Figure 6. Armrest Width Adjustment

Figure 7. Flip-up/Angle 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.

Flip-up Armrests
Pull up on the end of either armrest to flip it up for easy transfer on and off your scooter. See #1 on figure 7.

Armrest Angle
To increase the armrest angle, turn the armrest angle screw counterclockwise.
To decrease the armrest angle, turn the armrest angle screw clockwise.
See #2 on figure 7.

V. OPERATION

Figure 8: Seat Rotation Adjustment

Seat Rotation Lever

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

1. Pull up 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

Seat Height Adjustment

To adjust the seat height:

1. Pull up on the seat rotation lever and lift the seat up and off of the seat pedestal. See Figure 9.
2. Remove the battery box by lifting it up.
2. Remove the detent pin or nut and bolt that holds the seat post in the seat pedestal. See Figure 10.
3. Position the seat post at the desired height while aligning the holes in the seat post and the seat pedestal.
4. Reinstall the detent pin or nut and bolt.
5. Pull up on the seat rotation lever when placing the seat back on the seat post.

V. OPERATION

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

Figure 11: Freewheel Lever

To disengage the park brake and put your scooter in freewheel mode:
Pull forward on the freewheel lever towards the letter N (Neutral Position). See figure 11.

To engage the brake and take your scooter out of freewheel mode:
Push back on the freewheel lever towards the letter D (Drive Position). See figure 11.

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

VI. RIDING YOUR Buzz Scooter

MOUNTING

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

BEFORE GETTING ON YOUR BUZZ 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 paddle 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. "Operation" in this manual.
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 BUZZ SCOOTER

1. Position the seat for safe and easy mounting. Ensure that the seat is facing forward. See Section V. "Operation."
2. Return tiller to full upright position if necessary.
3. Carefully place one foot on the approximate center 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. See figures 12 and 13.

Figure 12. Key Switch (Off)

Figure 13. Key Switch (On)

VI. RIDING YOUR Buzz

BASIC DRIVING

1. Make certain that you are seated safely and properly on your Buzz 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. See figure 13 on page 21.
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 accelerate your scooter.
7. Release the throttle control lever to allow your scooter to come gently to a full 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 (see figure 4 on page 13), turn the tiller to the right to travel to the right.
2. With both hands on the handgrips of the tiller (see figure 4 on page 13), 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.

VI. RIDING YOUR Buzz

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 obstacle and tight spots, see "Control Through Tight Spots" on the next page.

Steering in Reverse
Backing up your scooter requires attention to what you are doing.
1. Use your right fingers to push the throttle control lever or use your left fingers to pull back on the throttle control lever. See figure 5 on page 16.
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.

VI. RIDING YOUR Buzz

CONTROL THROUGH TIGHT SPOTS

As you use your Buzz 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 maneuver 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 center of gravity forward for maximum stability and safety.

If the ramp has a switchback, good cornering ability is required.

- Maneuver 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.
- 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 Buzz 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

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

Remove the Seat
1. Place your scooter on a level surface.

WARNING Remove the key from the key switch before you begin to disassemble your Buzzaround Lite.

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. While holding the seat rotation lever up, grip the seat on opposite sides and, with a firm grip; pull the seat straight up. See figure 14.

Figure 14. Removing the Seat

Remove the Battery Pack
4. Lift the battery pack off the scooter. See figure 15.

Figure 15. Removing the Battery Pack

VII. DISASSEMBLY

Remove the Tiller Basket

5. Remove the tiller basket by pulling up.

Fold Down and Lock the Tiller

6. Push in and turn the tiller lock clockwise 90 degrees. See #1 on figure 16. This will lock the front wheel to keep it from turning side to side to help control while carrying.

Figure 16. Lowered Tiller

6. Loosen tiller adjustment knob and fold the tiller down flat. See #2 on Figure 16. Then tighten the adjustment knob to secure the tiller in its new position. Once the tiller is lowered and locked, and the scooter is disassembled you may use it as a handle for easy transportation. See #3 on Figure 16.

Separate the Drivetrain from the Frame

WARNING Be careful not to pinch your fingers between the frames. This area is a pinch-point and requires your full attention.

7. Pull up on the drivetrain release lever with one hand to unlock the front and rear frame sections See Figure 17.
8. Pull the front frame up and off of the drivetrain. See figure 17.

Figure 17. Separating the Drivetrain and Frame

VIII. ASSEMBLY

WARNING Be aware of any possible pinch-points when connecting the rear frame to the front frame. Please note warning labels at pinch-points during assembly.

WARNING Pinching and crushing hazard! Increased hazards due to pinching or crushing 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.

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 becomes 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.

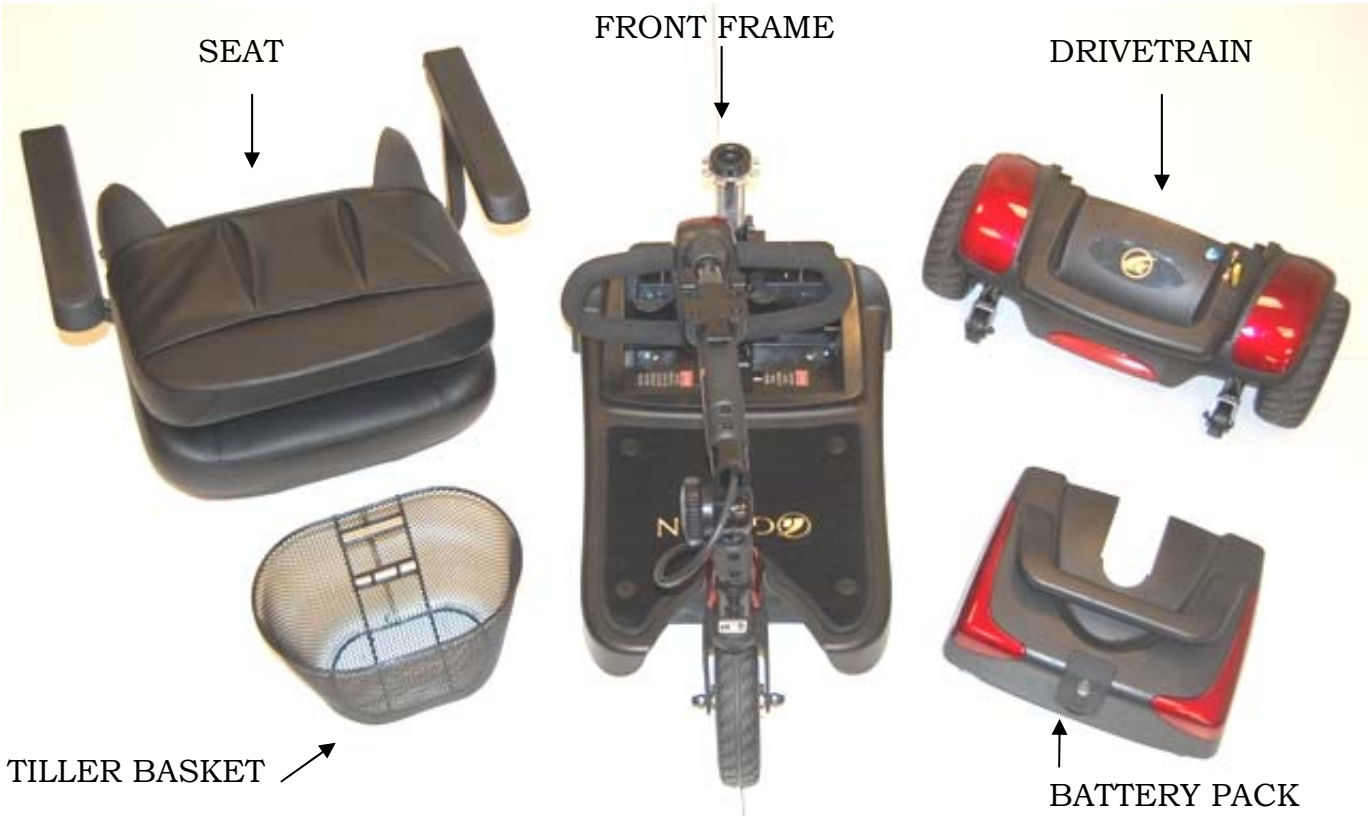

Figure 18. Buzz Components

VIII. ASSEMBLY

Reinstall the Drivetrain

1. Line up the frame and the drivetrain. See figure 19.

WARNING **WATCH FINGER PLACEMENT! BE CAREFUL NOT TO PINCH YOUR FINGERS!**

2. Lower the frame onto the drivetrain until the drivetrain release lever engages. You should hear a click. See figure 20.

Install the Battery Pack

3. Gently lower the battery pack onto the frame. See figure 21.

Figure 19. Drivetrain alignment

Figure 20. Connecting Frames

Figure 21. Battery Pack Installation

VIII. ASSEMBLY

Raise the Tiller

4. Loosen the tiller adjustment knob and raise the tiller. See figure 22.
5. Tighten the tiller adjustment knob at the desired position.

Figure 22. Tiller Raised

WARNING MAKE SURE YOU TIGHTEN YOUR TILLER KNOB TO BE SURE IT IS SECURED IN THE DESIRED POSITION!

Install the Tiller Basket

6. Place the basket onto the tiller bracket and push down to lock it in place. See figure 22.

VIII. ASSEMBLY

Install the Seat

7. Hold the seat on an angle so you can see the seat swivel post underneath.
8. Place the seat swivel post into the seat receiver post as shown in figure 23.
9. Pull up on the seat release lever to lock the seat in place.

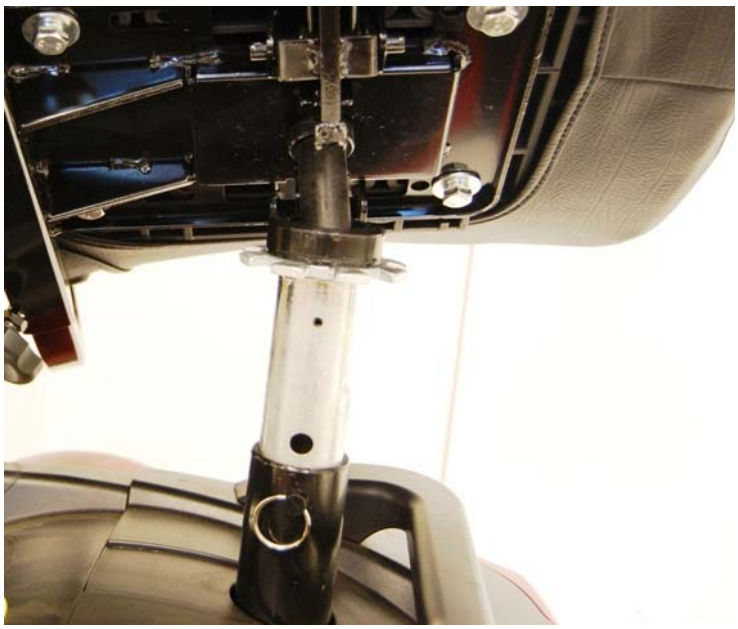

Figure 23. Installing the Seat

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.

Unlock the Tiller

10. Turn the tiller lock knob to the unlocked position. See figure 22 on page 29.

WARNING IF YOU DON'T UNLOCK YOUR TILLER LOCK KNOB, YOUR TILLER WILL NOT TURN! THIS COULD CAUSE INJURY.

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 Buzz

Figure 24. Monarch Buzz GB106

NOTE: All Buzz 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.

To Transport Your Buzz:

- 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 Buzz or fold the seat and tiller depends on the size and shape of the cargo area of the transporting vehicle.
- Do not lift your Buzz by its plastic body parts or dash. Breakage of these parts is not covered by the warranty.
- Do not use the tires 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. Always fasten down your scooter securely with an approved tie-down system while transporting your scooter.

X. CARE AND MAINTENANCE

ROUTINE MAINTENANCE

The Buzz, like all motor vehicles, should be serviced regularly to ensure safe and trouble free operation. You should have your scooter serviced at least every 12 months by an authorised dealer. Failure to do so may void your warranty.
There are several things that you can do to help keep up the appearance and maintain the safe performance of your scooter, but the most important is to have it serviced regularly by an authorised dealer.

CLEANING YOUR Buzz 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 tyre material to break down or become too soft.

Body
The body (rear shroud, deck shroud) of your scooter is formed ABS plastic and is painted for style and durability.

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.

Auto Grade Deck Carpet
Wash in a heavy-duty clothes washer. Or, spray clean with an automotive-type wand after the carpet has been removed from the scooter. The deck carpet snaps into place on the scooter floor. Simply pull up on the carpet to remove it.

X. CARE AND MAINTENANCE

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.

- 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. See figure 15 on page 25.

To Charge the Batteries:
The charger for Buzz models is an off-board charger. To charge the batteries, lift the cover and plug the charger into the charger port on the battery pack, or on the side of the console under the dashboard. See figure 27.

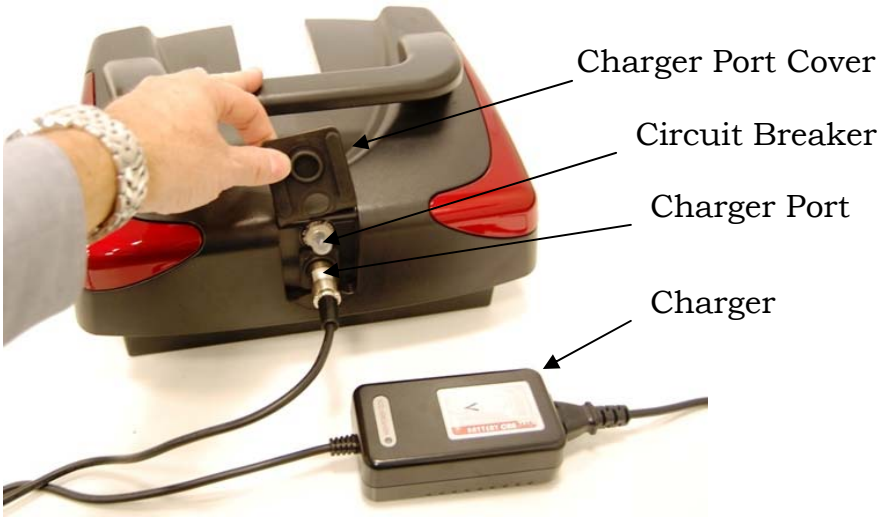

Figure 27. Charging Batteries

Battery Maintenance
GEL-cell or AGM and SLA deep-cycle batteries are used for operating Buzz scooters.

- These batteries are maintenance free.
- There is no danger of spillage or leakage, so these batteries are safely transportable on aircraft, busses, trains, etc.
- By following the procedures set out in this manual, you can expect extended life from your batteries.

X. CARE AND MAINTENANCE

IF YOUR Buzz DOES NOT OPERATE

- Make certain the freewheel lever is set to the engaged position. See page 20.
- Check the main circuit breaker. If necessary, reset the circuit breaker. See figure 27 on page 33.
- 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 authorized dealer.

MAIN CIRCUIT BREAKER

The main circuit breaker reset button is located on the battery pack. See figure 27 on page 33.

Do not attempt electrical repairs. Consult your authorized 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.

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 authorized dealer load test the batteries.
- If the batteries are good, the charger may be the problem. Consult your authorized dealer.

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. See figure 27 on page 33.

X. CARE AND MAINTENANCE

NOTE: If the main circuit breaker continues to trip, there is probably an underlying electrical fault that needs attention.

• Contact your authorized dealer.
• Do not keep resetting the main circuit breaker without correcting the underlying electrical problem.

DIAGNOSTICS

The diagnostics feature of your Buzz Scooter microprocessor based motor control board functions as follows:

• Any fault condition with the controller or with an associated system will cause the scooter to beep.
• The number of beeps 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 authorized dealer.

X. CARE AND MAINTENANCE

4 Beeps
• Indicates that the motor control board is overloaded and overheated.
• An overload can occur if you have been driving your Buzz for an extended period of time up an incline above the recommended 6 degrees.
• An overload can occur if your Buzz is carrying a payload that is higher than the recommended weight capacity of 112 kgs.
• 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 authorized dealer.

5 Beeps
• Indicates a brake problem.
• The freewheel lever may be in the disengaged position. See page 20.
• 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. See page 20.
• 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 authorized 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 authorized dealer.

X. CARE AND MAINTENANCE

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 authorized dealer.

8 Beeps
• Indicates a motor voltage problem.
• Your scooter will not operate until the problem is corrected.
Remedy: Contact your authorized dealer.

9 Beeps
• Indicates other internal errors or faults
• Your scooter will not operate until the problem is corrected
Remedy: Contact your authorized dealer.

10 Beeps
• The scooter has exceeded the Push or Rollaway speed limits.
Remedy:
• Turn the controller off and then on again.
• Consult your authorized dealer

REMEMBER: Always have your scooter serviced at least annually by an authorised dealer. This will give you safe and enjoyable driving and protect your warranty.
Unauthorised servicing or altering the scooter in any way may void your warranty.

XI. WARRANTY

Consumer Limited Warranty
Scooters
Effective June 1, 2010

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 Authorized Dealer. Proof of purchase will be required.
This warranty does not cover transport to and from the place of purchase or repair.

Lifetime Limited Warranty:

For the life of the scooter, from the date of purchase from an authorized Scooters Australia dealer, in the event of defective materials or workmanship, Scooters Australia will repair or replace at our option any of the following structural components found to be defective by an authorized representative:

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

Two-Year Warranty:

For the period of two years from the date of purchase, in the event of defective materials or workmanship, Scooters Australia will repair or replace at our option with any new or reconditioned components any of the following drive train components found to be defective by an authorized representative:

- Transaxle
- Motor/Brake Assembly (electrical function only)

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

For the period of 18 months from the date of purchase, in the event of defective materials or workmanship, Scooters Australia will repair or replace at our option any of the following electronic assemblies found to be defective by an authorized representative:

- Electronic Controller
- Battery Charger
- Dash Assembly
- Potentiometer Assembly
- Wire Harness(es)

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.

XI. WARRANTY

Consumer Limited Warranty
Scooters (continued)

One-Year Limited Warranty:

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

- Bearings
- Bushings
- Seat Swivel Mechanism
- Rubber Components (excludes tires)
- Armrests
- Plastic Components (excludes body)

Items not listed are covered at the discretion of Scooters Australia. Any accessories, standard or optional, supplied by Scooters Australia are covered for a period of one year from the date of purchase with the particular unit.

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:

- Tires and Tubes
- ABS Plastic Shrouds
- Armrest Pads
- Motor Brushes
- Bulbs/Fuses
- Brake Pads
- Upholstery

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 the specific 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
  - Acts of Nature, such as lightning strikes, earthquakes, etc....
  - Circumstances beyond the control of Scooters Australia.

- **ANY PARTS ALTERED OR REPAIRED BY UNAUTHORIZED PERSON.**

Warranty Service:

Warranty Service must be performed by an authorized representative. We reserve the right to replace warranted part(s) with refurbished or new part(s) at our discretion. All callout charges, service calls, transportation costs or any other charge(s) associated with the installation of any warranted part(s), apart from on-site labour charges are the responsibility of the consumer. Warranty is for the replacement of the parts only and does not include freight for the replacement parts.
Consumers are not to return any item(s) without prior written authorization. Any damages incurred while warranted part(s) are in transport are the sole responsibility of the consumer.
There is no other express warranty.

Implied warranties, insofar as they are not addressed by state laws, are excluded. Liabilities for consequential damages are excluded.

NOTE: This warranty gives you specific rights and you may also have other rights which may vary from state to state.