Der Bill

Owner's Manual



≣How a Power Chair Should Fee!!™



21 Healey Road Dandenong, 3174 Victoria, Australia

ACN# 088 609 661

SAFETY GUIDELINES

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



WARNING! Failure to follow designated procedures can cause either personal injury, component damage, or malfunction (black symbol on yellow triangle with black border).



MANDATORY! These actions should be performed as specified. Failure to perform mandatory actions can cause injury to personnel and/or damage to equipment (white symbol on blue dot).



PROHIBITED! These actions should be prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause injury to personnel and/ or damage to equipment (black symbol with red circle and red slash).



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This product is manufactured by: Pride Mobility Products Corporation 182 Susquehanna Avenue Exeter, PA 18643 USA

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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.

I. INTRODUCTION

SAFETY

WELCOME to Pride Mobility Products Corporation (Pride). The power chair you have purchased combines state-of-the-art components with **safety**, comfort, and styling in mind. We are confident that these design features will provide you with the conveniences you expect during your daily activities. Once you understand how to **safely** operate and care for your power chair, it should give you years of trouble free operation and service.

Read and **follow** all instructions, warnings, and notes in this manual before attempting to operate your power chair for the first time. In addition, your **safety** depends upon you, as well as your provider, carer, or healthcare professional in using good judgement.

If there is any information in this manual which you do not understand, or if you require additional assistance for setup or operation, please contact your authorised Pride Provider. Failure to follow the instructions in this manual and those located on your power chair can lead to personal injury and/or damage to the power chair, including voiding the warranty.

PURCHASER'S AGREEMENT

By accepting delivery of this product, you promise that you will not change, alter, or modify this product or remove or render inoperable or unsafe any guards, shields, or other safety features of this product; fail, refuse, or neglect to install any retrofit kits from time to time provided by Pride to enhance or preserve the safe use of this product.

INFORMATION EXCHANGE

We want to hear your questions, comments, and suggestions about this manual. We would also like to hear about the safety and reliability of your new power chair, and about 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 about safety, new products, and new options that can increase your ability to use and enjoy your power chair. Please feel free to contact us at the address below:

Pride Mobility Products Australia Pty. Ltd. 21 Healey Road Dandenong, 3175 Victoria, Australia

My authorised Pride Provider:

Name:		
Address:	 	
Phone Number:	 	
Purchase Date:		

NOTE: If you ever lose or misplace your product registration card or your copy of this manual, contact us and we will be glad to send you a new one immediately.

PRODUCT SAFETY SYMBOLS

The symbols below are used on the power chair to identify warnings, mandatory actions, and prohibited actions. It is very important for you to read and understand them completely.



Corrosive chemicals contained in battery. Use only AGM or Gel-Cell batteries to reduce the risk of leakage or explosive conditions.



Read and follow the information in the owner's manual.



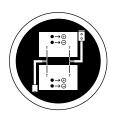
Maximum seating weight.



Locked and in drive mode.

Place unit on level ground and stand behind or to one side when changing from drive mode to freewheel mode or freewheel mode to drive mode.

Unlocked and in freewheel mode.



Battery Configuration: T = Terminal Post Connect Red wire to T with + Connect Black wire to T with -



Do not use a cell phone, walkie/talkie, laptop, or other radio transmitter while operating.



Avoid exposure to rain, snow, ice, salt, or standing water whenever possible. Maintain and store in a clean and dry condition.



Removal of grounding prong can create electrical hazard. If necessary, properly install an approved 3-pronged adapter to an electrical outlet having 2-pronged plug access. Failure to heed could result in personal injury and/or property damage.



Prevent personal injury and equipment damage. Do not connect an extension lead to the AC/DC converter or the battery charger.



EMI-RFI - This product has been tested and passed at an immunity level of 20 V/m.

SAFETY



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

Your power chair 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 power chair user. Please be aware that the final selection and purchasing decision regarding the type of power chair to be used is the responsibility of the power chair 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 power chair 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 power chair user will need to practice operating the power chair 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 power chair user in various daily living activities.

As you begin using your power chair 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 of lifts, up and down ramps, and over moderate terrain.

Below are some precautions, tips, and other safety considerations that will help the user become accustomed to operating the power chair safely.

Modifications

Pride has designed and engineered your power chair to provide maximum mobility and utility. A wide range of accessories is available from your authorised Pride Provider to further customise your power chair 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 power chair.



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

Pre-Ride Safety Check

Get to know the feel of your power chair and its capabilities. Pride recommends that you perform a safety check before each use to make sure your power chair operates smoothly and safely.

Perform the following inspections prior to using your power chair:

- Check for proper tyre inflation. Maintain but do not exceed **2.4 bar** (**35 psi**) in each tyre (if equipped with pneumatic tyres).
- Check all electrical connections. Make sure they are tight and not corroded.
- Check all controller connections to the power base. Make sure they are secured properly.
- Check the brakes. See VIII. "Care and Maintenance."
- Check battery charge. See VI. "Batteries and Charging."

NOTE: If you discover a problem, contact your authorised Pride Provider for assistance.

Weight Limitations

Your power chair is rated for a maximum weight capacity. Please refer to the specifications table for this limit.



WARNING! Exceeding the weight capacity voids your warranty and may result in personal injury and/or damage to your power chair. 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 power chair. Carrying passengers on your power chair may result in personal injury and/or property damage.

Tyre Inflation

If your power chair is equipped with pneumatic tyres, you should check or have the air pressure checked regularly. Proper inflation pressures will prolong the life of your tyres and help ensure the smooth operation of your power chair.



WARNING! It is important that 2.4 bar (35 psi) tyre pressure be maintained in pneumatic tyres at all times. Do not underinflate or overinflate your tyres. Low pressure may result in loss of control, and overinflated tyres may burst. Failure to maintain 2.4 bar (35 psi) tyre pressure in pneumatic tyres at all times may result in tyre and/or wheel failure, causing serious personal injury and/or damage to your power chair

WARNING! When changing a tyre, remove only the centre lug nut, then remove the tyre. If any further disassembly is required, deflate the tyre completely or it may explode, possibly resulting in personal injury.

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 power chair.

- Proceed with extreme caution as you approach the downgrade of a ramp or other incline.
- Take wide swings with your power chair's front wheels around any tight corners. If you do that, the power chair'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 power chair's speed adjustment set to the slowest speed setting to ensure a safely controlled descent. See VII. "Operation."
- Avoid sudden stops and starts.

When climbing an incline, try to keep your power chair moving. If you must stop, start up again slowly and then accelerate cautiously. When driving down an incline, set your power chair to the slowest setting and drive in the forward direction only. If your power chair starts to move down the incline faster than you anticipated or desired, allow it to come to a complete stop by releasing the joystick, then push the joystick 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 power chair 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 power chair in freewheel mode while seated on it or standing next to it. Doing so may result in personal injury and/or damage to your power chair.

WARNING! Never travel down an incline rearward. This may result in personal injury.



WARNING! Even though your power chair is capable of climbing slopes greater than those illustrated in figure 1, do not, under any circumstances, exceed the incline guidelines or any other specifications presented in this manual. Doing so could cause instability in your power chair, resulting in personal injury and/or damage to your power chair.

Most handicap public access ramps are required to have a maximum slope of 8.7% (5°). Therefore, Pride recommends that the maximum slope of an incline you attempt to safely ascend or descend on your power chair does not exceed 8.7% (5°). See figure 1.



WARNING! Any attempt to climb or descend a slope steeper than 8.7% (5°) may put your power chair in an unstable position and cause it to tip, resulting in personal injury.



Figure 1. Maximum Safe Slope (Ascending and Descending)

Braking Information

Your power chair is equipped with two powerful brake systems:

- 1. Regenerative uses electricity to rapidly slow the vehicle when the joystick returns to the centre/stop position.
- 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.

Cornering Information

While your power chair is equipped with four caster wheels, excessively high cornering speeds can still 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 power chair from tipping.



WARNING! When cornering sharply, reduce your speed. This greatly reduces the possibility of a tip or fall. To avoid personal injury and/or property damage, always exercise common sense when cornering.

Public Streets and Roadways



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

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 joystick contact. This will also eliminate the possibility of unintended chair movement from electromagnetic (EM) sources. Failure to do so may result in personal injury.

II. SAFET<u>Y</u>

Freewheel Mode

Your power chair is equipped with two manual freewheel levers to allow for manual maneuverability by a trained attendant. For more information about how to place your power chair into and out of freewheel mode, see III. "Your Power Chair."

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



WARNING! Do not attempt to personally place your power chair in freewheel mode while seated on it. Personal injury may result. Ask an attendant for assistance if necessary.

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

Outdoor Driving Surfaces

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

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

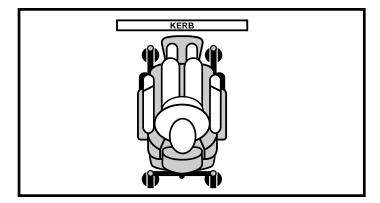
Stationary Obstacles (Steps, Kerbs, etc.)

Proceed with extreme caution when driving near raised surfaces, unprotected ledges and/or drop-offs (kerbs, porches, stairs, etc.). The correct method for approaching a kerb is illustrated in figure 2.

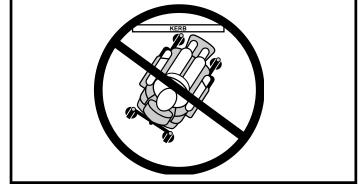


WARNING! Do not attempt to have your power chair climb or descend an obstacle that is higher than 5 cm unless you have the assistance of an attendant.

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







Jazzy 610

Figure 3. Incorrect Kerb Approach

Stairs and Escalators

Power chairs are not designed to travel up or down stairs or escalators. Always use a lift.



WARNING! Never use your power chair to negotiate steps or escalators. You may cause injury to yourself and to others and/or damage your power chair.

Transfers

Transferring onto and off of your power chair requires a good sense of balance. Always have an attendant or health-care professional present while learning to properly transfer yourself.

To eliminate the possibility of injury, Pride recommends that you or a trained attendant perform the following tasks before attempting a transfer:

- Turn off the power to the controller. See VII. "Operation."
- Ensure your power chair is not in freewheel mode. See III. "Your Power Chair."
- Turn the front caster wheels toward the transfer destination to improve power chair stability during transfer.
- Make sure both armrests are flipped up or removed from your power chair.
- Flip up the foot platform or move the leg rests aside; this will help to keep your feet from getting caught on the foot rigging during the transfer.
- Reduce the distance between your power chair and the object you are transferring onto.



Figure 4. Ideal Transfer Position

WARNING! Before transferring, position yourself as far back as possible in the power chair seat to prevent the power chair from tipping forward during transfer and causing injury.



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

WARNING! Avoid putting all of your weight on the foot riggings. Such use may cause the power chair to tip and cause personal injury.

Doors

- Determine if the door opens toward or away from you.
- Drive your power chair gently and slowly forward to push the door open. Or drive your power chair gently and slowly rearward to pull the door open.

Lifts

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

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

Lift/Elevation Products

If you will be traveling with your power chair, 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.

Inclement Weather Precautions

Exposure of your power chair to inclement weather conditions should be avoided whenever possible. If suddenly caught up in rain, snow, severe cold or heat while operating your power chair proceed to shelter at the earliest opportunity. Thoroughly dry your power chair before storing, charging, or operating your power chair.



WARNING! Rain, snow, salt, mist/spray, or icy/slippery conditions could cause serious injury and/ or damage to your power chair and the electronic system. Exposure to these weather elements should be avoided whenever possible. Use extreme care when driving at all times. Maintain and store your power chair in a dry and clean condition.

Motor Vehicle Transport

Although your power chair may be equipped with a positioning belt, this belt was not designed with the intent of providing proper restraint during motor vehicle transport. Anyone traveling in a motor vehicle should be properly secured in his/her seat with seat belts approved by the vehicle manufacturer. Make sure to secure or remove the batteries before loading your power chair into a motor vehicle for transport.



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

WARNING! Always be sure your power chair and its batteries are properly secured when it is being transported. Failure to do so may result in personal injury and/or damage to your power chair.

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 power chair safely.



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

WARNING! The positioning belt is not designed for use as a seat belt in a motor vehicle. Nor is your power chair suitable for use as a seat in any vehicle. Anyone traveling in a vehicle should be properly belted into seats approved by the vehicle manufacturer.

Reaching and Bending

Never reach, lean, or bend while driving your power chair. If it is absolutely necessary to reach, lean, or bend while seated on your power chair, it is important to maintain a stable centre of gravity and keep the power chair from tipping. Pride recommends that the power chair 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 power chair. This may cause your power chair to tip, possibly resulting in personal injury.

WARNING! Prevent personal injury! Keep your hands away from the tyres when driving. Be aware that loose fitting clothing can become caught in drive tyres.

Batteries

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

WARNING! Power chair batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help. Lifting beyond your capacity can result in personal injury.



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.

Battery Disposal and Recycling

If you encounter a damaged or cracked battery, immediately enclose it in a plastic bag and call your authorised Pride Provider for instructions on disposal. Your authorised Pride Provider will also have the necessary information on battery recycling, which is our recommended course of action.



WARNING! Battery posts, terminals, and related accessories contain lead and lead compounds. Wear goggles and gloves when handling batteries and wash hands after handling.

Removable Parts



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

Prescription Drugs/Physical Limitations

Users must exercise care and common sense when operating a power chair. 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 power chair in a safe manner.

Alcohol

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



WARNING! Do not operate your power chair while you are under the influence of alcohol, as this may impair your ability to operate your power chair in a safe manner.

Electromagnetic and Radio Frequency Interference (EMI/RFI)



WARNING! Laboratory tests have shown that electromagnetic and radio frequency waves can have an adverse affect on the performance of electrically-powered mobility vehicles.

Electromagnetic and Radio Frequency Interference can come from sources such as cellular phones, mobile two-way radios (such as walkie-talkies), radio stations, TV stations, amateur radio (HAM) transmitters, wireless computer links, microwave signals, paging transmitters, and medium-range mobile transceivers used by emergency vehicles. In some cases, these waves can cause unintended movement or damage to the control system. Every electrically-powered mobility vehicle has an immunity (or resistance) to EMI. The higher the immunity level, the greater the protection against EMI. This product has been tested and has passed at an immunity level of 20 V/m.

WARNING! Be aware that cell phones, two-way radios, laptops, and other types of radio transmitters may cause unintended movement of your electrically-powered mobility vehicle due to EMI. Exercise caution when using any of these items while operating your mobility vehicle and avoid coming into close proximity of radio and TV stations.



WARNING! The addition of accessories or components to the electrically-powered mobility vehicle can increase the susceptibility of the vehicle to EMI. Do not modify your power chair in any way not authorised by Pride.

WARNING! The electrically-powered mobility vehicle itself can disturb the performance of other electrical devices located nearby, such as alarm systems.

NOTE: For further information on EMI/RFI, go to the Resource Center on www.pridemobility.com. If unintended motion or brake release occurs, turn your power chair off as soon as it is safe to do so. Contact your authorised Pride Provider to report the incident.

THE JAZZY 610

The Jazzy 610 has two main assemblies: the seat assembly and the power base assembly. See figure 5. Typically, the seat assembly includes the armrests, seatback, and seat base. The power base assembly includes two motor/brake assemblies, two drive wheels, four caster wheels, two batteries, and wiring harnesses. See figure 5, 6, and 7.

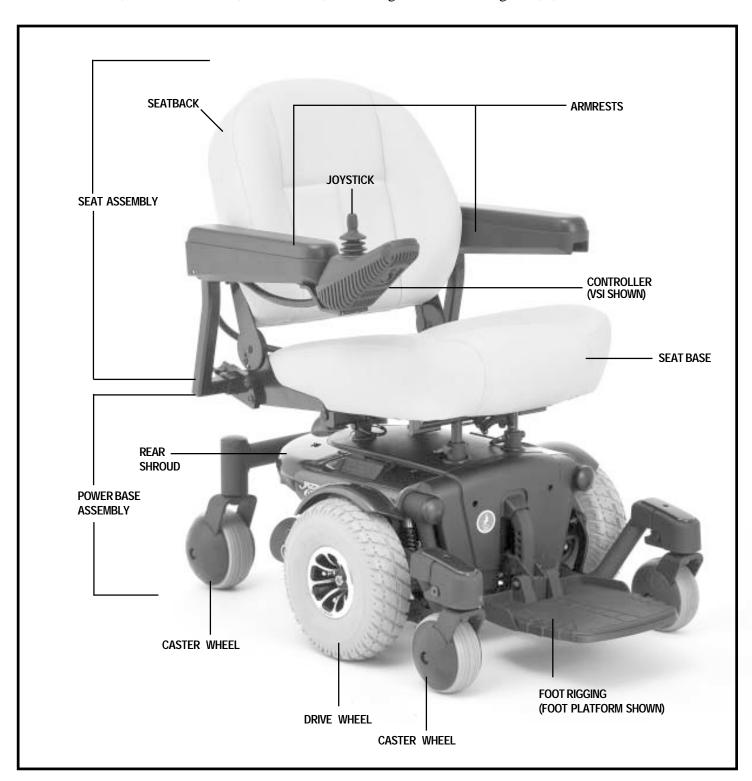


Figure 5. The Jazzy 610

JAZZY 610 SPECIFICATIONS						
Suspension:	pension: Active-Trac Extreme (ATX)					
Class of Use:	В					
Drive Wheels:	25 cm, pneumatic (25 cm solid optional)					
Front Caster Wheels:	13 cm, solid					
Rear Caster Wheels:	15 cm, solid					
Maximum Speed:	Up to 6 km/h *					
Brakes:	"Intelligent Braking" electronic regenerative, disc park brake					
Ground Clearance:	5 cm					
Maximum Safe Slope:	8.7% (5°)					
Maximum Climbing Ability:	8.7% (5°)					
Maximum Obstacle						
Climbing Ability:	8.7% (5°)					
Turning Radius:	54 cm (without foot riggings)					
Overall Size:	Length: 88 cm (without foot riggings)					
	Width: 59 cm					
Seating Options:	Medium-back Seat (standard)					
	Limited Recline High-Back Seat (optional)					
	Full Recline High-Back Seat (optional)					
	Specialty Seat (optional)					
	Power Elevating Seat (optional)					
Drivetrain:	Two motor, mid-wheel drive					
Batteries:	Two 12-volt, U-1 batteries (AGM or Gel-Cell type recommended)					
Range:	Up to 40 km *					
Battery Charger:	4-amp, onboard (standard)					
	4-amp onboard/5-amp off-board combination (optional)					
Motor Controller:	50-amp PG Drives VSI Controller (standard)					
	75-amp Dynamic FLIGHT Controller (optional)					
Weight Capacity:	136 kg					
Component Weights:	Base: 49 kg (without seat and batteries)					
	Medium-back Seat: 17 kg					
	Batteries: 12 kg each					

^{*}Depending on user weight and terrain.

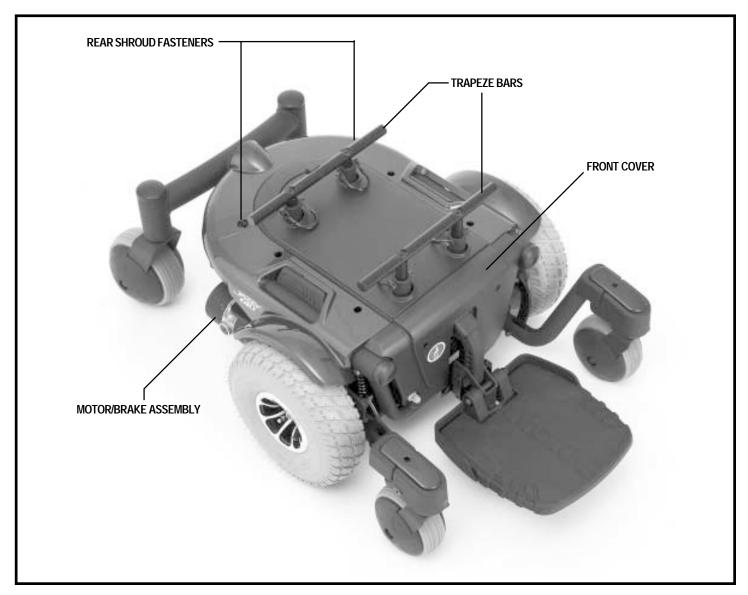


Figure 6. The Jazzy 610 Power Base

ELECTRICAL COMPONENTS

The electrical components are located inside the power base. The ammeter and the charger power lead receptacle are located on the right side of the power base. The main circuit breaker is located on the front of the battery tray. The controller connector(s) are located inside the power base. See figure 7.

Ammeter: The ammeter displays the charger's current output in amps. See VI. "Batteries and Charging."

Charger Power Lead Receptacle: This is where the charger power lead plugs into the onboard battery charger. See VI. "Batteries and Charging."

Motor Connectors: This is where the controller connects to the motors.

Battery Connector: This is where the controller connects to the batteries.

Charger Inhibit Connector: The charger inhibit enables the onboard battery charger to disable the controller during charging. See VII. "Operation."

Controller Connector: This is where the controller connects to the power base.

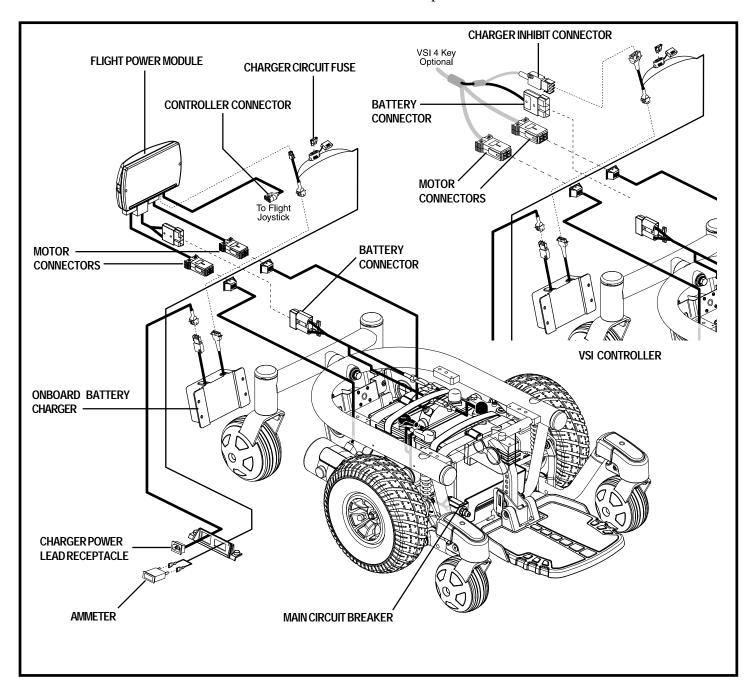


Figure 7. Jazzy 610 Electrical Components

Main Circuit Breaker: The main circuit breaker is a safety feature built into your power chair. When the batteries and the motors are heavily strained (e.g., from excessive loads), the main circuit breaker trips to prevent damage to the motors and the electronics. If the circuit trips, allow your power chair to "rest" for approximately one minute. Next, push in the circuit breaker button, turn on the controller, and continue normal operation. If the main circuit breaker continues to trip repeatedly, contact your authorised Pride Provider.

MANUAL FREEWHEEL LEVERS

The Jazzy 610 has a manual freewheel lever on each motor. Manual freewheel levers enable you to disengage the drive motors from the gearboxes and maneuver the chair manually.



WARNING! Do not use the power chair while the drive motors are disengaged! Do not disengage the drive motors when the power chair is on an incline, as the unit could roll on its own, causing injury!

To engage or disengage the drive motors:

- 1. Locate the lever on top of each motor.
- 2. Push the two levers inward to engage the drive motors. See figure 8.
- 3. Pull the two levers outward to disengage the drive motors. See figure 9.

If a lever is difficult to move in either direction, slightly rock the power chair back and forth. The lever should then move to the desired position.



WARNING! It is important to remember that when your power chair is in freewheel mode, the braking system is disengaged.

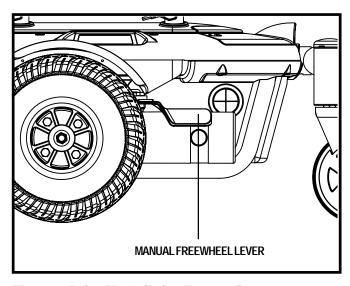


Figure 8. Drive Mode (Drive Engaged)

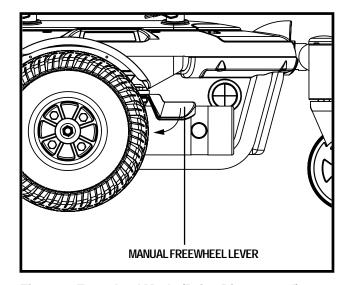


Figure 9. Freewheel Mode (Drive Disengaged)

IV. ASSEMBLY

INITIAL ASSEMBLY

Your power chair may require some assembly either before initial use or after transportation. It may also require disassembly to make some comfort adjustments. Figure 10 details those parts of the power chair that are designed to be disassembled and assembled by an end user or by a qualified carer before using the product or making comfort adjustments.

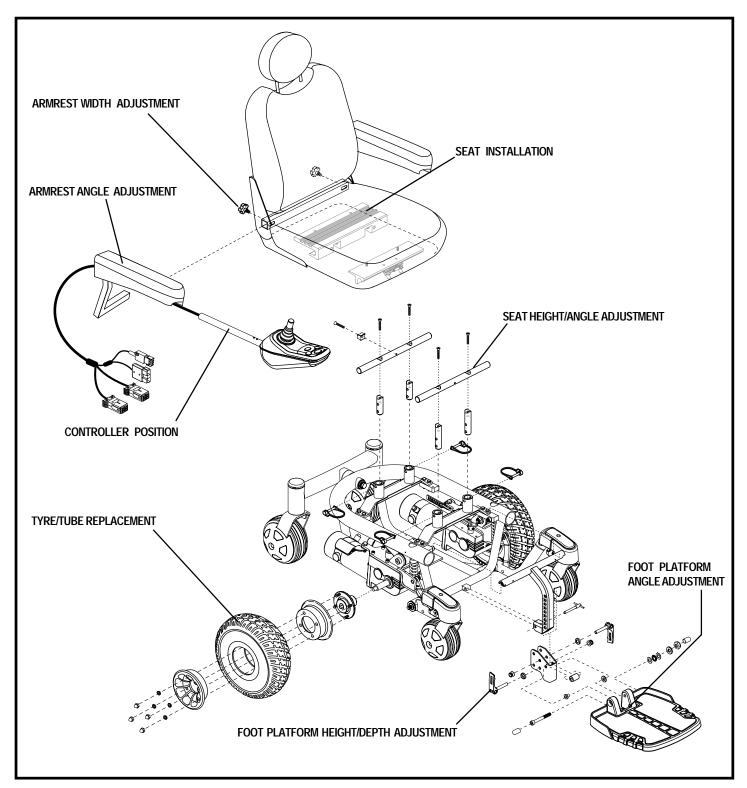


Figure 10. Jazzy 610 Assembly View (Universal Mounting System Shown)

IV. ASSEMBLY

SEAT INSTALLATION

It may be necessary to install the seat either prior to initial operation or after transporting your power chair. Most seats are attached to the power base with the Universal Mounting System (UMS). The UMS consists of universal parts that may be attached to any medium-back or high-back seat, regardless of seat width or seat depth. The two main components are aluminum extrusions mounted to the seat base. These extrusions attach to a pair of trapeze bars that are mounted to the power base. See figure 11.



WARNING! Do not pick up the seat frame by the armrests. They are free to pivot, and you may lose control of the seat if they do so, resulting in personal injury or damage to the chair.

To install the seat:

- 1. Tilt the seat back and slide the rear extrusion onto the rear trapeze bar. See figure 11.
- 2. Lower the front extrusion onto the power seat base or front trapeze bar until the seat locks into place.
- 3. Flip the seat latch safety down. See figure 11.



WARNING! Make sure the seat latch safety is flipped down before using your power chair.

- 4. Install the controller into one of the armrests. See figure 11. Tighten the setscrew.
- 5. Turn the rear shroud fasteners anticlockwise one-quarter turn to unlock. See figure 6.
- 6. Remove the rear shroud.
- 7. Plug the controller connector(s) into the power base. See figure 7.
- 8. Reinstall the rear shroud. Turn the rear shroud fasteners clockwise one-quarter turn to lock.
- 9. Route the controller cable so that it cannot be pinched in the seat hinge.
- 10. Secure the controller cable to the armrest receiver with one or more wire ties.

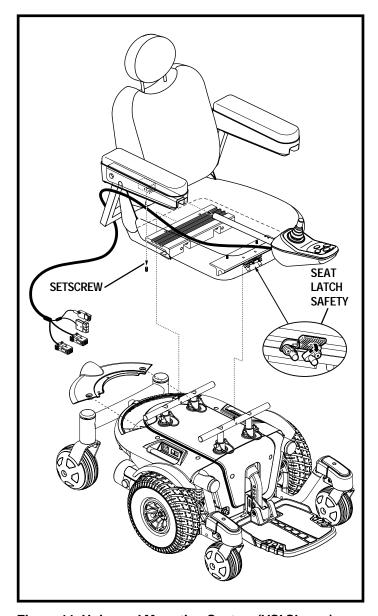


Figure 11. Universal Mounting System (VSI Shown)

IV. ASSEMBLY

Power Seat Option Installation

Your power chair may be equipped with the power seat option. While the seat itself may be any one of the styles offered for this model, the way the seat base attaches to the power base is different.

To install the power seat:

- 1. Align the seat plate interface bracket onto the actuator. See figure 12.
- 2. Insert screws into the actuator and insert and tighten the hardware.
- 3. Place seating system onto the seat plate and secure.

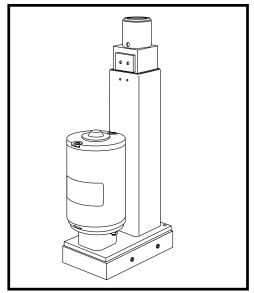


Figure 12. Power Seat Actuator

COMFORT ADJUSTMENTS

After becoming familiar with your power chair's operation, you may find the need to make some adjustments to increase your comfort, such as seat height and angle, armrest angle, foot platform height and angle, and controller position. If your power chair is equipped with a Specialty Seat, refer to the information provided in separate manuals. If your power chair is equipped with a medium-back, a high-back, or a reclining seat, refer to the following information.

WARNING! If your power chair was configured by your authorised Pride Provider, please consult your healthcare professional before changing the seat position or making any other adjustment. Some adjustments may degrade your power chair's performance and safety by changing its centre of gravity.



WARNING! Some power chair components are heavy. You may need assistance to lift or carry them. Please refer to the specifications table for specific component weights before you disassemble the power chair.

WARNING! Prevent injury. Remove the occupant from the power chair before making any adjustments.

You may need the following to make comfort adjustments:

- metric/standard socket set and ratchet
- adjustable spanner
- thread lock

Seat Height and Seat Angle Adjustment

You can change the seat height to one of four positions in 3-cm increments by raising the front and rear trapeze bars. If you raise or lower only one trapeze bar (front or rear), you can also change the seat base angle (dump).

To change the seat height:

- 1. Turn off the power to the controller.
- 2. Unlock the rear shroud fasteners and remove the rear shroud. See figure 6.
- 3. Disconnect the controller connector(s) from the power base. See figure 7.
- 4. Flip up the seat latch safety. See figure 13.
- 5. Squeeze the seat latch and release the seat from the front trapeze bar. See figure 13.
- 6. Slide the seat forward and remove it from the power base.
- 7. Loosen the screws that attach the trapeze bars to the seat posts. See figure 14.
- 8. Remove the retaining clips that secure the seat posts to the power base. See figure 14.
- 9. Move the trapeze bars up or down to the desired height.

NOTE: Change the seat dump by raising or lowering only one set of posts (front or back).

10. Reinstall the retaining clips from step 8.

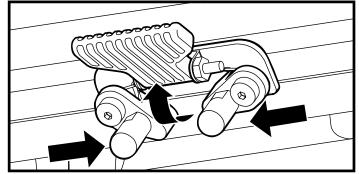


Figure 13. Seat Height Adjustment - Seat Latch Safety

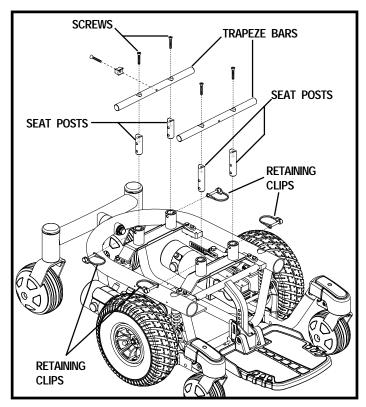


Figure 14. Seat Height Adjustment - Trapeze Bars

- 11. Remove each screw from the trapeze bars and apply thread lock.
- 12. Reinstall each screw into the trapeze bars and tighten.
- 13. Reinstall the seat and flip down the seat latch safety.
- 14. Reconnect the controller connector(s) to the power base.
- 15. Reinstall the rear shroud and tighten the fasteners.

Seat Position

You can move the seat forward or rearward by changing the extrusion mounting position.

To change the position:

- 1. Turn off power to the controller.
- 2. Unplug the controller connector(s) from the power base.
- 3. Remove the seat from the power base.
- 4. Remove both extrusions from the bottom of the seat.
- 5. Reposition the extrusions on a different set of mounting holes. You must move both extrusions the same number of holes either forward or rearward. See figure 15.
- 6. Fasten the extrusions back onto the bottom of the seat.
- 7. Reinstall the seat.
- 8. Reconnect the controller.

Seatback Angle Adjustment

If your power chair is equipped with an adjustable seatback, you can adjust it to four (4) different angles: 90°, 102°, 105°, or 107°.

To adjust the seatback angle:

- 1. Remove the adjusting screw from each seat hinge. See figure 16.
- 2. Set the seatback at the desired angle.
- 3. Reinstall the adjusting screw to each seat hinge and tighten.

Reclining Seat

If your power chair is equipped with a reclining seat, you can adjust the seatback angle with the seatback release lever. The lever is located on the right side of the seat base.

To adjust the recline angle:

- 1. Pull up on the seatback release lever.
- 2. Lean forward or rearward to the desired position.
- 3. Release the lever.

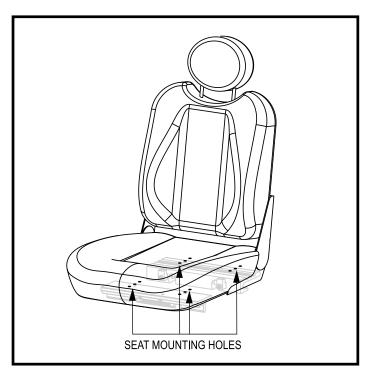


Figure 15. Seat Position Adjustment

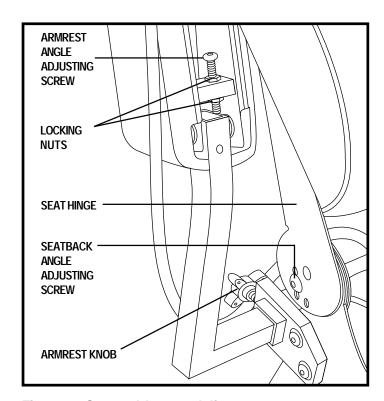


Figure 16. Seat and Armrest Adjustments

Armrest Width Adjustment

You can change each armrest's width independently of the other.

NOTE: Changing the armrest width may increase the overall width of your power chair.

To change the armrest width:

- 1. Locate the two armrest knobs on each side of the armrest receiver bracket. See figure 16.
- 2. Loosen the knobs.
- 3. Slide the armrests in or out to the desired width.
- 4. Tighten the knobs.

Armrest Angle Adjustment

To change the armrest angle:

- 1. Lift the armrest straight up so that it is perpendicular to the floor. See figure 16.
- 2. Loosen the locking nuts.
- 3. Turn the adjusting screw clockwise to lower the front of the armrest, or turn the adjusting screw anticlockwise to raise the front of the armrest.
- 4. Tighten the locking nuts to lock the adjusting screw into place.

Foot Platform Height

The foot platform height is easily adjusted to different heights in 1-cm increments.

To raise or lower the foot platform:

- 1. Remove the quick release fasteners from the foot platform bracket. See figure 17.
- 2. Raise or lower the foot platform to the desired height.
- 3. Reinstall the quick release fasteners into the foot platform bracket and tighten.

Foot Platform Depth

To adjust the foot platform depth:

- 1. Remove the quick release fasteners from the foot platform bracket. See figure 17.
- 2. Move the foot platform in or out to the desired depth.
- 3. Reinstall the quick release fasteners into the foot platform bracket and tighten.

Quick Release Fasteners: The foot platform is attached to the power base with two quick release fasteners. See figure 17. Each quick release fastener consists of a bolt, a lever, and a nut. See figure 18. The lever has a cam on the end that allows it to clamp into place. The quick release fastener has two states: clamped and unclamped. When the lever is open, the quick release fastener is unclamped. When the lever is closed, the quick release fastener is clamped.

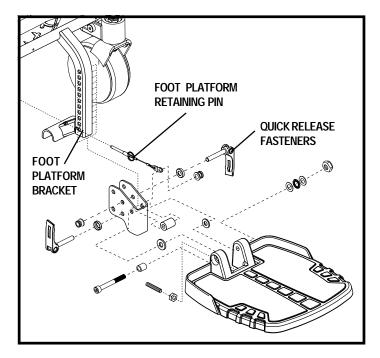


Figure 17. Foot Platform Adjustment

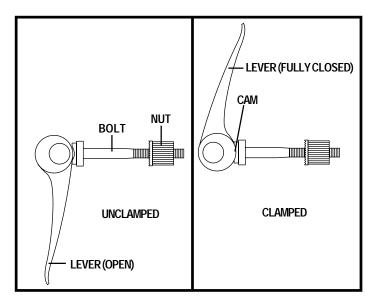


Figure 18. Quick Release Fastener Operation

To clamp the quick release fastener:

- 1. Make sure the lever is in the open position.
- 2. Turn the nut clockwise until it is snug.
- 3. Rotate the lever until it is in the fully closed position.

NOTE: If the lever will not rotate to the fully closed position, then turn the nut anticlockwise one-quarter or one-half turn.

Foot Platform Angle

You can adjust the angle of the foot platform with a hex key. See figure 19.

To adjust the foot platform angle:

- 1. Flip up the foot platform and locate the setscrew.
- 2. Turn the setscrew anticlockwise to raise the front of the foot platform.
- 3. Turn the setscrew clockwise to lower the front of the foot platform.

Controller Position

You can position the controller for either left-hand or right-hand use.



WARNING! Do not place the controller cable so that it can be pinched in the seat frame or the power base frame.

To change the controller position:

- 1. Turn off the power to the controller.
- 2. Unlock the rear shroud fasteners and remove the rear shroud.
- 3. Unplug the controller connector(s) from the power base.
- 4. Cut the wire tie(s) securing the controller cable to the armrest.
- 5. Flip up the armrest and loosen the setscrew. See figure 20.
- 6. Slide the controller out of the armrest.
- 7. Loosen the setscrew in the other armrest.
- 8. Place the controller in the other armrest.
- 9. Tighten the setscrew to secure the controller.
- 10. Route the controller cable to the rear of the power base.
- 11. Plug the controller connector(s) into the power base.
- 12. Use a wire tie to secure the controller cable to the arm-
- 13. Reinstall the rear shroud and tighten the fasteners.

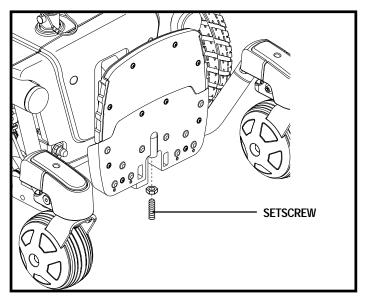


Figure 19. Underside of Foot Platform

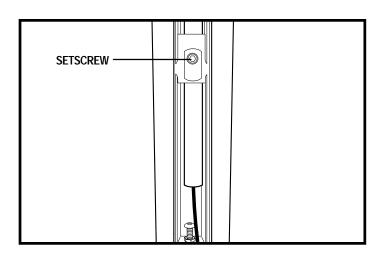


Figure 20. Underside of Armrest

Swing-away Footrests

Swing-away Footrests (SFRs) enable you to rotate the footrests to the side before you transfer onto or off or your power chair. See figure 21.

To rotate the SFRs:

- 1. Push in the release lever.
- 2. Rotate the SFRs.

To adjust the SFR length:

- 1. Remove the two adjustment screws from the side of each footrest extension.
- 2. Slide the footrest up or down to the desired length.
- 3. Reinstall the two adjustment screws.

Elevating Leg Rests

Elevating Leg Rests (ELRs) offer an infinite range of adjustment for the leg angle and a footrest adjustment range of 30-48 cm. See figure 22.

To rotate the ELRs:

- 1. Push in release lever A.
- 2. Rotate the ELRs.

To adjust the ELR angle:

- 1. Push down release lever B.
- 2. Move the leg rest to the desired angle.

To adjust the ELR length:

- 1. Remove the two adjustment screws from the side of each leg rest extension.
- 2. Slide the leg rest up or down to the desired length.
- 3. Reinstall the two adjustment screws.

Heavy Duty Drop-in Leg Rests

You can adjust the forward/back position, as well as the length of the heavy duty drop-in leg rests. See figure 23.

To adjust the forward/back position:

- 1. Remove the adjustment bolt from each side rail.
- 2. Move the leg rest hanger in or out to the desired position.
- 3. Align the adjustment holes in the leg rest hanger with those in the side rail.
- 4. Reinstall the adjustment bolts to secure the leg rest hangers.

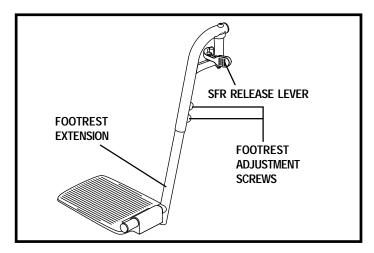


Figure 21. Swing-Away Footrests

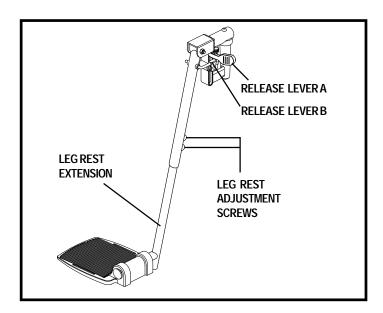


Figure 22. Elevating Leg Rests

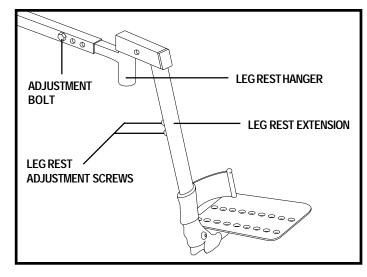


Figure 23. Heavy Duty Drop-In Leg Rests

To adjust the leg rest length:

- 1. Remove the adjustment screws from the leg rest extension.
- 2. Slide the leg rest up or down to the desired length.
- 3. Align the adjustment holes in the leg rest extension and reinstall the adjustment screws.

MULTI-AXIS FOOT PLATE

The multi-axis foot plate assembly can be installed on either a swing-away footrest or an elevating leg rest. The multi-axis foot plate has four adjustments: leg rest length (A), position (B), tilt (C), and angle (D). See figure 24.

To change leg rest length (A):

- 1. Remove the hardware.
- 2. Move the leg rest to the desired position.
- 3. Reinstall the hardware.

To change foot plate position (B):

- 1. Remove the hardware.
- 2. Move the foot plate to the desired position.
- 3. Reinstall the hardware.

To change foot plate tilt (C):

- 1. Loosen the hardware.
- 2. Tilt the foot plate to the desired position.
- 3. Tighten the hardware.

To change foot plate angle (D):

- 1. Turn the setscrew clockwise to decrease the angle.
- 2. Turn the setscrew anticlockwise to increase the angle.

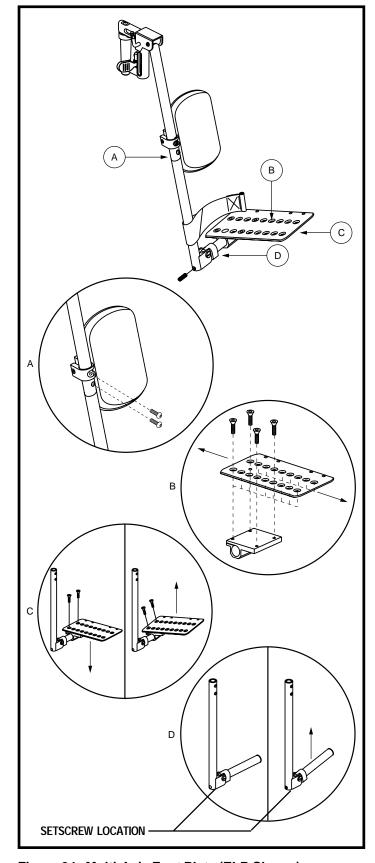


Figure 24. Multi-Axis Foot Plate (ELR Shown)

Power Elevating Seat (Optional)

If your power chair is equipped with a power elevating seat, you can change the seat height either through the controller or through a toggle switch mounted to one of the armrests.

To change the seat height through toggle switch:

- 1. Press forward on the toggle switch to raise the seat. See figure 25.
- 2. Pull back on the toggle switch to lower the seat.



WARNING! Do not allow the motor to run more than a few seconds after the mechanism reaches the top or bottom limit.

NOTE: For more information on operating the power elevating seat through the controller, contact your authorised Pride Provider.

WARNING! The power elevating seat option is intended for use on a level surface only. Never raise the seat from its lowest position on an inclined surface. Failure to heed this warning can result in the power chair tipping over and causing injury.



WARNING! Never raise the seat from its lowest position when operating your power chair on bumpy or uneven surfaces. Failure to heed this warning can result in the power chair tipping over and causing injury.

WARNING! Never raise the power elevating seat while your power chair is in the freewheel mode.

WARNING! Always fasten the positioning belt when operating the power elevating seat.

NOTE: The power elevating seat option is equipped with a system that reduces the speed of the power chair by one half when the seat is elevated more than 2.5-5 cm. Always check to be sure this system is operating properly before using your power chair.

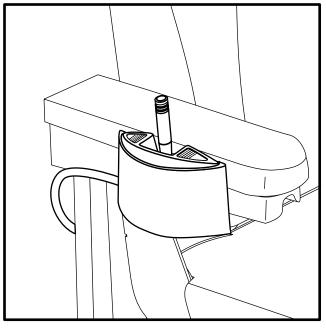


Figure 25. Power Seat Toggle Switch

BATTERIES AND CHARGING

The Jazzy 610 uses two long-lasting, 12-volt, deep-cycle batteries. These batteries are sealed and maintenance free. Since they are sealed, there is no need to check the electrolyte (fluid) level. Deep-cycle batteries are designed to handle a longer and deeper discharge. Though they are similar in appearance to automotive batteries, they are not interchangeable. Automotive batteries are not designed to handle a long, deep discharge, and also are unsafe for use in power chairs.



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

Charging the Batteries

The battery charger is essential in providing long life for your power chair batteries. It is designed to optimise your power chair's performance by charging the batteries safely, quickly, and easily. The battery charging system consists of the onboard battery charger, the charger circuit fuse, and the ammeter. The ammeter indicates the rate of charge necessary to fully recharge the batteries. It is also a good indication of whether or not the charger is working. The ammeter and the charger are only functional when the charger power lead is plugged into a wall outlet. The charger circuit has an ATO fuse that protects the ammeter. See figure 7.



WARNING! You must recharge your power chair's batteries with the supplied onboard battery charger. Do not use an automotive-type battery charger.



PROHIBITED! Removal of grounding prong can create electrical hazard. If necessary, properly install an approved 3-pronged adapter to an electrical outlet having 2-pronged plug access. Failure to heed could result in personal injury and/or property damage.



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

To charge the batteries using the onboard charger:

- 1. Position the rear of your power chair close to a standard wall outlet.
- 2. Be certain the controller power is turned off and the freewheel levers are in the drive mode position. See III. "Your Power Chair."
- 3. Plug the charger power lead into the charger power lead receptacle on the power base, then into the wall outlet.

NOTE: The power chair incorporates an inhibit function that disables the power chair when the charger is plugged into a wall outlet.

4. We recommend you charge the batteries for 8 to 14 hours. As the batteries charge, the ammeter needle slowly drops to 0.

NOTE: The ammeter indicates how much charge is needed to fully charge the batteries. Wait about a minute for the charger to warm up. The ammeter may move as high as 5.5 amps, then gradually move back down to 0 amps as the batteries charge.

5. When the batteries are fully charged, the needle vibrates on or about the 0 mark on the ammeter. Disconnect the charger power lead, wind up the lead, and store it in a safe place.

To charge the batteries using the optional off-board charger:

- 1. Position the front of your power chair next to a standard wall outlet.
- 2. Be certain the controller power is turned off.
- 3. Plug the off-board charger into the off-board charger/programming socket on the controller. See VII. "Operation."

4. Plug the off-board charger into the wall outlet.

NOTE: If it is a Pride off-board charger, then there are two lights in it. The red light indicates that power to the off-board charger is on. The green light indicates that the batteries are fully charged. If it is not a Pride off-board charger, then follow the instructions supplied by the manufacturer.

5. When the batteries are fully charged, unplug the off-board charger from the wall outlet and then from the controller.

Battery Break-in

To break in new batteries for maximum efficiency:

- 1. Fully recharge any new battery prior to its initial use. This brings the battery up to about 90% of its peak performance level.
- 2. Operate your power chair throughout the house and grounds. Move slowly at first, and do not travel too far until you become accustomed to the controls and break in the batteries.
- 3. Give the batteries another full charge of 8 to 14 hours and operate your power chair again. The batteries will now perform at over 90% of their potential.
- 4. After four or five charging cycles, the batteries will top off at 100% charge and last for an extended period.

Frequently Asked Questions (FAQs)

How does the charger work?

The battery charger takes the standard wall outlet voltage (alternating current) and converts it to 24 VDC (direct current). The power chair batteries use direct current to run your power chair. When the battery voltage is low, the charger works harder to charge the battery. This is why the ammeter initially reads 5 or more amps. As the battery voltage approaches full charge, the charger doesn't work as hard to complete the charging cycle. This explains why the ammeter drops as it approaches a full charge. When the battery is fully charged, the amperage from the charger is nearly at zero. This is how the charger maintains a charge but does not overcharge the battery.

Can I use a different battery charger?

You should use the charger supplied with the power chair. It is the safest, most efficient tool to charge the batteries. We do not recommend using other types of chargers (e.g., an automotive battery charger).

NOTE: Your power chair's charger will not operate after the batteries have been discharged to nearly zero voltage. If this happens, call your authorised Pride Provider for assistance.

How often must I charge the batteries?

Many factors come into play when deciding how often to charge the batteries. You may use your power chair all day on a daily basis or you may not use it for weeks at a time.

Daily Use

If you use your power chair on a daily basis, charge the batteries as soon as you are finished using your power chair. Your power chair will be ready each morning to give you a full day's service. It is recommended that you charge the batteries 8 to 14 hours after daily use.

■ Infrequent Use

If you use your power chair infrequently (once a week or less), you should charge the batteries at least once per week for 12 to 14 hours.

NOTE: Keep your batteries fully charged and avoid deeply discharging your batteries. Do not charge the batteries for more than 24 hours at a charging cycle.

How can I get maximum range or distance per charge?

Rarely do you have an ideal driving situation such as smooth, flat, hard terrain with no wind, hills, or curves. More often you are presented with hills, pavement cracks, uneven and loosely packed surfaces, curves, and wind. All of these factors will affect the distance or running time per battery charge. Below are a few suggestions for obtaining the maximum range per charge:

- Always charge the batteries fully prior to your trip.
- Plan your trip in advance to avoid inclines if possible.
- Limit baggage weight to essential items.
- Try to maintain an even speed and avoid stop-and-go driving.

What type of batteries should I use?

We recommend deep-cycle batteries that are sealed and maintenance free. Both AGM and Gel-Cell are deep-cycle batteries that are similar in performance. Refer to the Specifications Table for more information regarding the batteries used with your power chair.



WARNING! Corrosive chemicals contained in batteries. Use only AGM or Gel-Cell batteries to reduce the risk of leakage or explosive conditions.

Why do my new batteries seem weak?

Deep-cycle batteries employ a much different chemical technology than that used in car batteries, nickel-cadmium (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. AGM and Gel-Cell batteries should be charged as often as possible. They do not have a "memory" like nickel-cadmium batteries.

We work closely with our battery manufacturer to provide a battery that best suits your power chair's specific demands. Fresh batteries arrive regularly at Pride and are promptly shipped with a full charge. During shipping, the batteries encounter temperature extremes that may influence initial performance. Heat robs the charge from the battery, and cold slows the power available and extends the time needed to recharge the battery (just as with a car battery).

It might take a few days for the temperature of the battery to stabilise and adjust to its new ambient temperature. More importantly, it will take a few "charging cycles" (a partial drain—then a full recharge) to establish the critical chemical balance that is essential to the battery's peak performance and long life. It will be well worth it to take the time to break in your battery properly.

NOTE: The useful life of a battery is quite often a reflection of the care it receives.

How can I ensure maximum battery life?

A fully charged deep-cycle battery will provide reliable performance and extended battery life. Keep your power chair'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 power chair operation and limited battery life.

How should I store my power chair and its batteries?

If you do not use your power chair regularly, we recommend maintaining battery vitality by charging the batteries at least once per week.

If you do not plan on using your power chair for an extended period, fully charge the batteries prior to storage. Disconnect the battery harnesses and store the power chair in a warm, dry environment. Avoid temperature extremes, such as freezing and excessively hot conditions, and never attempt to charge a frozen battery. A cold or frozen battery should be warmed for several days prior to recharging.

What about public transportation?

AGM and Gel-Cell batteries are designed for application in power chairs and other mobility vehicles, allowing safe transportation on aircraft, buses, and trains, as there is no danger of spillage or leakage. We suggest you contact the carrier's ticket counter in advance to determine that carrier's specific requirements.

What about shipping?

If you wish to use a freight company to ship your power chair to your final destination, repack your power chair in the original shipping container and ship the batteries in separate boxes.

VII. OPERATION

VSI ELECTRONIC CONTROLLER

The electronic controller is what you use to operate your power chair. The electronic controller enables you to move the power chair, as well as monitor battery charge, electronic controller functions, and the condition of your electrical system. The VSI electronic controller is an integral electronic controller. All of the electronics necessary to operate the power chair are contained in one module. See figure 26. Typically, the VSI is mounted to one of the armrests and is connected to the motors, batteries, and the onboard battery charger at the power base. The VSI may be used to control some optional systems such as power elevating leg rests.

The controller supplied with your power chair has been pre-programmed to meet the your needs. The program is set using either a personal computer with software provided by the controller manufacturer or with a hand-held programmer, also provided by the controller manufacturer.



WARNING! The controller program can affect speed, acceleration, deceleration, and braking. If it is programmed incorrectly or outside of the safe limits as determined by your healthcare professional, it can create a dangerous situation. Only the power chair manufacturer, an authorised representative of the manufacturer, or a trained service technician should program the controller.

The VSI consists of:

- 1. joystick
- 2. keypad
- 3. off-board charger/programming socket
- 4. actuator connector (optional)
- 5. charger inhibit connector
- 6. battery connector
- 7. motor connector
- 8. motor connector

Joystick

The joystick controls the direction and speed of your power chair. When you move the joystick from the neutral (centre) position, the electromagnetic brakes release and allow your power chair to move. The farther you push the joystick from its neutral position, the faster your power chair moves. When you release the joystick and allow it to return to the neutral position, you engage the electromagnetic brakes. This causes your power chair to decelerate and come to a complete stop.

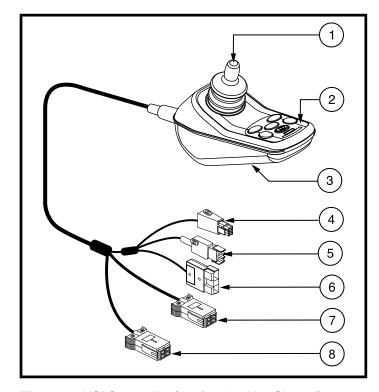


Figure 26. VSI Controller (Optional 6-Key Shown)



WARNING! If your power chair begins to move in an unexpected manner, immediately release the joystick. Unless the joystick is damaged, this action should stop your power chair.

VII. OPERATION

Keypad

The keypad is located in front of the joystick. It contains keys necessary to operate your power chair. See figure 27.

On/Off Key

The on/off key turns the VSI on and off.



WARNING! Unless faced with an emergency situation, do not use the on/off key to stop the power chair. This will cause the power chair to stop abruptly.

WARNING! Always turn the power off when you are stationary to prevent unexpected movement.

Battery Condition Meter

The battery condition meter is a 10-segment illuminated display located in front of the joystick. It consists of red, yellow, and green lights. When the lights are on, it indicates that there is power to the VSI. The lights also indicate battery status, VSI operational status, and electrical system status.

■ Red, yellow, and green lights lit: Batteries charged; VSI operational, and electrical system OK.

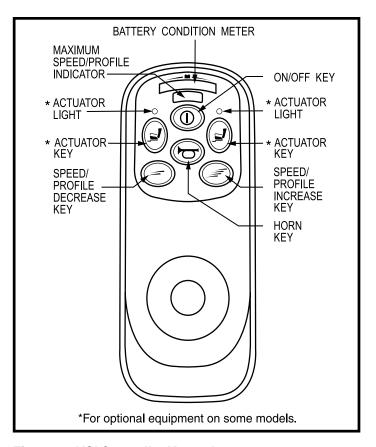


Figure 27. VSI Controller Keypad

- Red and vellow lights lit: Charge batteries if possible; VSI operational, and electrical system OK.
- **Red lights only lit or slow flash:** Charge batteries as soon as possible; VSI operational, and electrical system OK.

NOTE: When the batteries approach a discharged state, the first red light will begin to slowly flash, reminding you the batteries need to be charged immediately!

- Rapid flash of lights: Indicates a fault in the VSI or the electrical system. Refer to "VSI Error Codes."
- **Ripple side to side of lights:** The joystick was not in the neutral position when the controller was turned on. If you get "ripple side to side of lights," turn off the controller, allow the joystick to return to the neutral position, then turn on the controller.

NOTE: If you still get "ripple side to side of lights," contact your authorised Pride Provider.

Speed/Profile Keys

The speed/profile keys control either the speed setting or the drive profile. Press the speed/profile increase key to increase the speed setting or change the drive profile to a higher number. Press the speed/profile decrease key to decrease the speed setting or change the drive profile to a lower number. The speed setting or drive profile is displayed on the maximum speed/profile indicator. If your power chair was programmed with a drive profile, contact your authorised Pride Provider for more information.

NOTE: We recommend that the first few times you operate your power chair, you use the lowest speed setting until you become familiar with your new power chair.

VII. OPERATION

Actuator Keys and Actuator Lights (For Optional Equipment)

Actuator keys and actuator lights are used for optional equipment such as power elevating leg rests. For specific operation of the actuator keys and actuator lights, contact your authorised Pride Provider.

Horn Key

The horn key activates the horn.

Locking/Unlocking the VSI

The VSI has a feature that enables you to lock your power chair to prevent unauthorised use.

To lock the VSI:

- 1. With the VSI switched on, press and hold the on/off key. After 1 second, the VSI should beep.
- 2. Release the on/off key.
- 3. Push the joystick to the full forward position until the VSI beeps.
- 4. Pull the joystick to the full rearward position until the VSI beeps.
- 5. Release the joystick. There should be a long beep.
- 6. The VSI is now locked.

To unlock the VSI:

- 1. Press the on/off key and power on the VSI. The maximum speed/profile indicator should ripple up and down.
- 2. Push the joystick to the full forward position until the VSI beeps.
- 3. Pull the joystick to the full rearward position until the VSI beeps.
- 4. Release the joystick. There should be a long beep.
- 5. The VSI is now unlocked.

NOTE: If the above procedure fails to either lock or unlock the VSI, contact your authorised Pride Provider.

Off-board Charger/Programming Socket

The off-board charger/programming socket is located on the front of the VSI. If you use an off-board charger, the charger current should not exceed 8 amps. Contact your authorised Pride Provider for more information.



WARNING! Only chargers with Neutrik NC3MX plugs should be connected to the off-board charger/programming socket. See your authorised Pride Provider for more information.

NOTE: The socket may also be used for reprogramming the VSI. Contact your authorised Pride Provider for more information.

Motor Connectors

This connects the VSI to the power chair's motors and motor/brakes.

Battery Connector

This connects the VSI to the power chair's batteries.

Actuator Connector (Optional)

This connects the VSI to the power seat actuator.

Charger Inhibit Connector

The charger inhibit connector connects the VSI to the onboard battery charger. This connection provides an inhibit that disables the VSI when the battery charger is on. The charger inhibit connector is coded with coloured dots. The dots are positioned so that you align the flat side of the male connector with the flat side of the female connector before making the connection.



WARNING! Failure to properly align the connectors can result in damage to the VSI, the charger, and the connectors.

Thermal Rollback

The VSI controller is equipped with a thermal rollback circuit. This circuit monitors the temperature of the controller, which roughly translates to motor temperature. In the event that the VSI controller becomes excessively hot (above 60° C/140° F), motor current (amperage) is reduced. For every degree above 60° C/140° F, the motor current limit is reduced by .55 amps until the VSI controller reaches 70° C/158° F, at which time the current output is reduced to zero. This reduces your power chair's "power," which could also reduce your power chair's speed, and allows the electrical components and motors to cool down. When the temperature returns to a safe level, your power chair resumes its normal operation.

VSI Error Codes

The VSI controller is designed with the user's safety as the prime consideration. It incorporates many sophisticated self-test features which search for potential problems at a rate of 100 times per second. If the VSI detects a problem either in its own circuits or in the power chair's electrical system, it may decide to stop the power chair, depending on the severity of the problem. The VSI is designed to maximise the user's safety under all normal conditions. The table below identifies the individual error codes. Error codes are displayed as a rapid flashing of the battery condition meter lights. If you get one of these error codes, contact your authorised Pride Provider.

FLASHING LIGHTS	DIAGNOSIS AND SOLUTION			
1	The batteries need charging or there is a bad connection to the batteries. Check the			
	connections to the batteries. If the connections are good, try charging the batteries.			
2	The left motor has a bad connection. Check the left motor connection.			
3	The left motor has a short circuit to a battery connection. Contact your authorised Pride			
	Dealer.			
4	The right motor has a bad connection. Check the right motor connection.			
5	The right motor has a short circuit to a battery connection. Contact your authorised Prid			
	Dealer.			
6	The power chair is being inhibited by the battery charger. Unplug the battery charger.			
7	A joystick fault is indicated. Make sure that the joystick is in the neutral (centre) position			
	before turning on the controller.			
8	A controller system fault is indicated. Make sure that all connections are secure.			
9	The parking brakes have a bad connection. Check the parking brake and motor			
	connections. Make sure the controller connections are secure.			
10	An excessive voltage has been applied to the controller. This is usually caused by a poor			
	battery connection. Check the battery connections.			

FLIGHT CONTROLLER

The electronic controller is what you use to operate your power chair. It takes the battery voltage and sends it to the appropriate system. The electronic controller enables you to move the power chair, as well as monitor battery charge, electronic controller functions, and the condition of your electrical system. The FLIGHT is part of a modular electronic controller system. The system consists of more than one module. Typically, the FLIGHT is mounted to one of the armrests. See figure 28. It is connected to a power module located on the power base through the controller communications cable. The FLIGHT may be used to control some optional systems, such as lights.

The controller supplied with your power chair has been pre-programmed to meet your needs. The program is set using either a personal computer with software provided by the controller manufacturer or with a hand-held programmer, also provided by the controller manufacturer.



WARNING! The controller program can affect speed, acceleration, deceleration, and braking. If it is programmed incorrectly or outside of the safe limits as determined by your healthcare professional, it can create a dangerous situation. Only the power chair manufacturer, an authorised representative of the manufacturer, or a trained service technician should program the controller.

The FLIGHT consists of:

- 1. joystick
- 2. keypad
- 3. off-board charger/programming socket
- 4. controller connector
- 5. controller power module

Joystick

The joystick controls the direction and speed of your power chair. When you move the joystick from the neutral (centre) position, the electromagnetic brakes release and allow your power chair to move. The farther you push the joystick from its neutral position, the faster your power chair moves. When you release the joystick and allow it to return to the neutral position, you engage the electromagnetic brakes. This causes your power chair to decelerate and come to a complete stop.



WARNING! If your power chair begins to move in an unexpected manner, immediately release the joystick. Unless the joystick is damaged, this action should stop your power chair.

Keypad

The keypad is located in front of the joystick. It contains keys necessary to operate your power chair. See figure 29.

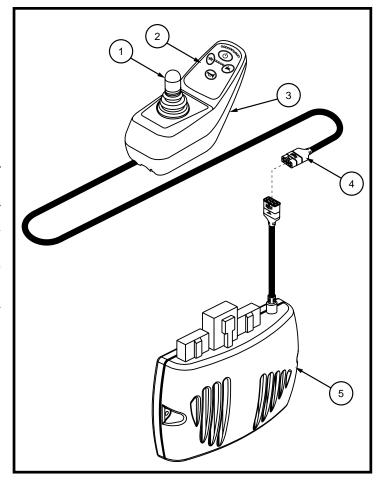


Figure 28. FLIGHT Controller

Horn Key

The horn key activates the horn.

On/Off Key

The on/off key turns the FLIGHT on and off.



WARNING! Unless faced with an emergency situation, do not use the on/off key to stop the chair. This will cause the power chair to stop abruptly.

WARNING! Always turn the power off when you are stationary to prevent unexpected movement.

Battery Condition Meter

The battery condition meter consists of ten lights arranged in an arc over the on/off key. As the battery voltage drops, the number of lights reduces from right to left. When the battery capacity drops to 10% or below, the left red LED will flash.

- **Left Red LED Flashing:** Battery charge is low; Charge the batteries as soon as possible.
- **Right-to-Left Ripple of LEDs:** FLIGHT is in lock mode: Unlock the FLIGHT.
- Left-to-Right Ripple of LEDs Alternating with Steady Display: FLIGHT is in programming, inhibit, or charging mode.
- **Right Green LED Flashing:** FLIGHT is in speed limit mode.
- All LEDs Flashing Slowly: The joystick was not in the neutral position when the controller was turned on. If you get "all LEDs flashing slowly," turn off the controller, allow the joystick to return to the neutral position, then turn on the controller.
- All LEDs Flashing Quickly: The FLIGHT has detected a fault; Refer to the Error Code table.

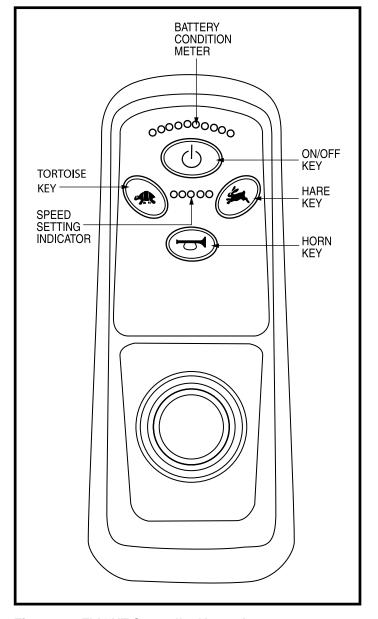


Figure 29. FLIGHT Controller Keypad

Lock Mode

The FLIGHT controller is equipped with a feature that enables you to "lockout" unauthorised users.

To lock the FLIGHT controller:

- 1. While the power is on, press and hold the on/off key for 2 seconds. The display will turn off immediately. After 2 seconds, all LEDs will flash briefly and the horn will sound a short beep.
- 2. The FLIGHT controller is now locked.

To unlock the FLIGHT controller:

- 1. While the FLIGHT is locked, press the on/off key to turn on the FLIGHT. All LEDs will flash briefly. The LEDs will then slowly ripple from right to left.
- 2. Press the horn key twice before the LED ripple has completed, approximately 10 seconds. The FLIGHT is now unlocked.

Speed Keys

There are two keys that control the speed. Press the hare key to increase the speed. Press the tortoise key to decrease the speed. The speed setting is displayed on the speed indicator. If your power chair was programmed with a drive profile, contact your authorised Pride Provider for more information.

NOTE: We recommend that the first few times you operate your power chair, you set the speed to the slowest setting until you become familiar with your new power chair.

Off-board Charger/Programming Socket

You may use an off-board charger to charge the power chair batteries through the 3-pin socket located on the front of the FLIGHT. If you use an off-board charger, the charger current should not exceed 8 amps. Contact your authorised Pride Provider for more information.



WARNING! Only chargers with Neutrik NC3MX plugs should be connected to the off-board charger/programming socket. See your authorised Pride Provider for more information.

NOTE: The socket may also be used for reprogramming the FLIGHT. Contact your authorised Pride Provider for more information.

Sleep Mode (If Enabled)

The power chair controller features a sleep mode. Sleep mode is a built-in circuit that will automatically shut off the main power if the joystick is not moved in any direction for a period of time. This time factor is programmed into the controller. To restore power and continue, push any key on the keypad.

Error Codes

The battery condition meter will flash error codes when the FLIGHT controller detects an abnormal condition in the electrical system. All of the battery condition meter LEDs will flash a number of times quickly, then pause, then flash again. The battery condition meter will continue to flash the error codes until the problem is fixed. The table below identifies the individual error codes. If any of these error codes persist, contact your authorised Pride Provider.

Error Code	Probable Cause	Possible Solution
1	Possible stall timeout or user error	Release the joystick
2	Battery Fault	Check the batteries and cables. Try to charge the
		batteries. The batteries may need to be replaced.
3	Left Motor Fault	Check the left motor, connections, and cabling.
4	Right Motor Fault	Check the right motor, connections, and cabling.
5	Left Park Brake Fault	Check the left park brake, connections, and cabling.
6	Right Park Brake Fault	Check the right park brake, connections, and cabling.
7	FLIGHT Controller Module Fault	Check the communications connections and wiring.
8	FLIGHT Power Module Fault	Check the communications connections and wiring.
9	FLIGHT Communications Fault	Check the communications connections and wiring.
10	Unknown Fault	Contact your authorised Pride Provider.
11	Incompatible Controller Fault	Contact your authorised Pride Provider.

CARE AND MAINTENANCE

Your Jazzy 610 is a sophisticated power chair. Like any motorised vehicle, it requires routine maintenance checks. You can perform some of these checks, but others require assistance from your authorised Pride Provider. Preventive maintenance is very important. If you follow the maintenance checks in this section as scheduled, you can help ensure that your power chair gives you years of trouble-free operation. If you have any doubt as to your power chair's care or operation, contact your authorised Pride Provider.



WARNING! Prevent injury. Do not service the power chair when the seat is occupied.

Your power chair, like most electrical equipment, is susceptible to damage from the elements. Avoid damp areas of any kind.



WARNING! Direct exposure to water or dampness could cause the power chair to malfunction electronically and mechanically. Water can cause electrical components to corrode and the chair's frame to rust.

Should your power chair come in contact with water:

- 1. Dry your power chair as thoroughly as possible with a towel.
- 2. Allow your power chair to sit in a warm, dry place for 12 hours to allow unseen water to evaporate.
- 3. Check the joystick operation and the brakes before using your power chair again.
- 4. If any inconsistencies are found, take your power chair to your authorised Pride Provider.

Temperature

- Some of the parts of your power chair are susceptible to extreme changes in temperature. Always keep your power chair between the temperatures of 8° C/18° F and 50° C/122° F.
- In extremely cold temperatures the batteries may freeze. The specific temperature at which they freeze depends on a number of factors, such as battery charge, usage, and composition of the batteries (e.g., AGM or Gel-Cell).
- Temperatures above 50° C/122° F may cause your power chair to operate at a reduced speed. This reduced speed is a safety feature built into the controller that helps prevent damage to the motor and other electrical components. See VII. "Operation."

General Guidelines

- Avoid knocking or bumping the controller, especially the joystick.
- Avoid prolonged exposure of your power chair to extreme conditions, such as heat, cold, or moisture.
- Keep the controller clean.
- Check all connectors to ensure that they are all tight and secured properly.
- Make sure pneumatic drive tyres are inflated to 2.4 bar (35 psi).



WARNING! Overinflating tyres can cause them to explode and can result in personal injury.

WARNING! Do not use a high pressure hose to inflate your tyres.

■ Use a rubber conditioner on the tyre sidewalls to help preserve them.



WARNING! Never use a rubber conditioner on the tread area of the tyres; doing so may make the tyres slippery and cause your power chair to skid.

- The body shroud has been sprayed with a clear sealant coating. You can apply a light coat of car wax to help it retain its high-gloss appearance.
- Check all electrical connections. Make sure they are tight and are not corroded. Batteries must sit flat within the battery tray, with the battery terminals facing inward, toward each other. Refer to the battery wiring label for the correct wiring layout.
- All wheel bearings are prelubricated and sealed. They require no subsequent lubrication.

Daily Checks

- With the controller turned off, check the joystick. Make sure it is not bent or damaged and that it returns to the neutral position when you release it. Check the rubber boot around the base of the joystick for damage. Visually inspect the boot. Do not handle or try to repair it. See your authorised Pride Provider if there is a problem.
- Visually inspect the controller cable. Make sure that it is not frayed, cut, or has any wires exposed. See your authorised Pride Provider if there is a problem.
- Check for flat spots on solid tyres. Flat spots could adversely affect stability.

Weekly Checks

- Disconnect and inspect the controller from the power base. Look for corrosion. Contact your authorised Pride Provider if necessary.
- Ensure that all parts of the controller system are securely fastened to your power chair. Do not overtighten any screws.
- Check for proper tyre inflation. There should be **2.4 bar** (**35 psi**) in each tyre. If a tyre does not hold air, see an authorised Pride Provider for replacement of the tube.
- Calibrate the joystick if a noticeable difference in performance is detected or if the joystick does not operate properly. To calibrate the joystick, power off the unit, place the joystick in the neutral position, and power the unit back on. If a problem still exists with your joystick's performance, contact your authorised Pride Provider.
- Check the brakes. This test should be carried out on a level surface with at least 1 metre of clearance around your power chair.

To check the brakes:

- 1. Turn on the controller and turn down the speed level of your power chair.
- 2. After one second, check the battery condition meter. Make sure that it remains on.
- 3. Slowly push the joystick forward until you hear the electric brakes click. Immediately release the joystick. You must be able to hear each electrical brake operating within a few seconds of joystick movement. Repeat this test three times, pushing the joystick rearward, then left, and then right.

Monthly Checks

- Check for drive tyre wear. See your authorised Pride Provider for repair.
- Check the caster wheels for wear. Replace them as necessary.
- Check the caster forks for damage or fluttering which indicates that they may need to be adjusted or have the bearings replaced. See your authorised Pride Provider for repair.
- Keep your power chair clean and free of foreign material, such as mud, dirt, hair, food, drink, etc.

Yearly Checks

Take your power chair to your authorised Pride Provider for yearly maintenance. This helps ensure that your power chair is functioning properly and helps prevent future complications.

Storage

Your power chair should be stored in a dry place, free from temperature extremes. When storing, disconnect the batteries from the power chair. See VI. "Batteries and Charging."



WARNING! If you fail to store the unit properly, the frame can rust and the electronics can be damaged.

Cleaning Instructions



WARNING! Never hose off your power chair or place it in direct contact with water. Your power chair has a painted, ABS plastic body shroud that allows it to be easily wiped clean with a damp cloth.

WARNING! Never use any chemicals to clean a vinyl seat, as they may cause the seat to become slippery or dry out and crack. Use soapy water and dry the seat thoroughly.

Tyre/Wheel Replacement

If you have pneumatic tyres and you have a flat tyre, you can replace the tube. If your chair is equipped with a solid tyre insert, then you must replace the entire wheel assembly. Replacement tyres, tubes, and wheel assemblies are readily available through your authorised Pride Provider.



WARNING! To avoid possible injury, be sure that the controller's power is turned off and the power chair is not in freewheel mode before performing this procedure.

WARNING! Completely deflate the tyre before attempting repair.

Follow these easy steps for a quick and safe repair for both pneumatic and solid tyres:

- 1. Turn off the power to the controller.
- 2. Set the power chair up on blocks.
- 3. If you are changing a pneumatic tyre, completely deflate it before removing the wheel.
- 4. Remove the drive wheel nut from the wheel hub.
- 5. Pull the wheel off the axle.
- 6. Remove the hardware that fastens the two wheel halves together. See figure 30.
- 7. Remove the old tube from the pneumatic tyre and replace it with a new tube or replace the entire assembly if it is a solid tyre.
- 8. Refasten the two wheel halves.
- 9. Slide the wheel back onto the shaft. Make sure that the key is in the axle slot.
- 10. Reinstall the drive wheel nut onto the wheel hub and tighten.
- 11. Inflate the pneumatic tyre to **2.4 bar (35 psi)**.
- 12. Remove the power chair from the blocks.

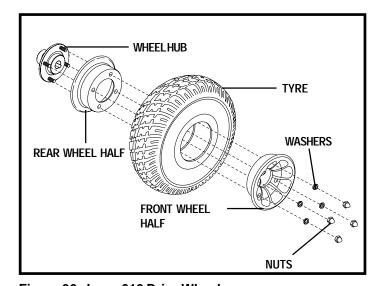


Figure 30. Jazzy 610 Drive Wheel

Battery Replacement

A battery wiring diagram is printed on a decal located on the front battery tray. See the specification table for correct battery specifications.

WARNING! Prevent injury. Do not replace battery when seat is occupied.



WARNING! Battery posts, terminals, and related accessories contain lead and lead compounds. Wear goggles and gloves when handling batteries and wash hands after handling.

WARNING! Power chair batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help. Lifting beyond your capacity can result in personal injury.

To replace the batteries:

- 1. Turn off the power to the controller.
- 2. Make sure that the power chair is in drive mode. See III. "Your Power Chair."
- 3. Unlock the rear shroud fasteners and remove the rear shroud. See figure 31.
- 4. Disconnect the battery harness from the rear battery.
- 5. Remove the retaining pin and lift off the front cover using the foot platform bracket. See figure 14.
- 6. Slide the battery tray forward.
- 7. Disconnect the battery harness from the front battery.
- 8. Unfasten the hook and loop straps from both batteries.
- 9. Remove the batteries.
- 10. Install new batteries.
- 11. Fasten the hook and loop straps around both batteries.
- 12. Connect the battery harness to the front battery according to the battery wiring diagram. See figure 31.



WARNING! Prevent injury. Make sure you tighten the fasteners so that the connections are secure.

- 13. Slide the battery tray back into the power base.
- 14. Connect the battery harness to the rear battery.
- 15. Reinstall the front cover.
- 16. Reinstall the rear shroud and tighten the fasteners.
- 17. Charge the batteries. See VI. "Batteries and Charging."

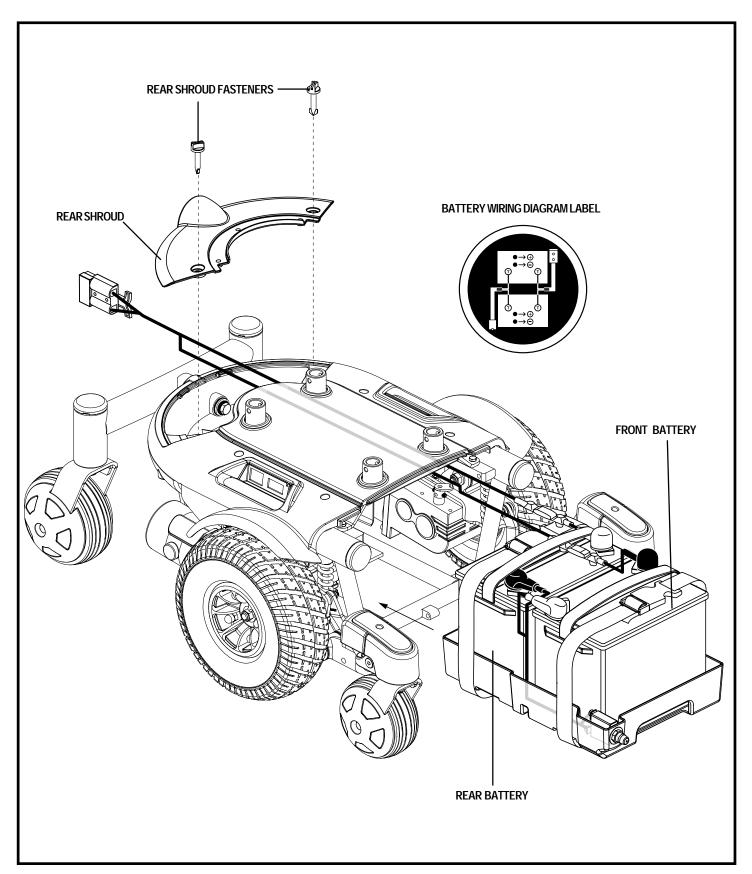


Figure 31. Battery Installation

When to See Your Authorised Pride Provider for Service

The following symptoms could indicate a serious problem with your power chair. If necessary, contact your authorised Pride Provider. When calling, have the model number, serial number, nature of the problem, and the error code if available.

- Motor noise
- Frayed harnesses
- Cracked or broken connectors
- Uneven wear on any of the tyres
- Jerky motion
- Pulling to one side
- Bent or broken wheel assemblies
- Does not power up
- Powers up, but does not move

Corrective Maintenance

If the battery condition meter does not light up when you turn on the power:

- Check the harness connections. Make sure they are tight.
- Check the circuit breaker. Reset it if necessary.
- Check the battery connections.

If the above conditions prove normal, you can load test the batteries with a battery load tester. These testers are available at automotive parts stores. Disconnect both batteries before load testing and follow the directions that come with the load tester. If either one of the batteries fails the load test, replace both of them. If your power chair still does not power up, contact your authorised Pride Provider.

IX. WARRANTY

LIFETIME LIMITED WARRANTY

Structural frame components, including: platform, fork, seat post, and frame welds.

TWO-YEAR LIMITED WARRANTY

Drivetrain, including: differential, motor, and brake.

ONE-YEAR LIMITED WARRANTY

Your Pride Power Chair is fully guaranteed for twelve (12) months from the date of purchase 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 your authorised Pride Provider. 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 labour 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 performed by your authorised Pride Provider. Please contact your authorised Pride Provider for advice on the current cost affecting the service visit.

Replacement Units

The availability of replacement units is subject to the discretion of the provider, not the manufacturer. For more information regarding replacement units, contact your authorised Pride Provider.

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Quality Control - Jazzy 610

Thank you for making the Jazzy 610 your choice in power chairs.

We have thoroughly inspected your power chair. The following checkmarks indicate that it has been test driven and inspected.

	Controller
	Joystick Serial #
	Controller Serial #
Inclusion of all Parts Performance	Fit and Finish
Pride keeps a more detailed report on file at the factory.	
Date Inspected	
Inspector	



Serial Number