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I. INTRODUCTION

SAFETY

WELCOME to Pride Mobility Products (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 provider, caretaker, 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 authorized 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, and may void 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 authorized Pride Provider 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 authorized 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:

USA:
Pride Mobility Products Corporation
Attn.: Customer Care Department
182 Susquehanna Avenue
Exeter, PA 18643-2694
info@pridemobility.com
1-800-424-8205

Canada:
Pride Mobility Products Company
380 Vansickle Road Unit 350
St. Catharines, Ontario L2R 6P7
1-888-570-1113

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 battery is charging.

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

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

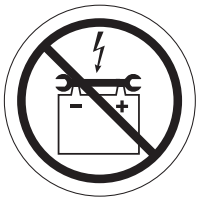
Avoid exposure to rain, snow, ice, salt, or standing water whenever possible. Maintain and store in a clean and dry condition.

Wear safety goggles.

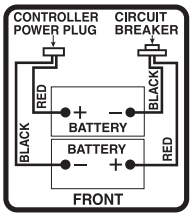
Corrosive chemicals contained in battery.

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 the battery terminals. Contact with tools can cause electrical shock.



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

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.

Contains Lead.

Disposal and recycling — Contact your authorized Pride Provider for information on proper disposal and recycling of your Pride product and its packaging.

Do not expose to heat source such as open flame or sparks. Do not transport batteries with flammable or combustible items.

Positioning Belts

Your authorized 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 in order to reduce the possibility of a 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."

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

WARNING! Power chair batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help. 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 the 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. Pride recommends use of only solid, non-removable frame components to lift or move your power chair.

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.

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 center 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 center of gravity and the weight distribution of the power chair. This may cause your power chair to tip.

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

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 caster wheels toward the transfer destination to improve power chair stability during transfer.
- Make sure both armrests are flipped up or removed from your power chair.
- Flip up the foot platform or move the leg rests aside; this will help to keep your feet from getting caught on the 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 and personal injury.

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.

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.

Flammability Precautions

WARNING! Even though the plastics used on your power chair have been tested and have passed the applicable flammability standards, Pride recommends that you do not expose your power chair to open flames.

WARNING! Replace worn or damaged upholstery immediately to reduce the risk of fire hazard.

WARNING! Be aware that washing of upholstered items may reduce the resistance to flammability of the fabric.

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 authorized 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. Call Pride at 1-800-424-8205 to report the incident.

THE JAZZY 1170 XL PLUS SERIES POWER CHAIR

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.

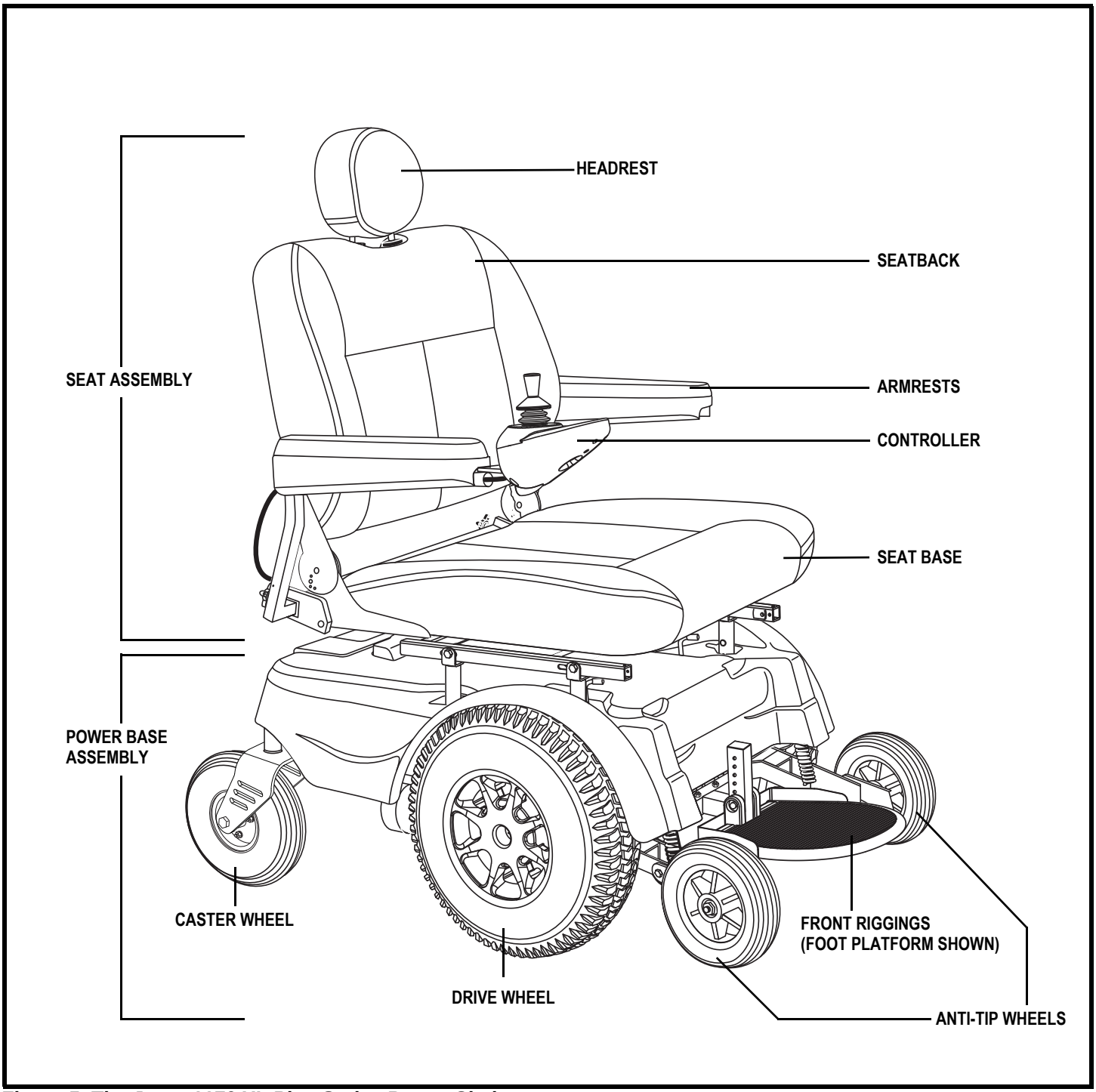


Figure 5. The Jazzy 1170 XL Plus Series Power Chair

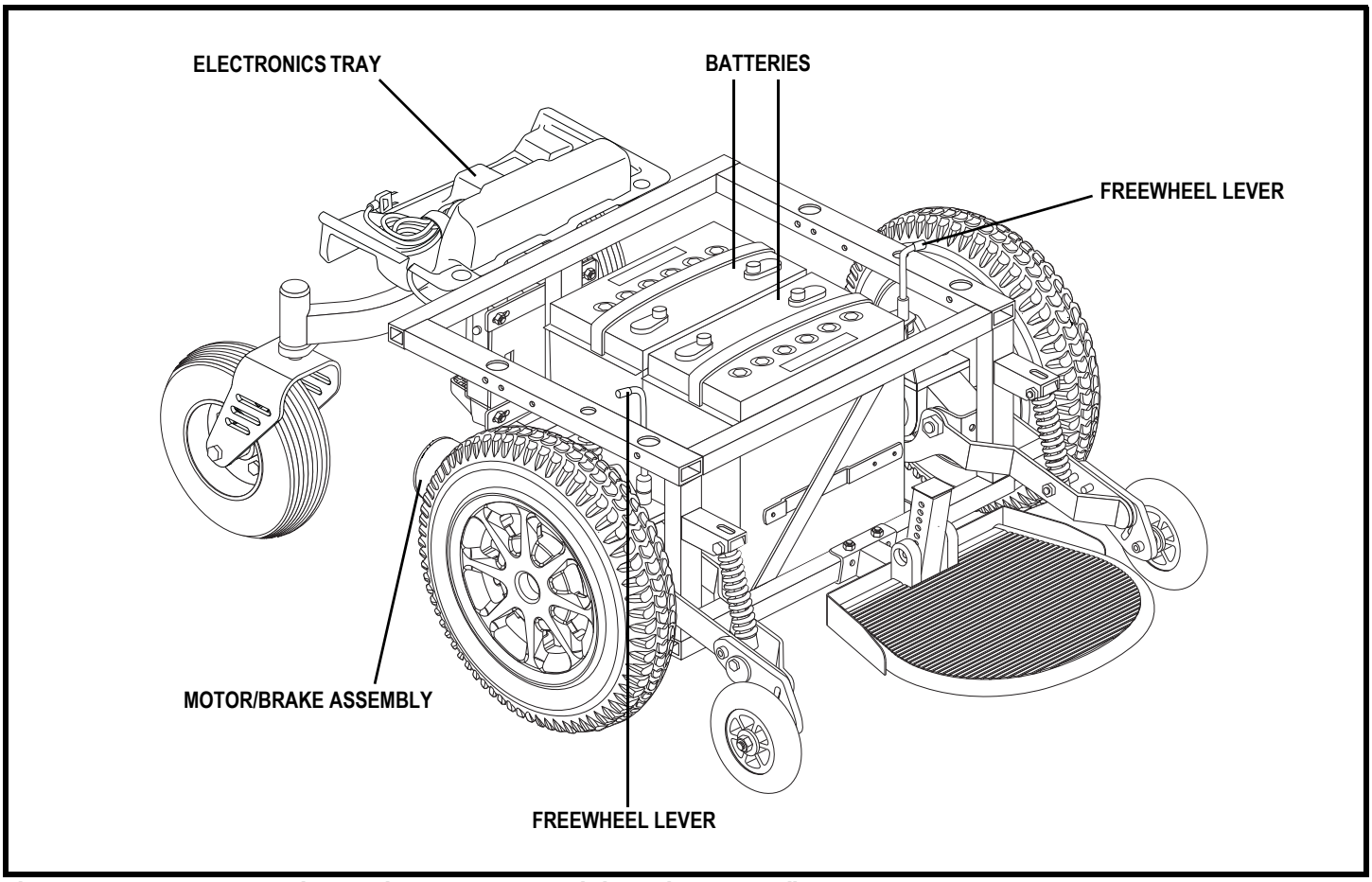


Figure 6. Jazzy 1170XL Plus Series Power Base (Shroud Removed)

Electronics Tray

The electronics tray is located on the back of the power base. **See figure 6.** The main circuit breaker and controller connectors are located on the electronics tray.

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 authorized Pride Provider.

Controller Connector: This is where the controller connects to the power base. Each controller uses a different type of harness. Regardless of which type of controller is used, the harness must be secured to the seat assembly and not allowed to drag on the floor.

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 Suspension

The power chair is equipped with an Active-Trac Suspension (ATS). ATS is a suspension system designed to make the 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 3 in. (7.62 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 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, the 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.

Manual Freewheel Levers

For your convenience, your power chair is equipped with two manual freewheel levers. **See figures 7 and 8.** These levers allow you to disengage the drive motors and maneuver 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 engage or disengage the freewheel feature:

1. Turn the freewheel levers outward to disengage the drive motors (freewheel mode). **See figure 7.**
2. Turn the freewheel levers inward to engage the drive motors (drive mode). **See figure 8.**

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.

WARNING! Do not use the freewheel lever handles as tie-down points to secure this product.

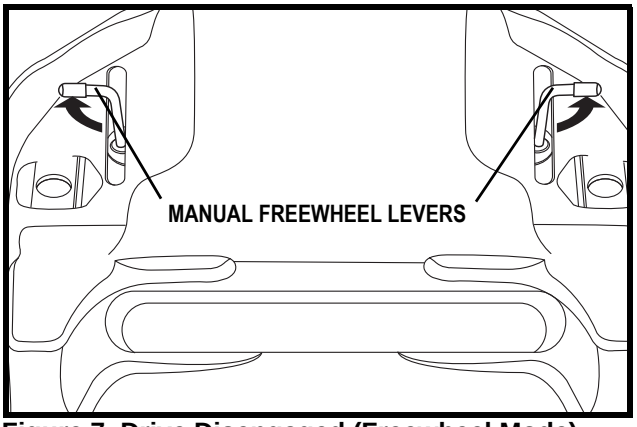


Figure 7. Drive Disengaged (Freewheel Mode)

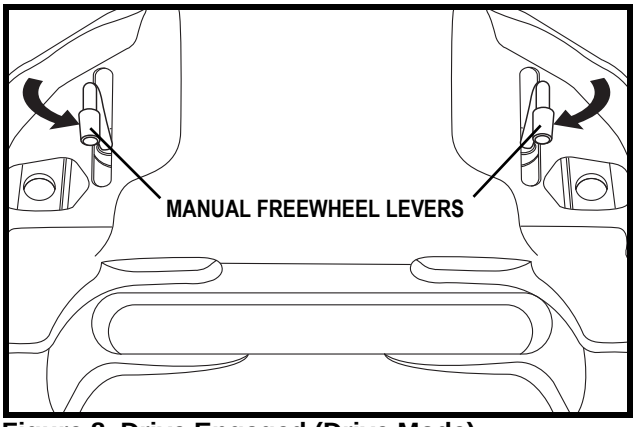


Figure 8. Drive Engaged (Drive Mode)

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 9** details those parts of the power chair that are designed to be disassembled and assembled by an end user or by a qualified caregiver 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 authorized Pride Provider.

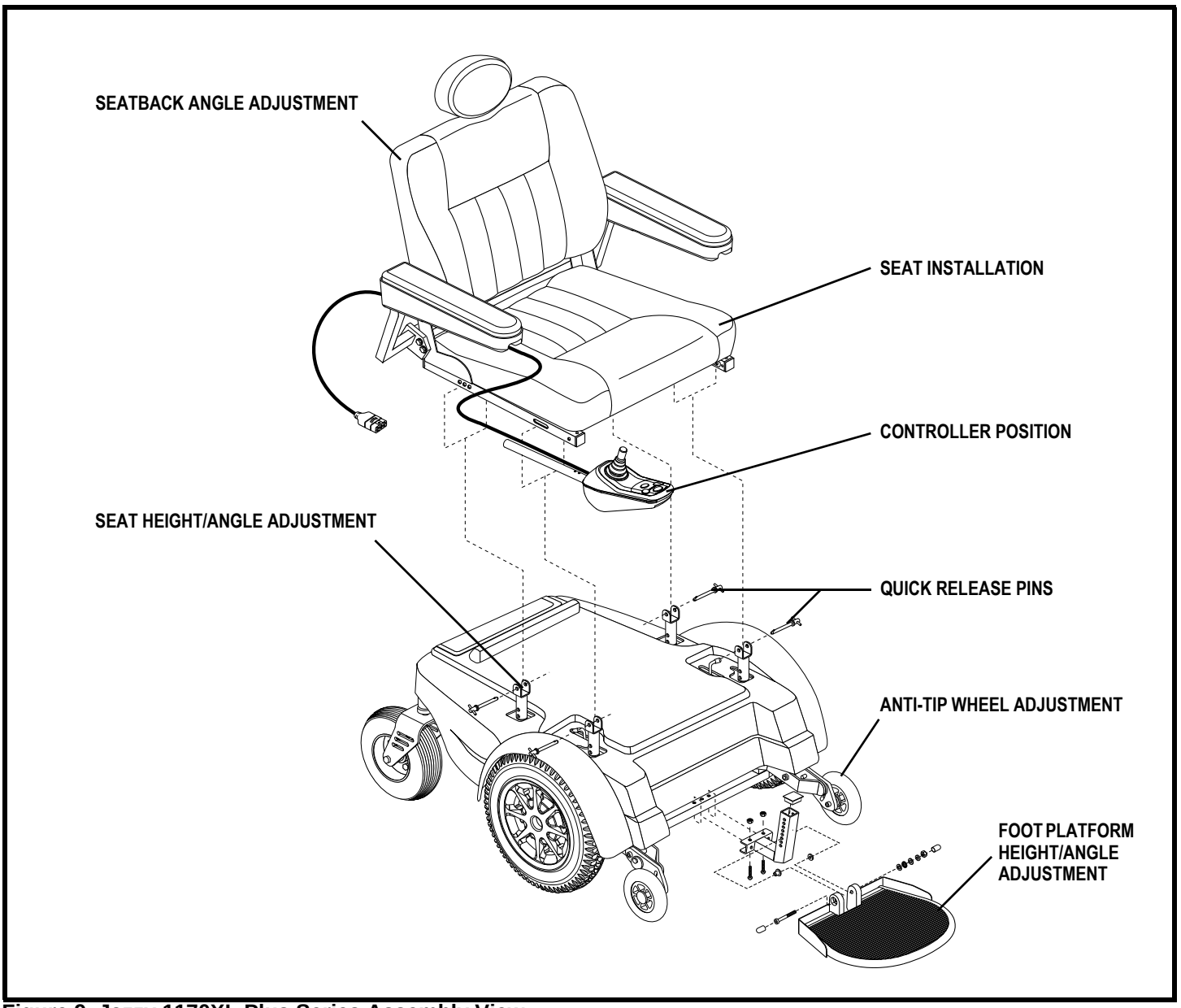


Figure 9. Jazzy 1170XL Plus Series Assembly View

Seat Installation

The standard seat installation method incorporates the seat frame and four adjustable seat posts located on the power base.

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.

To install the seat:

1. Make sure the power chair is in drive mode. **See figure 8.**
2. Remove the quick release pins from each of the four seat towers. **See figure 9.**
3. Set the seat on the seat towers.
4. Install the quick release pins back into the seat towers.
5. Install the controller into the desired armrest.
6. Plug the controller harness into the connector on the electronics tray.
7. Route the controller harness so that it cannot be pinched in the seat hinge.

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 tires, pinched in the seat frame, or damaged when passing through doorways.

8. Secure the controller harness to the armrest receiver with one or more wire ties. **See figure 10.**

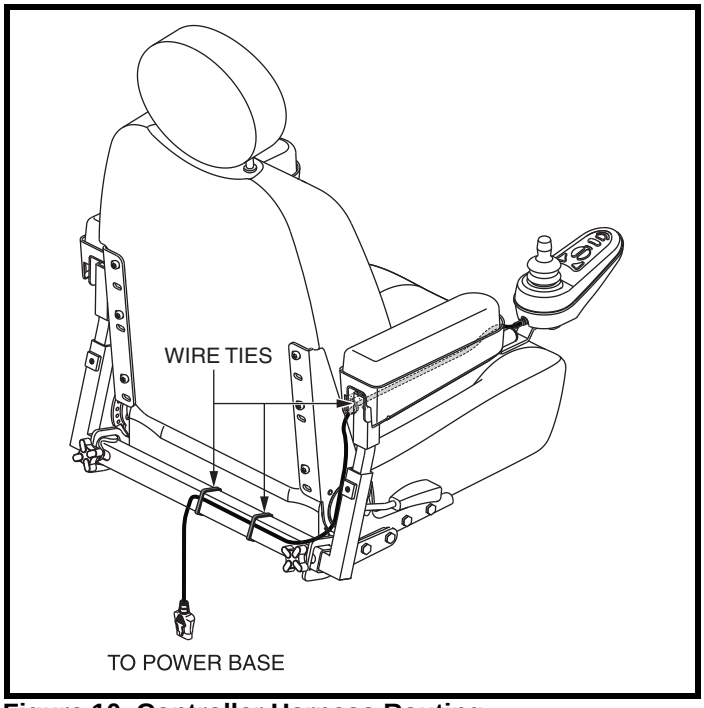


Figure 10. Controller Harness Routing

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 Seating System, refer to the seat adjustment information contained in separate manuals. If your power chair is equipped with a contoured seating system, refer to the following information.

WARNING! The center of gravity of your power chair was factory set to a position that meets the needs of the demographic majority of users. Your authorized Pride Provider has evaluated your power chair and made the necessary adjustments to suit your specific requirements. Do not change your seating configuration without first contacting Pride Mobility Products or your authorized Pride Provider.

WARNING! Some power chair components are heavy. You may need assistance to lift or carry them. Please refer to the specification 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 wrench

Seat Height and Seat Angle Adjustment

There are four seat towers that connect the seat to the power base. You can change the seat height to one of three positions by raising the seat towers. If you raise or lower only one set of seat towers (front or rear), you can also change the seat base angle.

To change the seat height or seat angle:

1. Turn off the power to the controller.
2. Make sure the power chair is in drive mode. **See figure 8.**
3. Disconnect the controller connector(s) from the power base.
4. Remove the quick release pin from each of the four seat towers.
5. Hold the seat by the seat base and lift the seat off the towers.
6. Set the seat aside.
7. Remove the body shroud.
8. Remove the bolt that fastens each of the four seat towers to the frame. **See figure 11.**
9. Raise or lower each seat tower to the desired height.

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

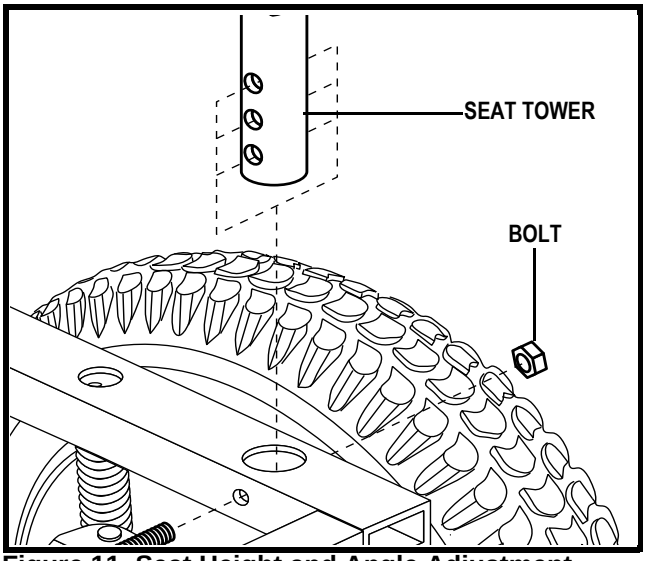


Figure 11. Seat Height and Angle Adjustment

10. Reinstall the bolt into each seat tower.
11. Reinstall the body shroud.
12. Reinstall the seat and secure with the quick release pins.
13. Reconnect the controller to the power base.

V. COMFORT ADJUSTMENTS

Manual Recline Seatback Adjustment

If your power chair seat is equipped with a reclining seatback, 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.

Seatback Angle Adjustment

If your power chair is equipped with an adjustable seatback, you can adjust it to four (4) different angles: 90°, 102°, 105°, or 107°. **See figure 12.**

To adjust the seatback angle:

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

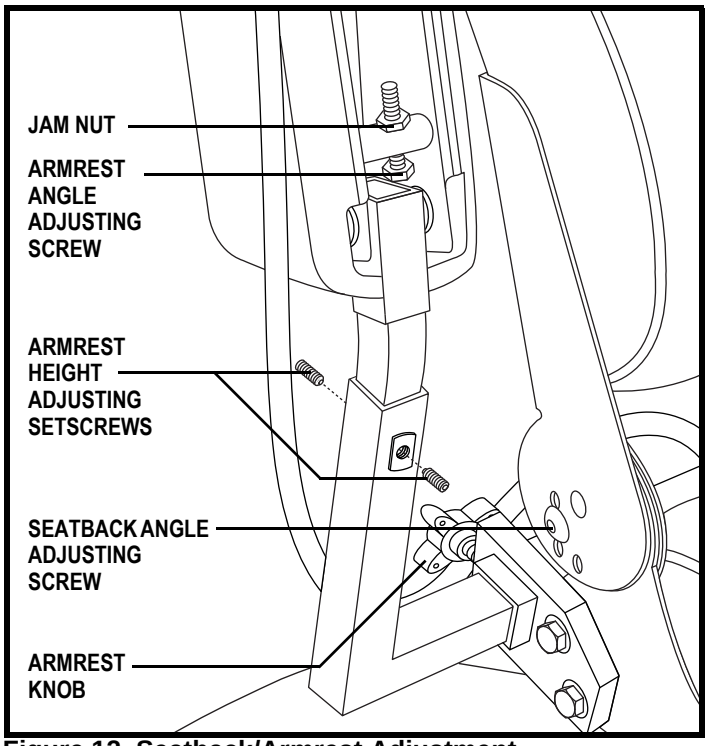


Figure 12. Seatback/Armrest Adjustment

Armrest Width Adjustment

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

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

To change the armrest width:

1. Locate the armrest knob on each side of the armrest receiver bracket. **See figure 12.**
2. Loosen the armrest knobs.
3. Slide the armrests in or out to the desired width.
4. Tighten the armrest knobs.

Armrest Height Adjustment

To change the armrest height:

1. Loosen the two setscrews located on the armrest receiver. **See figure 12.**
2. Raise or lower the armrest to the desired height.
3. Tighten the setscrews to secure the armrest.

Armrest Angle Adjustment

To change the armrest angle:

1. Lift the armrest straight up so that it is perpendicular to the floor. **See figure 13.**
2. Loosen the jam nut.
3. Turn the adjusting screw to raise or lower the front of the armrest.
4. Tighten the jam nut to lock the adjusting screw into place.

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. **See figure 13.**

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 13.**
3. Slide the controller into or out of the armrest to the desired position.
4. Tighten the setscrew to secure the controller.

To change the controller position:

1. Turn off 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 13.**
6. Slide the controller out of the armrest.
7. Loosen the setscrew in the other armrest.
8. Place the controller in the other armrest.
9. Tighten the setscrew to secure the controller.
10. Route the controller harness so that it cannot be pinched in the seat hinge.
11. Use wire ties to secure the controller harness to the armrest. **See figure 10.**
12. Plug the controller into the power base. **See figure 6.**

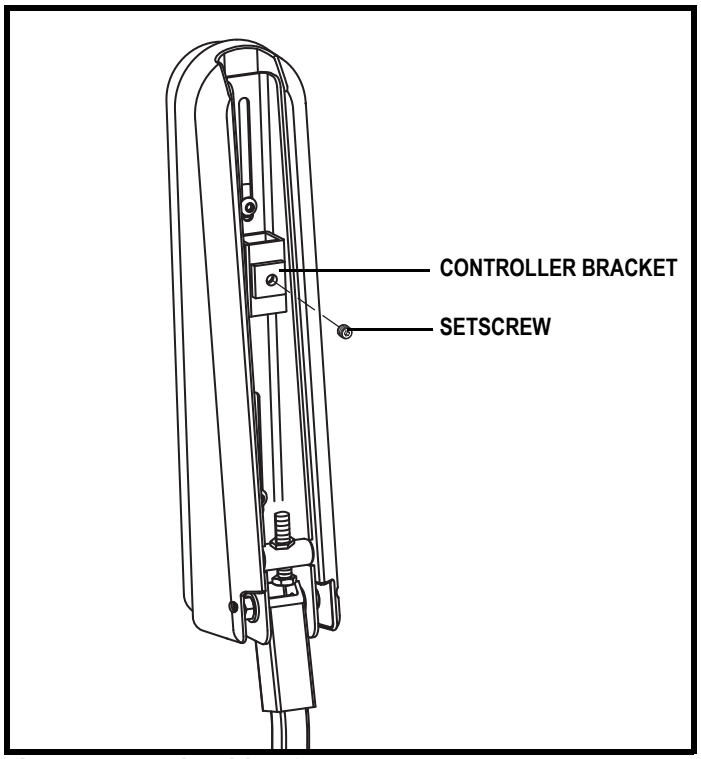


Figure 13. Underside of Armrest

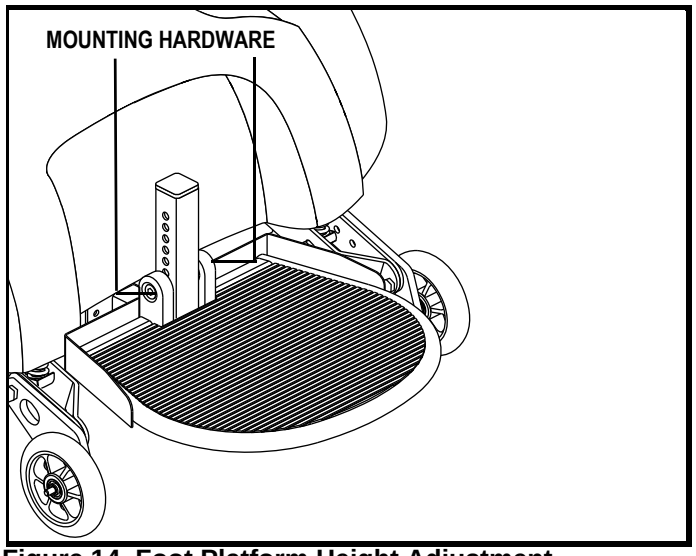


Figure 14. Foot Platform Height Adjustment

V. COMFORT ADJUSTMENTS

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 14.**
2. Raise or lower the foot platform to the desired height.
3. Reinstall the mounting hardware into the foot platform.

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 15.**
2. Turn the setscrew to raise or lower the front of the foot platform.

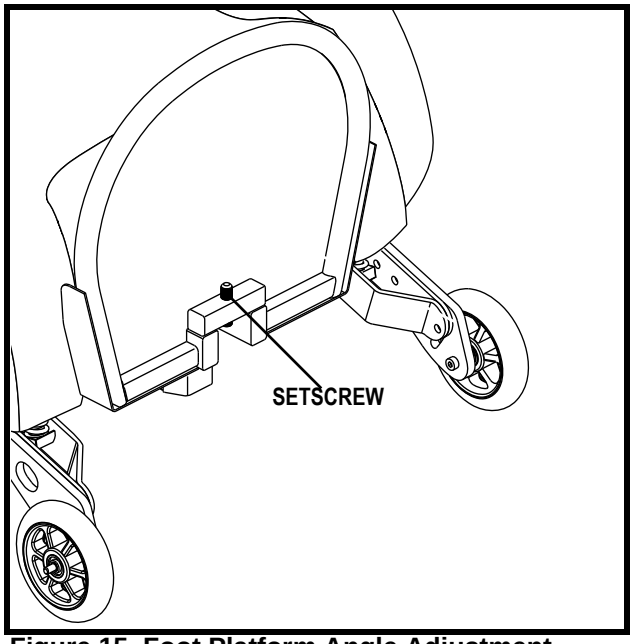


Figure 15. Foot Platform Angle Adjustment

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 authorized 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 while decelerating. You can compensate for this by having your authorized 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.

PROHIBITED! Do not remove the anti-tip wheels.

To adjust the anti-tip wheels:

1. Place a wrench on the inner locknut of the anti-tip bracket located right in front of the shock strut. **See figure 16.**
2. Turn the locknut counterclockwise to loosen the cam.
3. Place your wrench on the adjustable cam located on the other side of the locknut.
4. To adjust the anti-tip upward, turn the cam counterclockwise. To adjust the anti-tip downward, turn the cam clockwise. **See figure 17.**
5. Tighten the locknut.

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

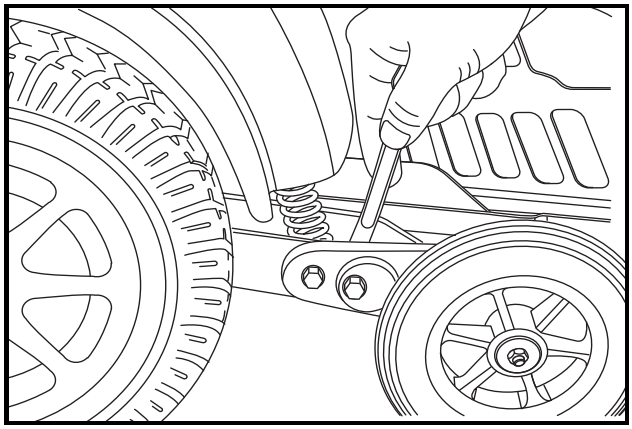


Figure 16. Anti-tip Bracket (Inner Locknut)

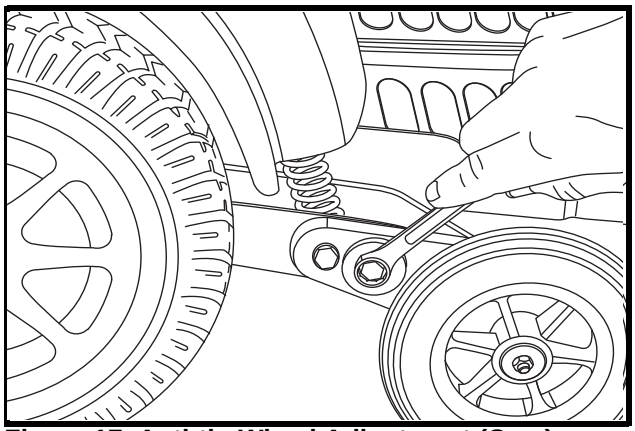


Figure 17. Anti-tip Wheel Adjustment (Cam)

Positioning Belt

Your power chair may be equipped with a positioning belt that can be adjusted for operator comfort. **See figure 18**. 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.

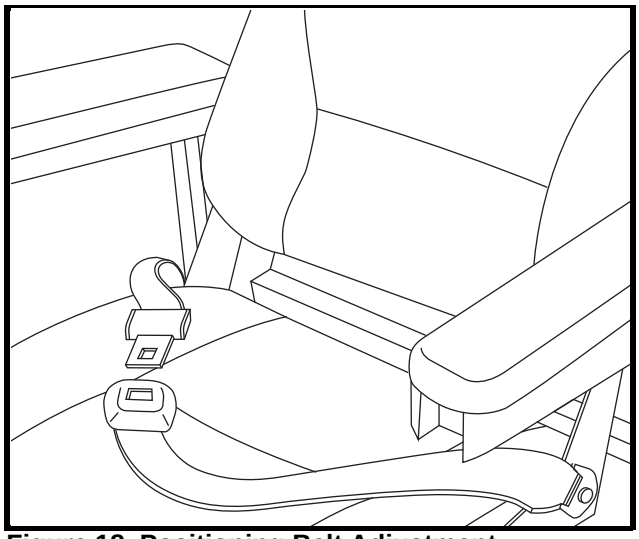


Figure 18. Positioning Belt Adjustment

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 18**.
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.

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 Provider for maintenance and repair.

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.

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

PROHIBITED! Always use two batteries of the exact same type, chemistry, and amp-hour (Ah) capacity. Refer to the specifications table in this manual and in the manual supplied with the battery charger for recommended type and capacities.

WARNING! Contact your authorized Pride Provider if you have any questions regarding the batteries in your power chair.

Charging the Batteries

The battery charger is essential in providing long life for your power chair batteries. It is designed to optimize your power chair's performance by charging the batteries safely, quickly, and easily. The battery charger is only functional when the charger power cord 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 cord 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 authorized Pride Provider 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 authorized Pride Provider.

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

WARNING! Be aware that the battery charger case may become hot during charging. Avoid skin contact and do not place on surfaces that may be affected by heat.

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 your power chair next to a standard electrical outlet.
2. Be certain the controller power is turned off and the freewheel levers are in the engaged position. See III. "Your Power Chair."
3. Plug the off-board charger into the off-board charger/programming socket on the controller. **See figure 19.**
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.

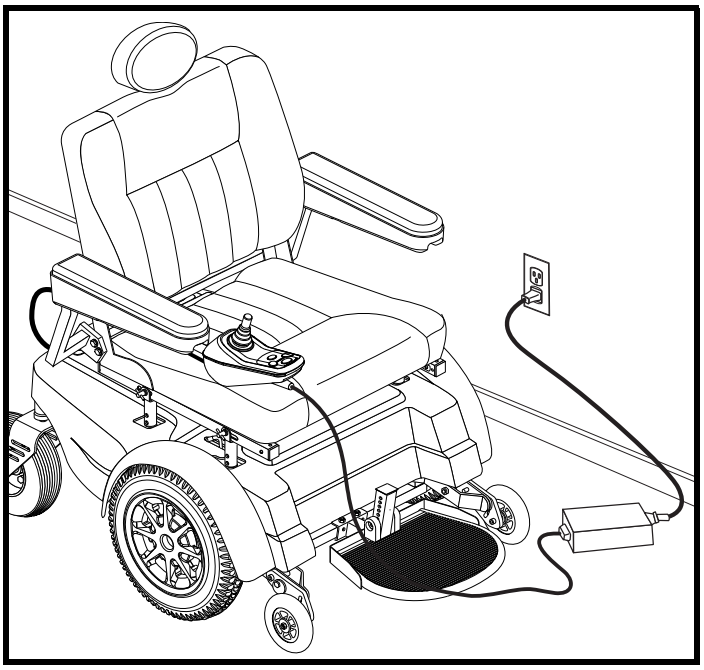


Figure 19. Battery Charging

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 yard. 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 120 VAC (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).

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. Refer to the manual supplied with the battery charger for charging instructions.

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, sidewalk 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 sealed AGM and Gel-Cell are deep-cycle batteries that are similar in performance. Refer to the specifications table for more information regarding the batteries used with your power chair.

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

Why do my new batteries seem weak?
Deep-cycle batteries employ a much different chemical technology than that used in car batteries, nickel-cadmium (nicads), or in other common battery types. Deep-cycle batteries are specifically designed to provide power, drain down their charge, and then accept a relatively quick recharge. 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 stabilize and adjust to its new ambient temperature. More importantly, it will take a few "charging cycles" (a partial drain — then a full recharge) to establish the critical chemical balance that is essential to the battery's peak performance and long life. It will be well worth it to take the time to break in your battery properly.

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

VI. BATTERIES AND CHARGING

How can I ensure maximum battery life?
A fully charged deep-cycle battery will provide reliable performance and extended battery life. Keep your power chair's batteries fully charged whenever possible. Batteries that are regularly and deeply discharged, infrequently charged, or stored without a full charge may be permanently damaged, causing unreliable power chair operation and limited battery life.

How should I store my power chair and its batteries?
If you do not use your power chair regularly, we recommend maintaining battery vitality by charging the batteries at least once per week.

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

What about public transportation?
AGM and Gel-Cell batteries are designed for application in power chairs and other mobility vehicles. These batteries are Federal Aviation Administration (FAA) approved, 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 Jazzy 1170XL Plus is a sophisticated power chair. Like any motorized vehicle, it requires routine maintenance checks. You can perform some of these checks, but others require assistance from your authorized 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 authorized Pride Provider.

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 fluids 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 your authorized Pride Provider. 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 18°F (-8°C) and 122°F (50°C).
- 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 122°F (50°C) 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 tires are inflated to the psi/bar/kPa air pressure rating indicated on the tire.

WARNING! Make sure your tires are inflated to the psi/bar/kPa air pressure rating indicated on the tire for pneumatic tires. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Overinflating tires can cause them to explode.

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

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

WARNING! Never use a rubber conditioner on the tread area of the tires; doing so may make the tires 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 frame with the battery terminals facing inward toward each other. Refer to the battery wiring label 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 authorized Pride Provider 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 authorized Pride Provider if there is a problem.
- Check for flat spots on solid tires. Flat spots could adversely affect stability.
- Inspect the seating systems,armrests, and front riggings for loose hardware, stress points, or damage. See your authorized Pride Provider if there is a problem.

Weekly Checks

- Disconnect and inspect the controller harness and the charger harness from the power base. Look for corrosion. Contact your authorized Pride Provider if necessary.
- Ensure that all parts of the controller system are securely fastened to your power chair. Do not overtighten any screws.
- Check for proper tire inflation. Maintain but do not exceed the psi/bar/kPa air pressure rating indicated on each tire for pneumatic tires. If a tire does not hold air, see an authorized Pride Provider for replacement of the tube.
- Check the brakes. This test should be carried out on a level surface with at least 3 feet (1 meter) 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 backward, 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.
- Check for extreme wear on the anti-tip wheels. Replace them as necessary.
- Check for drive tire wear. See your authorized Pride Provider for repair.
- Check the caster wheels for wear. Replace them as necessary.
- Check the caster forks for damage or fluttering which indicates that they may need to be adjusted or have the bearings replaced. See your authorized Pride Provider for repair.
- Check the entire power chair for loose hardware and changes in the function or performance of the power chair. See your authorized Pride Provider for service or repair.
- Keep your power chair clean and free of foreign material, such as mud, dirt, hair, food, drink, etc.

VII. CARE AND MAINTENANCE

Yearly Checks
Take your power chair to your authorized Pride Provider 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 the tires and reduces the possibility of flat spots developing on the areas of the tires 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 authorized Pride Provider for information on proper disposal of power chair packaging, metal frame components, plastic components, electronics, batteries, neoprene, silicone, and polyurethane materials.

Cleaning and Disinfection
- 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 tires and you have a flat tire, replace the tube. If your chair is equipped with a solid tire insert, then you must replace the whole wheel assembly. Replacement tires, tubes, and wheel assemblies are readily available through your authorized Pride Provider.

WARNING! The wheels on your power chair should only be serviced or replaced by an authorized Pride Provider or a qualified technician.

WARNING! Be sure that the power to the controller is turned off and the power chair is not in freewheel mode before performing this procedure.

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

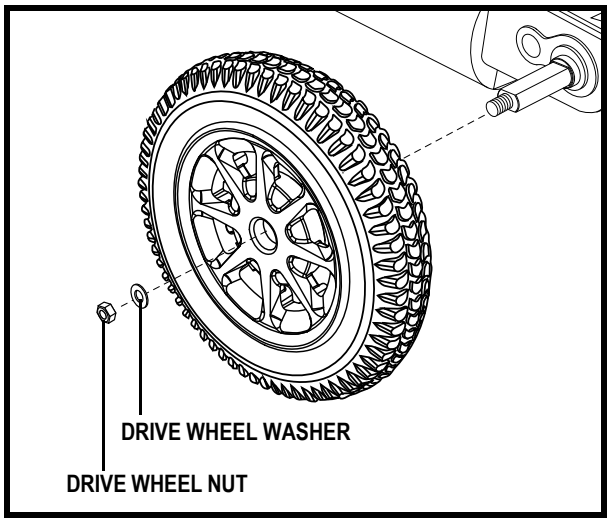


Figure 20. Jazzy 1170XL Plus Series Drive Wheel

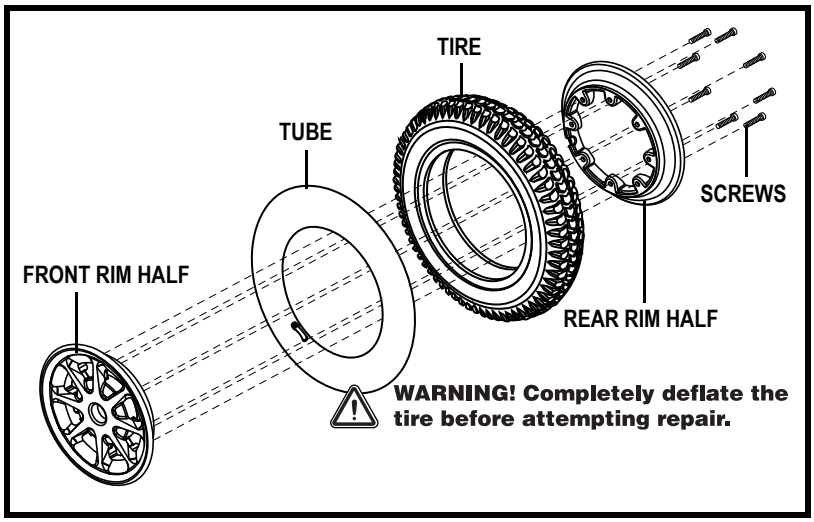


Figure 21. Jazzy 1170XL Plus Series Drive Wheel Disassembled

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

1. Turn off the power to the controller.
2. Set the power chair up on blocks.
3. If you are changing a pneumatic tire, completely deflate it before removing the wheel.
4. Remove the drive wheel nut and washer from the axle. **See figure 20.**
5. Pull the wheel off the axle.
6. Remove the screws that fasten the two rim halves together. **See figure 21.**
7. Remove the old tube from the pneumatic tire and replace it with a new tube or replace the entire assembly if it is a solid tire.
8. Reassemble the rim halves and reinstall the nuts and washers to the wheel hub.
9. Slide the wheel back onto the axle.
10. Reinstall the drive wheel nut and washer onto the axle and tighten.

WARNING! Make sure both the nut and washer are reinstalled and tightened properly.

11. Inflate the pneumatic tire to the psi/bar/kPa air pressure rating indicated on each tire.
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. **See figure 22.**

Pb Lead

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

WARNING! The batteries in your power chair should only be serviced or replaced by an authorized Pride Provider 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.

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

You may need the following to replace your batteries:
- metric/standard socket set and ratchet
- adjustable wrench

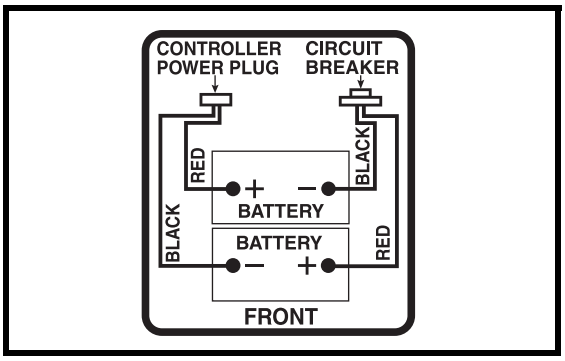


Figure 22. Battery Wiring Diagram

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 connectors from the electronics tray.
4. Remove the seat. See V. "Comfort Adjustments."
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.

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

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

When to See Your Authorized Pride Provider for Service

The following symptoms could indicate a serious problem with your power chair. If necessary, contact your authorized 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 tires
- Jerky motion
- Pulling to one side
- Bent or broken wheel assemblies
- Does not power up
- Powers up, but does not move
- Loose seat or seating components

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 authorized Pride Provider.

APPENDIX I – SPECIFICATIONS

SPECIFICATIONS	
Suspension:	Active-Trac Suspension
Drive Wheels:	16 in. (40.64 cm) pneumatic, center-mounted; 16 in. (40.64 cm) solid, optional
Caster Wheels:	9 in. (22.86 cm) pneumatic, rear articulating; 9 in. (22.86 cm) solid, optional
Anti-tip Wheels:	8 in. (20.32 cm) solid, front-mounted
Maximum Speed:[1]	Up to 5 mph (8.05 km/h)
Range:[1, 4]	Up to 15 miles (24.14 km)
Brakes:	“Intelligent Braking,” electronic regenerative, disc park brake
Ground Clearance:[2]	**See figure 22.**
Turning Radius:[2]	**See figure 22.**
Overall Size:[2]	Length: **See figure 22.** Width: **See figure 22.**
Drivetrain:	Two motor, mid-wheel
Batteries:[3]	Two 12-volt, deep-cycle, Group 24 batteries
Battery Charger:	8-amp off-board
Weight Capacity:	500 lbs. (227 kg)
Component Weights:[5]	Base: 149.5 lbs. (67.81 kg) Standard Seat (hgh back): 58 lbs. (26.3 kg) Batteries: 53.5 lbs. (24.27 kg) each

1 Varies with base model, user weight, terrain type, battery amp hour rating (Ah), battery charge, battery condition, motors, controller type, tire type, and tire condition. This specification can be subject to a variance of +10%, -5%.

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 ANSI/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.

5 Battery weight may vary based on manufacturer.

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

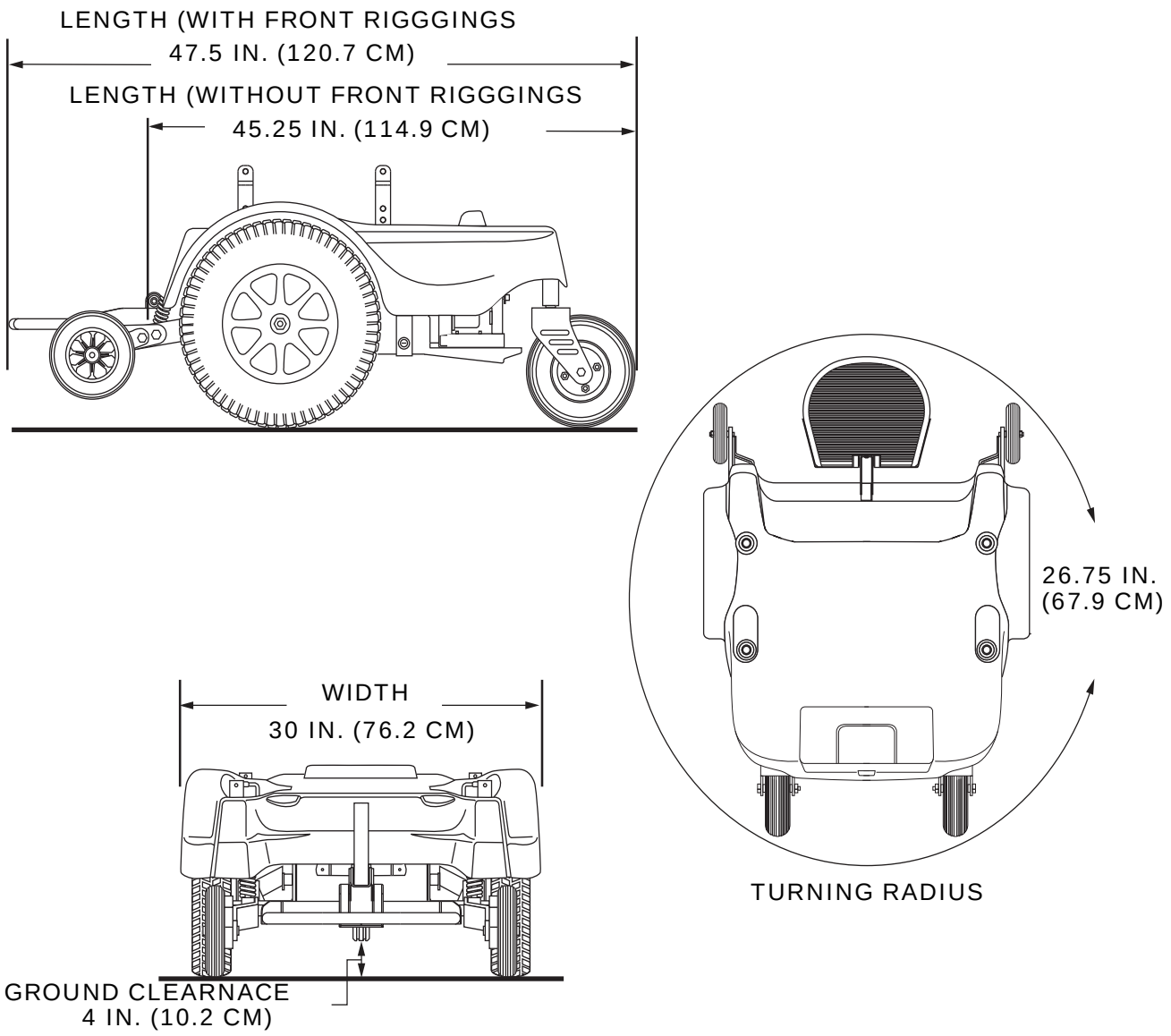


Figure 22. Jazzy 1170XL Plus Dimensions and Ground Clearance

NOTES