

Jazzy 1170 XL

Owner's Manual

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



How a Power Chair Should Feel!™

**21 Healey Road
Dandenong, 3175
Victoria, Australia**

Pride
Mobility Products Australia Pty. Ltd.

ACN# 088 609 661

www.pridemobility.com

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).



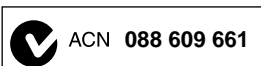
MANDATORY! These actions should be performed as specified. Failure to perform mandatory actions can cause injury to personnel and/or damage to equipment (white symbol on blue dot with white border).



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



Pride Mobility Products Australia Pty. Ltd.
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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 . I N T R O D U C T I O N

SAFETY

WELCOME to Pride Mobility Products Australia Pty. Ltd. (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

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.

I . I N T R O D U C T I O N

My authorised Pride Provider is:

Name: _____

Address: _____

Phone Number: _____

Purchase Date: _____

II. SAFETY

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 **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 electronics tray. Make sure they are secured properly.

II. SAFETY

- 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 at least once a week. 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! Inflate your power chair drive tyres from a regulated air source with an available pressure gauge. Inflating your tyres from an unregulated air source could overinflate them, resulting in a burst tyre and/or personal injury.

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.

II. SAFETY

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 rearwards. 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.

The grade of most handicap ramps is 8.7% (5°). Therefore, Pride recommends that the maximum grade 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 grade steeper than 8.7% (5°) may put your power chair in an unstable position and cause it to tip, resulting in personal injury.

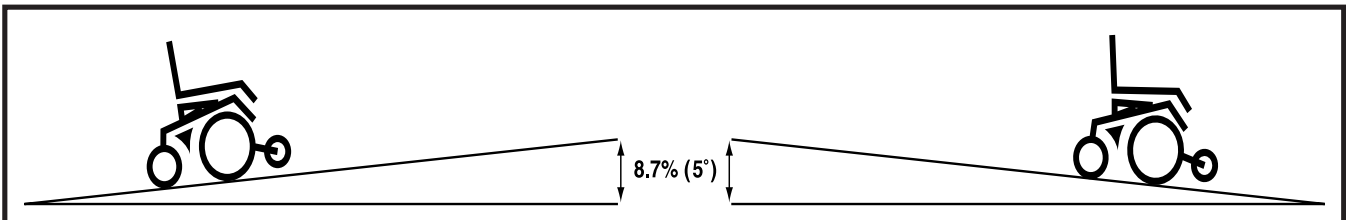


Figure 1. Maximum Safe Slope (Ascending and Descending)

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.

II. SAFETY

Cornering Information

While your power chair is equipped with caster wheels in back and anti-tip wheels in front, 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.

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 recognizes 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.

Freewheel Mode

Your power chair is equipped with a manual freewheel lever system 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.

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.

II. SAFETY

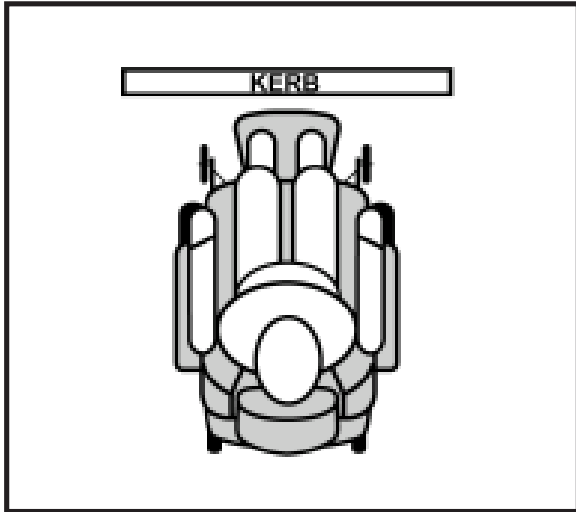


Figure 2. Correct Kerb Approach



Figure 3. Incorrect Kerb Approach

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.

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.

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.

II. SAFETY

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.

Transfers

Transferring onto and off of your power chair requires a good sense of balance. Always have an attendant or healthcare 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 both 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 the foot platform up, 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 rigging. Such use may cause the power chair to tip and cause personal injury.

II. SAFETY

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.

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 can cause serious injury and/or damage to the power chair and the electrical system. Exposure to the 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.

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.

II. SAFETY

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.

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.

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.

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.

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.

II. SAFETY

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.

III. YOUR POWER CHAIR

THE JAZZY 1170XL

Your power chair has two main assemblies: the seat and the power base. See figures 5 and 6. Typically, the seat assembly includes the armrests, seatback, and seat base. The power base assembly includes two motor/brake assemblies, two drive wheels, two anti-tip wheels, two caster wheels, two batteries, and wiring harnesses.

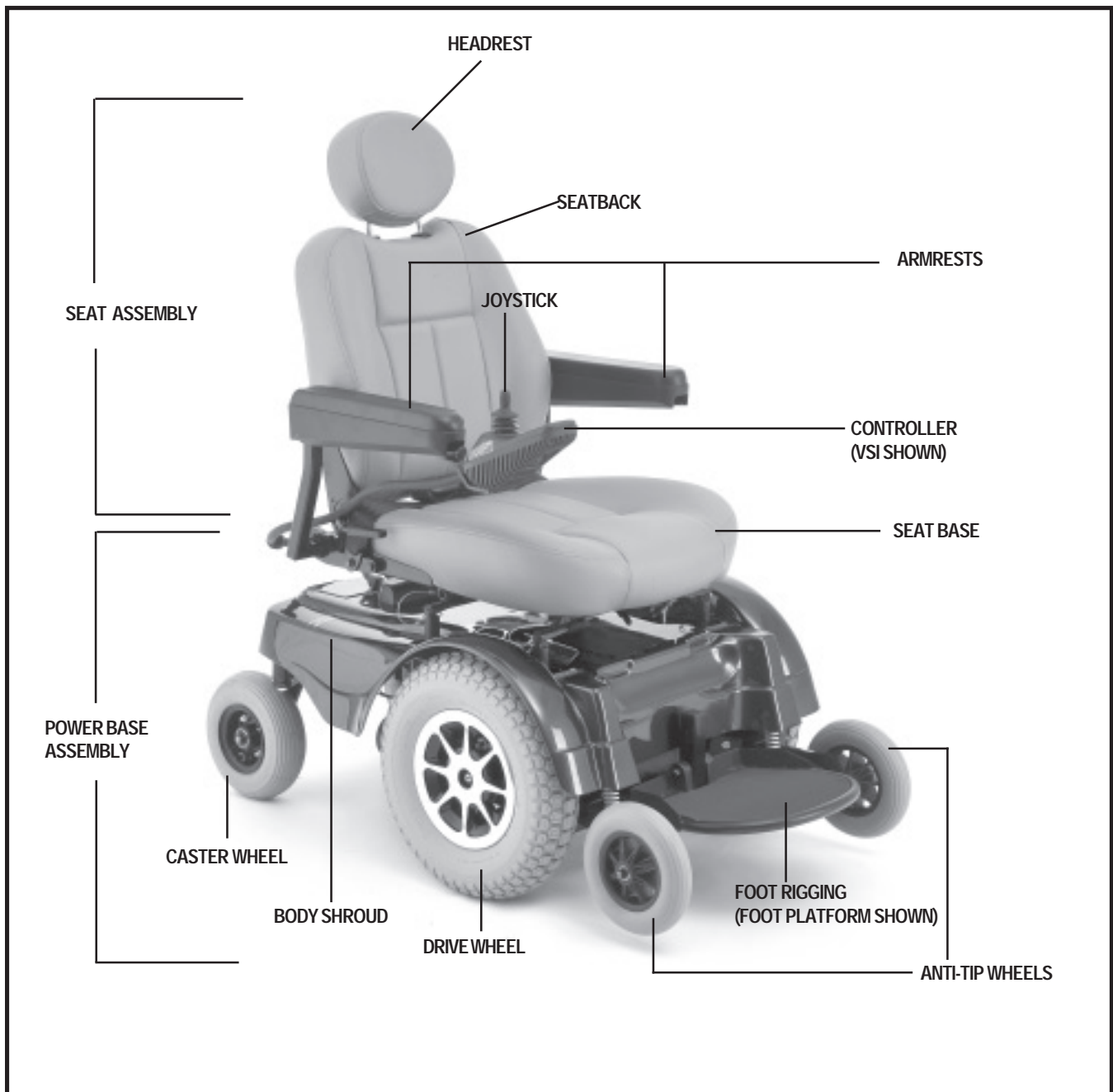


Figure 5. The Jazzy 1170 XL

III. YOUR POWER CHAIR

JAZZY 1170XL SPECIFICATIONS	
Suspension:	Active-Trac Suspension
Drive Wheels:	40.7 cm, pneumatic, centre-mounted (<i>solid tyres are optional</i>)
Caster Wheels:	23 cm, pneumatic, rear-articulating (<i>solid tyres are optional</i>)
Anti-tip Wheels:	20 cm, solid, front-mounted
Maximum Speed:	Up to 9.7 km/h
Brakes:	"Intelligent Braking" electronic regenerative, disc park brake
Ground Clearance:	10 cm
Turning Radius:	58.5 cm
Overall Size:	Length: 117 cm Width: 67.5 cm
Seating Options:	Medium-back (<i>standard</i>) Euro Seat High-back with headrest Power Elevating Seat Synergy Seating Systems TRU-Balance Power Positioning Systems
Drivetrain:	Two motor, mid wheel
Batteries:	Two 12-volt, Group 24 batteries (<i>standard</i>) Two 12-volt NF-22 batteries (<i>with power elevating seat option</i>)
Range:	Up to 40 km*
Battery Charger:	5-amp, onboard (<i>standard</i>) Offboard (<i>optional</i>)
Electronics:	70-amp PG Drives VSI Controller (<i>standard</i>) 70-amp PG Drives Remote Plus Controller 70-amp Dynamic Europa Controller 70-amp Microdrive Controller
Weight Capacity:	181.5 kg** 136 kg with Synergy Manual Recline 72.5 kg with Synergy Manual Tilt
Component Weights:	Base: 60 kg Seat: 15 kg Batteries: 24.25 kg each (Group 24); 17.25 each (NF-22)

*Based on user weight, battery amp hour rating (AH), and terrain.

**This power chair has been successfully tested to a maximum user weight of 100 kg in order to comply with Australian testing standards. Additionally, the power chair manufacturer has successfully tested to a maximum user weight capacity of 181.5 kg. Further information regarding the performance attributes and testing results of the power chair may be obtained by submitting a written request to Pride Mobility Products Australia Pty. Ltd., Attn.: Technical Services.

III. YOUR POWER CHAIR

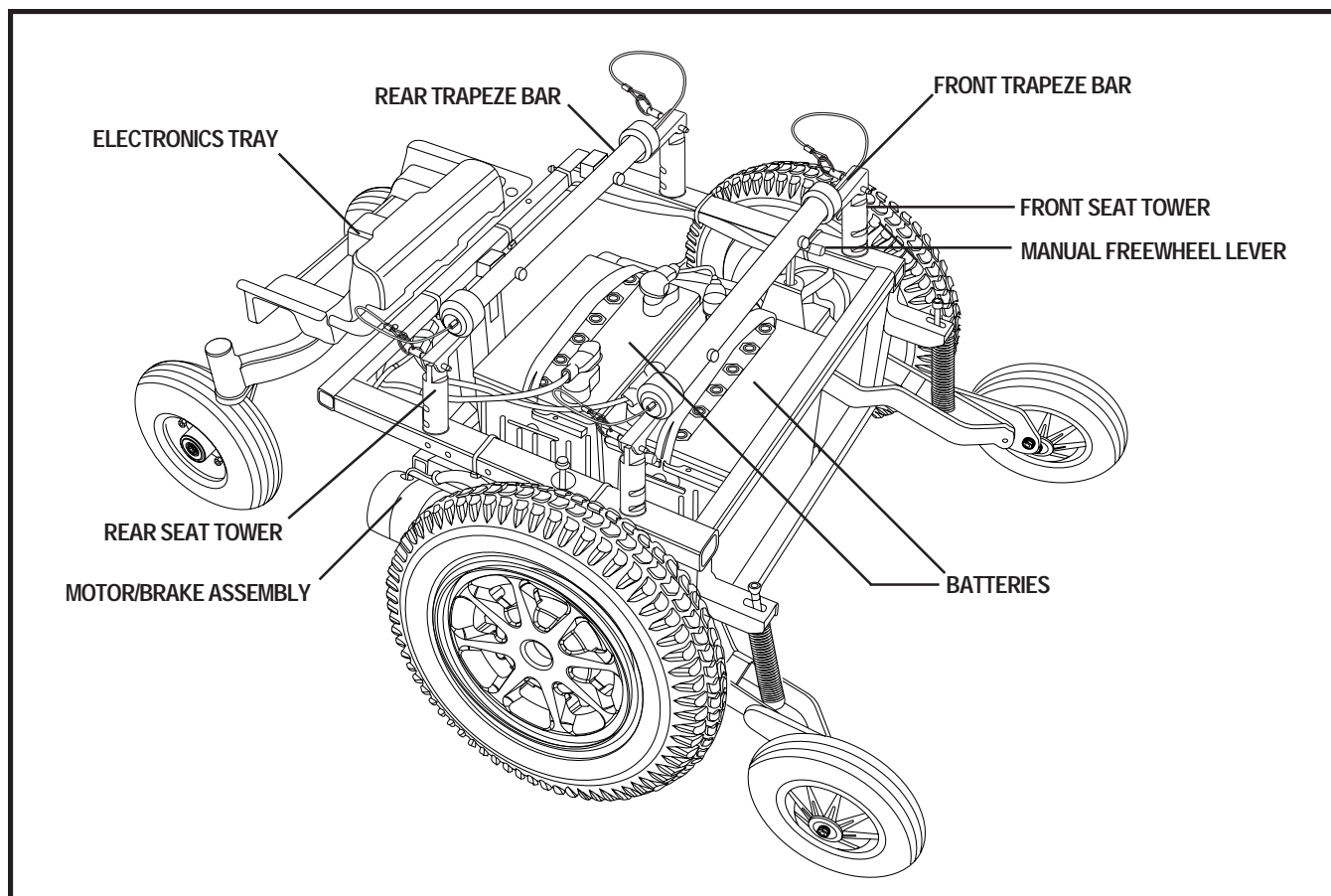


Figure 6. Jazzy 1170XL Power Base (Shroud Removed)

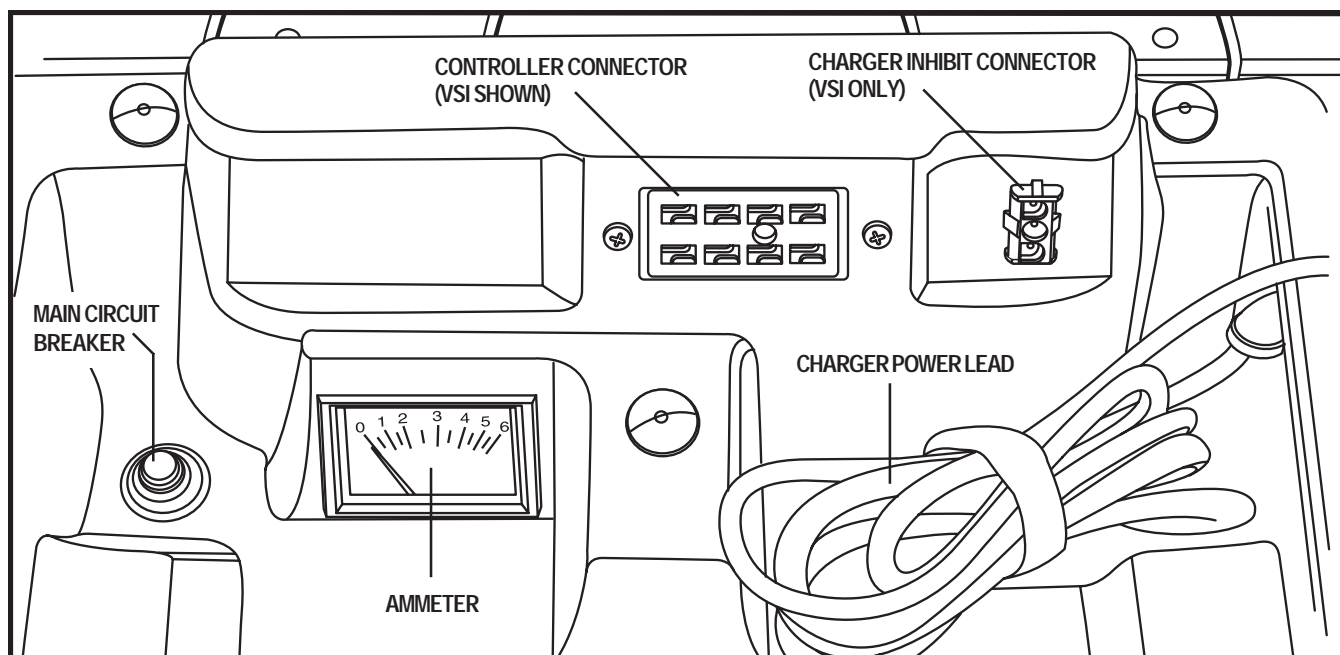


Figure 7. Jazzy 1170XL Electronics Tray

III. YOUR POWER CHAIR

Electronics Tray

The electronics tray is located on the back of the power base. See figures 6 and 7. The ammeter, the charger power lead, the main circuit breaker, the controller connector, and the charger inhibit connector are all located on the electronics tray.

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

Charger Power Lead: The charger power lead plugs into a standard electrical outlet to supply power to the onboard battery charger during battery charging.

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.

Controller Connector: This is where the controller connects to the power base. The VSI controller uses a large 9-pin connector. The Remote Plus and the Europa use smaller, multi-pin communications cable connectors (not shown).

Charger Inhibit Connector: The VSI controller is equipped with a charger inhibit connector. The charger inhibit enables the onboard battery charger to disable the controller during charging. The charger inhibit connector is coded with coloured dots. The dots are positioned so that you can 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 controller, the charger power cord, and the connectors.

Lighting System Connector (Not Shown): This is where the lighting system connects to the power base. Standard lighting systems have a single pin connector. Full lighting systems use a 3-pin connector.

Active-Trac System

Your power chair is equipped with an Active-Trac System (ATS). ATS is a suspension system designed to make your power chair traverse different types of terrain and obstacles while maintaining smooth operation. With ATS, the front anti-tip wheels work in conjunction with the motor suspension to help you maneuver over obstacles in excess of 7.6 cm in height.

As the front anti-tip wheels come in contact with an obstacle, the front anti-tip wheel assembly is drawn upward. At the same time, the motors are forced downward. This allows the motors to push your power chair over an obstacle without the possibility of becoming "hung up."

ATS also helps in day-to-day operating conditions. For instance, when you release the joystick, your power chair begins to slow down. As the chair slows down, the front anti-tip wheels will automatically drop toward the ground. This will reduce the forward tip that is typically encountered with centre-wheel drive chairs.

III. YOUR POWER CHAIR

Manual Freewheel Lever(s)

For your convenience, your power chair is equipped with a manual freewheel lever system, which allows you to disengage the drive motors and maneuver the chair manually.



WARNING! Do not use your power chair while the drive motors are disengaged unless you are in the presence of an attendant! Do not disengage the drive motors when your power chair is on an incline. The chair could roll down on its own, causing injury!

To engage or disengage the dual freewheel feature:

1. Turn the manual freewheel levers outward to disengage the drive motors. See figure 8.
2. Turn the manual freewheel levers inward to engage the drive motors. See figure 9.

To engage or disengage the single freewheel feature:

1. Flip up the safety latch and pull the manual freewheel lever up to disengage the drive motors. See figure 10.
2. Push the manual freewheel lever down to engage the drive motors. See figure 11.



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

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

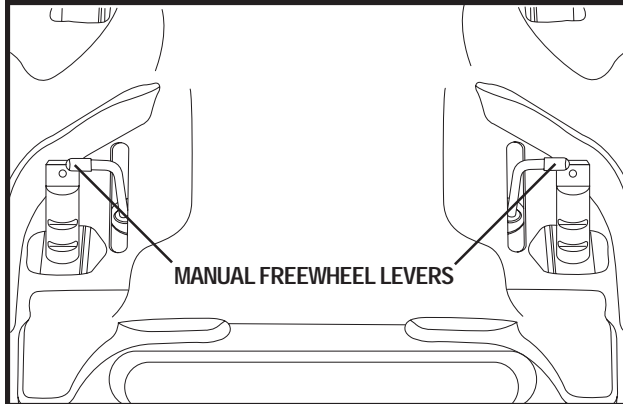


Figure 8. Drive Disengaged (Dual Levers)

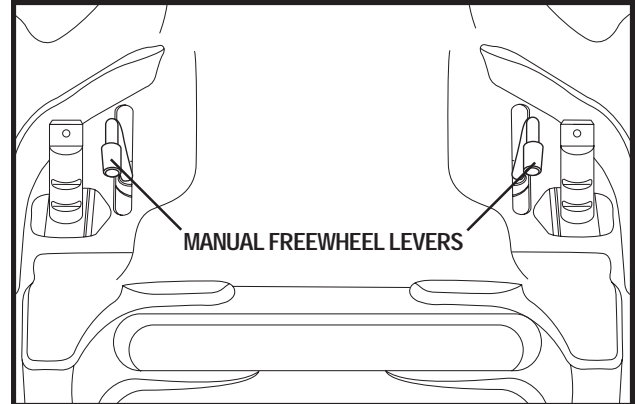


Figure 9. Drive Engaged (Dual Levers)

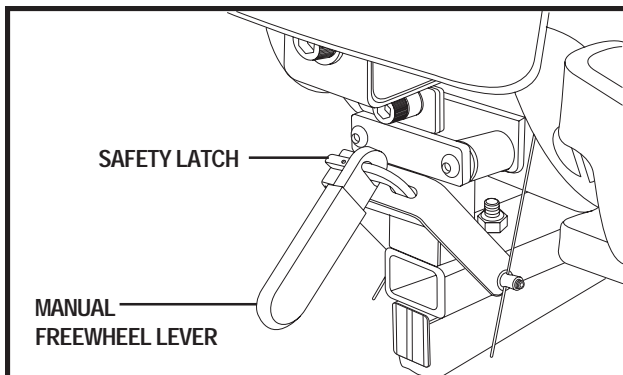


Figure 10. Drive Disengaged (Single Lever)

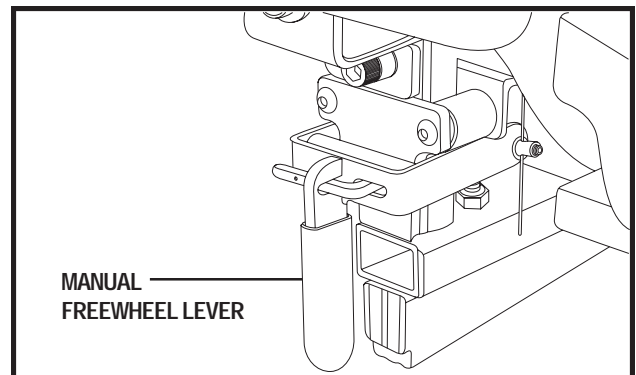


Figure 11. Drive Engaged (Single Lever)

III. YOUR POWER CHAIR

MANUAL PARK BRAKES

Your power chair may be equipped with a manual park brake mounted on each drive wheel. The manual park brakes work in conjunction with the electromagnetic brakes to help prevent your power chair's wheels from moving when your power chair is parked. After you release the joystick and your wheels are completely stopped, push the manual park brake lever down to engage it. See figure 12. To disengage the manual park brake, pull the manual park brake lever up. See figure 13.



WARNING! Do not attempt to use either manual park brake lever to stop your power chair. Serious injury may result.

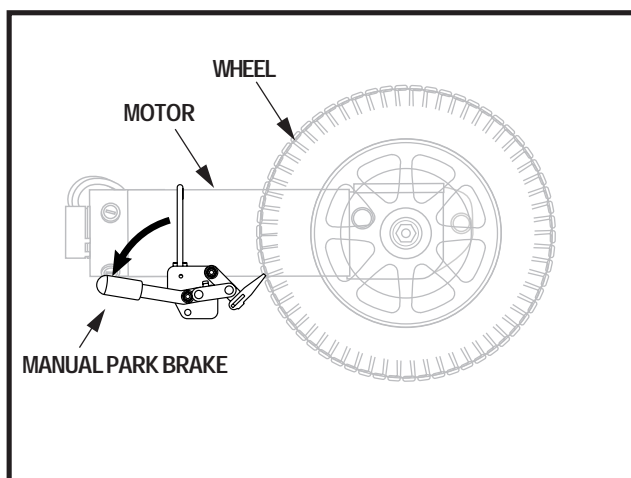


Figure 12. Manual Park Brake Engaged

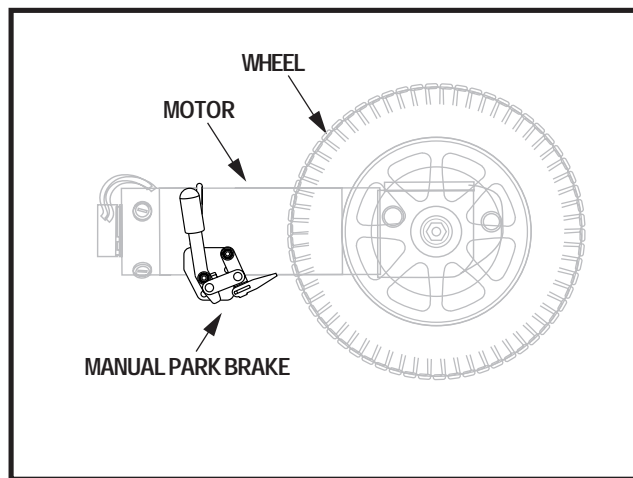


Figure 13. Manual Park Brake Disengaged

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 14 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.

NOTE: Any nylon insert lock nut removed during the disassembly or adjustment of the power chair must be replaced with a new nut. Nylon insert lock nuts should not be reused as it may cause damage to the nylon insert, resulting in a less secure fit. Replacement nylon insert lock nuts are available at local hardware stores or through your authorised Pride Provider.

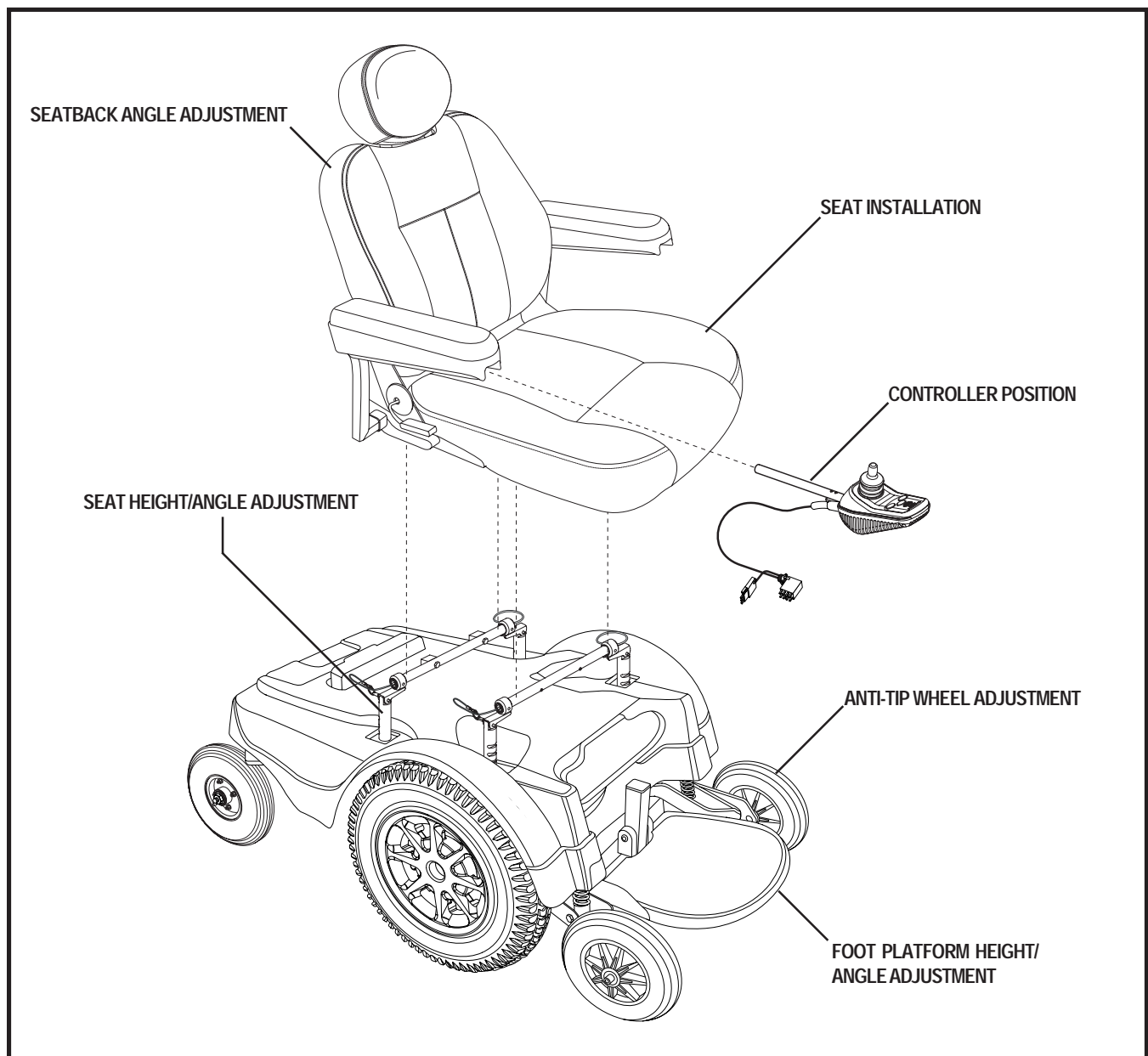


Figure 14. Jazzy 1170XL Assembly View

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. If your power chair is equipped with a Synergy Seat or TRU-Balance Power Positioning System, refer to the installation instructions provided in separate manuals.



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. Set the trapeze bars to the desired height. To change the trapeze bar height, see V. “Comfort Adjustments.”
2. Tilt the seat back and slide the rear extrusion onto the rear trapeze bar. See figures 6 and 15.
3. Lower the front extrusion onto the front trapeze bar until the seat locks into place.
4. Flip the seat latch safety down. See figure 16.



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

5. Install the controller into one of the armrests. See V. “Comfort Adjustments.”
6. Route the cable to ensure that the cable cannot be pinched in the seat hinge.
7. Plug the controller cable into the connector on the electronics tray. See figure 7.
8. Secure the controller cable to the armrest receiver with one or more wire ties.

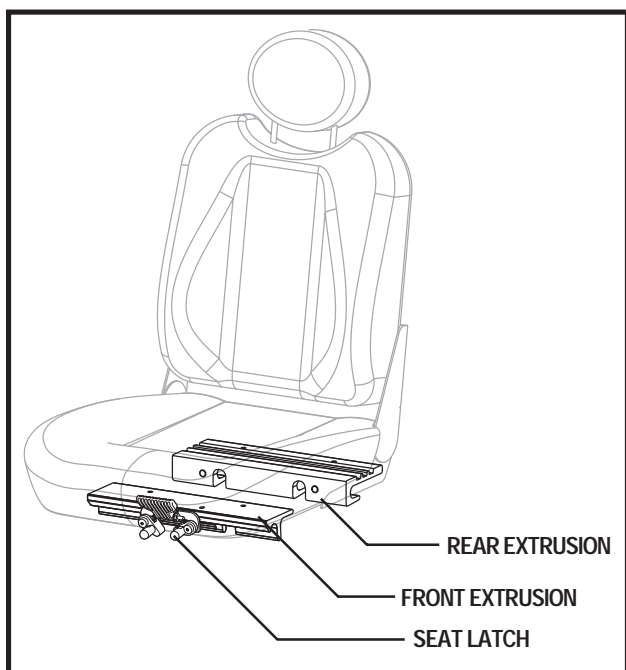


Figure 15. Universal Mounting System (UMS)

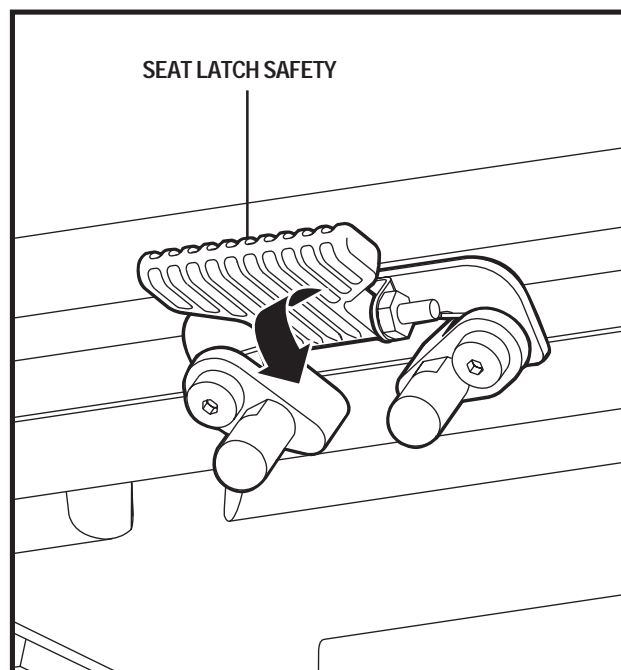


Figure 16. Seat Latch Safety

IV. ASSEMBLY

Power Elevating Seat Option Installation

Your power chair may be equipped with a power elevating 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 Jazzy 1170XL power base is different.

To install the power seat:

1. Align the seat shaft to the hole in the actuator. See figure 17.
2. Insert the seat shaft into the actuator and push the seat lever forward.
3. Lock the seat into place.
4. Plug the power elevating seat switch cable into the connector on the electronics tray.
5. Plug the controller cable into the connector on the electronics tray. See figure 6.
6. Route the cable to ensure that the cable cannot be pinched in the seat hinge.
7. Secure the controller cable to the armrest receiver with one or more wire ties.

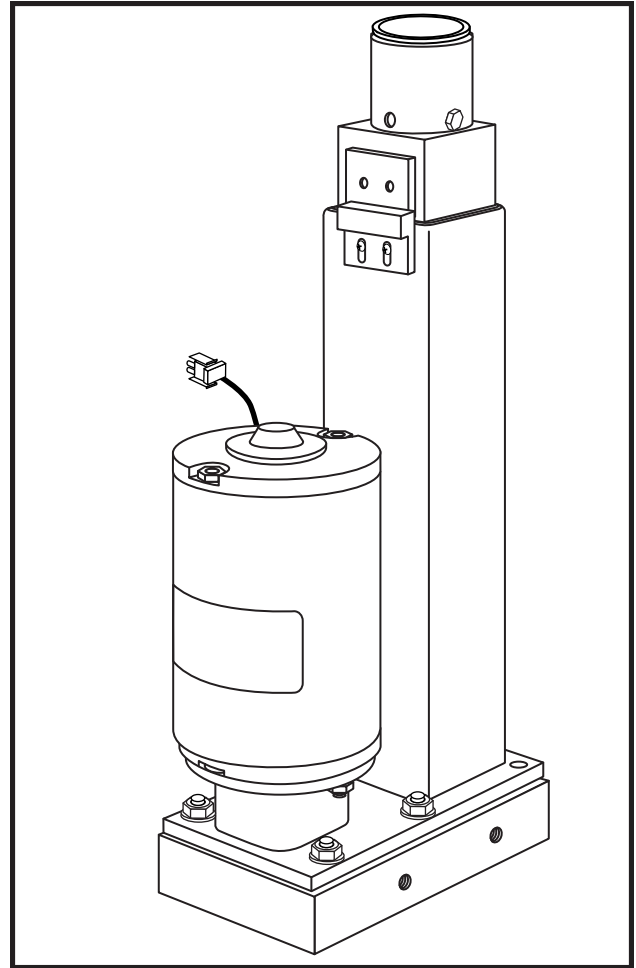


Figure 17. Power Elevating Seat Actuator

V. COMFORT ADJUSTMENTS

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, footrest height and angle, and the controller's position. If your power chair is equipped with a Synergy Seat or TRU-Balance Power Positioning System, 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 at your authorised Pride Provider, please consult your healthcare professional before changing the seat position or making any other adjustment. Some adjustments may degrade power chair performance and safety by changing the centre of gravity.

You may need the following to make comfort adjustments:

- metric/standard hex key set
- metric/standard socket set and ratchet
- adjustable spanner

Seat Height and Seat Angle Adjustment

The seat is attached to the power base through the UMS. You can change the seat height by raising the front and rear seat towers. If you raise or lower only one set of towers (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 and make sure the unit is in drive mode.
2. Unplug the controller connector(s) from the electronics tray.
3. Flip up the seat latch safety. See figure 18.
4. Squeeze the seat latch and release the seat from the front trapeze bar.
5. Slide the seat forward and remove it from the power base.
6. Remove the quick-release pins from the seat towers (front and rear). See figure 19.
7. Remove both trapeze bars from the seat towers.
8. Lift off the shroud
9. Remove the ball detent pin from each of the four seat towers. See figure 19.
10. Move the seat towers up or down to the desired height.
11. Reinstall the ball detent pin into each seat tower.
12. Reinstall the shroud.

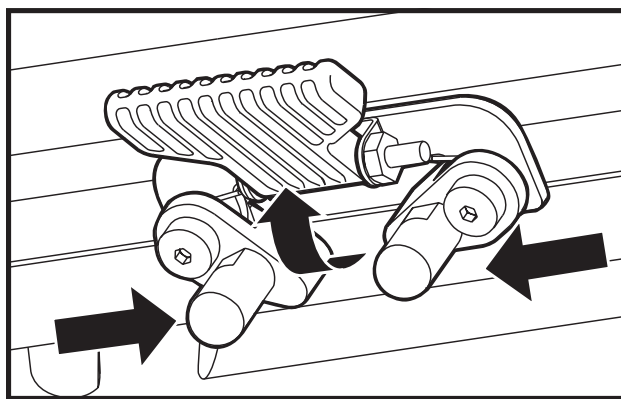


Figure 18. Seat Latch Safety (Disengaged)

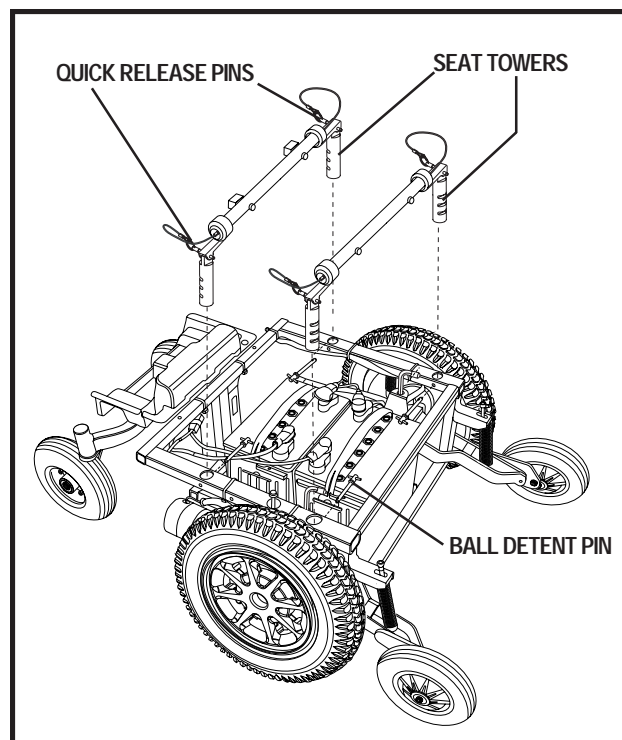


Figure 19. Seat Height Adjustment (Shroud Removed)

V. COMFORT ADJUSTMENTS

13. Reinstall the trapeze bars and secure with the quick-release pins.
14. Reinstall the seat.

NOTE: Make sure the seat latch safety is flipped down before using the power chair seat.

15. Plug the controller connector(s) into the electronics tray.

Reclining Seat Adjustment

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

To adjust the reclining seat:

1. Pull up on the seatback release lever.
2. Move the seatback down or up to the desired position.
3. Release the lever.

Seatback Angle Adjustment

If your power chair is equipped with an angle adjustable seatback, you can adjust it to four (4) different angles: 90°, 102°, 105°, or 107°. See figure 20.

To adjust the seatback angle:

1. Remove the seatback angle adjustment screws from both seat hinges.
2. Set the seatback at the desired angle.
3. Reinstall the screws to both seat hinges and tighten.

Armrest Width Adjustment

You can change each armrest's width independently of each 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 20.
2. Loosen the knobs.
3. Slide the armrests in or out to the desired width.
4. Tighten the knobs.

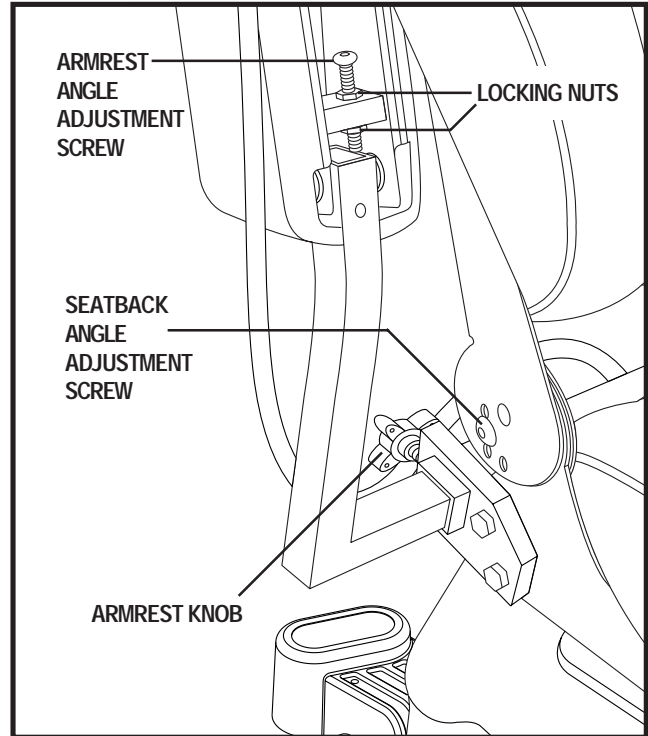


Figure 20. Seatback and Armrest Adjustments

V. COMFORT ADJUSTMENTS

Armrest Angle Adjustment

To change the armrest angle:

1. Lift the armrest straight up so that it is perpendicular to the floor.
2. Loosen the locking nuts. See figure 20.
3. Loosen the armrest angle adjustment screw. See figure 20.
4. Turn the adjustment screw clockwise to raise the front of the armrest, or turn the adjustment screw anticlockwise to lower the front of the armrest.
5. Tighten the locking nuts to lock the adjustment screw into place.

Foot Platform Height Adjustment

The foot platform height is easily adjusted to six different heights.

To raise or lower the foot platform:

1. Remove the mounting hardware from the foot platform bracket. See figure 21.
2. Raise or lower the foot platform to the desired height.
3. Reinstall the mounting hardware to the foot platform bracket.

Foot Platform Angle Adjustment

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

To adjust the foot platform angle:

1. Locate the setscrew on the underside of the foot platform. See figure 22.
2. Turn the setscrew clockwise to raise the front of the foot platform or anticlockwise to lower the front of the foot platform.

Controller Extension Adjustment

The controller can easily slide out away from the armrest, or in toward the armrest.

To extend the controller:

1. Flip up the armrest so it is perpendicular to the floor.
2. Loosen the setscrew on the controller bracket. See figure 23.
3. Slide the controller into or out of the armrest to the desired position.
4. Tighten the setscrew.

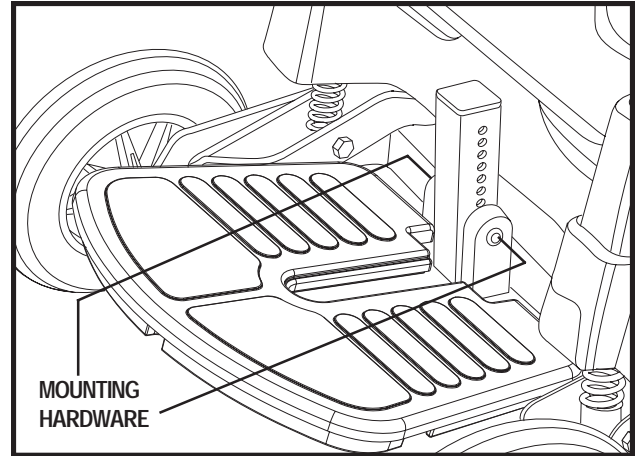


Figure 21. Footrest Height Adjustment

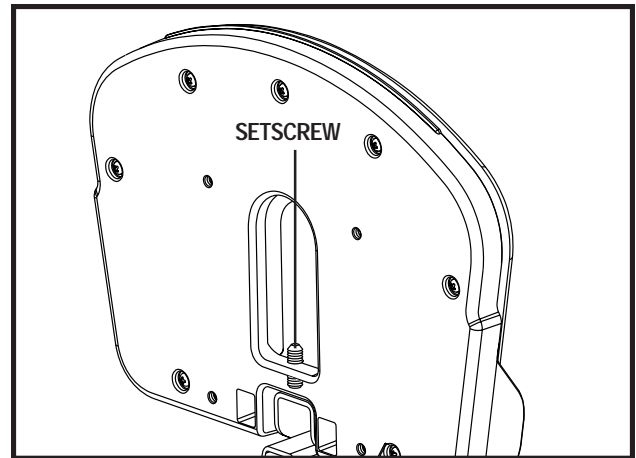


Figure 22. Underside of Footrest

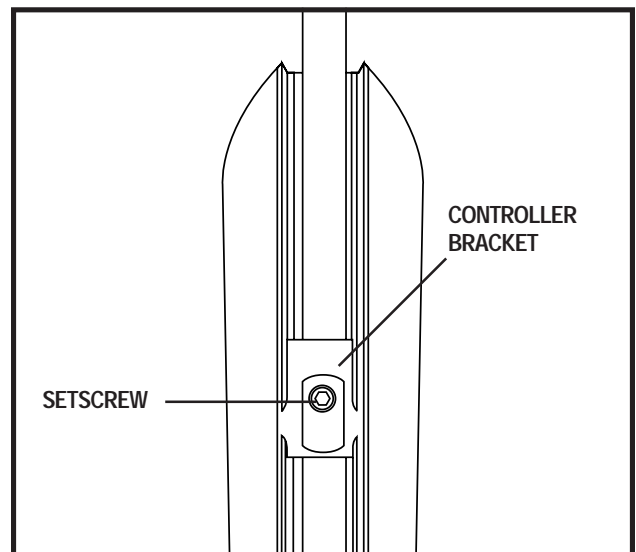


Figure 23. Controller Extension

V. COMFORT ADJUSTMENTS

Controller Position Adjustment

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

To change the controller position:

1. Turn off the power to the controller.
2. Disconnect the controller from the electronics tray.
3. Cut the wire tie(s) securing the controller cable to the armrest.
4. Flip up the armrest and loosen the setscrew. See figure 23.
5. Slide the controller out of the armrest.
6. Loosen the setscrew in the other armrest.
7. Place the controller in the other armrest.
8. Tighten the setscrew to secure the controller.
9. Use a wire tie to secure the controller cable to the armrest.
10. Connect the controller to the electronics tray.

Swing-away Footrests

Swing-away Footrests (SFRs) are an option. They enable you to rotate the leg rests to the side before you transfer onto or off of your power chair.

To rotate the SFRs:

1. Push in the release lever. See figure 24.
2. Rotate the SFRs.

To adjust the SFR length:

1. Remove the two adjustment screws from the side of each footrest extension. See figure 24.
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 30.5 - 48.25 in.

To rotate the ELRs:

1. Push in release lever A. See figure 25.
2. Rotate the ELRs.

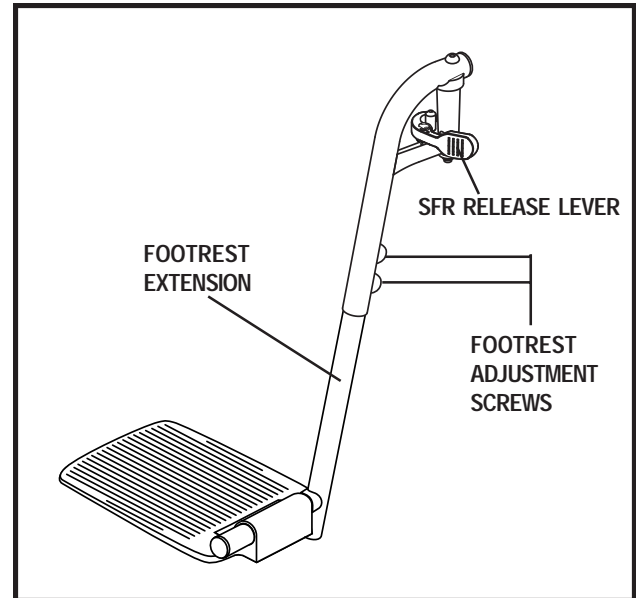


Figure 24. Swing-away Footrest Adjustment

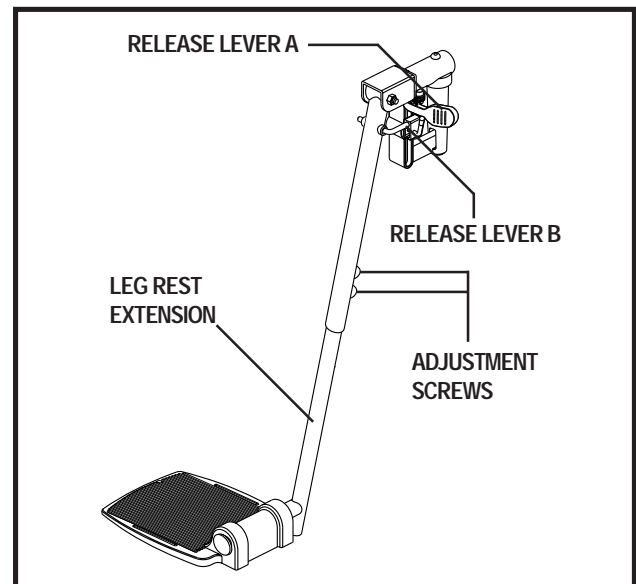


Figure 25. Elevating Leg Rest Adjustment

V. COMFORT ADJUSTMENTS

To adjust the ELR length:

1. Remove the two adjustment screws from the side of each leg rest extension. See figure 25.
2. Slide the leg rest up or down to the desired length.
3. Reinstall the two adjustment screws.

To adjust the ELR angle:

1. Push down release lever B. See figure 25.
2. Move the leg rest to the desired angle.

Anti-tip Wheels

The anti-tip wheels are designed to give your power chair increased stability on rough surfaces. The anti-tip wheels are preset for smooth surfaces or indoor use only. If you plan on using your power chair on rough surfaces, it may be necessary to adjust the anti-tip wheels to better suit your needs. The anti-tip wheels may need adjustment if either of the following occur:

- When coming to a stop, your power chair tips forward excessively.
- The anti-tip wheels constantly rub the ground.

WARNING! Consult your authorised Pride Provider before attempting to change the anti-tip wheel height! Changing the anti-tip wheel height affects handling under deceleration!



WARNING! The higher you raise the anti-tip wheels, the more you increase your power chair's tendency to tilt forward when coming to a stop. You can compensate for this by having your authorised Pride Provider make a small adjustment to the pre-programmed deceleration setting in the controller or by moving the seat assembly farther to the rear of your power chair.

To adjust the anti-tip wheels:

1. Place an adjustable spanner on the inner locknut of the anti-tip bracket located right after the shock strut. See figure 26.
2. Turn the locknut anticlockwise to loosen the cam.
3. Place the spanner on the adjustable cam located on the other side of the locknut.
4. To adjust the anti-tip upward, turn the cam anticlockwise. To adjust the anti-tip downward, turn the cam clockwise. See figure 27.
5. Tighten the locknut.

NOTE: Each drive tyre must have 2.4 bar (35 psi) in order for the anti-tip wheels to be properly adjusted.

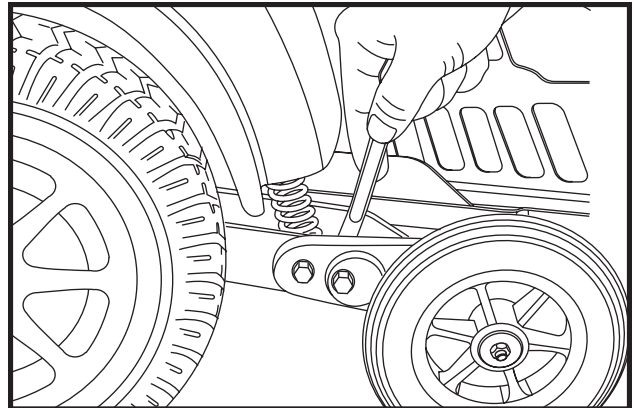


Figure 26. Anti-Tip Bracket (Inner Locknut)

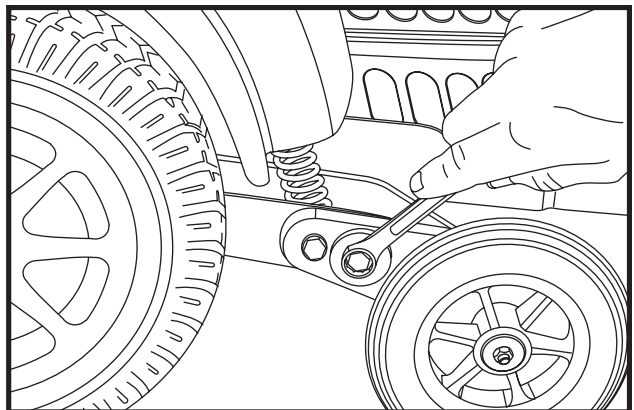


Figure 27. Anti-Tip Wheel Adjustment (Cam)

V. COMFORT ADJUSTMENTS

Power Elevating Seat Option

Your power chair may be equipped with a power elevating seat actuator. See figure 17. The power elevating seat is equipped with a speed inhibit system that reduces power chair speed by one-half whenever the seat is elevated more than 2.5 - 5.0 cm. Always check to be sure the speed inhibit system is operating properly before using your power chair, and do not move around in your seat to any great extent when the seat is in the raised position.

The power elevating seat can enhance the capabilities of the power chair in several ways:

- By elevating the seat, your level of reach is extended to allow more freedom and independence in many environments.
- You can easily adjust the seat height to any surface to which you want to transfer. The seat swivels 90 degrees to whichever side the joystick is located.
- By raising your seat, you are closer to the eye level of standing persons. This provides better interaction.

For all the benefits the power elevating seat can provide you, there are limitations.

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

WARNING! The power elevating seat is intended for use on a level surface only. Never raise the power elevating 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 power elevating 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 freewheel mode.

Power Elevating Seat Operation

You can control the power elevating seat through either the toggle switch located on the armrest or through the controller. For information on how to raise and lower the power elevating seat through your controller, contact your authorised Pride Provider.

To operate the power elevating seat through toggle switch:

1. Push the toggle switch forward to raise the seat. When you release the toggle switch, the seat will stop. Once the seat reaches its highest extension, the lift action will stop, but you should continue to hear and/or feel the lift motor running. This is because there is a clutch mechanism that allows the motor to continue running after the lift has reached its limit. This clutch works at both the top and bottom extensions of the lift.

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

2. Pull the toggle switch rearward to return the seat to its lowest position. When returning to the lowest position always be sure that the mechanism has reached its lowest limit.

To use the swivel feature, locate the swivel lever under the seat. It is located on the opposite side of the controller. Push down on the lever to rotate the seat in 90° increments.

VI. BATTERIES AND CHARGING

BATTERIES AND CHARGING

Your power chair 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 the power chair batteries. The battery charger is designed to optimise your power chair's performance by charging the batteries safely, quickly, and easily. The charging system consists of the charger, the charger fuse, and the ammeter. The onboard battery charger is located underneath the electronics tray. The ammeter is located on the electronics tray for easy viewing. The charger has an in-line fuse that protects 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 an electrical outlet.



WARNING! You must recharge the batteries with the supplied onboard charging system. Do not use an automotive-type battery charger.



PROHIBITED! Removal of the 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 electrical outlet.

To charge the batteries using an onboard battery charger:

1. Position the rear of the power chair close to a standard electrical outlet.
2. Turn off the power to the controller and engage the manual freewheel lever(s) in the drive position. See III. "Your Power Chair."
3. Extend the charger power lead and plug it into the electrical outlet.

NOTE: The power chair incorporates an inhibit function that disables the power chair when the charger is plugged into an electrical 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 ammeter needle vibrates on or about the 0 mark on the ammeter scale. Unplug the charger power lead from the electrical outlet, wind the lead up and secure it with the reusable hook and loop strap, then place the lead back into the electronics tray.

VI. BATTERIES AND CHARGING

To charge the batteries using an off-board battery charger:

1. Position the front of your power chair next to a standard electrical outlet.
2. Turn off the power to the controller and engage the manual freewheel lever(s) in the drive position. See III. “Your Power Chair.”
3. Plug the 3-pin extension cable from the off-board battery charger into the off-board battery charger/programming socket on the controller. See VII. “Operation.”
4. Plug the off-board battery charger into the electrical outlet.
5. We recommend you charge the batteries for 8 to 14 hours.
6. When the batteries are fully charged, disconnect the charger from the electrical outlet, 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 electrical outlet voltage of (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. As the battery voltage approaches full charge, the charger does not work as hard to complete the charging cycle. 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 your 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 battery 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.

VI. BATTERIES AND CHARGING

■ Daily Use

If you use your power chair on a daily basis, charge the batteries as soon as you are finished using it. 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.



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 or 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.

VI. BATTERIES AND CHARGING

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.

NOTE: If you are storing a power chair for an extended period of time, you may wish to block the unit up with several boards under the frame. This keeps the tyres off the ground and prevents the possibility of flat spots developing in the tyres.

What about public transportation?

If you intend to use public transportation while using your power chair, you must contact in advance the transportation provider to determine their specific requirements.

AGM and Gel-Cell batteries are designed for application in power chairs and in other mobility vehicles. Generally, these batteries are safe for all forms of transportation such as aircraft, buses, and trains. We suggest that you contact your transportation provider to determine specific requirements of transportation and packaging.

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 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 VSI controller is an integral electronic controller. All of the electronics necessary to operate the power chair are contained in one module. See figure 28. Typically, the VSI is mounted to one of the armrests and is connected to the motors, batteries, and the onboard battery charger on the power base.

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 VSI consists of:

1. joystick
2. keypad
3. off-board charger/programming socket
4. actuator connector
5. controller connector
6. charger inhibit 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.

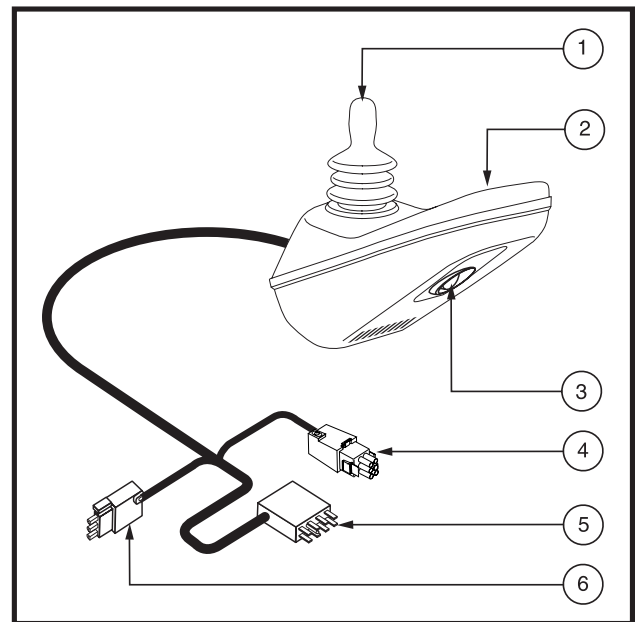


Figure 28. VSI Controller



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.

VII. OPERATION

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 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 located in front of the joystick. This is a 10-segment illuminated display that indicates that the VSI is turned on and also gives the battery status, the VSI status, and the electrical system status.

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

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!

Speed/Profile Keys

There are two keys that control either the speed or the profile. This depends on how your VSI was programmed. Press the speed/profile increase key to increase the speed or change the profile. Press the speed/profile decrease key to decrease the speed or change the profile. The speed/profile setting 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 set the speed to the slowest setting until you become familiar with your new power chair.

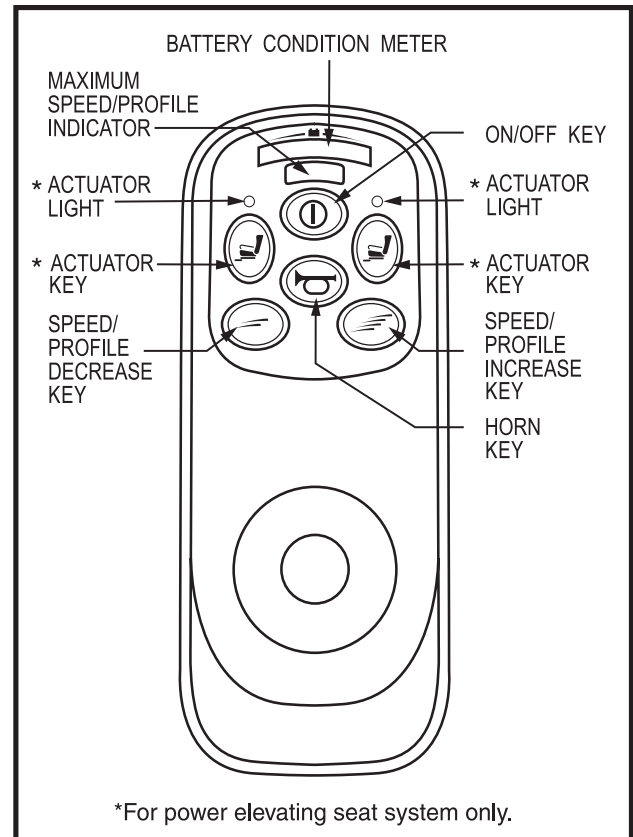


Figure 29. VSI Controller Keypad

VII. OPERATION

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 side to side.
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

You may use an off-board charger to charge the power chair batteries through the 3-pin socket 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 onboard 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.*

Actuator Connector

The actuator connector connects the VSI to optional powered systems such as an elevating seat or lighting system. Contact your authorised Pride Provider for information on how to operate these accessories.

Controller Connector

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

VII. OPERATION

Charger Inhibit Connector

This 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. The 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 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 Provider.
4	The right motor has a bad connection. Check right motor connection.
5	The right motor has a short circuit to a battery connection. Contact your authorised Pride Provider.
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.

VII. OPERATION

REMOTE PLUS 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 also enables you to monitor battery charge, electronic controller functions, and the condition of your electrical system. Also, it may be used to control some optional systems such as a power elevating seat and lights through an actuator/lighting module (ALM) located on the power base. The Remote Plus electronic control system is a modular system. The electronics necessary to operate your power chair are contained in several modules located on different parts of your power chair. Typically, the Remote Plus joystick is mounted to one of the armrests. It is connected to a power module located on the power base through the controller communications connector.

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 Remote Plus master remote consists of the following (see figure 30):

1. joystick
2. keypad
3. controller communications cable
4. off-board charger/programming socket

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.

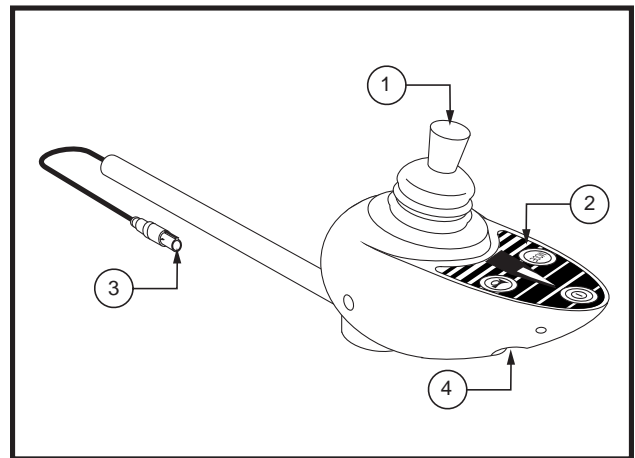


Figure 30. Remote Plus Master Remote



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 directly in front of the joystick. See figure 31. It contains keys that you will use to control your power chair.

VII. OPERATION

On/Off Key

The on/off keys toggles the system power 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.

Mode Key

Press the key to change speed setting or to activate the power accessories. See “Speed Settings” or “Power Accessories.”

Speed Setting Indicator

Indicates the selected speed setting.

Power Accessory Indicator

Indicates the selected power accessory. This is for optional accessories only.

Horn Key

The horn key activates the horn.

Right/Left Turn Indicator Keys

The right/left turn indicator keys toggle either the left or right turn indicators. Press once to turn on and press again to turn off. You can also turn off the selected indicator by pressing the opposite indicator key or the hazard key.

Light Key

The light key turns the headlights/taillights on and off independent of other indicators.

Hazard Key

The hazard key toggles both right and left indicators at the same time. You can only cancel this by pressing the hazard key again.

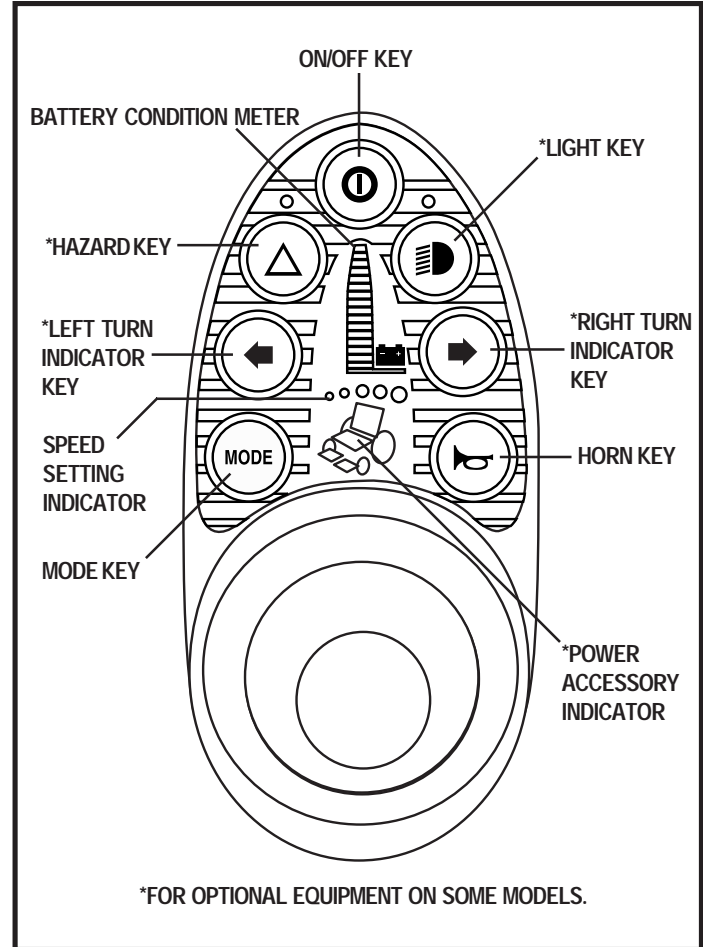


Figure 31. Remote Plus Keypad

VII. OPERATION

Battery Condition Meter

The battery condition meter is located in front of the joystick. This is a 10-segment illuminated display that indicates that the Remote Plus is powered on and also gives the status of the battery, the controller, and the power chair electrical system.

- **Red, yellow, and green lights lit:** Batteries charged; controller and electrical system OK.
- **Red and yellow lights lit:** Charge batteries if possible; controller and electrical system OK.
- **Red lights only lit or slow flash:** Charge batteries as soon as possible; controller and electrical system OK.
- **Rapid flash of lights:** Indicates a fault in the controller or the electrical system.
- **Ripple up and down of lights:** The joystick was not in the centre position when the controller was turned on. If you get “ripple up and down 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 up and down of lights,” contact your authorised Pride Provider.*

***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!*

Speed Settings

The Remote Plus speed settings range from 1 to 5. Typically, the slowest speed setting is 1 and the fastest speed setting is 5. The settings are indicated by the number of lights that are lit.

***NOTE:** The speed settings are preset at the factory. If your authorised Pride Provider changes the order of these settings, please make note of these changes. Contact your authorised Pride Provider for more information.*

To select a speed setting:

1. Press the on/off key to power on the remote.
2. Press the mode key once.
3. To increase chair speed, push the joystick to the right. Each time you push the joystick, you will increase the speed setting.
4. To decrease chair speed, push the joystick to the left. Each time you push the joystick, you decrease the speed setting.
5. Once you select the desired speed setting, press the mode key once to keep the setting or push the joystick in the forward or reverse direction. The chair will resume operation at the selected speed.

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

Power Accessories

If your power chair is equipped with power accessories such as a power seat or power elevating leg rests, you can operate them through the remote keypad. Contact your authorised Pride Provider for information on how to operate these accessories.

VII. OPERATION

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 controller. The socket may also be used for reprogramming the controller by using a controller programmer, should this be necessary. 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.

Controller Communications Cable

The controller communications cable provides the joystick module with a connection to the power module at the back of the power base.

Power Module

Typically, the power module is mounted to the power base. The power module provides a power interface for the joystick module. It routes the battery power to the motors and other powered accessories such as lights and power seats.

Actuator Lighting Module (Not Shown)

The actuator lighting module is also located on the power base. The actuator lighting module provides a control and power interface between the power module, the lights, and/or the power seat actuator.

Sleep Mode

Your Remote Plus controller has a sleep mode feature. Sleep mode is a built-in circuit that automatically shuts off the main power if the joystick is not moved in any direction for approximately five minutes. The battery condition meter lights on the keypad indicate sleep mode by blinking once every five seconds. To restore power and continue, push the on/off key twice.

Thermal Rollback

The Remote Plus is equipped with a thermal rollback circuit. This circuit monitors the temperature of the motors, power module, and remote. In the event that any of them become excessively hot (above 50°C/122° F), motor voltage is reduced. For every degree above 50°C/122° F, the voltage is reduced by 5 volts. This reduces your power chair's speed and allows the electrical components to cool down. When the temperature returns to a safe level, your power chair resumes its normal speed.

Remote Plus Error Codes

In addition to indicating the current state of battery charge, the battery condition meter can also indicate possible problems with your power chair. The battery condition meter has ten lights. The lights provide information by the number of lights that are flashing. If any of the meter lights are flashing rapidly, the controller may be indicating a fault. For instance, if the first light is flashing rapidly, the battery voltage is nearly depleted. The following is a list of the possible errors signified by the rapidly flashing meter. When you get an error code, contact your authorised Pride Provider.

VII. OPERATION

FLASHING LIGHTS	DIAGNOSIS	SOLUTION
10	High Battery Voltage	Check batteries.
9	Solenoid Brake Fault	Check motor/brake wiring.
8	Possible Controller Fault	See authorised Pride Provider.
7	Possible Joystick Fault	See authorised Pride Provider.
6	Inhibit Active. Unplug charger.	Check connections.
5	Right Motor Wiring Fault	Check right motor wiring.
4	Right Motor Disconnected	Check right motor wiring.
3	Left Motor Wiring Fault	Check left motor wiring.
2	Left Motor Disconnected	Check left motor wiring.
1	Low Battery Voltage	Check batteries/battery wiring.

VII. OPERATION

THE EUROPA 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 also enables you to monitor battery charge, electronic controller functions, and the condition of your electrical system. Also, it may be used to control some optional systems such as power elevating seats and lights. The Europa electronic control system is a modular system. The electronics necessary to operate your power chair are contained in several modules located on different parts of your power chair. Typically, the Europa Controller is mounted to one of the armrests. The other components are located inside the power base.

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 Europa Controller consists of the following (see figure 32):

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

Joystick

The joystick controls the direction and speed of the power chair. When you move the joystick from the neutral (centre) position, the electromagnetic brake will release and allow the power chair to move. The farther you push the joystick from its neutral position, the faster your power chair will move. When you release the joystick and allow it to return to the neutral position, you engage the electromagnetic brake. This helps the power chair decelerate and come to a complete stop. You can also use the joystick control power actuators.

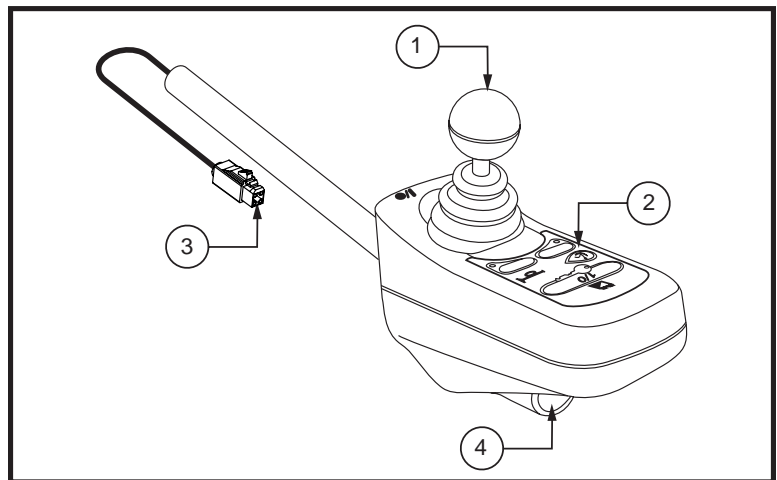


Figure 32. Europa Master Remote



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.

Out Of Neutral At Power Up

Your power chair joystick is equipped with Out Of Neutral At Power Up (OONAPU). If you power up the system and the joystick is not in the neutral position, the system status light flashes rapidly for either as long as the joystick is out of the neutral position or five seconds. If this has happened and the all the segments on the battery condition meter are flashing, you may have set a fault code. See “Europa Error Codes.”

VII. OPERATION

Keypad

The keypad is located directly in front of the joystick. It contains keys that you will use to control your power chair. See figure 33.

On/Off Key

The on/off key toggles the system power 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.

NOTE: *If the joystick is not in the neutral (centre) position when you turn on the power, you may cause a fault in the system. See “Out Of Neutral At Power Up.”*

System Status Light

The system status light is normally on when the system is powered up, and off when the system is powered down. It will also flash trouble codes when the system detects a fault. See “Trouble Codes.”

Magnetic Locking Area

Your power chair is equipped with a feature that enables you to “lockout” unauthorised users. For this function, you will need the magnetic key supplied with your power chair. If you lose this key, contact your authorised Pride Provider.

To enable the lockout system:

1. Hold the magnetic key on or near the key symbol. The system will beep and automatically turn off.

NOTE: *None of the remote lights should be lit.*

2. Press the on/off key to turn on the power chair. The key symbol will flash, but you will not be able to drive your power chair. This means that it is still locked.
3. Hold the magnetic key on or near the key symbol again to unlock the system. When the key symbol stops flashing, you may turn on the power chair.

NOTE: *If you turn on the power chair while it is locked and don't unlock it after one minute, the power chair will automatically turn off itself.*

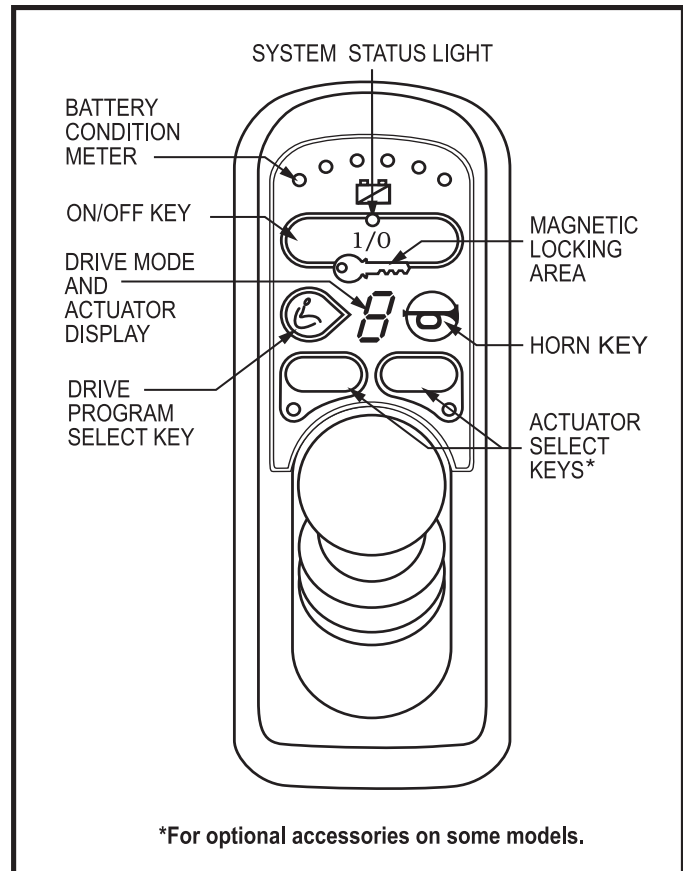


Figure 33. Europa Master Remote Keypad

VII. OPERATION

Battery Condition Meter

The battery condition meter consists of six lights arranged in an arc over the battery icon. From left to right, the first two are red, the second two are orange and the last two are green. These lights give you an accurate indication of your usable battery capacity. If the battery has at least 85% of its rated capacity, all of the lights will be on. As the battery voltage drops, the number of lights reduces from right to left. When the battery capacity drops to 10% or below, all of the lights will flash once every second.

Drive Program Select Key

The drive program select key enables you to select a drive program and an actuator mode. Your Dynamic DX controller was preprogrammed at the factory for five drive programs— 1(slowest) to 5(fastest). The drive mode is indicated by a number in the centre of the keypad.

NOTE: *The drive mode settings are preset at the factory. If your authorised Pride Provider changes these settings, please make note of these changes.*

To change the drive mode program:

1. Press the drive mode select key.
2. Move the joystick right to increase the drive mode program.
3. Move the joystick left to decrease the drive mode program.
4. Press the drive mode select key.

Drive Mode and Actuator Display (also Remote Status Display)

This is a seven-segment light that displays the drive program. It also displays a drive inhibit and actuator mode (if applicable), when they occur.

Actuator Select Keys with Lights

If your power chair is equipped with power accessories such as a power seat or power elevating leg rests, you can operate them through the remote keypad. Contact your authorised Pride Provider for information on how to operate these accessories.

Remote Status Light

This light will flash if there is an internal Dynamic DX Remote fault, or if an OONAPU fault has occurred. See “Out Of Neutral At Power Up.”

Horn Key

The horn key activates the horn.

Battery Saver Feature

When the battery capacity drops to below 21V (typically two lights), the controller will reduce power chair performance to conserve battery power.

VII. OPERATION

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 Europa. If you use an off-board charger, the charger current should not exceed 8 amps. Contact your authorised Pride Provider for more information.

NOTE: *The socket may also be used for reprogramming the Europa. 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 and key on the keypad.

Europa Error Codes

The system status light is displayed within the on/off key. This light is lit if the system is turned on. It also flashes in groups called trouble codes, to indicate system faults. The table below identifies the individual trouble codes. If your keypad displays one of these codes, contact your authorised Pride Provider.

TROUBLE CODE SEQUENCE	DIAGNOSIS	SOLUTION
•—•—•—	DX module fault	See your authorised Pride Provider.
••—••—•—	DX accessory fault	See your authorised Pride Provider.
•••—•••—	Left motor (or connection) fault	Check left motor wiring.
••••—••••—	Right motor (or connection) fault	Check right motor wiring.
•••••—•••••—	Left park brake fault	Check motor/brake wiring.
••••••—••••••—	Right park brake fault	Check motor/brake wiring.
•••••••—•••••••—	Low battery fault	Check that the battery wiring is secure.
••••••••—••••••••—	Over voltage fault	Check that the battery wiring is secure.
•••••••••—•••••••••—	CANL fault	See your authorised Pride Provider.
••••••••••—••••••~	CANA fault	See your authorised Pride Provider.
•••••••••••—••••••~	Stall timeout	Turn unit on, then off.
••••••••••••—••••••~	Module mismatch	See your authorised Pride Provider.

NOTE: *You must turn the controller off and then on again to reset the controller, even if the source of the fault is removed/corrected.*

In the event of a fault, the system status light displays diagnostic indications. Faults are encoded as follows: one (for a low battery voltage fault) to twelve (module mismatch) and are displayed by the light flashing the number of times prescribed by the fault code. The flash sequence (one to twelve) is followed by a long off period (2 seconds). If more than one fault exists, then the fault having the highest priority is indicated. The controller must be turned off and then on again even if the source of the fault is removed. If you cannot resolve the problem, contact your authorised Pride Provider.

VII. OPERATION

THE MICRODRIVE 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 also enables you to monitor battery charge, electronic controller functions, and the condition of your electrical system. Also, it may be used to control some optional systems such as power elevating seats and lights. The Microdrive electronic control system is a modular system. The electronics necessary to operate your power chair are contained in several modules located on different parts of your power chair. Typically, the Microdrive Controller is mounted to one of the armrests. See figure 34. The other components are located on or inside the power base.

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 Microdrive Controller consists of:

1. joystick
2. display pad
3. mode switch
4. on/off switch
5. speed adjustment dial
6. joystick interface module
7. off-board charger/programming socket

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 the power chair to move. The farther you push the joystick from its neutral position, the faster the power chair moves. When you release the joystick and allow it to return to the neutral position, the electromagnetic brakes engage and the power chair comes 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.

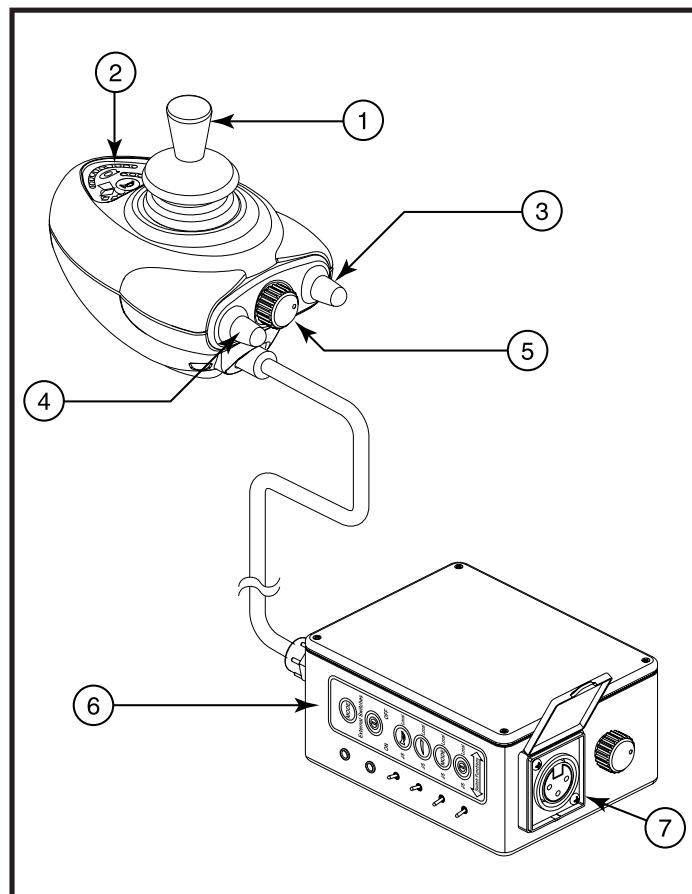


Figure 34. Microdrive Controller with Joystick Interface Module

VII. OPERATION

Display Pad

The display pad is located directly in front of the joystick. It contains the horn key, battery condition meter, profile and speed indicator, and the actuator indicator. See figure 35.

Horn Key

The horn key activates the horn.

Battery Condition Meter

The battery condition meter is a 10-segment illuminated display that indicates that the Microdrive is powered on and also gives the status of the batteries, the controller, and the power chair electrical system.

- **Red, yellow, and green lights lit:** Batteries charged; controller and electrical system OK.
- **Red and yellow lights lit:** Charge batteries if possible; controller and electrical system OK.
- **Red lights only lit or slow flash:** Charge batteries as soon as possible; controller and electrical system OK.
- **Rapid flash of lights:** Indicates a fault in the controller or the electrical system. See “Error Codes.”
- **Ripple up and down of lights:** The joystick was not in the neutral position when the controller was turned on. If you get “ripple up and down 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 up and down of lights,” contact your authorised Pride Provider.

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!

Profile and Speed Indicator

The profile and speed indicator is a 5-segment illuminated display that indicates speed setting as well as drive profile.

Actuator Indicator

The actuator indicator is a 4-segment illuminated display that indicates power recline, power tilt, power leg rest, and power elevating seat actuator modes.

Joystick Interface Module

The joystick interface module provides a means to enable or disable the horn button, mode switch, on/off switch, and speed adjustment dial.

NOTE: When a toggle switch is set to “J/S,” the joystick has control of a particular function. When the toggle switch is set to “Local,” control of this function is disabled at the joystick.

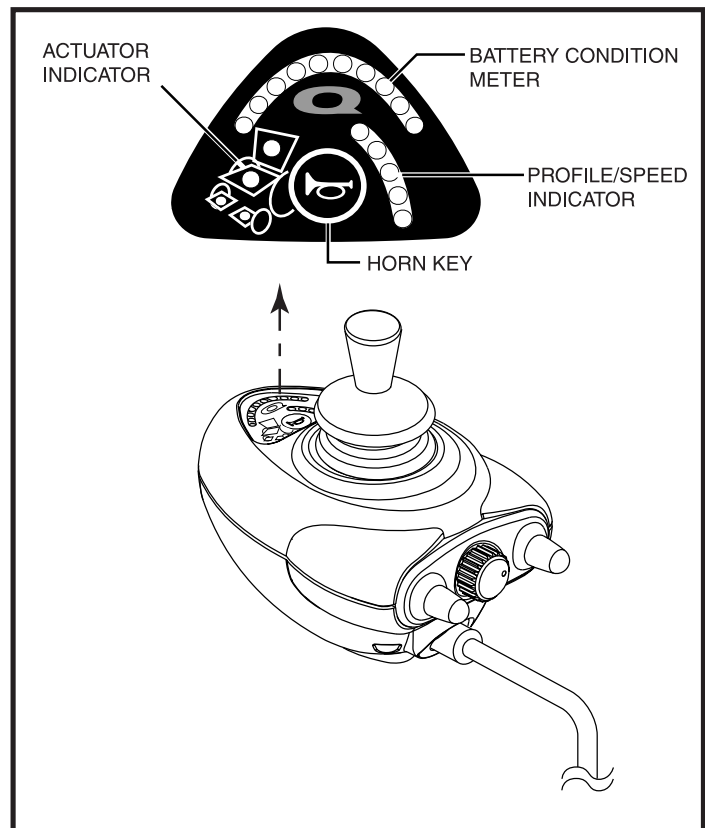


Figure 35. Microdrive Display Pad

VII. OPERATION

Drive Profile Selection

Your Microdrive controller may be programmed for more than one drive profile that allows the system to be custom tailored to your environment.

To select a profile setting:

1. Use the on/off switch to power on the chair and the controller.
2. Press the mode button.
3. Move the joystick left or right to select the desired drive profile. Each of the LEDs indicate a separate profile.

NOTE: *The system can be programmed with 5 different profiles.*

Speed Adjustment

The Microdrive controller provides a speed control knob to control the speed of the power chair.

To change the speed:

1. Use the on/off switch to power on the chair and the controller.
2. To increase your speed, turn the speed adjustment dial clockwise.
3. To decrease your speed, turn the speed adjustment dial anticlockwise.

Sleep Mode

The Microdrive controller offers a sleep mode feature which will shut off the main power if the joystick remains stationary for a period of five minutes. The battery condition meter will indicate sleep mode by blinking once every five seconds. To restore power and resume operation of the chair, flip the on/off switch twice.

Thermal Rollback

The Microdrive controller is equipped with a thermal rollback circuit which monitors the temperature of the chair's motors and controller. If either exceeds 50°C/122°F, the controller reduces the motor voltage by 5 volts for every degree over. This reduces the chair's speed and allows a cool down period. Once the temperature returns to a safe level, the chair will resume normal operation.

Error Codes

In addition to indicating the current state of battery charge, the battery condition meter can also indicate possible problems with your power chair's electrical system. If any of the battery condition meter lights are flashing rapidly, the controller may be indicating an error. Error codes are displayed as a number of flashing lights. For instance, if the first light is flashing rapidly, the battery voltage is nearly depleted. The following table identifies the individual error codes, probable causes, and possible solutions. If you get one of these error codes, contact your authorised Pride Provider.

VII. OPERATION

FLASHING LIGHTS	DIAGNOSIS	SOLUTION
10	High Battery Voltage	Check batteries.
9	Solenoid Brake Fault	Check motor/brake wiring.
8	Possible Controller Fault	See authorised Pride Provider.
7	Possible Joystick Fault	See authorised Pride Provider.
6	InhibitActive	Unplug charger. Check connections.
5	Right Motor Wiring Fault	Check right motor wiring.
4	Right Motor Disconnected	Check right motor wiring.
3	Left Motor Wiring Fault	Check left motor wiring.
2	Left Motor Disconnected	Check left motor wiring.
1	Low Battery Voltage	Check batteries/battery wiring.

VIII. CARE AND MAINTENANCE

CARE AND MAINTENANCE

Your Jazzy 1170XL 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 an 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.

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 dry 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 an 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 on the electronics tray to ensure that they are all tight and secured properly.
- Make sure the drive tyres are inflated to **2.4 bar (35 psi)**.



WARNING! Make sure your tyres are inflated to 2.4 bar (35 psi). Do not underinflate or overinflate your tyres. Low pressure may result in loss of control, and overinflated tyres may burst. 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.

VIII. CARE AND MAINTENANCE

- 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 well, with the battery terminals facing inward, toward each other. Refer to the frame decal 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 harnesses. Make sure that they are not frayed or cut or have any wires exposed. See your authorised Pride Provider if there is a problem with any harnesses.

Weekly Checks

- Disconnect and inspect the controller and the charger inhibit connection on the electronics tray. 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 over-tighten 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 three feet 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 rearwards, then left, and then right.

Yearly Checks

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

VIII. CARE AND MAINTENANCE

Monthly Checks

- Check that the anti-tip wheels do not rub the ground when you operate the power chair. Adjust them as necessary. See V. “Comfort Adjustments.”
- Check for extreme wear on the anti-tip wheels. Replace them as necessary.
- Check for drive tyre wear. See an authorised Pride Provider for repair.
- Check the rear casters for wear. Replace them as necessary.
- Check the rear forks for damage or fluttering which indicates that they may need to be adjusted or have the bearings replaced. See an authorised Pride Provider for repair.
- Keep your power chair clean and free of foreign material, such as mud, dirt, hair, food, drink, etc.

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.

Wheel Replacement

If you have pneumatic tyres and you have a flat tyre, 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.

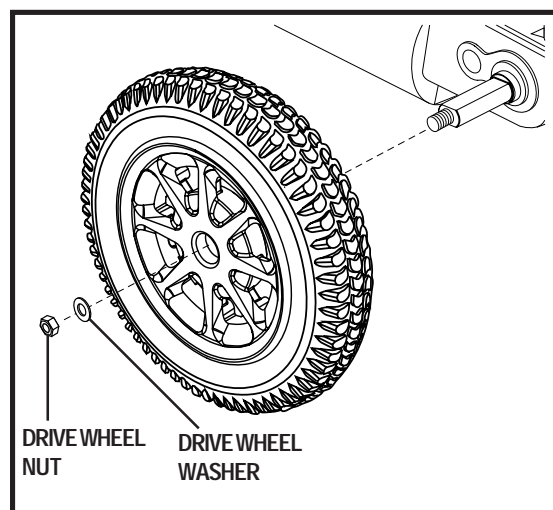


Figure 36. Jazzy 1170XL Drive Wheel

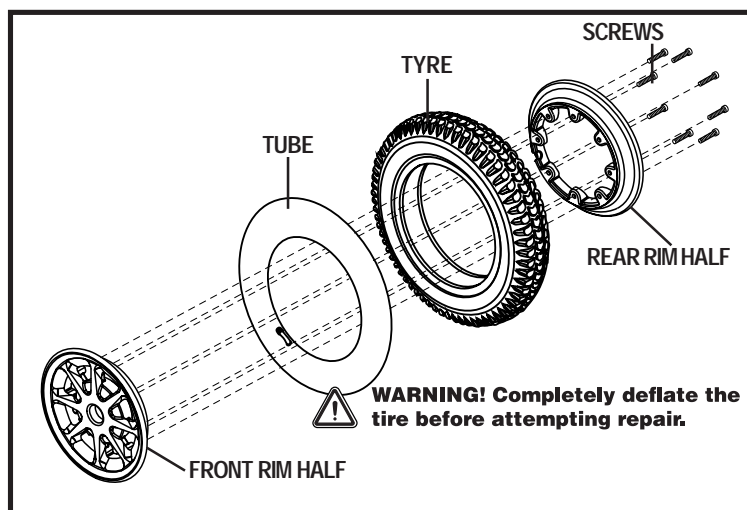


Figure 37. Jazzy 1170XL Drive Wheel Disassembled

VIII. CARE AND MAINTENANCE



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 solid and pneumatic 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 and washer from the axle. See figure 36.
5. Pull the wheel off the axle.
6. Remove the screws that fasten the two rim halves together. See figure 37.
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 rim halves together.
9. Slide the wheel back onto the shaft.
10. Reinstall the drive wheel nut and washer onto the axle and tighten.
11. Inflate the pneumatic tyre to **2.4 bar (35 psi)**.
12. Remove the power chair from the blocks.

Battery Replacement

A diagram is printed on a decal located on the power chair frame near the battery tray.



WARNING! Pride Power Chair batteries are heavy. See the 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 the power off.
2. Make sure that the power chair is in drive mode. See III. "Your Power Chair."
3. Unplug the connectors from the electronics tray.
4. Remove the seat and trapeze bars.
5. Remove the shroud.
6. Disconnect the wiring harnesses from the batteries.
7. Remove the batteries from the power base.
8. Place the new batteries in the power base. Make sure that the terminals are facing inwards. If the battery terminals are in the middle of the batteries, then make sure that the positive terminal of the rear battery is facing the negative terminal of the front battery on the left side.
9. Looking at the power base from the front, connect the red wire from the left side to the positive (+) terminal on the back battery and connect the black wire from the left side to the negative (-) terminal on the front battery.
10. Connect the red wire from the right side to the positive (+) terminal on the front battery and connect the black wire from the right side to the negative (-) terminal on the rear battery.



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

VIII. CARE AND MAINTENANCE

11. Reinstall the shroud.
12. Reinstall the trapeze bars and the seat.
13. Plug in the connectors to the electronics tray.

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 trouble 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.

I X . W A R R A N T Y

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 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.

NOTES

NOTES

Jazzy Power Chairs®

How a Power Chair Should Feel™



Quality Control - Model 1170 XL

Thank you for making the Jazzy 1170 XL your choice in power chairs.

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



Pride keeps a more detailed report on file at the factory.

Date Inspected

Inspector

* I NFMANU1286 *

Serial Number