Sonic

Owner's Manual

ATTENTION:
Please read the content of your owner's manual before operating your scooter.

The Ultimate In Style & Performance®

Pride Mobility Products Ltd.

Unit 106, Heyford Park Camp Road
Upper Heyford, Oxfordshire OX25 5HA

www.pridemobility.com

SAFETY GUIDELINES

Please read and follow all instructions in this owner's manual before attempting to operate your scooter for the first time. If there is anything in this manual you do not understand, or if you require additional assistance for setup, contact your authorised Pride provider.

Using your Pride product safely depends upon your diligence in following the warnings, cautions, and instructions in this owner's manual. Using your Pride product safely also depends upon your own good judgement and/or common sense, as well as that of your provider, caregiver, and/or healthcare professional. Pride is not responsible for injuries and/or damage resulting from any person's failure to follow the warnings, cautions, and instructions in this owner's manual. Pride is not responsible for injuries and/or damage resulting from any person's failure to exercise good judgement and/or common sense.

The symbols below are used throughout this owner's manual to identify warnings and cautions. It is very important for you to read and understand them completely.

WARNING! Failure to heed the warnings in this owner's manual may result in personal injury.

CAUTION! Failure to heed the cautions in this owner's manual may result in damage to your scooter.

INFMANU1876/REV E/JANUARY 2003

CONTENTS

I. INTRODUCTION

Welcome to Pride Mobility Products Ltd. (Pride). Congratulations on the purchase of your new Pride Scooter. Your scooter design combines the most advanced state-of-the-art components with modern, attractive styling. We are certain that the design features and trouble-free operation will add convenience to your daily living and ensure complete satisfaction.

At Pride, your safety is important to us. **Please read and follow all of the instructions in this manual before you attempt to operate your scooter for the first time.** These instructions were produced for your benefit. Your understanding of these instructions is essential for the safe operation of your new Pride Scooter.

Pride is not liable for damage to property or personal injury arising out of the unsafe use of a Pride Scooter. Pride is also not liable for any property damage or personal injury arising out of the failure of any person and/or user to follow the instructions and recommendations set forth in this manual or any other instructions or recommendations contained in other scooter related literature issued by Pride or contained on the Pride Scooter itself.

This owner's manual is compiled from the latest specifications and product information available at the time of publication. We reserve the right to make changes as they become necessary. Any changes to our products may cause slight variations between the illustrations and explanations in this manual and the product you have purchased.

If you experience any problems with your scooter that your are not able to solve, or if you do not feel capable of safely following any of the instructions and/or recommendations contained in this manual, please contact your authorised Pride provider for assistance.

Once you understand how to operate and take care of your scooter, we are certain that it will give you years of trouble-free service and enjoyment.

Information Exchange

We want to hear your questions, comments, and suggestions regarding this manual. We would also like to hear about the safety and reliability of your new Pride Scooter, and the service you received from your authorised Pride provider.

Please notify us of any change of address so we can keep you apprised of important information regarding safety, new products, and new options that can increase your ability to use and enjoy your Pride Scooter. Please feel free to write us at the address below:

Pride Mobility Products Ltd.
Unit 106, Heyford Park Camp Road
Upper Heyford, Oxfordshire OX25 5HA

I. INTRODUCTION

My Authorised Pride Provider Is:

Name:_____

Address:_____

Phone Number:_____

Quick Reference Information:

Scooter Model:_____

Serial Number:_____

Purchase Date:_____

NOTE: If you ever lose or misplace your warranty card or this owner's manual, write or e-mail us and we will be glad to send you a new one immediately.

II. SAFETY

GENERAL

WARNING! Do not operate your new scooter for the first time without completely reading and understanding this owner's manual.

Your Sonic is a state-of-the-art life-enhancement device designed to increase mobility. Pride provides an extensive variety of products to best fit the individual needs of the scooter user. Please be aware that the final selection and purchasing decision regarding the type of scooter to be used is the responsibility of the scooter user who is capable of making such a decision and his/her healthcare professional (i.e., medical doctor, physical therapist, etc.).

The contents of this manual are based on the expectation that a mobility device expert has properly fitted the scooter to the user and has assisted the prescribing healthcare professional and/or the authorised Pride provider in the instruction process for the use of the product.

There are certain situations, including some medical conditions, where the scooter user will need to practice operating the scooter in the presence of a trained attendant. A trained attendant can be defined as a family member or care professional specially trained in assisting a scooter user in various daily living activities.

As you begin using your scooter during daily activities, you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control as you maneuver through doorways, on and off elevators, up and down ramps, and over moderate terrain.

MODIFICATIONS

Pride has designed and engineered your Sonic to provide maximum mobility and utility. A wide range of accessories is available from your authorised Pride provider to further customize your scooter to better suit your needs and/or preferences. However, under no circumstances should you modify, add, remove, or disable any feature, part, or function of your scooter.

WARNING! Do not modify your scooter in any way not authorised by Pride. Unauthorised modifications may result in personal injury and/or damage to your Sonic.

REMOVABLE PARTS

WARNING! Do not attempt to lift or move a scooter by any of its removable parts. Personal injury and damage to the scooter may result.

II. SAFETY

PRE-RIDE SAFETY CHECK

Get to know the feel of your scooter and its capabilities. Pride recommends that you perform a safety check before each use to make sure your scooter operates smoothly and safely. For details on how to perform these necessary inspections, see XI. "Care and Maintenance."

Perform the following inspections prior to using your scooter:

- Check all electrical connections. Make sure they are tight and not corroded.
- Check the brakes.
- Check battery charge.

If you discover a problem, contact your authorised Pride provider for assistance.

WEIGHT LIMITATIONS

Your Sonic is rated for a 113 kg, 18 stone (250-lb.) maximum weight limit.

WARNING! Exceeding the weight limit voids your warranty and may result in personal injury and damage to your scooter. Pride will not be held responsible for injuries and/or property damage resulting from failure to observe weight limitations.

WARNING! Do not carry passengers on your Sonic. Carrying passengers may result in personal injury and/or property damage.

INCLINE INFORMATION

More and more buildings have ramps with specified degrees of inclination designed for easy and safe access. Some ramps may have turning switchbacks (180-degree turns) that require you to have good cornering skills on your scooter.

- Proceed with extreme caution as you approach the downgrade of a ramp or other incline.
- Take wide swings with your scooter's front wheel around any tight corners. If you do that, the scooter's rear wheels will follow a wide arc, not cut the corner short, and not bump into or get hung up on any railing corners.
- When driving down a ramp, keep the scooter's speed adjustment set to the slowest speed setting to ensure a safely controlled descent. See IV. "Your Sonic."
- Avoid sudden stops and starts.

When climbing an incline, try to keep your scooter moving. If you must stop, start up again slowly, and then accelerate cautiously. When driving down an incline, do so by setting the speed adjustment dial to the slowest setting and driving in the forward direction only. If your scooter starts to move down the incline faster than you anticipated or desired, allow it to come to a complete stop by releasing the throttle control lever. Then push the throttle control lever forward slightly to ensure a safely controlled descent.

WARNING! When climbing an incline, do not zigzag or drive at an angle up the face of the incline. Drive your scooter straight up the incline. This greatly reduces the possibility of a tip or a fall. Always exercise extreme caution when negotiating an incline.

WARNING! You should not travel up or down a potentially hazardous incline (i.e., areas covered with snow, ice, cut grass, or wet leaves).

WARNING! When on any sort of an incline or decline, never place the scooter in freewheel mode while seated on it or standing next to it.

Other inclines may be natural or, if man-made, not designed specifically for scooters. Figures 1 and 1A illustrate your scooter's stability and its ability to climb grades under various weight loads and under controlled testing conditions.

These tests were conducted with the Sonic's seat in the highest position and adjusted rearward on the seat base to its farthest rearward position. Use this information as a guideline. Your scooter's ability to travel up inclines is affected by your weight, your scooter's speed, your angle of approach to the incline, and your scooter setup.

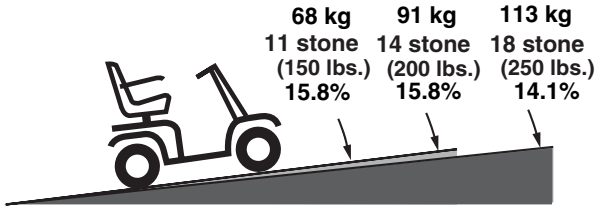


FIGURE 1. MAXIMUM RECOMMENDED INCLINE ANGLE FOR THE SONIC

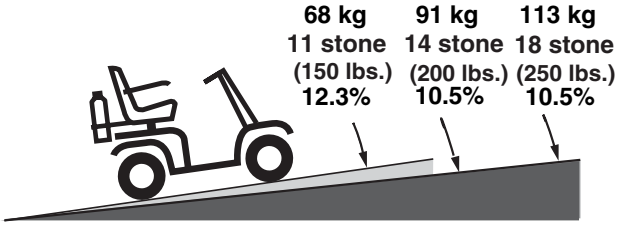


FIGURE 1A. MAXIMUM RECOMMENDED INCLINE ANGLE FOR THE SONIC WITH REAR BASKET OR OXYGEN TANK

WARNING! Any attempt to climb or descend slopes steeper than those shown in figures 1 and 1A may put your scooter in an unstable position and cause it to tip, resulting in personal injury.

WARNING! Never use an oxygen tank weighing more than 6 kg (13 lbs.). Never fill the rear basket with contents exceeding 7 kg (15 lbs.).

When you approach an incline, it is best to lean forward. See figures 2 and 2A. This shifts the centre of gravity of you and your scooter toward the front of the scooter for improved stability.

WARNING! Do not exceed the incline guidelines or any other specifications presented in this manual.

FIGURE 2. NORMAL DRIVING POSITION

FIGURE 2A. INCREASED STABILITY DRIVING POSITION

CORNERING INFORMATION

Excessively high cornering speeds can create the possibility of tipping. Factors which affect the possibility of tipping include, but are not limited to, cornering speed, steering angle (how sharply you are turning), uneven road surfaces, inclined road surfaces, riding from an area of low traction to an area of high traction (such as passing from a grassy area to a paved area – especially at high speed while turning), and abrupt directional changes. High cornering speeds are not recommended. If you feel that you may tip over in a corner, reduce your speed and steering angle (i.e., lessen the sharpness of the turn) to prevent your scooter from tipping.

WARNING! When cornering sharply, reduce your speed. When using your scooter at higher speeds, do not corner sharply. This greatly reduces the possibility of a tip or fall. To avoid personal injury or property damage, always exercise common sense when cornering.

BRAKING INFORMATION

Your scooter is equipped with two powerful brake systems:

1. Regenerative: Uses electricity to rapidly slow the vehicle when the throttle control lever returns to the centre/ stop position; and

2. Disc Park Brake: Activates mechanically after regenerative braking slows the vehicle to near stop, or when power is removed from the system for any reason.

OUTDOOR DRIVING SURFACES

Your scooter is designed to provide optimum stability under normal driving conditions—dry, level surfaces composed of concrete, blacktop, or asphalt. However, Pride recognizes that there will be times when you will encounter other surface types. For this reason, your scooter is designed to perform admirably on packed soil, grass, and gravel. Feel free to use your scooter safely on lawns and in park areas.

- Reduce your scooter's speed when driving on uneven terrain and/or soft surfaces.
- Avoid tall grass that can become tangled in the running gear.
- Avoid loosely packed gravel and sand.
- If you feel unsure about a driving surface, avoid that surface.

STATIONARY OBSTACLES (STEPS, KERBS, ETC.)

Always approach a kerb straight on whether ascending or descending it. See figures 3 and 3A.

WARNING! Do not drive near raised surfaces, unprotected ledges, and/or drop-offs (kerbs, porches, stairs, etc.).

WARNING! Do not attempt to have your scooter climb or descend an obstacle that is inordinately high. Serious personal injury and/or damage may result.

WARNING! Do not attempt to have your scooter proceed rearward down any step, kerb, or other obstacle. This may cause the scooter to tip and cause personal injury.

WARNING! Be sure your scooter is traveling perpendicular to any kerb you may be required to ascend or descend. See figures 3 and 3A.

WARNING! Do not attempt to negotiate a kerb that has a height greater than 5 cm (2 inches).

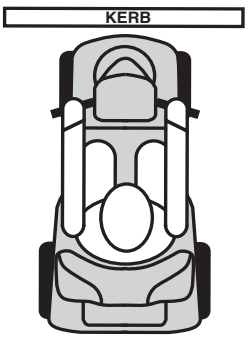


FIGURE 3. CORRECT KERB APPROACH

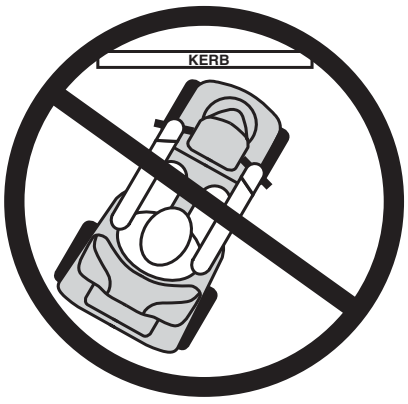


FIGURE 3A. INCORRECT KERB APPROACH

II. SAFETY

STREETS AND ROADWAYS

WARNING! You should not operate your scooter on public streets and roadways. Be aware that it may be difficult for traffic to see you when you are seated on your scooter. Obey all local pedestrian traffic rules. Wait until your path is clear of traffic, and then proceed with extreme caution.

INCLEMENT WEATHER PRECAUTIONS

WARNING! Pride recommends that you do not operate your scooter in icy or slippery conditions or on salted surfaces (i.e., walks or roads). Such use may result in an accident, personal injury, or adversely affect the performance and safety of your scooter.

WARNING! Pride recommends that you do not expose your scooter to any type of moisture at any time (rain, snow, mist, or wash). Such exposure can damage your scooter. Never operate your scooter if it has been exposed to moisture until it has dried thoroughly.

FREEWHEEL MODE

Your scooter is equipped with a manual freewheel lever that when pushed rearward allows the scooter to be pushed. For more information about how to place your scooter into and out of freewheel mode, see IV. "Your Sonic."

WARNING! Do not use your scooter in freewheel mode without an attendant present. Personal injury may result.

WARNING! Do not attempt to personally place your scooter in freewheel mode while seated on it. Personal injury may result.

WARNING! Do not place your scooter in freewheel mode while on an incline. The scooter could roll uncontrollably on its own, causing personal injury.

An added feature built into the scooter is "push-too-fast" protection which safeguards the scooter against gaining excessive speed while in freewheel mode.

"Push-too-fast" operates differently depending on which of two conditions exists:

- If the key is removed from the key switch when the scooter is in freewheel mode, the scooter's controller activates regenerative braking when the scooter is pushed faster than a maximum threshold which has been preprogrammed. In this case, the controller is acting as a speed governor.
- If the key is inserted into the key switch while the scooter is in freewheel mode, you will encounter considerable resistance at any speed. This prevents the scooter from gaining unwanted momentum should the manual freewheel lever inadvertently be released while driving the scooter.

II. SAFETY

STAIRS AND ESCALATORS

Scooters are not designed to travel up or down stairs or escalators. Always use an elevator.

WARNING! Do not use your scooter to negotiate steps or escalators. You may cause injury to yourself and to others and damage your scooter.

DOORS

- Determine if the door opens toward or away from you.
- Use your hand to turn the knob or push the handle or push-bar.
- Drive your scooter gently and slowly forward to push the door open. Or drive your scooter gently and slowly rearward to pull the door open.

ELEVATORS

Modern elevators have a door edge safety mechanism that, when pushed, reopens the elevator door(s).

- If you are in the doorway of an elevator when the door(s) begin to close, push on the rubber door edge or allow the rubber door edge to contact the scooter and the door will reopen.
- Use care that pocketbooks, packages, or scooter accessories do not become caught in elevator doors.

LIFT/ELEVATION PRODUCTS

If you will be traveling with your scooter, you may find it necessary to use a lift/elevation product to aid in transportation. Pride recommends that you closely review the instructions, specifications, and safety information set forth by the manufacturer of the lift/elevation product before using that product.

BATTERIES

In addition to following the warnings below, be sure to comply with all other battery handling information. For more information about your scooter's batteries, see V. " Batteries and Charging."

WARNING! Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

WARNING! Always protect the batteries from freezing and never charge a frozen battery. Charging a frozen battery may result in personal injury and/or damage to the battery.

PREVENTING UNINTENDED MOVEMENT

WARNING! If you anticipate being seated in a stationary position for an extended period of time, turn off the power. This will prevent unexpected motion from inadvertent throttle control lever contact. Failure to do so may result in personal injury.

II. SAFETY

MOTOR VEHICLE TRANSPORT

Currently, there are no standards approved for tie-down systems in a moving vehicle of any type to transport a person while seated in a scooter.

Although your scooter may be equipped with a positioning belt, this belt is not designed to provide proper restraint during motor vehicle transport. Anyone traveling in a motor vehicle should be properly secured in the motor vehicle seat with safety belts fastened securely.

WARNING! Do not sit on your scooter while it is in a moving vehicle. Personal injury and/or property damage may result.

WARNING! Always be sure your scooter is properly secured when being transported. Failure to do so may result in personal injury and/or damage to your scooter.

GETTING ONTO AND OFF OF YOUR SCOOTER

Getting onto and off of your scooter requires a good sense of balance. Please observe the following safety tips when getting onto and off of your scooter:

- Power down your scooter. See VI. "Operation."
- Ensure that your scooter is not in freewheel mode. See IV. "Your Sonic."
- Make certain that the seat is locked into place and the key is removed from the key switch.
- The seat armrests can be flipped up to make getting on and off of the scooter easier.

WARNING! Position yourself as far back as possible in the scooter seat to prevent the scooter from tipping and causing injury.

WARNING! Avoid using your armrests for weight bearing purposes. Such use may cause the scooter to tip and cause personal injury.

WARNING! Avoid putting all of your weight on the floorboard. Such use may cause the scooter to tip and cause personal injury.

POSITIONING BELTS

Your authorised Pride provider, therapist(s), and other healthcare professionals are responsible for determining your requirement for a positioning belt in order to operate your scooter safely.

WARNING! If you require a positioning belt to safely operate your scooter, make sure it is fastened securely. Serious personal injury may result if you fall from the scooter.

II. SAFETY

REACHING AND BENDING

Avoid reaching or bending while driving your scooter. When reaching, bending, or leaning while seated on your scooter, it is important to maintain a stable centre of gravity and keep the scooter from tipping. Pride recommends that the scooter user determine his/her personal limitations and practice bending and reaching in the presence of a qualified healthcare professional.

WARNING! Do not bend, lean, or reach for objects if you have to pick them up from the floor by reaching down between your knees. Movements such as these may change your centre of gravity and the weight distribution of the scooter and cause your scooter to tip, possibly resulting in personal injury. Keep your hands away from the tyres when driving.

PRESCRIPTION DRUGS/PHYSICAL LIMITATIONS

The scooter user must exercise care and common sense when operating his/her scooter. This includes awareness of safety issues when taking prescribed or over-the-counter drugs or when the user has specific physical limitations.

WARNING! Consult your physician if you are taking prescribed or over-the-counter medication or if you have certain physical limitations. Some medications and limitations may impair your ability to operate your scooter in a safe manner.

ALCOHOL

The scooter user must exercise care and common sense when operating his/her scooter. This includes awareness of safety issues while under the influence of alcohol.

WARNING! Do not operate your scooter while you are under the influence of alcohol, as this may impair your ability to drive safely.

III. SPECIFICATIONS

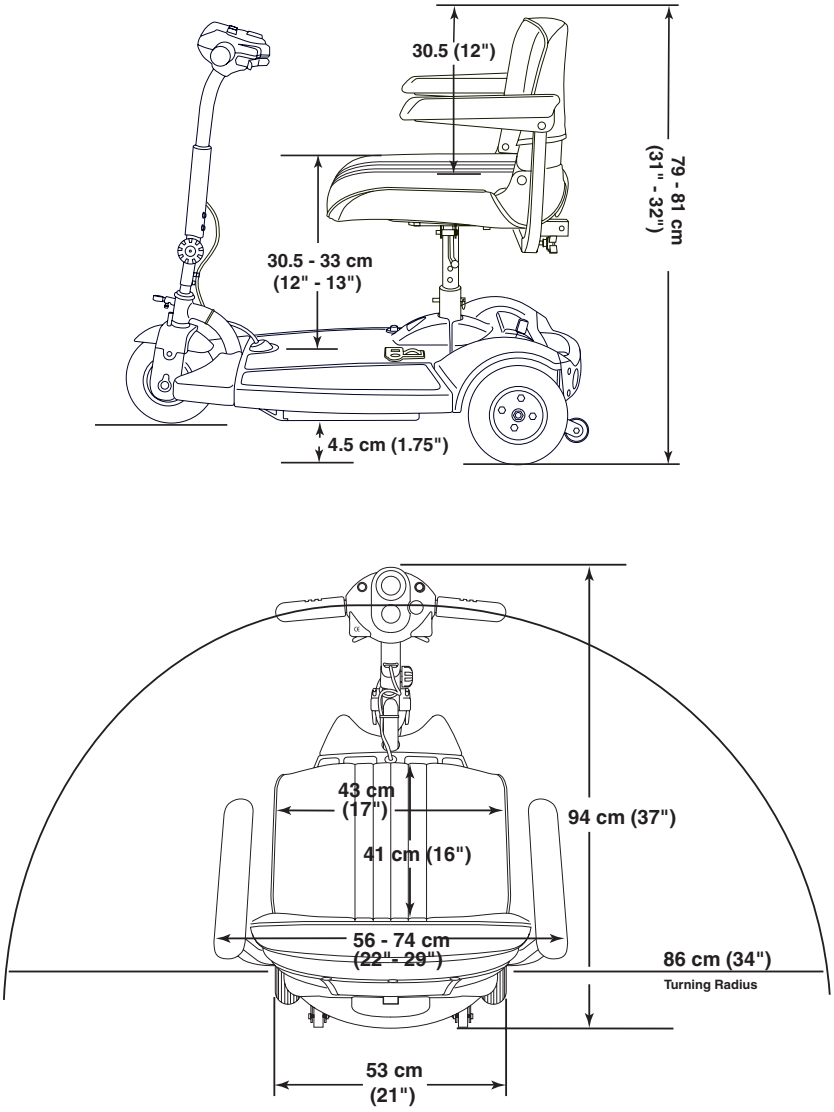


FIGURE 4. SONIC SCOOTER DIMENSIONS

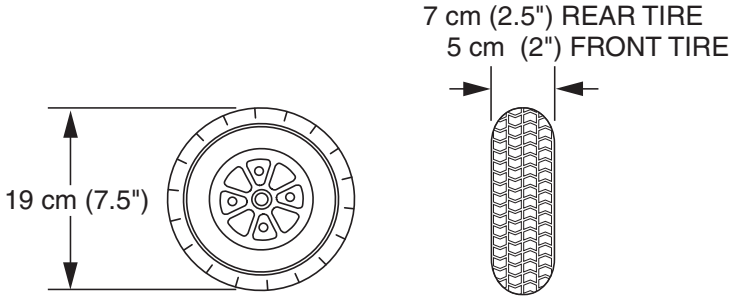


FIGURE 4A. SONIC TYRE DIMENSIONS

III . SPECIFICATIONS

Model Numbers	SCUK50
Colours	Red, Blue, Yellow
Overall Length	94 cm (37 in.)
Overall Width	53 cm (21 in.)
Total Weight Without Batteries	42 kg (93 lbs.)
Heaviest Piece When Disassembled	16 kg (35 lbs.)
Turning Radius	86 cm (34 in.)
Speed (max)	Variable up to 6.38 km/h (4.25 mph)
Range Per Charge*	(12V 12 AH batteries) Up to 16 km (10 miles)
Ground Clearance	4.5 cm (1.75 in.)
Weight Capacity	113 kg, 18 stone (250 lbs.)
Standard Seating	Type: Foldable molded plastic Dimensions: 43 cm (17 in.) width x 41 cm (16 in.) depth (usable) x 30.5 (12 in.) height (usable) Material: Charcoal fabric
Drive System	Rear-wheel drive, 24V sealed transaxle
Dual Braking System	Electronic, regenerative, and electromechanical
Tyres	Type: solid; front: 5 cm x 19 cm (2 in. x 7.5 in.), rear: 7 cm x 19 cm (2.5 in. x 7.5 in.)
Battery Requirements	Type: 12 volt Amp Hours: 12 AH, SLA (sealed lead-acid)
Battery Charger	2-amp charger
Warranty	2-year limited
Accessories	Single cane/crutch holder; double cane/crutch holder; walker holder; forearm crutch holder; oxygen tank holder; rear basket; front basket; cup holder; safety flag; dust cover; wishbone crutch holder;

* Varies with user weight, terrain type, battery charge, battery condition, and tyre condition.

IV. YOUR SONIC

TILLER CONSOLE

The tiller console houses all controls needed to drive your scooter, including the speed adjustment dial, throttle control levers, battery condition metre, status LED, and horn buttons. See figure 5.

WARNING! Do not expose the tiller console to moisture. In the event that the tiller console does become exposed to moisture, do not attempt to operate your scooter until the tiller console has dried thoroughly.

FIGURE 5. TILLER CONSOLE

Key Switch

- Fully insert the key into the key switch to power up (turn on) your scooter.
- Remove the key from the key switch to power down (turn off) your scooter.

Throttle Control Levers

These levers allow you to control the forward speed and the reverse speed of your scooter up to the maximum speed you preset with the speed adjustment dial.

- Place your right hand on the right handgrip and your left hand on the left handgrip.
- Use your right thumb to push the right side of the lever to disengage your scooter's brakes and move forward.
- Release the lever and allow your scooter to come to a complete stop before pushing the other side of the lever to move in reverse.
- When the throttle is completely released, it automatically returns to the centre "stop" position and engages your scooters's brakes.

Horn Button

The key must be fully inserted into the key switch for the horn to be operational.

- This button activates a warning horn.
- Do not hesitate to use the warning horn when doing so may prevent accident or injury.

Status LED

The status LED will alert you to electrical problems that may occur with the scooter. The LED remains constantly lit while your scooter is on. If the scooter develops an electrical problem, the status LED will flash a code. See X. "Basic Troubleshooting" for flash codes. If the status LED flashes a code other than a code listed, contact your authorised Pride provider.

Speed Adjustment Dial

This dial allows you to preselect and limit your scooter's top speed.

- The image of the tortoise represents the slowest speed setting.
- The image of the hare represents the fastest speed setting.

BATTERY CHARGING COMPARTMENT

The batteries, charger power lead receptacle, ammetre, and main circuit breaker (reset button) make up the battery charging compartment. See figure 6.

Batteries (not shown)

The batteries store the electrical energy needed to power the scooter. The scooter is equipped with an easy to remove battery pack located within the battery compartment. To view the battery pack, remove the battery compartment lid.

Charger Power Lead Receptacle

The off-board charger power lead plugs into this receptacle when charging the scooter batteries.

Ammetre

During charging, the ammetre indicates the charging rate, or how hard the charger is working to charge the scooter's batteries. See V. "Batteries and Charging."

Main Circuit Breaker

When the voltage in your scooter's batteries becomes low or your scooter is heavily strained because of excessive loads or steep inclines, the main circuit breaker may trip to protect the motor and electronics from damage.

- The main circuit breaker reset button pops out when the breaker trips.
- When the breaker trips, the entire electrical system of your scooter shuts down.
- Allow a minute or two for your scooter's electronics to "rest."
- Push in the reset button to reset the main circuit breaker.
- If the main circuit breaker trips frequently, you may need to charge your batteries more often. You may also need to have your authorised Pride provider perform a load test on your scooter's batteries.

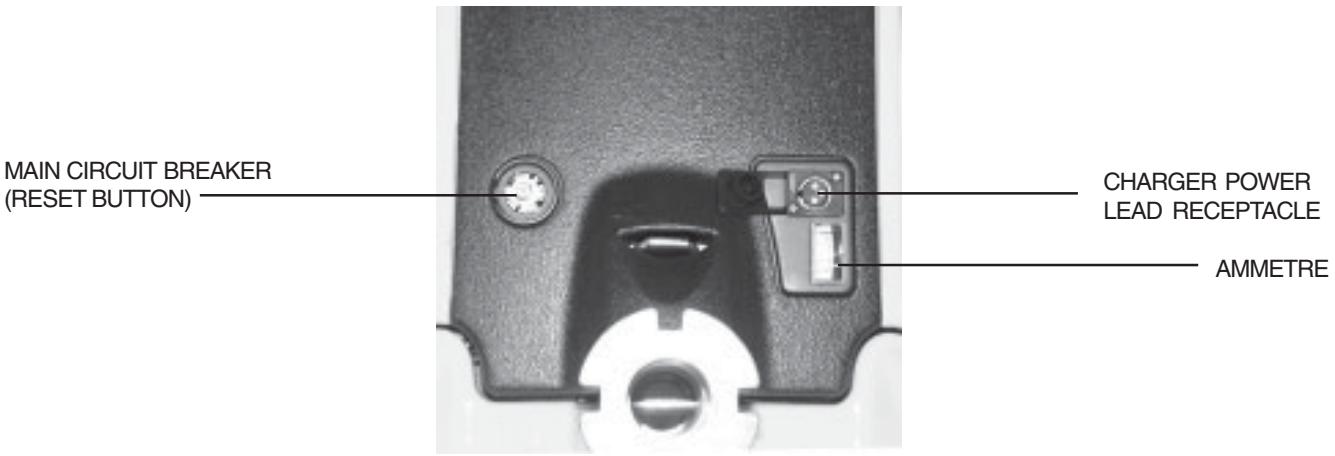


FIGURE 6. BATTERY CHARGING COMPARTMENT

IV. YOUR SONIC

REAR SECTION

The manual freewheel lever, anti-tip wheels, and the motor/transaxle assembly are located on the rear section of your scooter. See figure 7.

WARNING! Before placing your scooter into or taking it out of freewheel mode, remove the key from the key switch. Never sit on a scooter when it is in freewheel mode. Never put a scooter in freewheel mode on any incline.

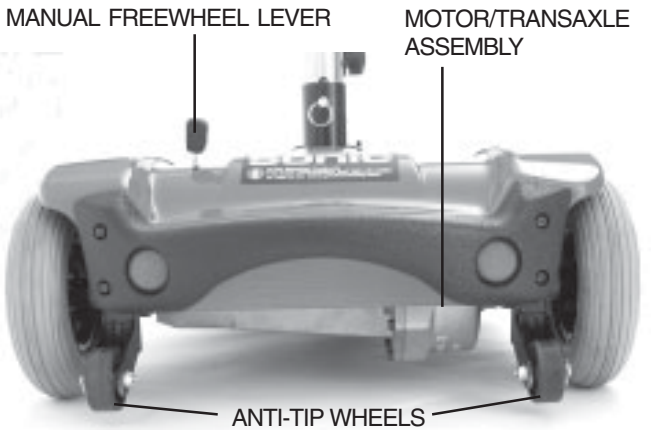


FIGURE 7. REAR SECTION

Manual Freewheel Lever

Whenever you need or want to push your scooter for short distances, you can put it in freewheel mode.

- The manual freewheel lever is located at the top left of the rear section.
- Push rearward on the manual freewheel lever to disable the drive system and the brake system.
- You may now push your scooter.
- Push the manual freewheel lever forward to reengage the drive and the brake systems; this takes your scooter out of freewheel mode.

WARNING! Never operate the manual freewheel lever while seated on the scooter or when the scooter is on an incline.

OPERATING THE MANUAL FREEWHEEL LEVER

- **Put the scooter in freewheel mode only when on a flat surface and with the key removed.**
- **Always push the manual freewheel lever rearward to put the scooter into freewheel mode.**
- **Always push the manual freewheel lever forward to engage the drive mode.**

Anti-Tip Wheels

The anti-tip wheels are an integral and important safety feature of your scooter. Do not, under any circumstances, remove the anti-tip wheels from your scooter.

Motor/Transaxle Assembly

The motor/transaxle assembly is an electromechanical unit that converts electrical energy from your Sonic's batteries into the controlled mechanical energy that drives the Sonic's wheels.

V. BATTERIES AND CHARGING

Your scooter is equipped with two sealed, maintenance free 12 AH batteries.

- Charge the batteries prior to using your scooter for the first time.
- Keeping the batteries fully charged will keep your scooter running smoothly.

READING YOUR BATTERY VOLTAGE

The battery condition metre on the tiller console uses a colour code to indicate the approximate strength of your batteries. See figure 8. Green indicates fully charged batteries, yellow a draining charge, and red indicates that an immediate recharge is necessary. To check the charge, you must first unplug the charger power lead and power up your scooter.

NOTE: To ensure the highest accuracy, the battery condition meter should be checked while operating your scooter at full speed on a level surface.

You can also check the charge using the ammetre. The off-board charger power lead must be plugged into a standard wall outlet in order to obtain a reading. When the amperage reading is at or near zero amps, the battery charging is complete. See figure 8A.

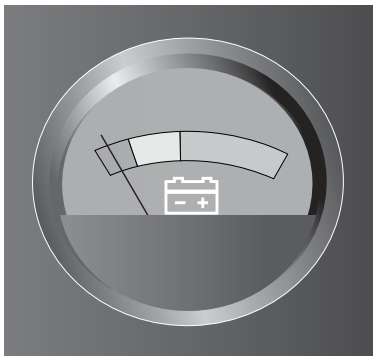


FIGURE 8. BATTERY CONDITION METRE

FIGURE 8A. AMMETRE INDICATES BATTERIES ARE FULLY CHARGED

CHARGING YOUR BATTERIES

Follow these easy steps to charge your batteries safely:

1. Position your scooter close to a standard wall outlet.
2. Remove the key from the key switch.
3. Make certain that the manual freewheel lever is in the drive (forward) position.
4. Remove the charger power lead receptacle cover from the charger power lead receptacle then plug the appropriate end of the off-board charger power lead into the receptacle.
5. Extend the charger power lead and plug it into the wall outlet. It is recommended that you charge your batteries for 8 to 14 hours.

WARNING! Never use an extension lead to plug in your battery charger. Plug the charger directly into a properly wired standard wall outlet.

6. When the batteries are fully charged, unplug the off-board charger power lead from the wall outlet and then from the charger power lead receptacle.
7. Replace the charger power lead receptacle cover.

NOTE: There is a charger inhibit function on your scooter. The scooter will not run and the battery condition metre will not operate while the batteries are charging.

V. BATTERIES AND CHARGING

REMOVING THE BATTERY PACK TO CHARGE THE BATTERIES

If you prefer to leave your scooter inside a vehicle or in a place where an electrical outlet is not available, you can remove the battery pack from the scooter and charge the batteries using the off-board charging harness.

- Remove battery pack. See VIII. "Disassembly and Assembly."
- Place the battery pack near an electrical outlet.
- Connect the off-board charging harness to the battery harnesses that extend from the battery pack. See figure 9.
- Plug the appropriate end of the charger power lead into the mating end of the off-board charging harness.
- Plug the off-board charger power lead into an electrical outlet.

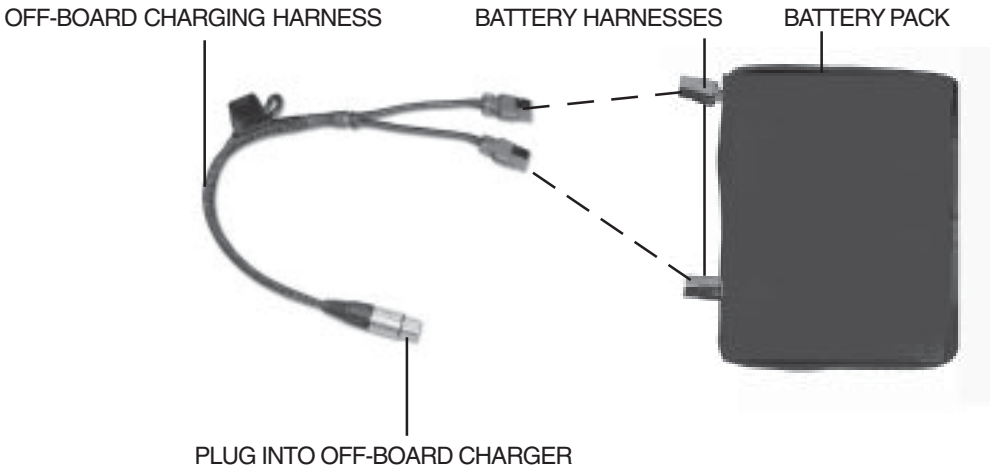


FIGURE 9. OFF-BOARD CHARGER HARNESS CONNECTIONS

BATTERIES AND CHARGING-FREQUENTLY ASKED QUESTIONS (FAQS)

How does the charger work?

When your scooter's battery voltage is low, the charger works harder, sending more electrical current to the batteries to bring up their charge. As the voltage approaches full charge, the charger sends less and less electrical current to the batteries. When the batteries are fully charged, the current sent by the charger is at nearly zero amperage. Therefore, when the charger is plugged in, it maintains the charge on your scooter's batteries, but does not overcharge them. We do not recommend that you charge your scooter's batteries for more than 24 consecutive hours.

What if my Sonic's batteries won't charge?

- Ensure that both ends of the off-board charger are inserted fully.

How often must I charge the batteries?

Two major factors must be considered when deciding how often to charge your scooter's batteries:

- All day scooter use on a daily basis.
- Infrequent or sporadic scooter use.

V. BATTERIES AND CHARGING

With these considerations in mind, you can determine how often and for how long you should charge your scooter's batteries. We designed the onboard charger so that it will not overcharge your scooter's batteries. However, you may encounter some problems if you do not charge your batteries often enough and if you do not charge them on a regular basis. Following the five guidelines below will provide safe and reliable battery operation and charging.

- If you use your scooter daily, charge its batteries as soon as you finish using it for the day. Your scooter will be ready each morning to give you a full day of service. We recommend that you charge your scooter's batteries for 8 to 14 hours after daily use.
- If you use your scooter once a week or less, charge its batteries at least once a week for 12 to 14 hours at a time.
- Keep your scooter's batteries fully charged.
- Avoid deeply discharging your scooter's batteries.
- Do not charge your scooter's batteries for more than 24 consecutive hours.

How can I get maximum range or distance per charge?

Rarely will you have ideal driving conditions—smooth, flat, hard driving surfaces with no wind or curves. Often you will face hills, pavement cracks, uneven and loosely packed surfaces, curves, and wind, all of which affect the distance or running time per battery charge. Below are a few suggestions for obtaining the maximum range per battery charge.

- Fully charge your scooter's batteries prior to use.
- Plan your route to avoid as many hills, cracked, broken, or soft surfaces as possible.
- Limit your baggage weight to essential items.
- Try to maintain an even speed while your scooter is in motion.
- Avoid stop-and-go driving.

What about public transportation?

If you intend to use public transportation with your scooter, you must contact the transportation provider in advance to determine their specific requirements.

What type and size battery should I use?

Your scooter comes equipped with two deep-cycle batteries that are sealed and maintenance free. Both sealed lead-acid and gel cell are deep-cycle batteries that are similar in performance. Do not use wet-cell batteries, which have removable caps.

Type:	Deep-cycle (sealed lead-acid or gel cell)
Voltage:	12 volts each
Size:	12 AH

Why do my new batteries seem weak?

Deep-cycle batteries employ a different chemical technology than that used in car batteries, nickel-cadmium batteries (nicads), or in other common battery types. Deep-cycle batteries are specifically designed to provide power, drain down their charge, and then accept a relatively quick recharge.

V. BATTERIES AND CHARGING

We work closely with our battery manufacturer to provide batteries that best suit your scooter's specific electrical demands. Fresh batteries arrive daily at Pride and are shipped fully charged to our customers. During shipping, the batteries may encounter temperature extremes that may influence their initial performance. Heat diminishes the charge on the battery; cold slows the available power and extends the time needed to recharge the battery.

It may take a few days for the temperature of your scooter's batteries to stabilize and adjust to their new room or ambient temperature.

WARNING! If your scooter's batteries become frozen, do not attempt to charge them. Cold or frozen batteries should be allowed to warm up for several days prior to recharging.

It takes a few charging cycles (partial drains followed by full recharging) to establish the critical chemical balance that is essential to a deep-cycle battery's peak performance and long life.

Follow these steps to properly break-in your scooter's new batteries for maximum efficiency and service life.

1. Fully recharge any new battery prior to its initial use. This charging cycle brings the battery up to about 88% of its peak performance level.
2. Operate your new scooter in familiar and safe areas. Drive slowly at first, and do not travel too far from your home or familiar surroundings until you have become accustomed to your scooter's controls.
3. Fully recharge the batteries. They should be at over 90% of their peak performance level.
4. Operate your scooter again.
5. Fully recharge the batteries again.
6. After four or five charging cycles, the batteries are able to receive a charge of 100% of their peak performance level and are able to last for an extended period of time.

How can I ensure maximum battery life?

Fully charged deep-cycle batteries provide reliable performance and extended battery life. Keep your scooter's batteries fully charged whenever possible. Batteries that are regularly and deeply discharged, infrequently charged, or stored without a full charge may be permanently damaged, causing unreliable performance and limited service life.

How should I store my Sonic and its batteries?

See XI. "Care and Maintenance."

V. BATTERIES AND CHARGING

REPLACING YOUR SONIC'S BATTERIES

WARNING! Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.

Battery Removal

1. Remove the battery compartment lid. See figure 10.
2. Disconnect the battery harnesses. See figure 11.
3. Remove the battery pack from the scooter. See figure 11A.
4. Unzip the battery pack and remove the battery or batteries.
5. Disconnect the red (+) positive and black (-) negative battery leads from the battery terminals by pulling them gently from the battery terminals. See figure 11B.

FIGURE 10. BATTERY COMPARTMENT LID

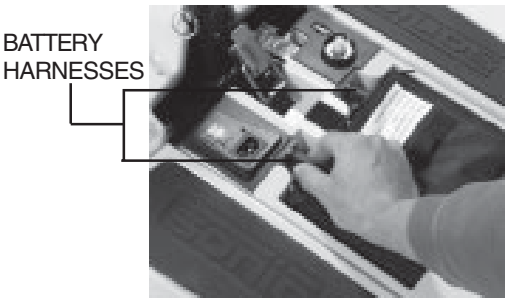


FIGURE 11. BATTERY HARNESS REMOVAL

Battery Replacement

1. Reconnect the two (2) battery leads to the battery terminals. See figure 11B.
   - Red lead to (+) positive terminal.
   - Black lead to (-) negative terminal.
2. Put the battery or batteries back into the battery pack with the battery terminals facing up.
3. Zip the battery pack and place it back into the battery compartment.
4. Reconnect the battery harnesses.
5. Replace the battery compartment lid.

FIGURE 11A. BATTERY PACK REMOVAL

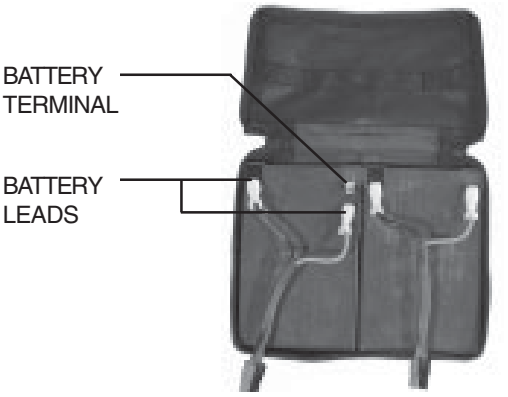


FIGURE 11B. BATTERY LEADS

VI. OPERATION

BEFORE GETTING ON YOUR SCOOTER

- Have you fully charged the batteries? See V. "Batteries and Charging."
- Is the manual freewheel lever in the drive (forward) position? Never leave the manual freewheel lever pushed rearward unless you are manually pushing your scooter.
- **Is the front tiller lock in the unlocked position?** See VIII. "Disassembly and Assembly."

GETTING ONTO YOUR SCOOTER

1. Make certain that the key is removed from the key switch.

> **WARNING! Never attempt to board or exit your scooter without first removing the key from the key switch. This will prevent the scooter from moving if accidental throttle control lever contact is made.**

2. Stand at the side of your scooter and pull up on the seat lock lever and rotate the seat until it is facing you.
3. Make certain that the seat is locked securely in position.
4. Position yourself comfortably and securely in the seat.
5. Pull up on the seat lock lever and rotate the seat until you are facing forward.
6. Make certain the seat is locked securely in position and your feet are safely on the floorboard.

PRE-RIDE ADJUSTMENTS AND CHECKS

- Are you positioned comfortably in the seat? See "Getting Onto Your Scooter," above.
- Is the seat at the proper height? See VII. " Comfort Adjustments."
- Is the seat locked securely in place? See VII. "Comfort Adjustments."
- Is the tiller at a comfortable setting and locked securely in place? See VII. "Comfort Adjustments."
- Is the key fully inserted into the key switch? See IV. "Your Sonic."
- Does the scooter's horn work properly?
- Is your proposed path clear of people, pets, and obstacles?
- Have you planned your route to avoid adverse terrain and as many inclines as possible?

OPERATING YOUR SONIC

After planning your route:

- Set the speed adjustment dial to your desired speed.
- Press your thumb against the appropriate throttle control lever.
- The scooter accelerates smoothly to the speed you preselected with the speed adjustment dial.
- Pull on the left handgrip to steer your scooter to the left.
- Pull on the right handgrip to steer your scooter to the right.
- Move the tiller to the centre position to drive straight ahead.
- Release the throttle control lever to decelerate and come to a complete stop.
- The electromechanical disc park brake automatically engages when your scooter comes to a stop.

GETTING OFF OF YOUR SONIC

1. Bring your scooter to a complete stop.
2. **Remove the key from the key switch.**
3. Pull up on the seat lock lever and rotate the seat until you are facing toward the side of your scooter.
4. Make certain that the seat is locked securely in position.
5. Carefully and safely get out of the seat and stand to the side of your scooter.
6. You can leave the seat facing to the side to facilitate boarding your scooter next time.

VII. COMFORT ADJUSTMENTS

WARNING! Remove the key from the key switch before adjusting the tiller or the seat. Never attempt to adjust the tiller or the seat while the scooter is in motion.

TILLER ANGLE ADJUSTMENT

Your scooter is equipped with an adjustable pivoting tiller.

1. Turn the tiller adjustment knob anticlockwise to loosen the tiller. See figure 12.
2. Move the tiller to a comfortable position.
3. Turn the tiller adjustment knob clockwise to secure the tiller in position.

NOTE: In order to lower the tiller to the scooter deck, you must first remove the seat. See VIII. "Disassembly and Assembly."

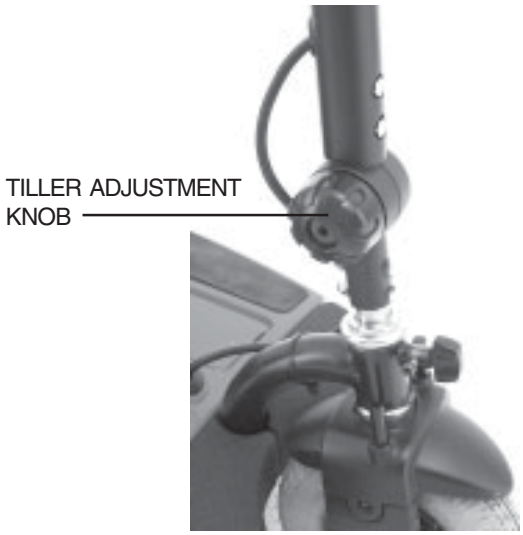


FIGURE 12. TILLER ADJUSTMENT

SEAT ROTATION

The seat lock lever locks the seat in one of four positions.

1. Pull up on the seat lock lever to unlock the seat. See figure 13.
2. Rotate the seat to the desired position.
3. Release the seat lock lever to lock the seat securely in place.

ARMREST WIDTH ADJUSTMENT

The scooter armrest width can be adjusted inward or outward. See figure 13.

1. Loosen the armrest adjustment knobs at the back of the seat frame.
2. Slide the armrests in or out to the desired width.
3. Tighten the armrest adjustment knobs as required.

The armrests can also be lifted upward to aid in mounting and dismounting your scooter.

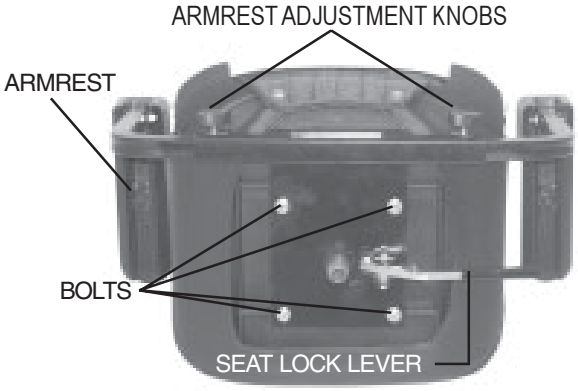


FIGURE 13. SEAT ADJUSTMENTS

FRONT-TO-BACK SEAT ADJUSTMENT

You can reposition the scooter's seat forward or rearward to one of three settings, thereby adjusting the distance between the seat and the tiller. See figure 13.

1. Remove the seat from your scooter. Refer to VIII. "Disassembly and Assembly."
2. Remove the four bolts that fasten the seat to the seat platform.
3. Align the seat platform with the desired set of holes on the seat.
4. Replace and tighten the four bolts securely.

VII. COMFORT ADJUSTMENTS

SEAT HEIGHT ADJUSTMENT

The seat can be repositioned to one of two different heights. See figure 14.

1. Remove the seat from your scooter. See VIII. "Disassembly and Assembly."
2. Use the attached ring to pull and remove the detent pin from the lower seat post.
3. Raise or lower the upper seat post to the desired seat height.
4. While holding the upper seat post at that height, match up the adjustment holes in the upper and lower seat post.
5. Fully insert the detent pin.
6. Replace the seat.

NOTE: The supplied nut, bolt, and washers can be used as an alternate to the ball detent pin for seat height adjustment and stability.

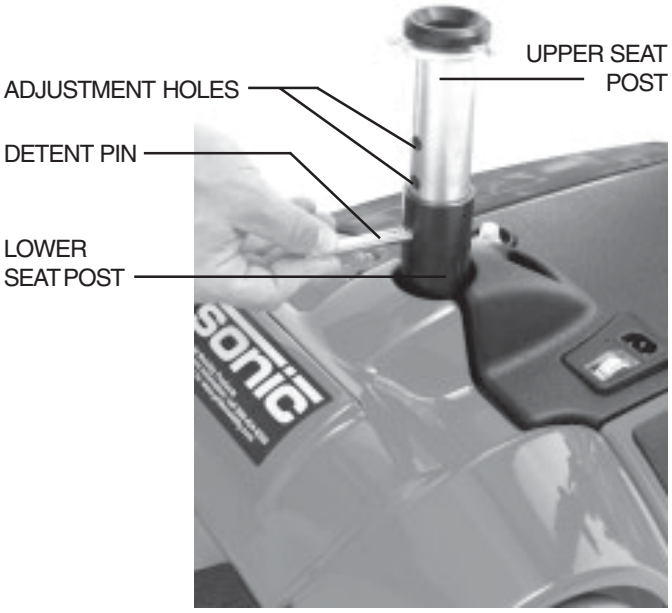


FIGURE 14. SEAT HEIGHT ADJUSTMENT

VIII. DISASSEMBLY AND ASSEMBLY

DISASSEMBLY

No tools are required to disassemble or assemble your Sonic. Always disassemble or assemble your scooter on a level, dry surface with sufficient room for you to work. Keep in mind that the disassembled sections of a Sonic take up more floor space than the assembled Sonic.

You can disassemble the Sonic into four pieces: the seat, weighing 9.5 kg (21 lbs.), the front section, weighing 16 kg (35 lbs.), the rear section weighing 16 kg (35 lbs.), and the battery pack weighing 8 kg (18 lbs.). See figure 15.

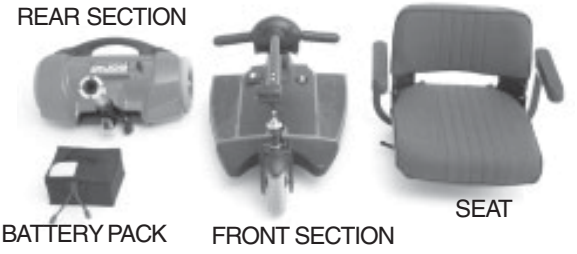


FIGURE 15. DISASSEMBLED SCOOTER

WARNING! Lifting weight beyond your physical capability may result in personal injury. Ask for assistance when necessary before disassembling your scooter.

Before disassembling the scooter, remove the key and place the manual freewheel lever in the drive (forward) position.

1. Lock the front wheel by pushing the tiller lock knob in and turning it clockwise 90 degrees. See figure 16.
2. Remove seat by pulling it straight upward.
3. Remove the battery compartment lid and place it out of the way.
4. Unplug the motor harness and both battery harnesses. See figure 17.

FIGURE 16. TILLER LOCK (LOCKED)

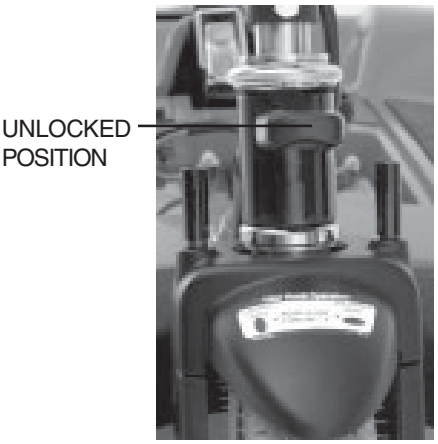


FIGURE 16A. TILLER LOCK (UNLOCKED)

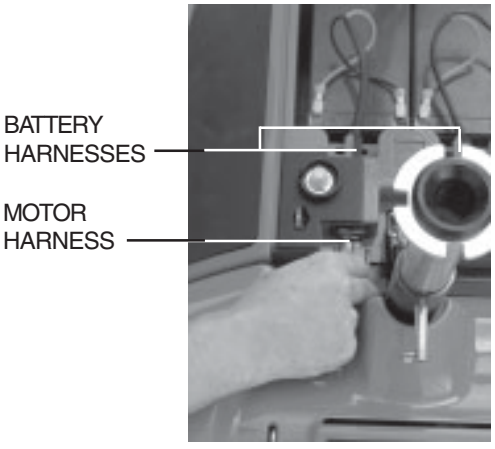


FIGURE 17. WIRING HARNESSES

WARNING! Before getting onto your scooter always check that the tiller lock is in the unlocked position. Attempting to ride your scooter with the tiller lock in the locked position can result in personal injury.

VIII. DISASSEMBLY AND ASSEMBLY

Toggle Latch Release

1. Push in the toggle latch release button while pulling back the toggle latch. See figure 18.
2. Position the toggle latch buckle over the top of the toggle latch. See figure 19.
3. Lower the tiller to the scooter floorboard and fully tighten the tiller adjustment knob.

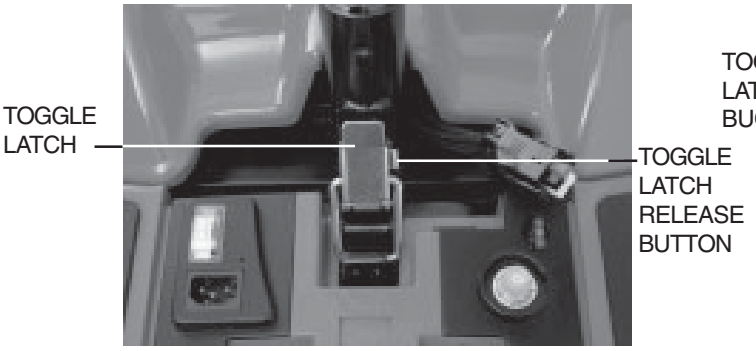


FIGURE 18. TOGGLE LATCH

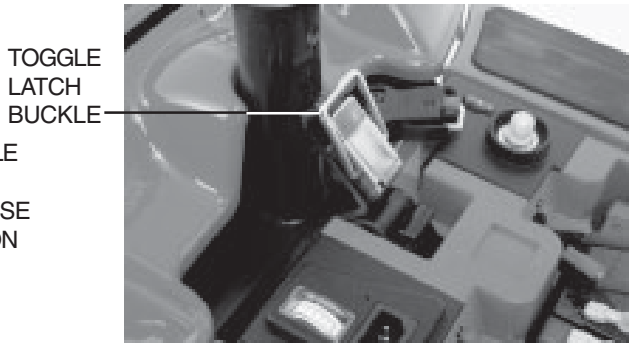


FIGURE 19. TOGGLE LATCH

Frame Separation

1. Push back on the seat post to pivot the scooter's rear section rearwards until the rear section is standing vertically on its rear bumper. See figure 20.
2. Lift the front section up until the lower pegs are no longer in the slots. See figure 21.
3. Carefully lift the front section vertically away from the rear section.

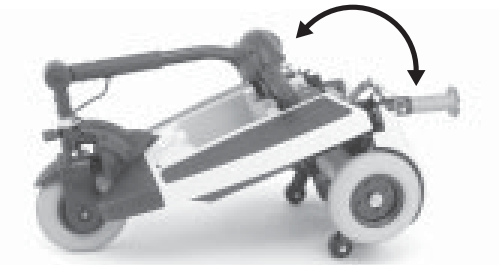


FIGURE 20. FRAME POSITIONING

ASSEMBLY

1. Position the front and rear sections of your scooter as shown in figure 22.
2. Use the tiller handle to lift the front section as you align the lower slots of the front section with the corresponding pegs on the front of the rear section. See figure 21.
3. Holding the seat post, slowly pivot the rear section forward until the curved locking brackets are fully connected onto the top rear pegs. See figure 20.
4. Raise the tiller and fully tighten the tiller adjustment knob.
5. Secure the toggle latch. See figure 18.
   - Lower the toggle latch buckle.
   - Push back on the toggle latch so it locks into place.
6. Connect the motor harness and both battery harnesses.
7. Replace the battery compartment lid.
8. Replace the seat and rotate it until it locks into place.
9. **Unlock the front wheel by turning the tiller lock knob 90 degrees anticlockwise. See figure 16A.**

WARNING! After assembling the Sonic make absolutely certain the tiller lock is in the unlocked position before attempting to ride your scooter.

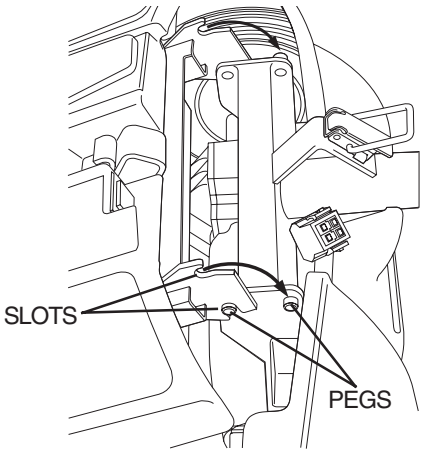


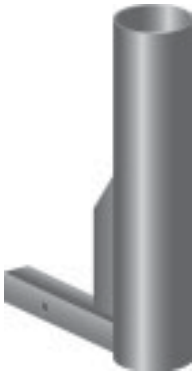
FIGURE 21. FRAME LOCKUP

FIGURE 22. FRAME HALVES

IX. OPTIONAL ACCESSORIES

OPTIONAL ACCESSORIES

For information concerning these optional accessories, contact your authorised Pride provider.



•SINGLE CANE/CRUTCH HOLDER

• DOUBLE CANE/CRUTCH HOLDER

• WALKER HOLDER

• FOREARM CRUTCH HOLDER

• OXYGEN TANK HOLDER

• REAR BASKET

• FRONT BASKET

• SAFETY FLAG

• CUP HOLDER

X. BASIC TROUBLESHOOTING

Any electromechanical device requires occasional troubleshooting. However, most problems that arise can usually be solved with a bit of thought and common sense. Many of these problems occur because the batteries are not fully charged or because the batteries are worn down and can no longer hold a charge.

DIAGNOSTIC FLASH CODES

The diagnostic flash codes for your Sonic are designed to help you perform basic troubleshooting quickly and easily. A diagnostic flash code will flash from the status LED in the event one of the conditions listed below develops.

NOTE: Your scooter will not run unless the flash code condition is resolved and the scooter has been turned off then turned back on.

FLASH CODE	CONDITION	SOLUTION
	Batteries are too low to operate the scooter or the charger is operating.	Charge batteries or unplug the off-board charger power lead from the electrical outlet.
	Controller is hot; the scooter seems to be losing power.	Shut down your scooter for a minimum of several minutes to allow the controller to cool.
	Wigwag fault; your throttle control levers are not responding.	Call your authorized Pride provider for assistance.
	The manual freewheel lever is in the (rearward) freewheel position.	Turn the key to the off position, then push the manual freewheel lever to the (forward) drive position, restart your scooter.
	Scooter is operating with the charger attached.	Unplug the off-board charger lead from the scooter's charger power lead receptacle.

What if all the systems on my Sonic seem to be "dead"?

- Make certain that the key is fully inserted into the key switch.
- Check that the batteries are fully charged. See V. "Batteries and Charging."
- Push in the main circuit breaker's reset button. See IV. "Your Sonic."
- Make certain that all wiring harnesses (battery and motor) are firmly connected.
- Be sure the auto shutoff feature hasn't been activated. See below.

AUTO SHUTOFF FEATURE

The scooter is equipped with an energy saving auto shutoff feature.

- If the scooter key switch is left in the on position and the scooter remains inactive for approximately 20 minutes, the motor controller will automatically shut down. This feature is designed to preserve battery life.

NOTE: Although the motor controller will be shut down by the auto shutoff feature, all activated lights will remain on. For maximum battery life it is recommended that you turn off your lights or turn the key to the off position.

To restore power back to the scooter:

- Remove the key from the key switch.
- Insert the key back into the key switch.

Your scooter will now resume normal operation.

X. BASIC TROUBLESHOOTING

What if the motor runs but my Sonic does not move?

- Your scooter was probably left in manual freewheel mode.
- When the manual freewheel lever is pushed rearward, the brakes are disengaged and all power to the motor/transaxle is cut.
- Push the manual freewheel lever forward to restore normal operation to your scooter.

What if the main circuit breaker trips repeatedly? See IV. "Your Sonic."

- Charge the scooter's batteries more frequently. See V. "Batteries and Charging."
- If the problem persists, have both of your scooter's batteries load tested by your authorised Pride provider.
- See V. "Batteries and Charging" or III. "Specifications" for information about your scooter's battery type.

What if the battery condition metre dips way down and the motor surges or hesitates when I press my Sonic's throttle control lever? See V. "Your Sonic."

- Fully charge your scooter's batteries. See V. "Batteries and Charging."
- Have your authorised Pride provider load test each battery.

If you experience any problems with your scooter that you are not able to solve, contact your authorised Pride provider for information, maintenance, and service.

XI. CARE AND MAINTENANCE

Your Sonic requires a minimal amount of care and maintenance. If you do not feel confident in your ability to perform the maintenance listed below, you may schedule inspection and maintenance with your authorised Pride provider. The following areas require periodic inspection and/or care and maintenance.

TYRE CONDITION AND TREAD WEAR

- Regularly inspect your scooter's tyres for signs of wear.
- Use a rubber conditioner on your scooter's tyre sidewalls to help to preserve them.

WARNING! Do not apply rubber conditioner on tyre tread; this may cause the tyres to become dangerously slippery.

EXTERIOR SURFACES

- Bumpers and trim also benefit from an occasional application of rubber or vinyl conditioner.

WARNING! Do not apply a rubber or vinyl conditioner on a scooter's vinyl seat or floorboard mats; they will become dangerously slippery.

- The Sonic shroud is made from durable ABS plastic and coated with an advanced formula urethane paint.
- A light application of car wax will help the shroud retain its high gloss.

WIRING HARNESS

- Regularly check the wiring harness insulation for wear or damage.
- Have your authorised Pride provider repair or replace any damaged connector, connection, or insulation that you find before using your scooter again.

AXLE BEARINGS AND THE MOTOR/TRANSAXLE ASSEMBLY

- These items are all prelubricated, sealed, and require no subsequent lubrication.

CONSOLE, CHARGER, AND ELECTRONICS

- Keep these areas free of moisture.
- If any of these items do become exposed to moisture, let them dry thoroughly before operating your scooter again.

STORAGE

If you plan on not using your scooter for an extended period of time, it is best to:

- Fully charge its batteries prior to storage.
- Disconnect the batteries.
- Store your scooter in a warm, dry environment.
- Avoid storing your scooter where it will be exposed to temperature extremes.

For prolonged storage, you may wish to place several boards under the frame of your scooter to raise the scooter off of the ground. This takes the weight off the tyres and reduces the possibility of flat spots developing on the areas of the tyres contacting the ground.

XII. WARRANTY

TWO-YEAR LIMITED WARRANTY

Structural frame components, including: platform, fork, seat post, and frame welds.
Drive train, including: differential, motor, and brake.

ONE-YEAR LIMITED WARRANTY

Your scooter is fully guaranteed for the period confirmed on your sales agreement from the date of delivery against faults arising due to defects in manufacture or materials. This warranty does not detract from, but is in addition to, your legal rights.

All electronic parts, including controllers and battery chargers, have a one (1) year warranty. Servicing to the controller or battery charger must be carried out by Pride. Any attempt to open or dismantle these items renders the guarantee void on that item.

NOT COVERED UNDER WARRANTY

This guarantee does not extend to those items which may need replacement due to normal wear and tear (tyres, belts, bulbs, upholstery, plastic shrouds, motor brushes, fuses, and batteries), or damage to the product caused by misuse or accident for which Pride or its agent cannot be held responsible. This warranty does not include labor or service calls.

BATTERIES

Batteries are covered by a twelve (12) month warranty from the original manufacturer.

Gradual deterioration in performance due to being left in a discharged state, left in cold conditions for long periods of time, or worn out through heavy use is not covered.

SERVICE CHECKS AND WARRANTY SERVICE

Warranty service can be arranged by Pride. Please contact Pride for information on the current cost affecting service visits.