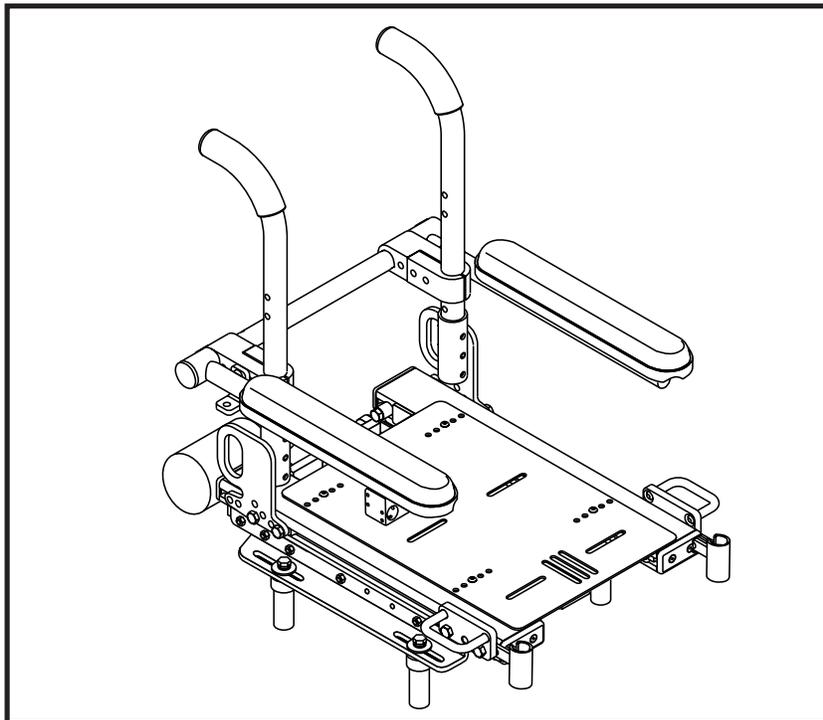


# **BASIC OPERATION INSTRUCTIONS**

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# **TRU-Balance™ Pediatric Power Tilt**

ACN# 088 609 661



**QUANTUM®**  
**REHAB**

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A Division of Pride Mobility Products® Corp.

## INFORMATION LABELING



**WARNING! A Quantum Rehab Specialist or a qualified technician must perform the initial setup of this product and must perform all of the instructions in this manual.**

The symbols below are used throughout this owner's manual and on the product 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.**

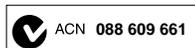


**MANDATORY! These actions should be performed as specified. Failure to perform mandatory actions can cause personal injury and/or equipment damage. On the product, this icon is represented as a white symbol on a blue dot with a white border.**



**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 a red slash.**

*NOTE: These instructions are 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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INFMANU3247/Rev C/October 2007

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# LABEL INFORMATION

## PRODUCT SAFETY SYMBOLS

The symbols below are used on the seating system 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.**



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



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



**Pinch/Crush points created during assembly.**



**Do not exceed the weight capacity listed in your power chair owner's manual or 250 lbs. (113.4 kg), whichever is less.**



**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.**



**Maximum seating weight**

## INTRODUCTION

WELCOME to Quantum Rehab, a division of Pride Mobility Products Corporation (Pride). The product you have purchased combines state-of-the-art components with **safety**, comfort, and styling in mind. We are confident that the design features will provide you with the conveniences you expect during your daily activities. Understanding how to **safely** operate and care for this product should bring you years of trouble free operations and service.

**Read and follow** all instructions, warnings, and notes in this manual before attempting to operate your product 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.

This manual is to be used in addition to the power base owner's manual that came with your power chair. 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 Specialist. **Failure to follow the instructions, warnings, and notes in this manual and those located on your Pride product can result in personal injury and/or product damage and will void Pride's product warranty.**

## PURCHASER'S AGREEMENT

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

## INFORMATION EXCHANGE

We want to hear your questions, comments, and suggestions about this manual. We would also like to hear about the safety and reliability of your new Pride product, and about the service you received from your Quantum Rehab Specialist. 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 Pride product.

***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.***

**My Quantum Rehab Specialist Is:**

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

## THE TRU-BALANCE PEDIATRIC POWER TILT

The TRU-Balance Pediatric Power Tilt is a unique seating system designed specifically for the Pride Power Chair. It is fully adjustable to meet the individual needs of the user, and it is mounted to a Pride power base to provide maximum maneuverability.

Reusable hook and loop fasteners are included in your owner's package for use in attaching the seat cushion to the seat base. These fasteners are not intended for use on cushions with anti-skid material, as they may damage the seat cushion.

Figure 1 provides information on the TRU-Balance Pediatric Power Tilt components. Use this diagram to familiarize yourself with the function and location of each component before using the TRU-Balance Pediatric Power Tilt.

## PRECAUTIONARY GUIDELINES

Before operating the TRU-Balance Pediatric Power Tilt, please read the following. These guidelines are provided for your benefit and will aid you in the safe operation of the seating system.

- Turn off the power before you are seated in the seating system.
- Always have assistance when you are being seated in the seating system.
- Follow all of the procedures and heed the warnings as explained in your power chair owner's manual.

**WARNING! Your Quantum Rehab Specialist configured your TRU-Balance Seating System to suit your specific requirements. Do not change the original configuration without first contacting your Quantum Rehab Specialist.**



**WARNING! Should the fittings on your TRU-Balance Seating System become loose, report the problem immediately to your Quantum Rehab Specialist.**

**WARNING! Your TRU-Balance Seating System is not approved for use as a seat in any vehicle. Use the seats and occupant restraints provided by the manufacturer of the vehicle.**

**WARNING! Do not exceed the weight capacity listed in your power chair owner's manual or 250 lbs. (113.4 kg), whichever is less.**

## Electromagnetic and Radio Frequency Interference (EMI/RFI)



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

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



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



**WARNING! The addition of accessories or components to the electrically-powered mobility vehicle can increase the susceptibility of the vehicle to EMI. Do not modify your power chair in any way not 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](http://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 800-424-8205 to report the incident.*

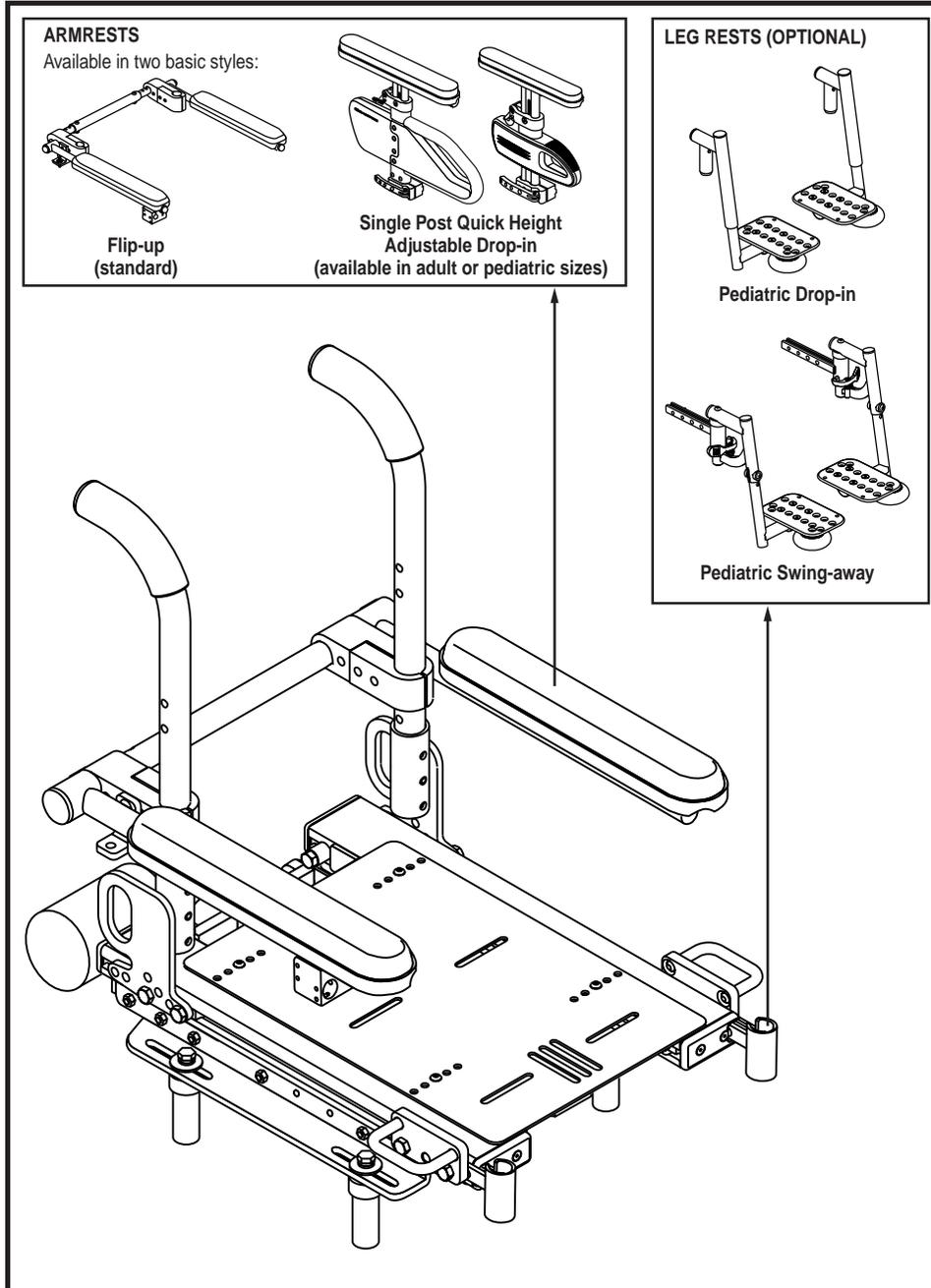


Figure 1. TRU-Balance Pediatric Power Tilt Components

## OPERATING THE TRU-BALANCE PEDIATRIC POWER TILT

The TRU-Balance Pediatric Power Tilt can be operated through a PG or Q-Logic controller or a toggle (see figures 3 through 9). Your TRU-Balance Seating System provides up to 55° of tilt. See figure 2. There is a power inhibit on your TRU-Balance Seating System which will not allow you to drive your power chair while in the tilt position. A full inhibit will activate at 20°-55° of tilt.



**WARNING! Check the immediate area before operating the tilt features. Keep clear prior to and during movement.**

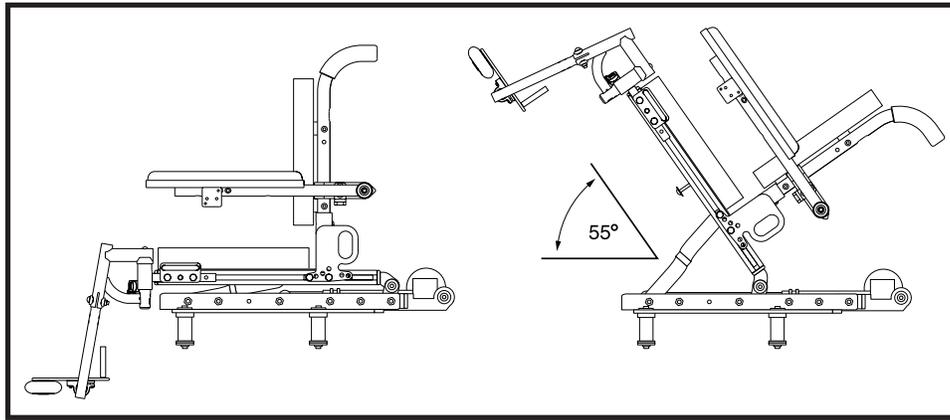


Figure 2. TRU-Balance Pediatric Power Tilt Range of Motion

**NOTE:** *This manual will discuss toggle and joystick operations only. If your seating system is equipped with a different operating device, please refer to the operation manual supplied with that device and/or your power chair owner's manual.*

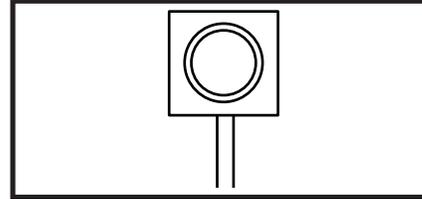
### Toggle Operation

Your TRU-Balance Pediatric Power Tilt may be equipped with a single or dual push-button toggle, one of two 2-way toggles, or a single switch.

**NOTE:** *Your TRU-Balance Seating System may be equipped with any number of these functions.*

**Single Push-Button Toggle**

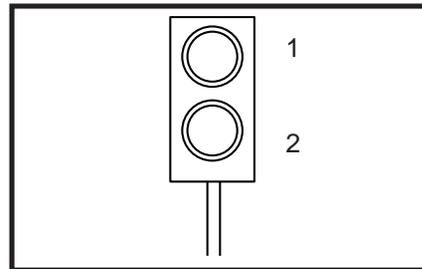
1. To tilt backward, push the button.
2. To return to a sitting position or to a 0° tilt position, push the button again.



**Figure 3. Single Push-Button Toggle Operation**

**Dual Push-Button Toggle**

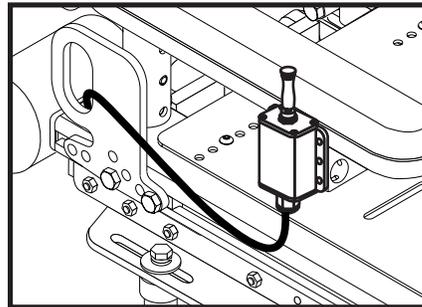
1. To tilt backward, push the first button.
2. To return to a sitting position or to a 0° tilt position, push the second button.



**Figure 4. Dual Push-Button Toggle Operation**

**2-way Toggles**

1. To tilt backward, pull the switch backward. See figure 5 or 6.
2. To return to a sitting position or to a 0° tilt position, push the switch forward.

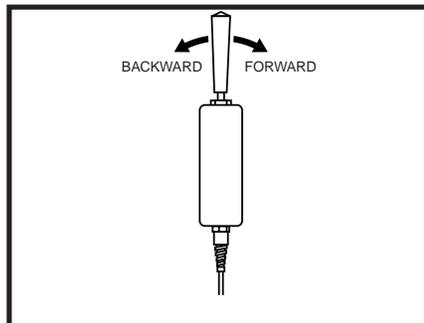


**Figure 5. 2-way Multi-Position Toggle Operation**

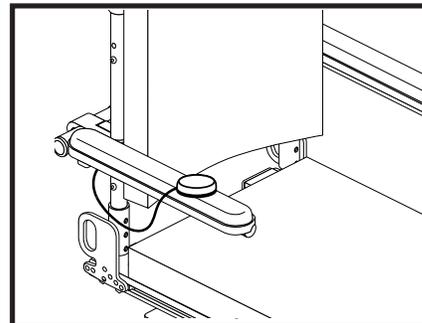
**Single Switch**

1. To tilt backward, push the single switch. See figure 7.
2. To return to a sitting position or to a 0° tilt position, push the single switch again.

**NOTE:** Your TRU-Balance seating system may be equipped with any number of these functions.



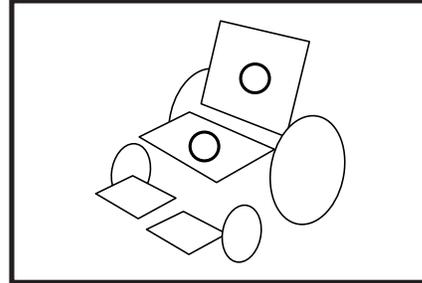
**Figure 6. 2-way Toggle Operation**



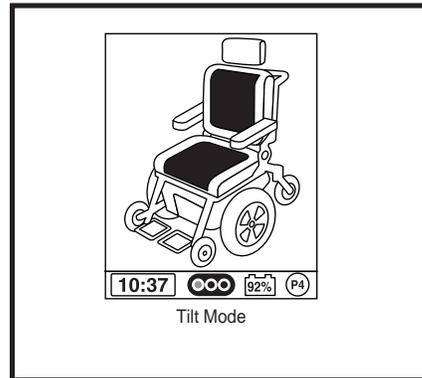
**Figure 7. Single Switch Operation**

### Remote Plus Joystick Operation

1. Press the On/Off Key to power on the chair and the controller.
2. Press the Mode Key twice to select actuator adjustment mode.
3. Push the joystick to the right to cycle through the available actuators until the seat and seatback lights are illuminated on the actuator indicator. See figure 8.
4. Pull the joystick backward to tilt the seat backward or push forward to return to a sitting position or to a 0° tilt position.
5. Press the Mode Key again to return to the drive mode.



**Figure 8. Remote Plus Actuator Indicator**



**Figure 9. Q-Logic Actuator Indicator**

### Q-Logic Controller Operation

1. Push the On/Off and Mode Select Lever up once to power on the chair and the controller.
2. Push the On/Off and Mode Select Lever up once to select actuator adjustment mode.
3. Push the joystick to the right to cycle through the available actuators until the seat and back are illuminated on the actuator indicator. See figure 9.
4. Pull the joystick backward to tilt backward or push the joystick forward to return to a sitting position.
5. Push and release the On/Off and Mode Select Lever until you return to the desired drive profile.

## ARMREST OPTIONS

The following sections will describe armrest options and the comfort adjustments that can be made to them.

You may need the following to make comfort adjustments:

- standard hex key set
- standard open-ended wrench set
- Phillips head screwdriver

### Flip-Up Armrests

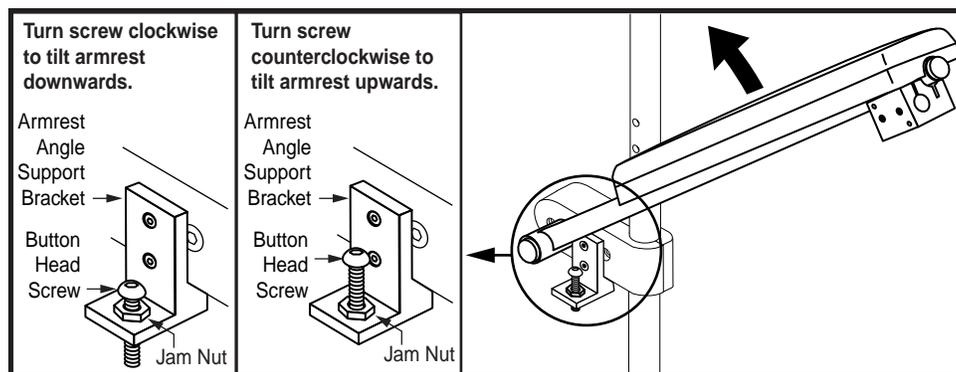
The Flip-Up Armrests are attached to the seat canes and are designed to “flip-up” out of the way for easier transfer onto and off of the power chair. Both the armrest angle and the armrest height can be adjusted on the Flip-Up Armrests.



**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.**

#### To adjust the armrest angle:

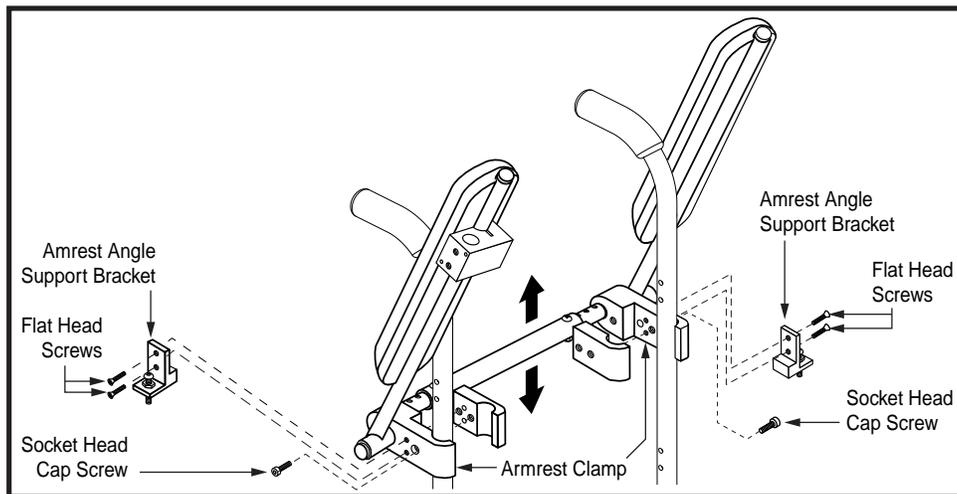
1. Flip the armrests up and out of the way.
2. Loosen the jam nut located on the armrest angle support bracket. See figure 10.
3. Loosen or tighten the button head screw located on the armrest angle support bracket. Loosening the button head screw will increase the armrest angle; tightening the button head screw will decrease the armrest angle. See figure 10.
4. When the screw has been positioned to the proper angle, tighten the jam nut. See figure 10.
5. Flip the armrests down to position.



**Figure 10. Flip-Up Armrest Angle Adjustment**

**To adjust the armrest height:**

1. Flip the armrests up and out of the way.
2. Loosen the jam nut located on the armrest angle support bracket. See figure 10.
3. Remove the button head screw and jam nut from the armrest angle support bracket. See figure 10.
4. Remove the two (2) flat head screws from the armrest angle support bracket, then remove the bracket. See figure 11.
5. Remove the socket head cap screw from the armrest clamp. See figure 11.
6. Raise or lower the armrests to the desired height and hold in position.
7. Reinstall the socket head cap screw to the armrest clamp. See figure 11.
8. Replace the armrest angle support bracket, then reinstall and tighten the two (2) flat head screws. See figure 11.
9. Reinstall and tighten the button head screw to the armrest angle support bracket, then tighten the jam nut. See figure 10.
10. Flip the armrests down to position.

**Figure 11. Flip-Up Armrest Height Adjustment**

### Single Post Quick Height Adjustable Drop-In Armrests

The Single Post Quick Height Adjustable Drop-In Armrests are removable and are available in both adult and pediatric sizes.

#### To remove the armrest assembly:

1. Rotate the armrest lock lever forward. See figure 12.
2. Lift up the armrest assembly.

#### To install the armrest assembly:

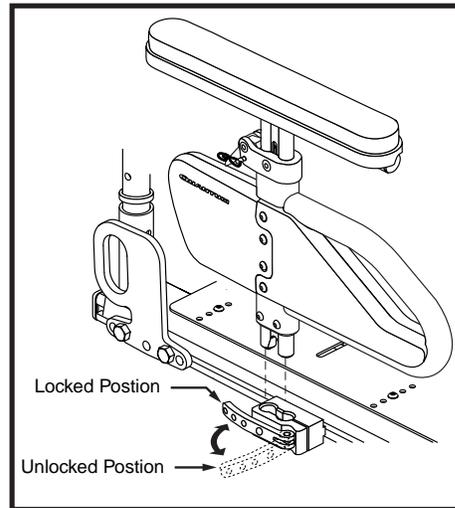
1. Place the armrest assembly into the armrest lock. See figure 12.
2. Rotate the armrest lock lever rearward.

Adult size armrest height adjustments can be made on both the top and the bottom of the armrest. The total height adjustment range is 6 in. (15.24 cm) from 11–17 in. (27.94–43.18 cm). This range is measured from the seat pan to the top of the armrest pad.

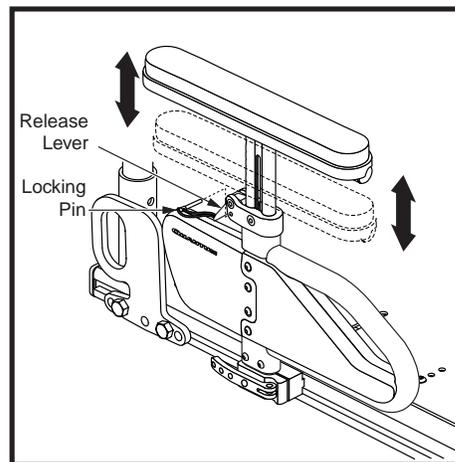
Top height adjustments do not require any tools. The top height adjustment range is 3 in. (7.62 cm) in 3/8-in. (0.96 cm) increments. The bottom height adjustment range is 3 in. (7.62 cm) in 1-in. (2.54 cm) increments.

#### To adjust the top height:

1. If present, remove the optional locking pin. See figure 13.
2. Pull the armrest up to raise, or press the release lever to lower the armrest to the desired height.
3. If applicable, reinsert the locking pin.
4. Repeat for the other armrest if necessary.



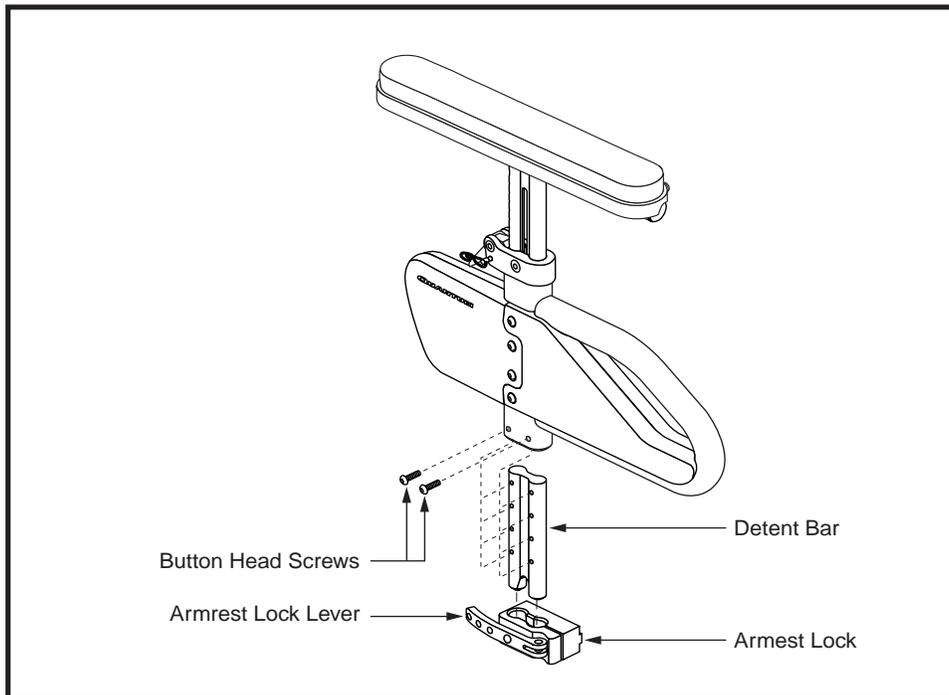
**Figure 12. Single Post Quick Height Adjustable Armrest Removal/Installation**



**Figure 13. Single Post Quick Height Adjustable Armrest Top Height Adjustment**

**To adjust the bottom height:**

1. Remove the two button head screws from the detent bar. See figure 14.
2. Slide the armrest up or down to the desired height.
3. Line up the holes in the armrest.
4. Reinstall the two button head screws into the detent bar.
5. Repeat for the other armrest if necessary.



**Figure 14. Single Post Quick Height Adjustable Armrest Bottom Height Adjustment**

Like the adult size Single Post Quick Height Adjustable Armrest, the pediatric size armrest is designed to be adjusted and removed easily. The total height adjustment range is 3 in. (7.62 cm) in 3/8-in. (0.96 cm) increments. This range is measured from the top of the seat pan to the top of the armrest pad. The total height adjustment range is 7.75–10.75 in. (19.69–27.31 cm).

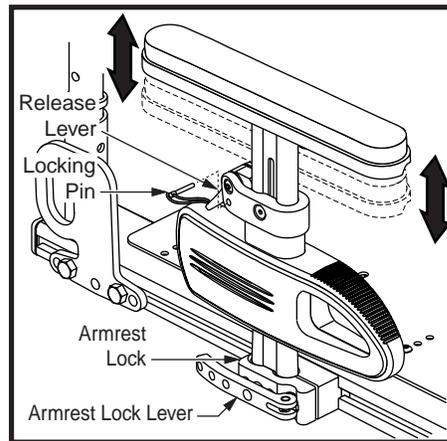
Top height adjustments do not require any tools. The top height adjustment range is 1 in. (2.54 cm) in 3/8-in. (0.96 cm) increments. The bottom height adjustment range is 2 in. (5.08 cm) in 1-in. (2.54 cm) increments.

#### To adjust the top height:

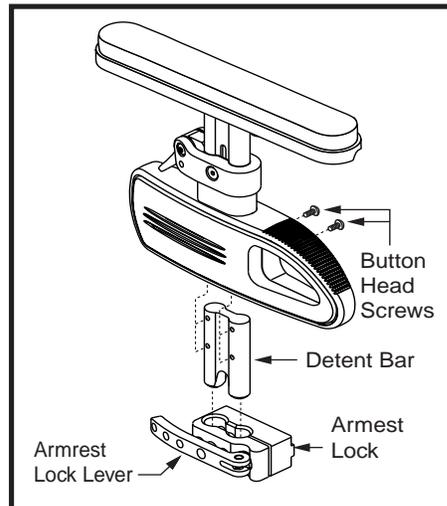
1. If present, remove the optional locking pin. See figure 15.
2. Pull the armrest up to raise, or press the release lever to lower the armrest to the desired height.
3. If applicable, reinsert the locking pin.
4. Repeat for the other armrest if necessary.

#### To adjust the bottom height:

1. Remove the two button head screws from the detent bar. See figure 16.
2. Slide the armrest up or down to the desired height.
3. Line up the holes in the armrest.
4. Reinstall the two button head screws into the detent bar.
5. Repeat for the other armrest if necessary.



**Figure 15. Pediatric Single Post Quick Height Adjustable Armrest Top Height Adjustment**



**Figure 16. Pediatric Single Post Quick Height Adjustable Armrest Bottom Height Adjustment**

## CONTROLLER POSITION

You can position the controller for either left-hand or right-hand use. You can also adjust the extension of the controller from the armrest.



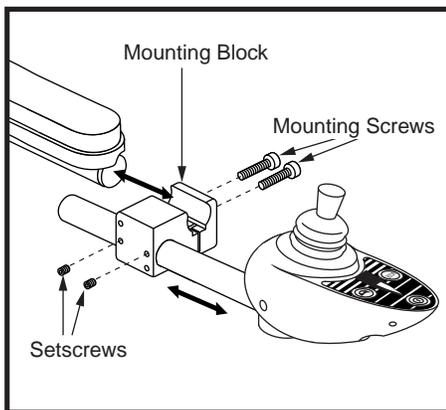
**MANDATORY! Use correct tie-down points for controller harness to prevent the harness from getting caught in the drive tires, pinched in the seat frame, or damaged when passing through doorways.**

### To change the controller position:

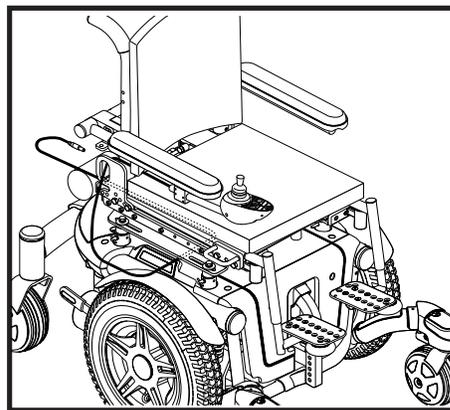
1. Turn off the power to the controller.
2. Unplug the controller connector from the power base. Refer to the power base owner's manual.
3. Remove any wire ties securing the controller cable to the armrest.
4. Loosen the mounting screws in the controller mounting block. See figure 17.
5. Move the controller mounting block and controller to the other armrest and tighten the mounting screws.
6. Route the controller cable to the back of the power base and reconnect the controller. See figure 18.

### To change the controller extension:

1. Turn off the power to the controller.
2. Loosen the setscrews in the controller mounting block. See figure 17.
3. Slide the controller into or out of the mounting block to the desired position.
4. Tighten the setscrews to secure the controller.



**Figure 17. Controller Position - Mounting Block**



**Figure 18. Cable Routing**

## CARE AND MAINTENANCE

- Make sure all hardware is secured properly, but do not overtighten any hardware.
- To clean the seating system, wipe it with a cloth dampened with mild soap and water. Thoroughly dry the unit before using.



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



**WARNING! Pride strongly recommends that you do not smoke cigarettes while seated in your seating system although the seating system 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 seating system.**

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

## WARRANTY

### Three-Year Limited Warranty

For three (3) years from the date of purchase, Pride will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Pride to be defective in material and/or workmanship:

- Structural frame components

### Two-Year Limited Warranty

For two (2) years from the date of purchase, Pride will repair or replace at our option to the original purchaser, free of charge, any of the following parts found upon examination by an authorized representative of Pride to be defective in material and/or workmanship:

- Electronics

### Eighteen-Month Warranty

For eighteen (18) months from the date of purchase, Pride will repair or replace at our option to the original purchaser, free of charge, any of the following parts

found upon examination by an authorized representative of Pride to be defective in material and/or workmanship:

- Actuator

Warranty service can be performed by a Quantum Rehab Specialist or by Pride. Do not return faulty parts to Pride without prior consent. All transportation costs and shipping damage incurred while submitting parts for repair or replacement are the responsibility of the original purchaser.

### **Warranty Exclusions**

- Upholstery and seating
- Repairs and/or modifications made to any part without specific consent from Pride
- Circumstances beyond the control of Pride
- Labor, service calls, shipping, and other charges incurred for repair of the product, unless specifically authorized by Pride.
  
- Damage caused by:
  - Battery fluid spillage or leakage
  - Abuse, misuse, accident, or negligence
  - Improper operation, maintenance, or storage
  - Commercial use or use other than normal

There is no other express warranty.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to one (1) year from the date of purchase and to the extent permitted by law. Any and all implied warranties are excluded. This is the exclusive remedy. Liabilities for consequential damages under any and all warranties are excluded.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific rights, and you may also have other rights which vary from state to state.

Please fill out and return the product registration card to Pride Mobility Products Corporation. This will aid Pride in providing the best possible technical and customer service.

# NOTES

# NOTES

# **QUANTUM<sup>®</sup>** **REHAB**

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*Mobility Products Corp.*

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