

QUANTUM

JAZZY 1420



OWNER'S MANUAL

Pride
Mobility Products Ltd.
www.pridemobility.com

32 Wedgwood Road Bicester, Oxon OX26 4UL

SAFETY GUIDELINES



WARNING! A Quantum Rehab Dealer or a qualified technician must perform the initial setup of this power chair and must perform all of the procedures in this manual.

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! Indicates a potentially hazardous condition/situation. Failure to follow designated procedures can cause either personal injury, component damage or malfunction. On the product, this icon is represented as a black symbol on a yellow triangle with a black border.



MANDATORY! These actions should be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the product, this icon is represented as a white symbol on a blue dot with a white border.



PROHIBITED! These actions are prohibited. These actions should not be performed at any time or in any circumstances. Performing a prohibited action can cause personal injury and/or equipment damage. On the product, this icon is represented as a black symbol with a red circle and red slash.

Quick Reference Information

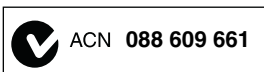
Quantum Rehab Dealer: _____

Address: _____

Phone Number: _____

Purchase Date: _____

NOTE: 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. The latest/current version of this manual is available on our website.



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I. INTRODUCTION

SAFETY

WELCOME to Quantum Rehab, a division of Pride Mobility Products 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. You must also read all instructions, warnings and notes contained in any supplemental instructional booklets for the controller, front riggings and/or seating system that accompanied your power chair before initial operation. Your **safety** depends upon you, as well as your dealer, 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 Quantum Rehab Dealer. **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.

SHIPPING AND DELIVERY

Before using your power chair, make sure your delivery is complete as some components may be individually packaged. If you do not receive a complete delivery, please contact your Quantum Rehab Dealer immediately. Where damage has occurred during transport, either to the packaging or content, please contact the delivery company responsible.

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 Quantum Rehab Dealer.

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 Ltd.
32 Wedgwood Road
Bicester, Oxon OX26 4UL

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.

II. SAFETY

PRODUCT SAFETY SYMBOLS

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



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



Do not allow unsupervised children to play near the power chair while the batteries are charging.



Maximum seating weight.



Keep your hands away from the tyres while driving. Be aware that loose fitting clothing can become caught in drive tyres.

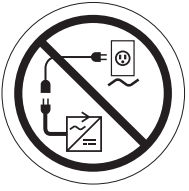


Use correct tie-down points for controller harness to prevent the harness from getting caught in the drive tyres, pinched in the seat frame or damaged when passing through doorways.



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

II. SAFETY



Do not connect an extension lead to the AC/DC converter or the battery charger.



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



Wear safety goggles.



Corrosive chemicals contained in battery.



Do not remove anti-tip wheels.



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

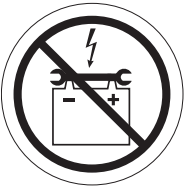
II. SAFETY



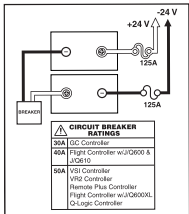
Explosive conditions exist!



Use only AGM or Gel-Cell batteries to reduce the risk of leakage or explosive conditions.



Keep tools and other metal objects away from battery terminals. Contact with tools can cause electrical shock.



Battery Set Configuration:
+ = Positive (Red) Terminal Post
- = Negative (Black) Terminal Post
Connect Red wires to Red Positive (+) Terminal Posts.
Connect Black wires to Black Negative (-) Terminal Posts.

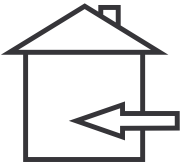


Do not use batteries with different amp-hour (Ah) capacities. Do not mix old and new batteries. Always replace both batteries at the same time.



Pinch/crush point.

II. SAFETY



Battery charger for indoor use only.



Disposal and recycling — Contact your Quantum Rehab Dealer for information on proper disposal and recycling of your Pride product and its packaging.



Do not place power chair in freewheel mode on a decline.



Do not place power chair in freewheel mode on an incline.



Contains Lead.

II. SAFETY

GENERAL GUIDELINES



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 Quantum Rehab Dealer 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 manoeuvre 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 Quantum Rehab Dealer 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. Do not use accessories if they have not been tested or approved for Pride products.

Pre-Ride Safety Check

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

Perform the following inspections prior to using your power chair:

- Check for proper tyre inflation. Maintain but do not exceed the psi/bar/kPa air pressure rating indicated on 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.
- Check the brakes. See VII. "Care and Maintenance."
- Check battery charge. See VI. "Batteries and Charging."

NOTE: If you discover a problem, contact your Quantum Rehab Dealer for assistance.

II. SAFETY

Weight Limitations

Your power chair is rated for a maximum weight capacity. Please refer to the specifications table for this limit. Keep in mind that the maximum weight capacity includes the combined weight of the user and any accessories mounted to the power chair.



MANDATORY! Stay within the specified weight capacity of your power chair. Exceeding the weight capacity voids your warranty. Pride will not be held responsible for injuries and/or property damage resulting from failure to observe weight limitations.



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

Tyre Inflation

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

WARNING! It is important that the psi/bar/kPa air pressure rating indicated on the tyre 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 the psi/bar/kPa air pressure rating indicated on the pneumatic tyres at all times may result in tyre and/or wheel failure.



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.

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.

NOTE: If the tyre on your power chair lists the psi rating only, use the following conversion formulas to find the bar or kPa rating: $bar = psi \times 0.06895$; $kPa = psi \times 6.89476$.

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.
- Avoid sudden stops and starts.

When climbing an incline, try to keep your power chair moving. If you must stop, start up again slowly and then accelerate cautiously. When driving down an incline, set your power chair to the slowest setting and drive in the forward direction only. If your power chair starts to move down the incline faster than you anticipated or desired, allow it to come to a complete stop by releasing the joystick, then push the joystick forward slightly to ensure a safely controlled descent.



WARNING! When 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.

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).

II. SAFETY

WARNING! Never travel down an incline rearward. Doing so may cause the power chair to tip. Always exercise extreme caution when negotiating an incline.



WARNING! If your power chair is equipped with a reclining seatback, do not attempt to negotiate inclines with the seat in a reclined position. Do not attempt to negotiate obstacles with the seat in a reclined position unless an attendant is present to help stabilize the chair. Failure to heed may result in the power chair tipping over.

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.

Pride recommends that the maximum slope of an incline you attempt to safely ascend or descend on your power chair does not exceed 10.5% (6°). See figure 1.



WARNING! Any attempt to climb or descend a slope steeper than 10.5% (6°) may put your power chair in an unstable position and cause it to tip.

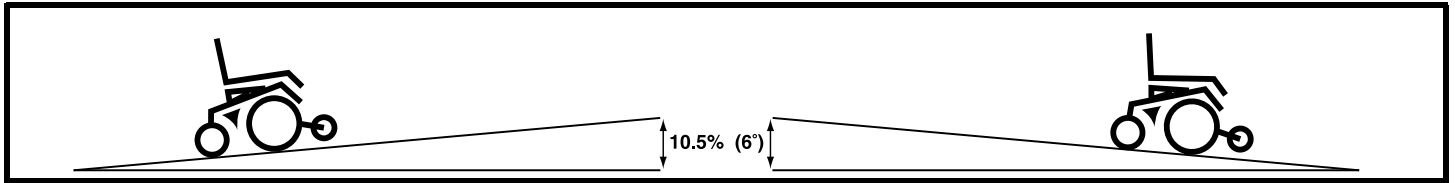


Figure 1. Maximum Safe Angle (Ascending and Descending)

Freewheel Mode

Your power chair is equipped with two manual freewheel levers to allow for manual manoeuvrability 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.



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

WARNING! Do not place your power chair in freewheel mode while on an incline or decline. This could cause the chair to roll uncontrollably on its own.

Braking Information

Your power chair is equipped with two powerful brake systems:

- Regenerative — uses electricity to rapidly slow the vehicle when the joystick returns to the centre/stop position.
- Disc Park Brake — activates mechanically after regenerative braking slows the vehicle to near stop, or when power is removed from the system for any reason.

Cornering Information

While your power chair is equipped with rear castor wheels and front anti-tip wheels, excessively high cornering speeds can still create the possibility of tipping. Factors which affect the possibility of tipping include, but are not limited to: cornering speed, steering angle (how sharply you are turning), uneven road surfaces, inclined road surfaces, riding from an area of low traction to an area of high traction (such as passing from a grassy area to a paved area — especially at high speed while turning) and abrupt directional changes. High cornering speeds are not recommended. If you feel that you may tip over in a corner, reduce your speed and steering angle (i.e., lessen the sharpness of the turn) to prevent your power chair from tipping.



WARNING! When cornering sharply, reduce your speed and maintain a stable centre of gravity. This greatly reduces the possibility of a tip or fall.

II. SAFETY

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.

Outdoor Driving Surfaces

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

- Avoid driving on uneven terrain and/or soft surfaces.
- Avoid tall grass that can entangle the running gear.
- Avoid loosely packed gravel and sand.
- Do not use your power chair in fresh or salt water.
- Do not use your power chair at the edge of a stream, lake or ocean.
- If you feel unsure about a driving surface, avoid that surface.

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.



PROHIBITED! Operating in rain, snow, salt, mist/spray conditions and on icy/slippery surfaces can have an adverse effect on the electrical system. Maintain and store your power chair in a dry and clean condition.



WARNING! Prolonged exposure to hot or cold conditions may affect the temperature of upholstered and non-upholstered items on the power chair, possibly resulting in skin irritation. Exercise caution when using your power chair in extremely hot or cold conditions or when exposing your power chair to direct sunlight for prolonged periods of time.

Stationary Obstacles (Steps, Kerbs, etc.)

Proceed with extreme caution when driving near raised surfaces, unprotected ledges and/or drop-offs (kerbs, porches, stairs, etc.). Be sure your power chair is traveling perpendicular to any kerb you may be required to navigate.

To navigate up over a kerb or stationary obstacle:

1. Approach the kerb or obstacle slowly, and make sure the power chair is traveling perpendicular to the obstacle. See figure 2.
2. Increase the forward speed just before the front wheels come in contact with the obstacle.
3. Reduce the forward speed only after the rear wheels have cleared the obstacle.

To navigate down a kerb or stationary obstacle:

1. Approach the kerb or obstacle slowly, and make sure the power chair is traveling perpendicular to the obstacle. See figure 2.
2. Reduce the forward speed just before the front wheels come in contact with the obstacle.
3. Increase the forward speed only after the rear wheels have cleared the obstacle and you are once again on a level surface.

WARNING! Even though your power chair may be capable of handling greater obstacles, Pride recommends that you do not attempt to negotiate a kerb that has a height greater than 5 cm (2 in.). Doing so could cause instability in your power chair.



WARNING! If your power chair is equipped with a kerb climber, do not attempt to climb any kerb in excess of 5 cm (2 in.) in height. Do not approach kerbs at an angle; instead approach any kerb you intend to ascend or descend in the forward position.

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

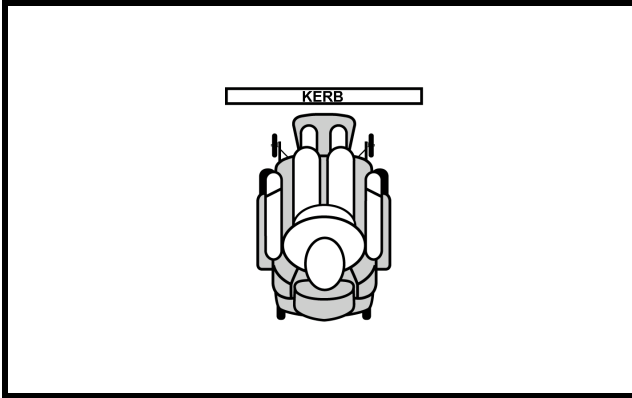


Figure 2. Correct Kerb Approach

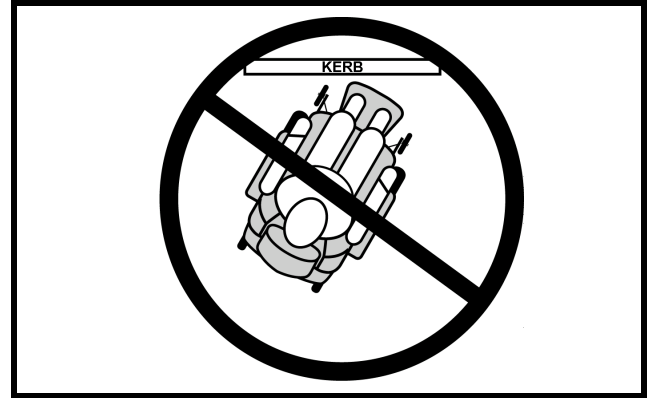


Figure 3. Incorrect Kerb Approach

Stairs and Escalators

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



WARNING! Never use your power chair to negotiate steps or escalators.

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 Systems/Elevation Products

If you will be transporting your power chair during travel, you may find it necessary to use a vehicle-mounted lift system or elevation product to aid in transportation. Pride recommends that you closely review the warnings, instructions, specifications and safety information set forth by the manufacturer of the lift/elevation product before using that product.



WARNING! Not all lift systems/elevation products are rated for use with an occupied mobility device. Pride recommends that you do not remain seated in your power chair when it is being used in connection with any type of lift system/elevation product unless:

- That product is rated for occupied use by the manufacturer.
- You are able to occupy your mobility device in strict conformity with the warnings, instructions, specifications and safety guidelines set forth by the manufacturer.

WARNING! Always turn off the power to the controller when you are being transferred via an elevation product. Failure to do so may result in accidental joystick contact, resulting in unintended movement and personal injury or product damage.

Motor Vehicle Transport

Pride recommends that you do not remain seated in your power chair while traveling in a motor vehicle. The power chair should be stowed in the boot of a car or in the back of a truck or van with batteries removed and properly secured. In addition, all removable power chair parts, including armrests, seat, front riggings, controller and shrouds should be removed and/or properly secured during motor vehicle transport.

II. SAFETY

WARNING! Do not sit on your power chair while it is in a moving vehicle.



WARNING! Always be sure your power chair and its batteries are properly secured when it is being transported. Batteries should be stored in an upright position and protective caps should be installed on the battery terminals. Batteries should not be transported with any flammable or combustible items.

Positioning Belts

Your Quantum Rehab Dealer, therapist(s) and other healthcare professionals are responsible for determining your requirement for a positioning belt in order to operate your power chair safely. Typically, the positioning belt is not designed for use as a restraining device in a motor vehicle.

Positioning belts should be installed as detailed in this manual. See V. “Comfort Adjustments.” Once installed, the belt should be placed across the pelvis as determined by the user’s healthcare dealer. Anchor points of the positioning belts should be located so that a projected side-view angle of the pelvis is between 30°-75° of horizontal depending on the user’s weight, posture and seat cushion thickness.

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.

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.”



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

WARNING! Power chair batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help. Use proper lifting techniques and avoid lifting beyond your capacity.



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

WARNING! Connect your battery harnesses in the proper manner. RED (+) cables must be connected to positive (+) battery terminals/posts. BLACK (-) cables must be connected to negative (-) battery terminals/posts. Protective caps should be installed over all battery terminals. REPLACE cables immediately if damaged.

Removable Parts



WARNING! Do not attempt to lift or move a power chair by any of its removable parts, including the armrests, seat, front riggings, controller and shrouds.

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.

II. SAFETY

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 or if you have to reach over the back of the seat. Movements such as these may change your centre of gravity and the weight distribution of the power chair, possibly causing your power chair to tip.



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

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

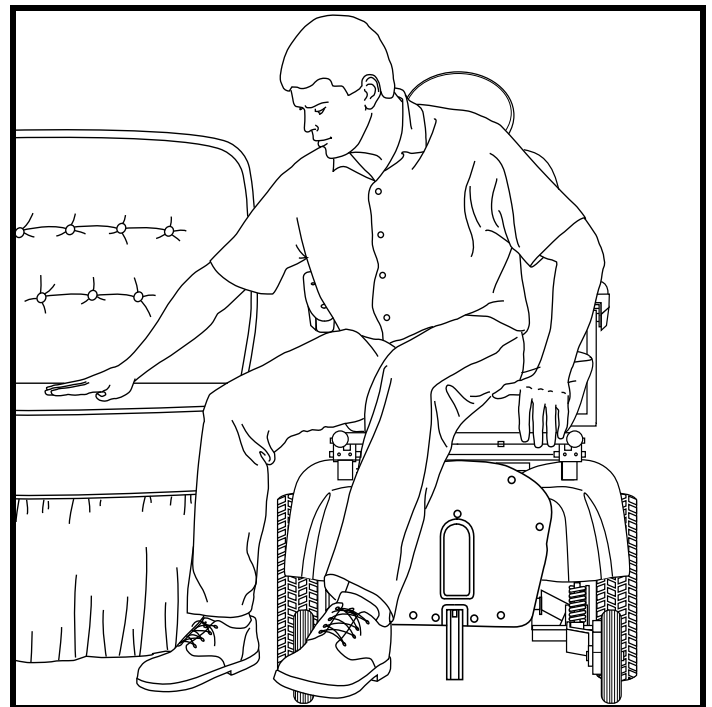


Figure 4. Ideal Transfer Position

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.

WARNING! Avoid putting all of your weight on the power chair armrests and do not use the armrests for weight bearing purposes, such as transfers. Such use may cause the power chair to tip, resulting in a fall from the power chair.



WARNING! The controller and controller bracket are non-load bearing items on your power chair. Do not use the controller or controller bracket for weight bearing purposes, such as transfers. Such use may cause damage to these components, resulting in a fall from the power chair and personal injury.

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

II. SAFETY

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/Smoking

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 or while smoking.

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.



WARNING! Pride strongly recommends that you do not smoke cigarettes while seated in your power chair, although the power chair has passed the necessary testing requirements for cigarette smoking. You must adhere to the following safety guidelines if you decide to smoke cigarettes while seated in your power chair.

- Do not leave lit cigarettes unattended.
- Keep ashtrays a safe distance from the seat cushions.
- Always make sure cigarettes are completely extinguished before disposal.

Electromagnetic and Radio Frequency Interference (EMI/RFI)



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

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



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



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

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

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

III. YOUR POWER CHAIR

THE QUANTUM JAZZY 1420

The Quantum Jazzy 1420 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 castor wheels, two batteries and wiring harnesses.

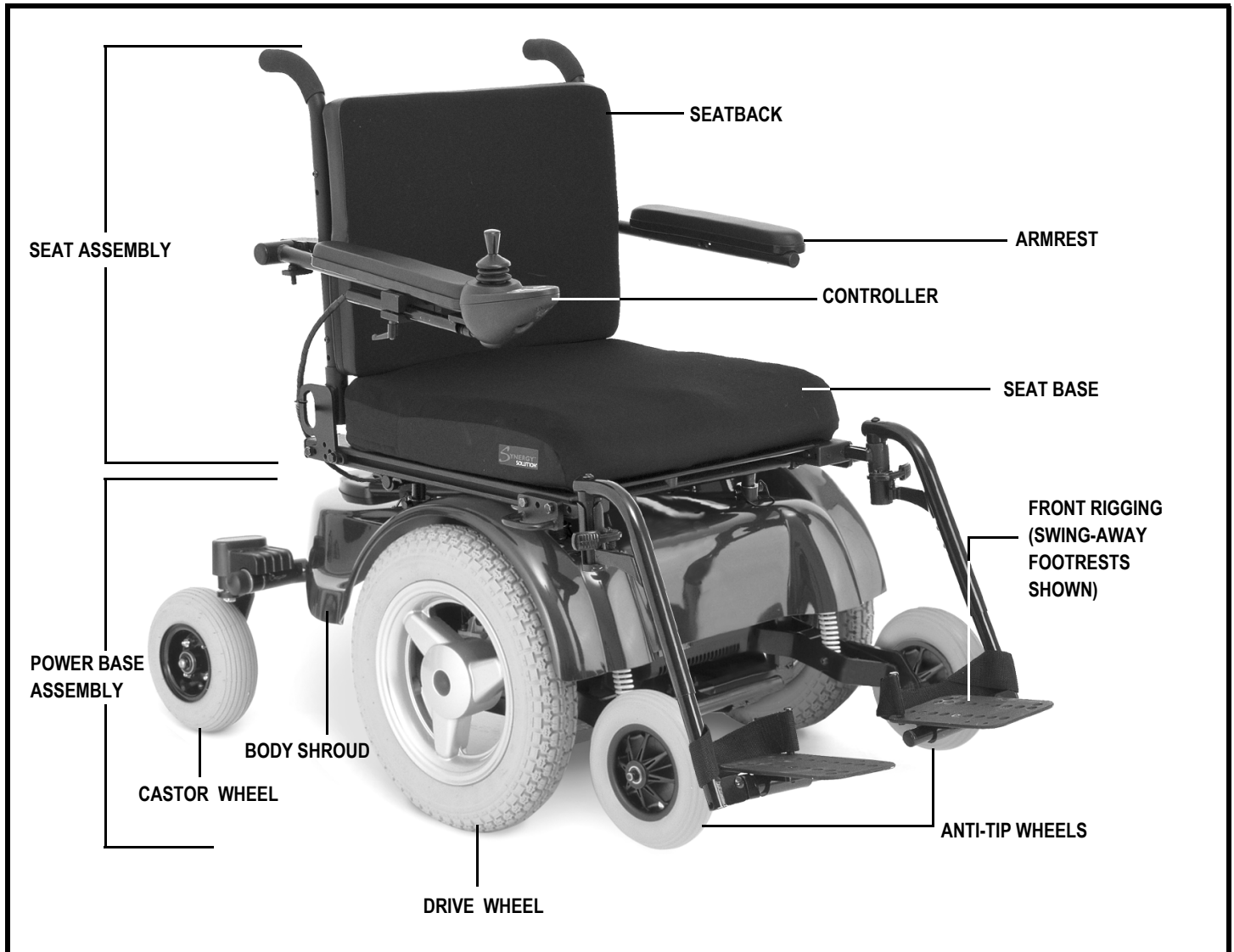


Figure 5. The Quantum Jazzy 1420

III. YOUR POWER CHAIR

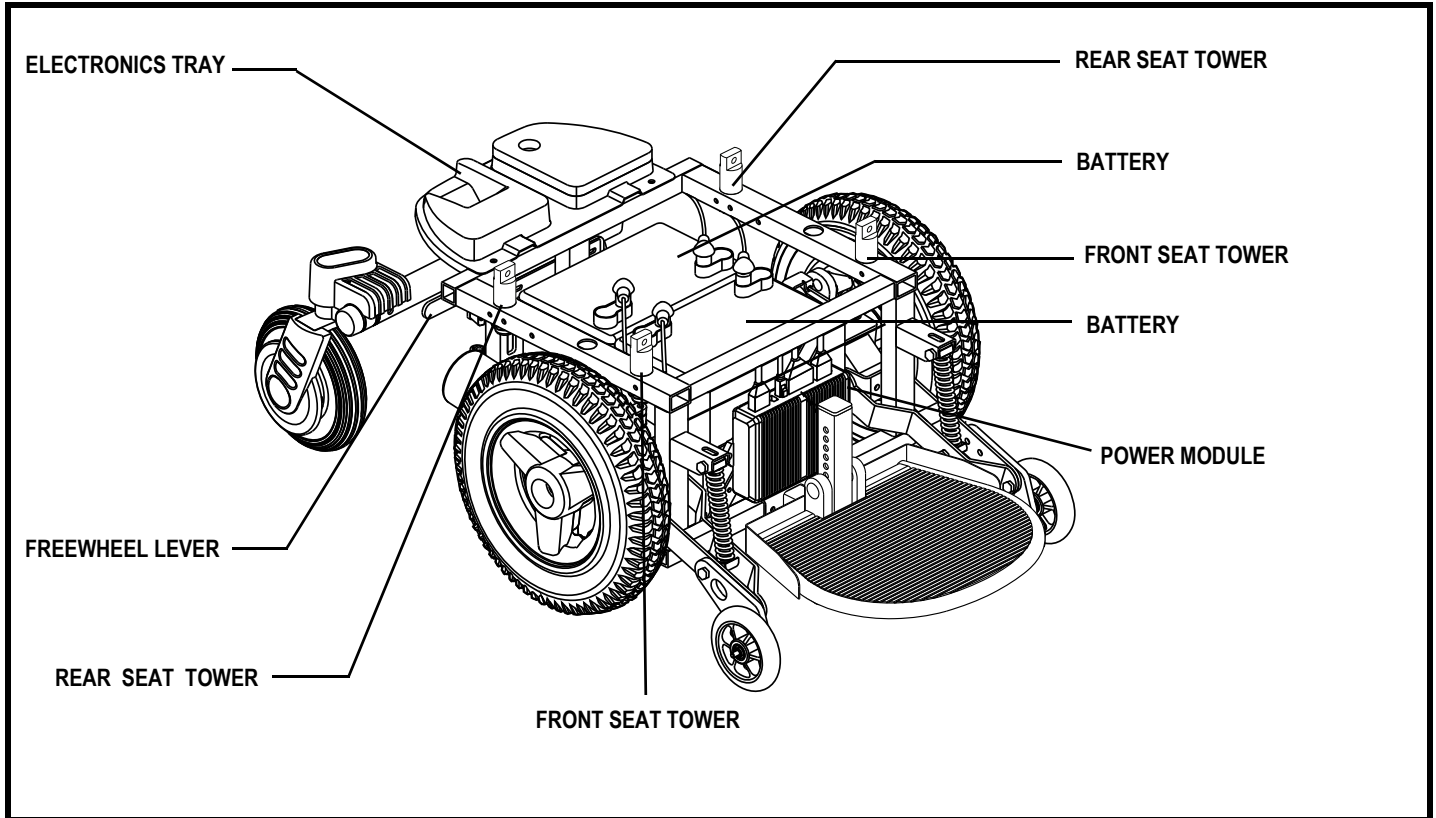


Figure 6. The Quantum Jazzy 1420 Power Base (Shroud Removed)

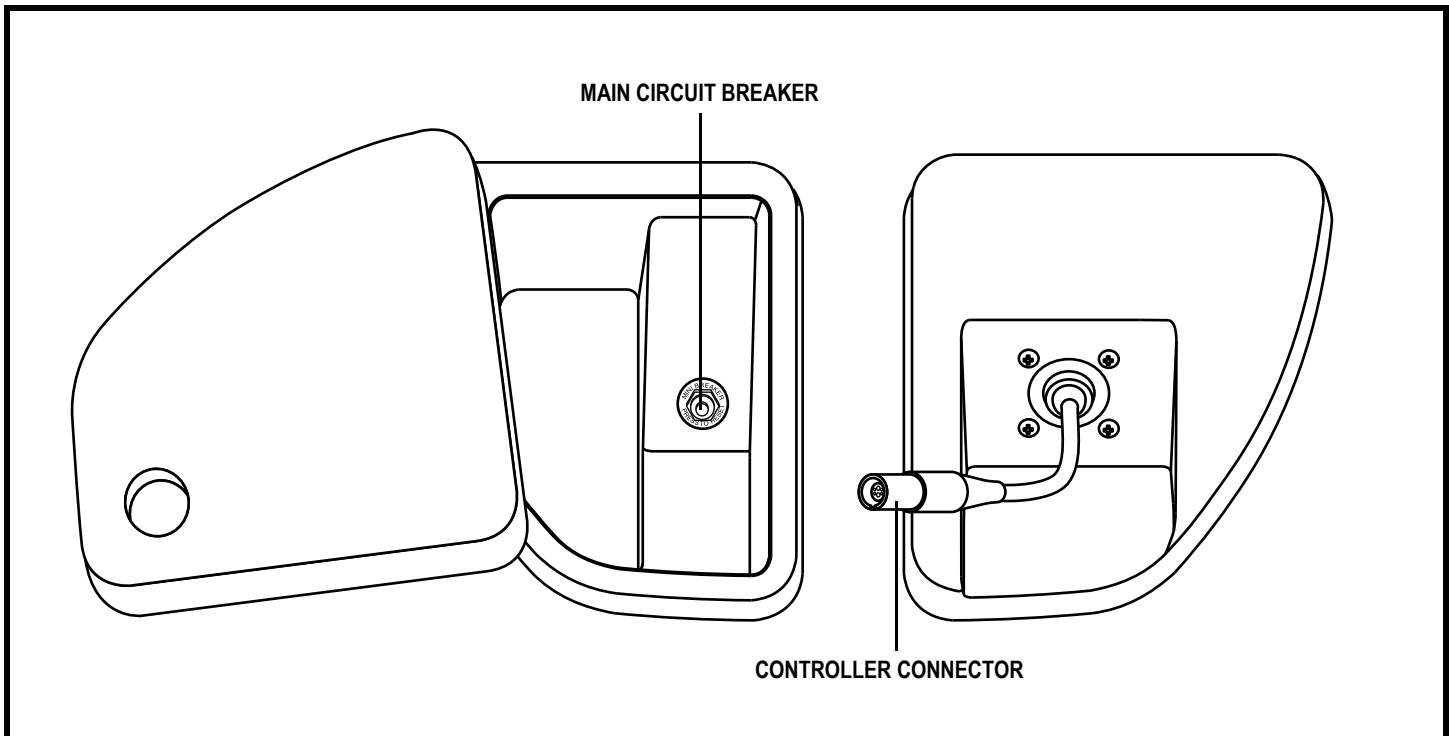


Figure 7. The Quantum Jazzy 1420 Electronics Tray

III. YOUR POWER CHAIR

Electronics Tray

The electronics tray is located on the back of the power base. See figures 6 and 7.

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 reset button, turn on the controller and continue normal operation. If the main circuit breaker continues to trip repeatedly, contact your Quantum Rehab Dealer.

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

Lighting System Connector (Not Shown): This is where the lighting system connects to the power base. Standard lighting systems consist of headlights and taillights and have a single pin connector. Full lighting systems consist of headlights, taillights and turn indicators, and use a 3-pin connector.

Active-Trac Suspension

Your Quantum Jazzy 1420 is equipped with Active-Trac Suspension (ATS). ATS is a 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 manoeuvre over obstacles.

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 the 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 mid-wheel drive chairs.

III. YOUR POWER CHAIR

Manual Freewheel Lever

For your convenience, your power chair is equipped with a manual freewheel lever. See figures 8 and 9. This lever allows you to disengage the drive motors and manoeuvre the chair manually.



WARNING! Do not use your power chair while the drive motors are disengaged! Do not disengage the drive motors when your power chair is on an incline or decline, as the unit could roll on its own! Only engage the freewheel mode when on a level surface.



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

To operate the manual freewheel lever:

1. Pull the manual freewheel lever out and rotate clockwise for freewheel mode (drive disengaged.) See figure 8.
2. Rotate the manual freewheel lever anticlockwise for drive mode (drive motors engaged.) See figure 9.

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



WARNING! Do not use the freewheel lever handle as a tie-down point to secure this product.

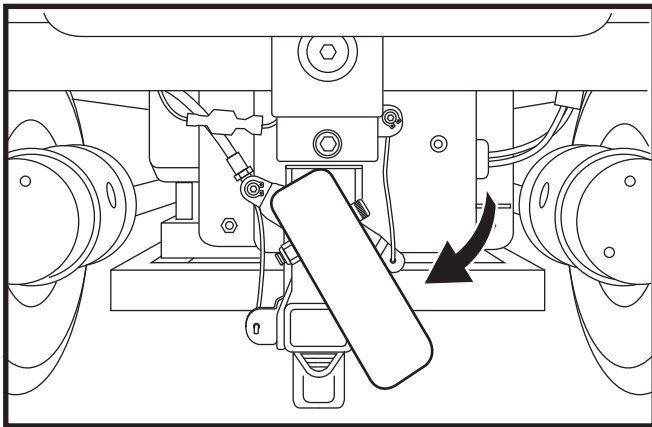


Figure 8. Freewheel Mode (Drive Disengaged)

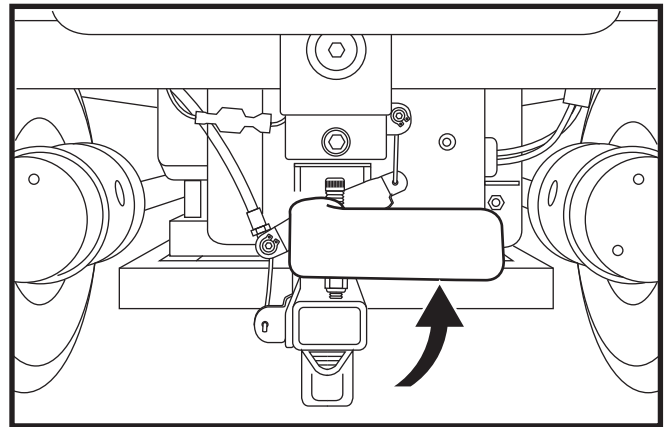


Figure 9. Drive Mode (Drive Engaged)

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 high-back seat, regardless of seat width or seat depth. The two main components are aluminum extrusions mounted to the seat base. These extrusions attach to a pair of trapeze bars that are mounted to the power base. See figure 10. If your power chair is equipped with a Synergy Seat or a TRU-Balance Power Positioning System, refer to the information 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.

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 Quantum Rehab Dealer.

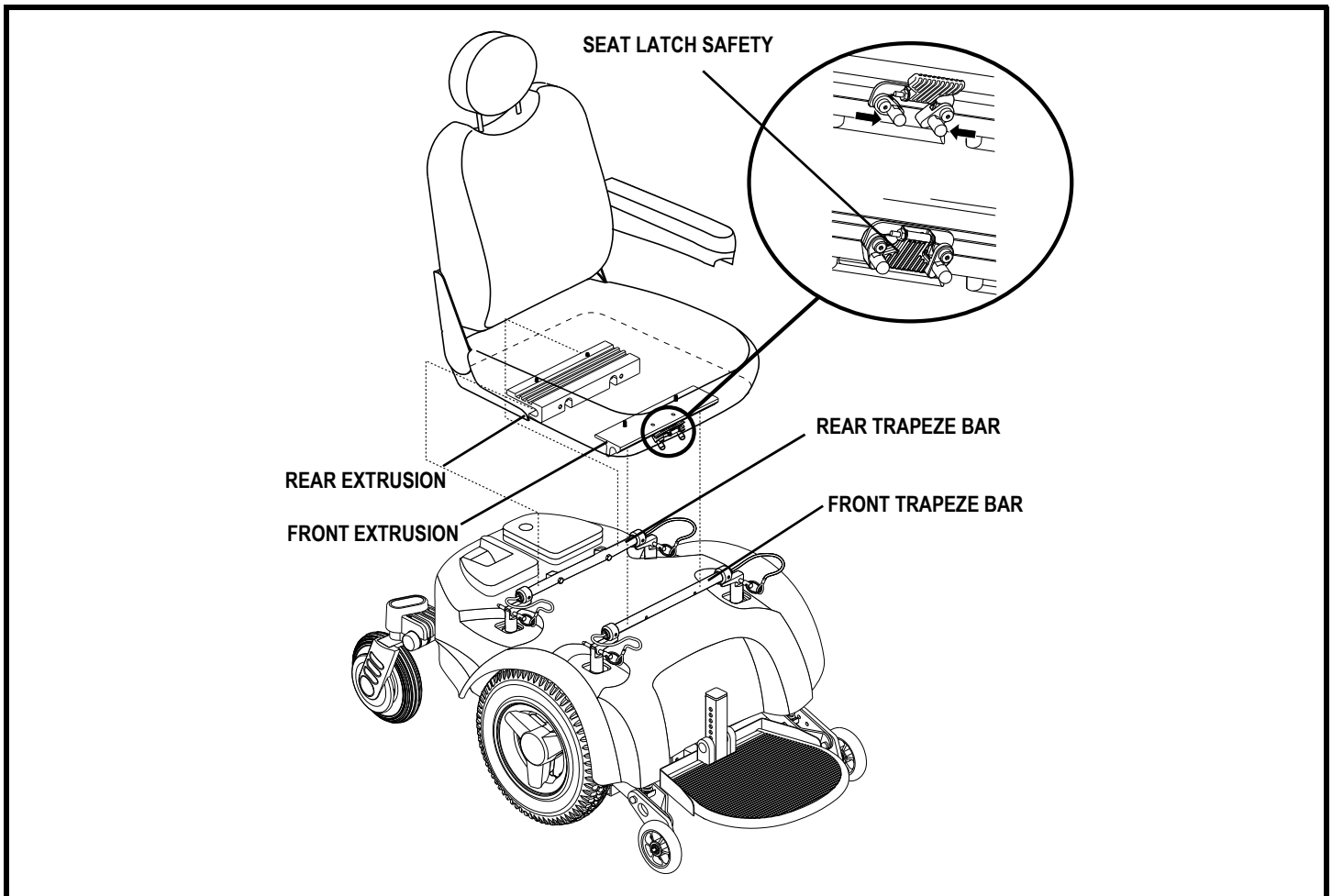


Figure 10. Seat Installation

IV. ASSEMBLY

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 figure 10.
3. Lower the front extrusion onto the front trapeze bar until the seat locks into place.
4. Flip the seat latch safety down.



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

Power Elevating Seat Installation (Optional)

Your power chair may be equipped with the 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 power base is different.

To install the power seat:

1. Align the seat shaft to the hole in the actuator. See figure 11.
2. Insert the seat shaft into the actuator and push the seat lever forward.
3. Secure the seat into place.
4. Plug the power elevating seat switch cable into the connector on the electronics tray.

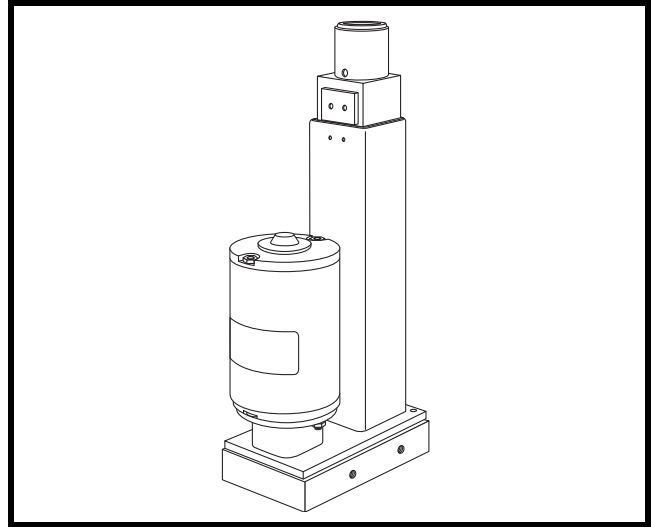


Figure 11. Power Elevating Seat Actuator

Controller Installation

Depending on the various configurations and options you have chosen for your power chair, it may have been shipped without the controller module installed in the armrest.

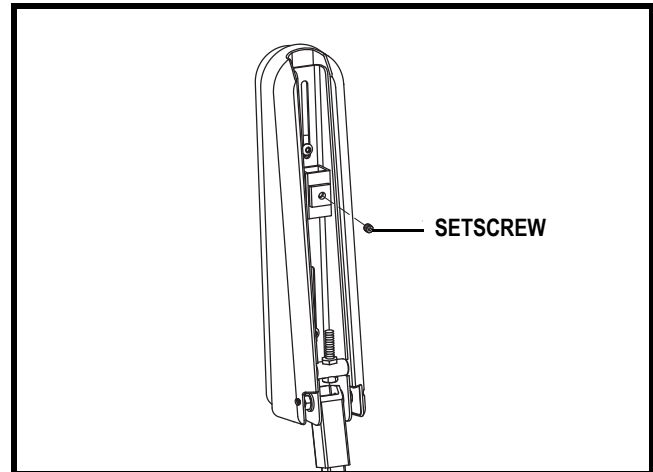


Figure 12. Controller Installation (Underside of Armrest)



MANDATORY! Prevent controller harness damage! Avoid routing the controller harness on the outside of the armrest pad. Route the harness under the armrest or toward the inside of the armrest pad. Use correct tie-down points for the controller harness to prevent the harness from getting caught in the drive tyres, pinched in the seat frame or damaged when passing through doorways.

1. Flip up either the right or left armrest.
2. On a contour seat, flip up the armrest and loosen the setscrew. See figure 12. On the standard seat, loosen the setscrews in the mounting block. See figure 20.
3. Slide the controller into the armrest.
4. Tighten the setscrew(s) and lower the armrest.
5. Route the controller harness so that it cannot be pinched in the seat hinge and secure the controller harness with wire ties. See figure 13.
6. Remove the rear lid to expose the electronics tray.
7. Plug the controller connector into the electronics tray. See figure 6.
8. Secure the controller harness to the armrest receiver with one or more wire ties.

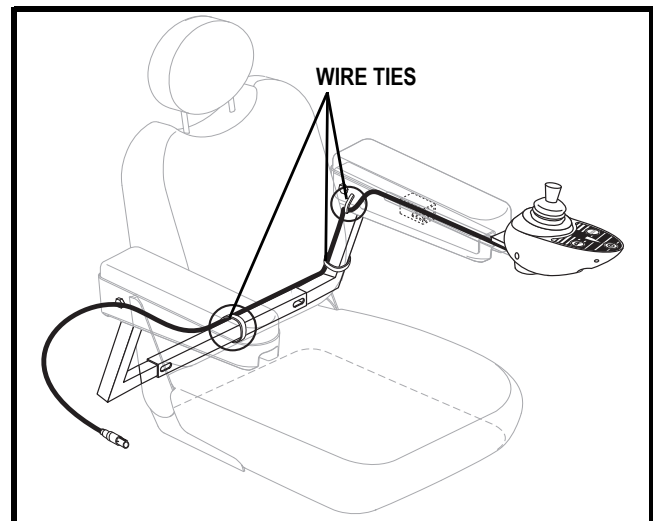


Figure 13. Controller Harness Routing on a Contour Seat

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, foot platform height and angle and controller position.

NOTE: *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! The centre of gravity of your power chair was factory set to a position that meets the needs of the demographic majority of users. Your Quantum Rehab Dealer has evaluated your power chair and made any necessary adjustments to suit your specific requirements. Do not change your seating configuration without first contacting Pride Mobility Products or your Quantum Rehab Dealer.



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

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

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 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.
2. Unplug the controller connector(s) from the electronics tray.
3. Flip up the seat latch safety. See figure 14.
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 15.
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 15.
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.

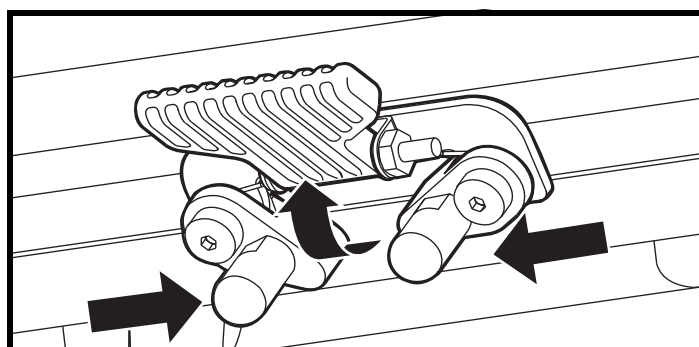


Figure 14. Seat Latch Safety (Disengaged)

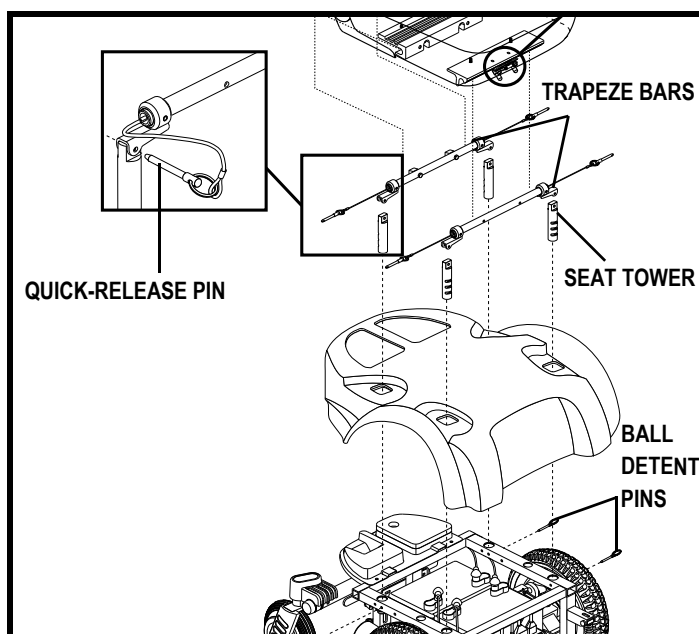


Figure 15. Seat Height Adjustment

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.
16. Secure the controller harness to the armrest receiver with one or more wire ties. See figure 13.

Seat Position Adjustment

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

To change the seat position:

1. Turn off the power to the controller.
2. Unplug the controller connector(s) from the electronics tray.
3. Remove the seat from the power base.
4. Remove both extrusions from the bottom of the seat.
5. Reposition the extrusions on a different set of mounting holes. You must move both extrusions the same number of holes either forward or rearward. See figure 16.
6. Fasten the extrusions back onto the bottom of the seat.
7. Reinstall the seat.
8. Plug the controller connector(s) into the electronics tray.

Reclining Seat Adjustment (Optional)

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

To adjust the seatback angle:

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

High-Back with Headrest Adjustment (Optional)

If your power chair is equipped with the deluxe high-back seat, you can adjust the headrest height.

To adjust the headrest height:

1. Push in the headrest release button.
2. Move the headrest up or down to the desired position.

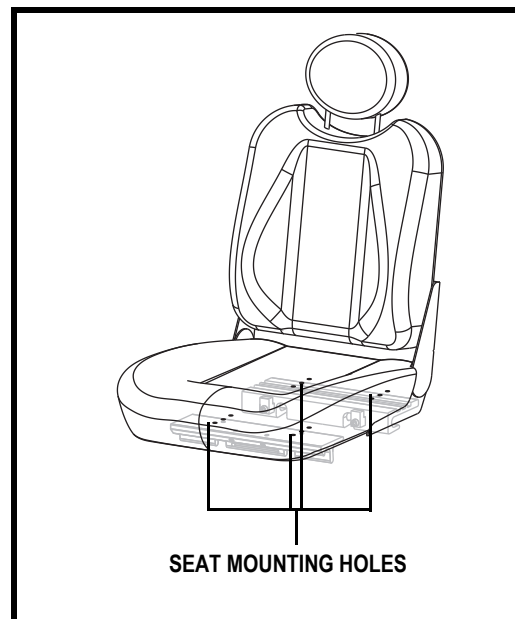


Figure 16. Seat Position Adjustment

V. COMFORT ADJUSTMENTS

Seatback Angle Adjustment

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

To adjust the seatback angle:

1. Remove the seatback angle adjustment screws on both seat hinges. See figure 17.
2. Set the seatback at the desired angle.
3. Reinstall the screws on 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 17.
2. Loosen the knobs.
3. Slide the armrests in or out to the desired width.
4. Tighten the armrest knobs.

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 17.
3. Loosen the armrest angle adjustment screw. See figure 17.
4. Turn the adjustment screw to raise or 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. Use a hex key to remove the mounting hardware from the foot platform. See figure 18.
2. Raise or lower the foot platform to the desired height.
3. Reinstall the mounting hardware into the foot platform.

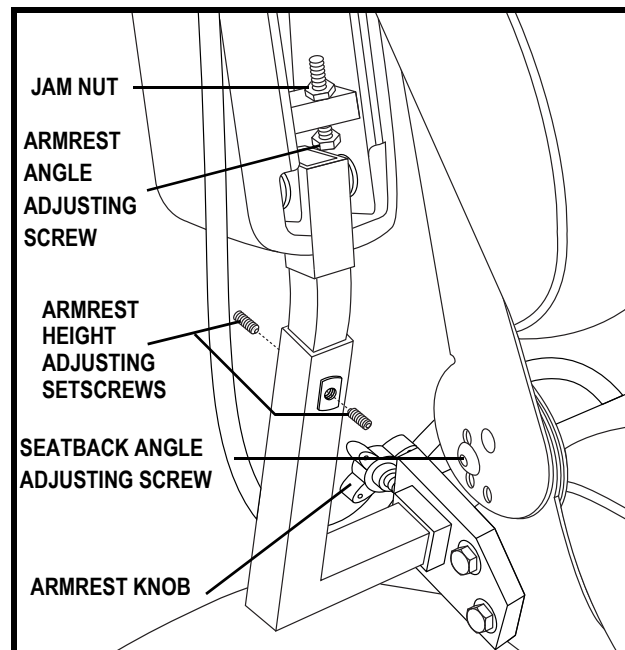


Figure 17. Seatback and Armrest Adjustments

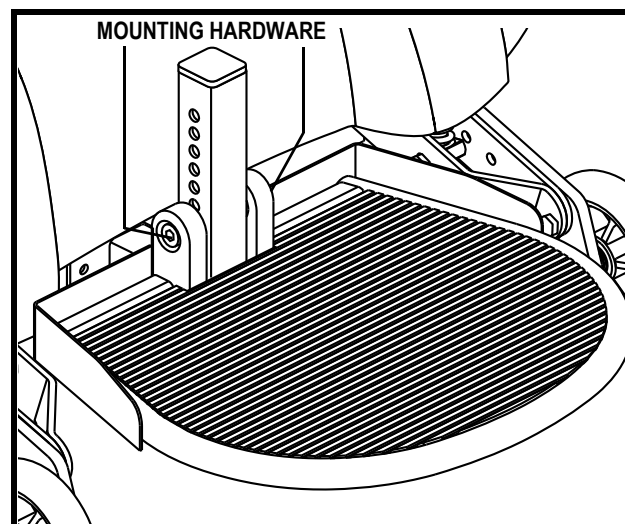


Figure 18. Foot Platform Height

V. COMFORT ADJUSTMENTS

Foot Platform Angle Adjustment

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

To adjust the foot platform angle:

1. Turn the setscrew clockwise to raise the front of the foot platform.
2. Turn the setscrew anticlockwise to lower the front of the foot platform.

Controller Position

You can move the controller in toward or out away from the armrest, or change the position of the controller for either left-hand or right-hand use.



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

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 12.
3. Slide the controller into or out of the armrest to the desired position.
4. Tighten the setscrew to secure the controller.

NOTE: If your power chair is equipped with a Specialty Seat, Synergy Seat or TRU-Balance Power Positioning System, loosen the setscrews in the mounting block, slide the controller in or out to the desired position, then tighten the setscrews. See figure 20.

To change the controller position:

1. Turn off the power to the controller.
2. Disconnect the controller from the power base.
3. Cut the wire tie(s) securing the controller harness to the armrest.
4. Flip up the armrest so it is perpendicular to the floor.
5. Loosen the setscrew on the controller bracket. See figure 12.
6. Slide the controller out of the armrest.
7. Loosen the setscrew in the other armrest.
8. Place the controller in the other armrest.
9. Tighten the setscrew to secure the controller.
10. Use a wire tie to secure the controller harness to the armrest. See figure 13.
11. Plug the controller into the power base.

NOTE: If your power chair is equipped with a Specialty Seat, Synergy Seat or TRU-Balance Power Positioning System, loosen the mounting screws in the mounting block, transfer the mounting block and controller to the opposite armrest, and tighten the mounting screws. See figure 20.

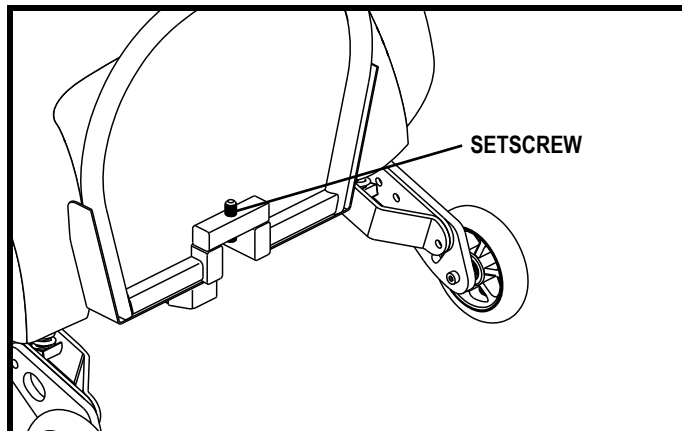


Figure 19. Foot Platform Angle

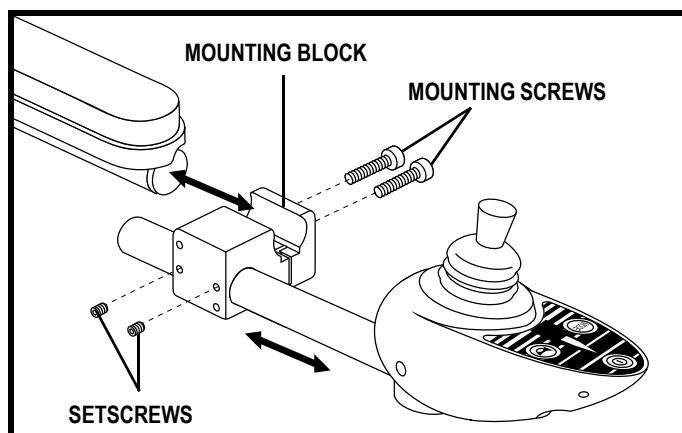


Figure 20. Adjusting Controller Position (Mounting Block Shown)

V. COMFORT ADJUSTMENTS

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 at the factory 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.

To adjust the anti-tip wheels:

1. Place a spanner on the inner locknut of the anti-tip bracket located right after the shock strut. See figure 21.
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 22.
5. Tighten the locknut.



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 Quantum Rehab Dealer 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.



WARNING! Consult your Quantum Rehab Dealer before attempting to change the anti-tip wheel height! Changing the anti-tip wheel height affects handling under deceleration!

PROHIBITED! Do not remove anti-tip wheels.

NOTE: Each drive tyre must be inflated to the psi/bar/kPa air pressure rating indicated on the tyre if equipped with pneumatic tyres. The user must also be seated in the power chair in order to properly adjust the anti-tip wheels.

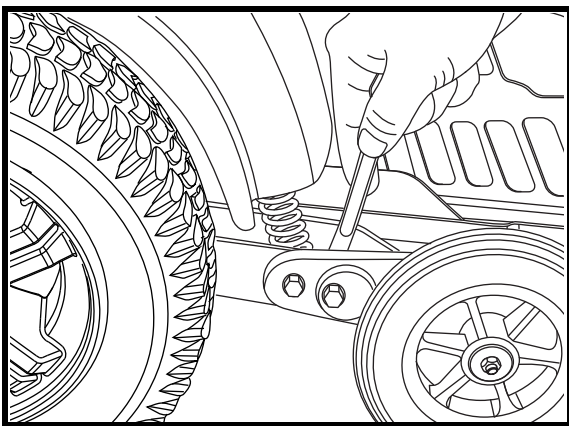


Figure 21. Anti-Tip Wheel Adjustment (Inner Locknut)

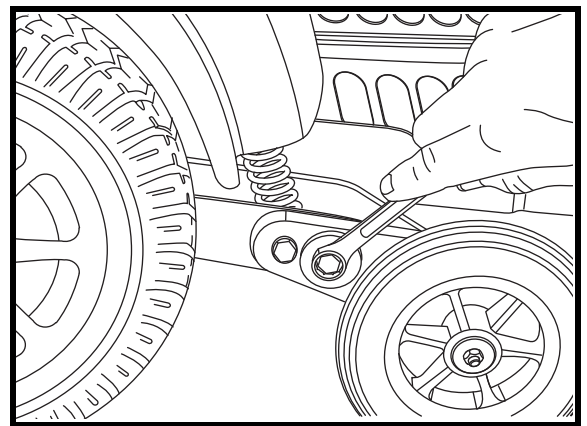


Figure 22. Anti-Tip Wheel Adjustment (Cam)

V. COMFORT ADJUSTMENTS

Power Elevating Seat (Optional)

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

To change the seat height through toggle switch:

1. Press forward on the toggle switch to raise the seat. See figure 23.
2. Pull back on the toggle switch to lower the seat.



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

NOTE: For more information on operating the power elevating seat through the controller, contact your *Quantum Rehab Dealer*.

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



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

WARNING! Never raise the power elevating seat while your power chair is in the free-wheel mode.

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

NOTE: The power elevating seat option is equipped with a system that reduces the speed of the power chair by one half when the seat is elevated more than 2.5–5 cm (1–2 in.). Always check to be sure this system is operating properly before using your power chair.

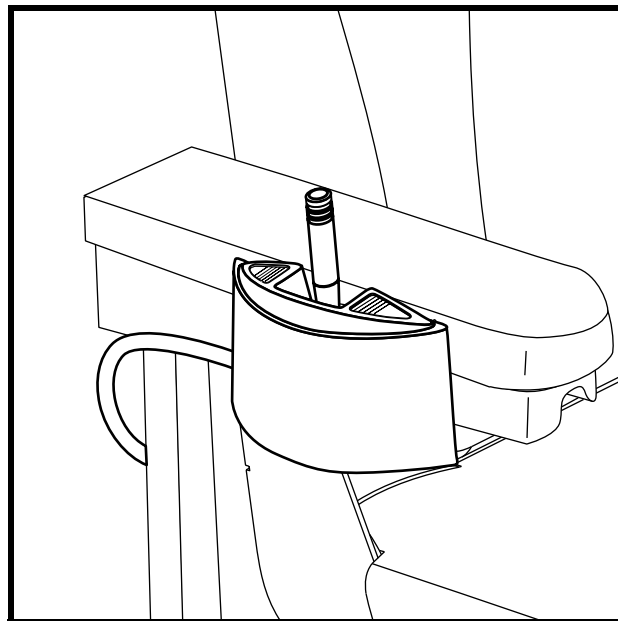


Figure 23. Power Seat Toggle Switch (Shown on Armrest)

V. COMFORT ADJUSTMENTS

Positioning Belt

Your power chair may be equipped with a positioning belt that can be adjusted for operator comfort. See figure 24. The positioning belt is designed to support the operator so that he/she does not slide down or forward in the seat. The positioning belt is not designed for use as a restraining device.

To install the positioning belt:

1. Remove the rearmost screw that holds the seat hinge to the seat base on both the left and right seat hinges.
2. Insert the screw through the supplied washer, through the positioning belt and into the seat base for each side of the power chair seat.
3. Tighten both screws.

To adjust the positioning belt for operator comfort:

1. Once seated, insert the metal tab on one side of the belt into the plastic housing on the opposite side until you hear a click. See figure 24.
2. Pull the excess strap attached to the metal tab until it is secure, but not so tight as to cause discomfort.

To release the positioning belt:

1. Press the push button mechanism on the plastic housing.



Figure 24. Positioning Belt



MANDATORY! Make sure the positioning belt is properly secured to the power chair and is adjusted for operator comfort before each use.

MANDATORY! Inspect the positioning belt for loose or damaged parts before each use of the power chair. If you discover a problem, contact your Quantum Rehab Dealer for maintenance and repair.

VI. BATTERIES AND CHARGING

BATTERIES AND CHARGING

The 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.



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



WARNING! Contact your Quantum Rehab Dealer if you have any questions regarding the batteries in your power chair.



WARNING! Do not use batteries that exceed the recommended type and amp-hour capacity. Do not use batteries with different amp-hour capacities. Refer to specifications table in this manual and in the manual supplied with the battery charger for recommended type and capacities.

Charging the Batteries

The battery charger is essential in providing long life for your power chair batteries. It is designed to optimise your power chair's performance by charging the batteries safely, quickly and easily. The battery charger is only functional when the charger power lead is plugged into an electrical outlet.



PROHIBITED! Removal of grounding prong can create electrical hazard. If necessary, properly install an approved 3-pronged adapter to an electrical outlet having 2-pronged plug access.



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



PROHIBITED! Do not allow unsupervised children to play near the power chair while the batteries are charging. Pride recommends that you do not charge the batteries while the power chair is occupied.



MANDATORY! Read the battery charging instructions in this manual and in the manual supplied with the battery charger before charging the batteries.



WARNING! Explosive gases may be generated while charging the batteries. Keep the power chair and battery charger away from sources of ignition such as flames or sparks and provide adequate ventilation when charging the batteries.

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

WARNING! Inspect the battery charger, wiring and connectors for damage before each use. Contact your Quantum Rehab Dealer if damage is found.



WARNING! Do not attempt to open the battery charger case. If the battery charger does not appear to be working correctly, contact your Quantum Rehab Dealer.

WARNING! If the battery charger is equipped with cooling slots, then do not attempt to insert objects through these slots.



WARNING! If your battery charger has not been tested and approved for outdoor use, then do not expose it to adverse or extreme weather conditions. If the battery charger is exposed to adverse or extreme weather conditions, then it must be allowed to adjust to the difference in environmental conditions before use indoors. Refer to the manual supplied with the battery charger for more information.

VI. BATTERIES AND CHARGING

To charge the batteries using the off-board charger:

1. Position the front of the power chair next to a standard electrical outlet.
2. Be certain the controller power is turned off and the power chair is in drive mode.
3. Plug the off-board charger into the off-board charger/programming socket on the controller. See figure 25.
4. Plug the off-board charger into the electrical outlet.

NOTE: *The LED lights on the charger indicate different charger conditions at various times: charger power on, charging in progress and charging complete. Refer to the manual supplied with the charger for a complete explanation of these indicators.*

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

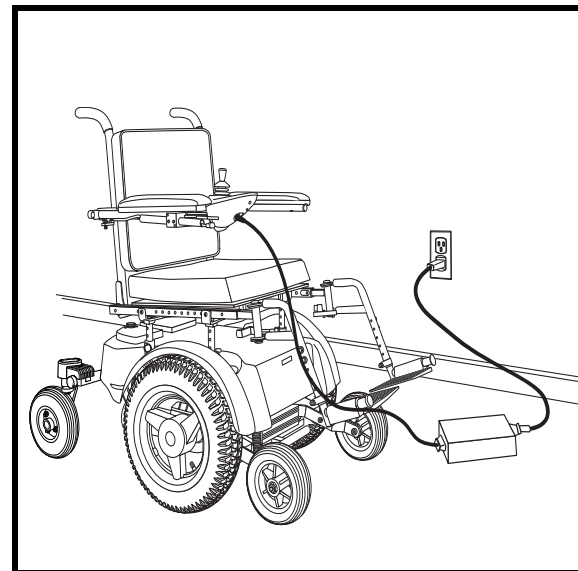


Figure 25. Battery Charging

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 (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 doesn't 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 the power chair. It is the safest, most efficient tool to charge the batteries. We do not recommend using other types of chargers (e.g., an automotive battery charger).

NOTE: *Your power chair's charger will not operate after the batteries have been discharged to nearly zero voltage. If this happens, call your Quantum Rehab Dealer 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 your power chair. Your power chair will be ready each morning to give you a full day's service. It is recommended that you charge the batteries 8 to 14 hours after daily use.

■ Infrequent Use

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

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

How can I get maximum range or distance per charge?

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

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

What type of batteries should I use?

We recommend deep-cycle batteries that are sealed and maintenance free. Both AGM and Gel-Cell are deep-cycle batteries that are similar in performance.



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

Why do my new batteries seem weak?

Deep-cycle batteries employ a much different chemical technology than that used in car batteries, nickel-cadmium (nicads) or in other common battery types. Deep-cycle batteries are specifically designed to provide power, drain down their charge and then accept a relatively quick recharge. AGM and Gel-Cell batteries should be charged as often as possible. They do not have a “memory” like nickel-cadmium batteries.

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

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

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.

VI. BATTERIES AND CHARGING

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

How should I store my power chair and its batteries?

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

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

What about public transport?

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

What about shipping?

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

VII. CARE AND MAINTENANCE

CARE AND MAINTENANCE

Your Quantum Jazzy 1420 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 a Quantum Rehab Dealer. 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 Quantum Rehab Dealer.



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

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



WARNING! Direct or prolonged 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. Power chairs should be examined periodically for signs of corrosion caused by water exposure, bodily fluid exposure or incontinence. Damaged components should be replaced or treated immediately.

Should your power chair come in contact with water:

1. Dry your power chair as thoroughly as possible with a towel.
2. Allow your power chair to sit in a warm, dry place for 12 hours to allow unseen water to evaporate.
3. Check the joystick operation and the brakes before using your power chair again.
4. If any inconsistencies are found, take your power chair to a Quantum Rehab Dealer. Power chairs that are frequently exposed to sources of water, such as incontinence, should be inspected often for corrosion and electronic components may need to be replaced frequently.

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.

General Guidelines

- Avoid knocking or bumping the controller, especially the joystick.
- Avoid prolonged exposure of your power chair to extreme conditions, such as heat, cold or moisture.
- Keep the controller clean.
- Check all connectors to ensure that they are all tight and secured properly.
- Make sure pneumatic tyres are inflated to the psi/bar/kPa air pressure rating indicated on the tyre.



WARNING! Make sure your tyres are inflated to the psi/bar/kPa air pressure rating indicated on the tyre for pneumatic tyres. 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.

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

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



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

VII. CARE AND MAINTENANCE

- All wheel bearings are prelubricated and sealed. They require no subsequent lubrication.
- 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.



WARNING! Even though the power chair has passed the necessary testing requirements for ingress of liquids, you should keep electrical connections away from sources of dampness, including direct exposure to water or bodily fluids and incontinence. Check electrical components frequently for signs of corrosion and replace as necessary.

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 Quantum Rehab Dealer if there is a problem.
- Visually inspect the controller harness. Make sure that it is not frayed, cut or has any wires exposed. See your Quantum Rehab Dealer if there is a problem with any harnesses.
- Check for flat spots on solid tyres. Flat spots could adversely affect stability.
- Inspect the armrests for loose hardware, stress points or damage. See your Quantum Rehab Dealer if there is a problem.

Weekly Checks

- Disconnect and inspect the controller from the power base. Look for corrosion. Contact your Quantum Rehab Dealer if necessary.
- Ensure that all parts of the controller system are securely fastened to your power chair. Do not overtighten any screws.
- Check for proper tyre inflation. If a tyre does not hold air, see your Quantum Rehab Dealer for replacement of the tube.
- Check the brakes. This test should be carried out on a level surface with at least 1 metre (3 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 rearward, then left and then right.

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 a Quantum Rehab Dealer for repair.
- Check the rear castors 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 a Quantum Rehab Dealer for repair.
- Keep your power chair clean and free of foreign material, such as mud, dirt, hair, food, drink, etc.

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Yearly Checks

Take your power chair to a Quantum Rehab Dealer for yearly maintenance, especially if you use your power chair on a daily basis. This helps ensure that your power chair is functioning properly and helps prevent future complications.

Storage

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



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

Batteries that are regularly and deeply discharged, infrequently charged, stored in extreme temperatures or stored without a full charge may be permanently damaged, causing unreliable performance and limited service life. It is recommended that you charge the batteries periodically throughout periods of prolonged storage to ensure proper performance.

You may wish to place several boards under the frame of your power chair to raise it off of the ground during periods of prolonged storage. This takes the weight off of the tyres and reduces the possibility of flat spots developing on the areas of the tyres contacting the ground.

Disposal of Your Power Chair

Your power chair must be disposed of according to applicable local and national statutory regulations. Contact your local waste disposal agency or Quantum Rehab Dealer for information on proper disposal of power chair packaging, metal frame components, plastic components, electronics, batteries, neoprene, silicone and polyurethane materials.

Cleaning Instructions

- Use a damp cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your power chair. Avoid using products that may scratch the surface of your power chair.
- If necessary, clean your product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application.

WARNING! Follow all safety instructions for the proper use of the disinfectant and/or cleaning agent before applying it to your product. Failure to comply may result in skin irritation or premature deterioration of upholstery and/or power chair finishes.



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 replace the entire wheel assembly. Replacement tyres, tubes and wheel assemblies are readily available through your Quantum Rehab Dealer.

WARNING! The wheels on your power chair should only be serviced or replaced by a Quantum Rehab Dealer or a qualified technician.



WARNING! Be sure that the controller's power is turned off and the power chair is not in free-wheel mode before performing this procedure.

WARNING! When changing a tyre, remove only the centre lug nut and washer, then remove the wheel. If any further disassembly is required, deflate the tyre completely or it may explode.

VII. CARE AND MAINTENANCE

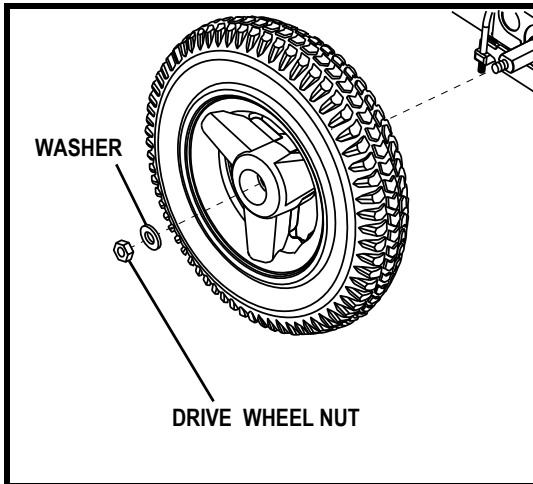


Figure 26. Drive Wheel Removal

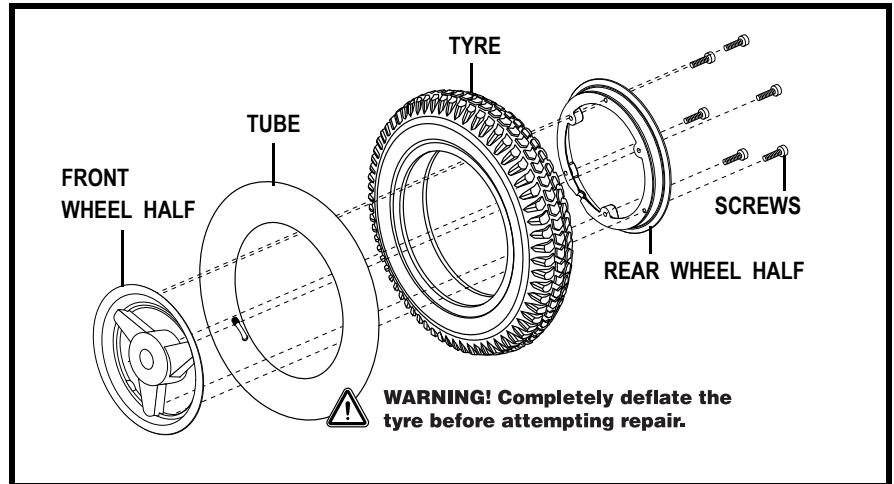


Figure 27. Drive Wheel Disassembly

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 26.
5. Pull the wheel off the axle.
6. Remove the screws from the rim assembly and separate the front and rear rim. See figure 27.
7. Remove the old tube from the pneumatic tyre and replace it with a new tube or replace the entire solid wheel assembly.
8. Reassemble the rims and reinstall the screws.
9. Slide the wheel back onto the axle.
10. Reinstall the drive wheel nut and washer onto the axle and tighten.
11. Inflate the pneumatic tyre to the psi/bar/kPa air pressure rating indicated on each tyre.
12. Remove the power chair from the blocks.

Battery Replacement

A battery wiring diagram is printed on a decal located on the power chair frame near the battery tray. See VI. "Batteries and Charging" for correct battery specifications.



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

WARNING! The batteries in your power chair should only be serviced or replaced by a Quantum Rehab Dealer or a qualified technician.

WARNING! Do not replace batteries when seat is occupied.



WARNING! Power chair batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help. Use proper lifting techniques and avoid lifting beyond your capacity.

WARNING! Do not mix old and new batteries. Always replace both batteries at the same time.

VII. CARE AND MAINTENANCE

To replace the batteries:

1. Turn off the power to the controller.
2. Make sure that the power chair is in drive mode. See III. "Your Power Chair."
3. Unplug the controller connector(s) 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 inward. 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. See figure 28.

9. Looking at the power base from the front, connect the red wire from the left side to the positive (+) terminal on the rear 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.

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

When to See Your Quantum Rehab Dealer for Service

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

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

Corrective Maintenance

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

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

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



Figure 28. Battery Wiring Diagram Label

VIII. WARRANTY

LIFETIME WARRANTY

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

TWO-YEAR LIMITED WARRANTY

Drivetrain, including: motor and brake.

EIGHTEEN-MONTHS LIMITED WARRANTY

Controllers: Any attempt to open or dismantle these parts will lead to this warranty being void.

ONE-YEAR LIMITED WARRANTY

All electrical parts, including battery chargers, are covered for one year under warranty. Any attempt to open or dismantle these parts will lead to this warranty being void.

BATTERIES

Batteries are covered by a twelve-month warranty from the original manufacturer.

NOT COVERED UNDER WARRANTY

The following parts are classed as wear items, which may, under normal wear and tear, require replacing. These items are **not** therefore covered under warranty: tyres, positioning belts, bulbs, upholstery, plastic shrouds, motor brushes, fuses and batteries. Warranty will also be refused if damage is deemed to have been caused through misuse or accident for which Pride Mobility Products Ltd. cannot be deemed responsible.

NOTE: Pride Mobility Products Ltd. provides parts only under warranty. Your Quantum Rehab Dealer is responsible for labour and service. Please contact your Quantum Rehab Dealer for information about these services and for any applicable charges.

APPENDIX I - SPECIFICATIONS

SPECIFICATIONS

Class of Use:	B
Suspension:	Active-Trac Suspension with Rear Suspension
Drive Wheels:	41 cm (16 in.), pneumatic, centre-mounted (<i>solid tyres are optional</i>)
Castor Wheels:	23 cm (9 in.), pneumatic, rear articulating (<i>solid tyres are optional</i>)
Anti-tip Wheels:	20 cm (8 in.), solid, front mounted
Maximum Speed: ¹	Up to 6 km/h (4 mph) Up to 10 km/h (6 mph) with high-speed motors
Brakes:	"Intelligent Braking," electronic regenerative, disc park brake
Ground Clearance: ²	See figure 29.
Maximum Safe Slope:	10.5% (6°)
Maximum Climbing Ability:	10.5% (6°)
Maximum Obstacle Climbing Ability:	5 cm (2 in.)
Turning Radius: ²	See figure 29.
Overall Size: ²	Length: See figure 29. Width: See figure 29.
Drivetrain:	Two motor, mid-wheel drive
Batteries: ³	Two 12-volt, Group 24 batteries Two 12-volt, NF-22 batteries (<i>Power Elevating Seat Option</i>)
Range: ^{1, 4}	Up to 40 km (25 miles)
Battery Charger:	8-amp, off-board
Weight Capacity: ³	193 kg/30 stone/425 lbs. with high-speed motors 227 kg/36 stone/500 lbs. with high-torque motors 136 kg/21 stone/300 lbs. with TRU-Balance Power Positioning Systems, Synergy Manual Recline and Power Elevating Seat 73 kg/11 stone/160 lbs. with Synergy Manual Tilt
Component Weights:	Base: 62 kg (136 lbs.) Seat: 19 kg (42.5 lbs.) Batteries: 24 kg (53.5 lbs.) each

¹ Varies with base model, user weight, terrain type, battery amp hour rating (Ah), battery charge, battery condition, motors, controller type, tyre type and tyre condition. This specification can be subject to variance of (+ or -) 10%.

² Due to manufacturing tolerances and continued product improvement, this specification can be subject to variance of (+ or -) 3%.

³ AGM or Gel-Cell type required. See VI. "Batteries and Charging."

⁴ Tested in accordance with ASNI/RESNA WC Vol 2, Section 4 and ISO 7176-4 standards. Results derived from theoretical calculation based on battery specifications and drive system performance. Test conducted at maximum weight capacity.

NOTE: This product conforms to all applicable ANSI/RESNA testing requirements and ISO 7176 Series EN12184 standards. All specifications subject to change without notice.

APPENDIX I - SPECIFICATIONS

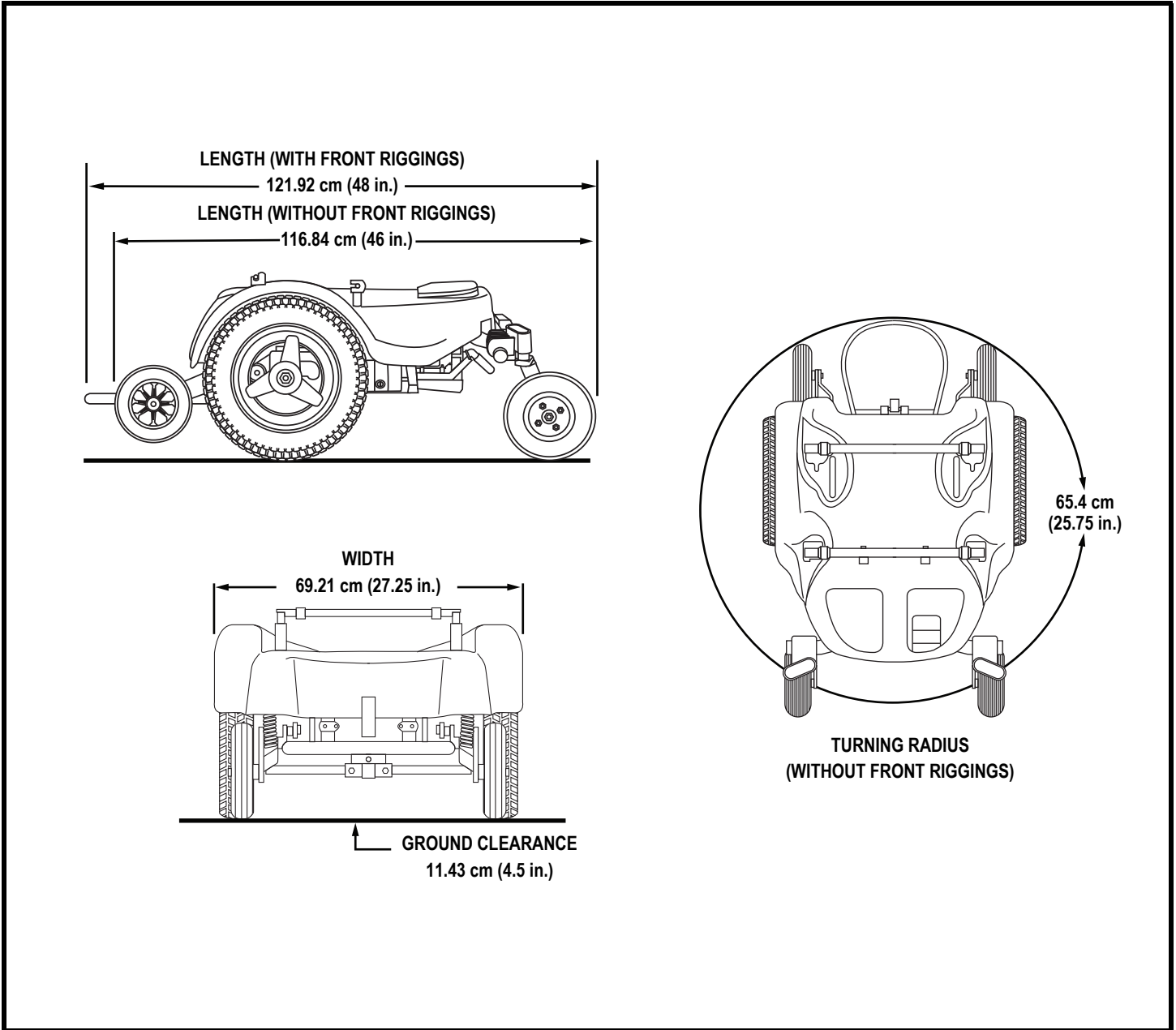


Figure 29. Quantum/Jazzy 1420 Dimensions and Ground Clearance

NOTES

Quality Control - Quantum Jazzy 1420

Inclusion of all Parts

Joystick Serial Number

Controller Serial Number

Left Motor Serial Number

Right Motor Serial Number

Fit and Finish

Performance



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

Date Inspected

Inspector

*** I NFMANU1350***

Serial Number