

# **Q** TRU BALANCE® 4

Basic Operation Instructions



## **QUANTUM®**

PROVIDING GREATER INDEPENDENCE

**⚠ WARNING!**

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

Chest support is required with anterior tilt functions. Omitting a chest support selection requires the provider to facilitate aftermarket chest supports that best fits consumer needs.

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.

**Intended Use**

A wheelchair component is a device intended for medical purposes that is generally sold as an integral part of a wheelchair, but may also be sold separately as a replacement part.

**Regarding Devices for Prescription Use**

Our mobility products and their components are available for sale either as retail ("over-the-counter") or with a prescription. When prescribed, the following statement is applicable.

**⚠ WARNING!**

**CAUTION!** Federal law restricts this device to sale by or on the order of a physician or other certified personnel licensed by the law of the State (US only) or region in which this personnel practices to use or order the use of the device.

*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.*

*NOTE: This product is compliant with WEEE, RoHS, and REACH directives and requirements.*

*NOTE: This product meets IPX4 classification (IEC 60529).*

*NOTE: This product and its components are not made with natural rubber latex. Consult with the manufacturer regarding any after-market accessories.*

*NOTE: For more information regarding patents, refer to <http://www.pridemobility.com/patents>.*

## Table of Contents

Product Safety Symbols .....	4
TRU Balance® 4 Power Positioning System .....	4
Precautionary Guidelines .....	4
Operating the TRU Balance® 4 Power Positioning System.....	6
Range of Motion .....	6
Power Anterior Tilt .....	8
iLevel® Feature .....	9
Flip Forward Back.....	11
Armrest Options.....	12
Flip Up armrests .....	12
Two Post armrests.....	14
Chest Bar.....	15
Anterior Knee Block.....	15
Transfers .....	16
Controller Position .....	16
Seatback.....	18
TRU Comfort .....	18
Installation and Use .....	18
Cleaning .....	19
Lateral Adjustment.....	20
Headrest Adjustment .....	21
Storage .....	21
Care and Maintenance .....	21

**ADVISORY STATEMENT REGARDING CERTAIN COMPONENTRY INCORPORATED BY THIRD-PARTY MANUFACTURERS INTO FINISHED POWER CHAIRS:** When Quantum Rehab power bases, seating systems, or other components are incorporated into a finished power chair manufactured or assembled by any third party, that third party is responsible to assure the safety, functionality, and legal compliance of the finished power chair. Quantum Rehab makes no representation concerning the safety, functionality, or legal compliance of the finished power chair or its componentry manufactured by a third party. While Quantum Rehab makes every effort to assure that our components are distributed responsibly, manufacturers, distributors, and consumers are reminded that finished power chairs must comply with a variety of standards and requirements for governmental safety and functionality.

If it is necessary to physically modify a power chair, including the addition of third-party componentry, to accommodate the medical needs of the power chair occupant, a risk assessment in conformance with ISO 14971, as outlined in ISO\_7176, should be performed.

Changes to power chairs that are likely to affect conformance and risk evaluation include but are not limited to: moving the securement-point brackets; lowering the back-support height; shortening the seat length; adding secondary postural supports that are not firmly attached to the power chair; adding components that have sharp edges (i.e., edges with less than 0.08 in. [2 mm] radius); or any change that compromises the structural integrity of the power chair frame.

### Language Usage

This owner's manual is intended for distribution in all English-speaking countries where our Power Chairs are sold. We have chosen to compose this manual using language and spellings common to the USA. Since we recognize that not all English-speaking countries use the same words or spellings, please refer to the following chart for some common word variations that may be encountered throughout this manual.

USA	Variation
asphalt	tarmac
authorized	authorised
backward(s)	rearward(s)
caster	castor
center	centre
color	colour
cord	lead
counterclockwise	anticlockwise
curb	kerb
elevator	lift
labor	labour
meter	metre
path	bridleway; footpath
pocketbook	handbag
provider	dealer; agent
sidewalk	pavement
tire	tyre
trunk	boot
turn signal	turn indicator
wrench	spanner
yard	grounds

## 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 instructions 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 20V/m.



Maximum seating weight



Pinch/Crush points exist.



Consult your Quantum Rehab Provider before making any changes to your seating system configuration.



Do not expose to heat sources such as open flame or sparks.



No smoking



Cover only—Maximum washing temperature 60°C (140°F)



Do not tumble dry.



Do not iron.



Do not bleach.



Operate your power chair on an inclined surface only when legrest is fully retracted.

## The TRU Balance® 4 Power Positioning System

The TRU Balance 4 Power Positioning System is a unique seating system designed specifically for the Quantum Power Chair. It is fully adjustable to meet the individual needs of the user, and it is mounted to a Quantum 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 4 Power Positioning System components shown with a TRU Comfort back. The components of the TRU Comfort back are described in "TRU Comfort Components" (figure 14). Use these diagrams to familiarize yourself with the function and location of each component before using the TRU Balance 4 Power Positioning System.

**NOTE:** Refer to the manual that was supplied with your controller for information on joystick and attendant control operation. If your TRU Balance 4 Power Positioning System is equipped with a different operating device, refer to the operation manual supplied with that device and/or your power chair owner's manual.

## Precautionary Guide

Before operating the TRU Balance 4 Power Positioning System, 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 TRU Balance 4 Power Positioning System.
- Always have assistance when you are being seated in the TRU Balance 4 Power Positioning System.
- Follow all of the procedures and heed the warnings as explained in your power chair owner's manual and Consumer Safety Guide.



## ⚠ WARNING!

Establishing an appropriate center of gravity for your power chair is essential to promoting stability and safety during its operation. At the time of initial manufacture, the center of gravity of your power chair was factory set to a position appropriate for the demographic majority of users. At the time of delivery, a Quantum Rehab authorized provider should perform a user-in-chair evaluation and make appropriate adjustments to the unit's center of gravity, proper user position, weight distribution and other features of your power chair to promote stability and safe operation. These adjustments are detailed in the Quantum Optimizing Guide provided with your power chair. In addition, your Quantum Rehab authorized provider will also evaluate your environment to identify conditions that may affect the safe operation of your power chair. Where appropriate, your Quantum Rehab authorized provider may make further positioning and/or programming adjustments to your power chair to help address these conditions and help assure your safety.

For your part, please alert your Quantum Rehab authorized provider to any changes in your physical condition or body mass. With the benefit of this information, your Quantum Rehab authorized provider can determine what if any adjustments should be made to your power chair to help assure your safety.

In addition, should any fittings or fastening points on your power chair or seating system become loose, or your power malfunctions in any way, please alert your Quantum Rehab authorized provider at once so that appropriate repairs and/or adjustments can be made to help assure your safety.

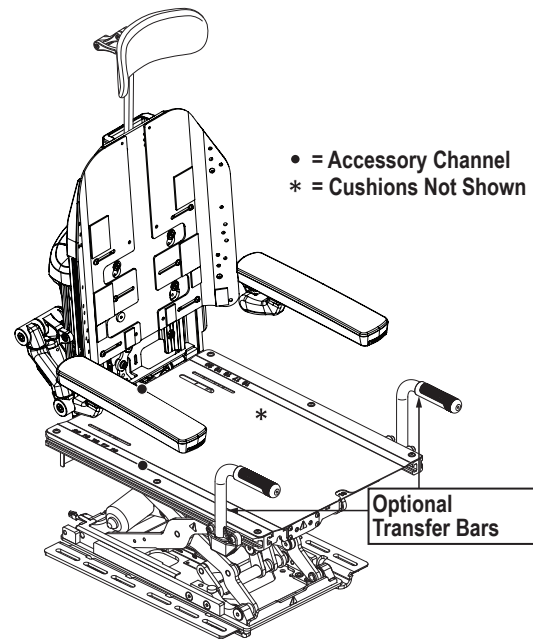
A lack of user-in-chair evaluation and adjustment of your power chair, as outlined above, by a Quantum Rehab authorized provider can result in unsafe conditions including but not limited to user instability, tipping, falls, contusions, abrasions, fractures, decubitus ulcers and other forms of serious personal injury or death.

In the event of a loss of power to the power chair, transfer to a safe position, seeking assistance if needed. Contact your Quantum Rehab Provider immediately to report the incident.

Your 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.

Quantum Rehab 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.



### Armrests

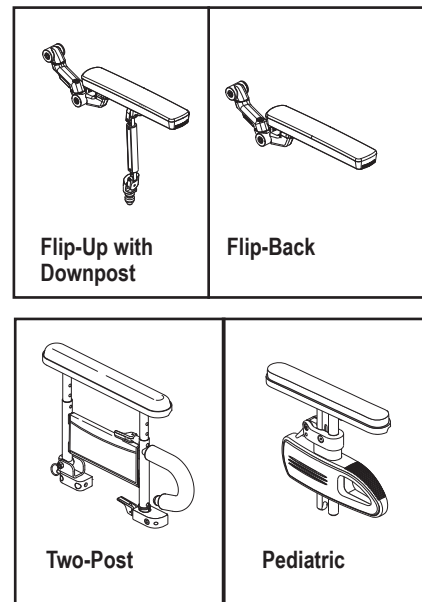


Figure 1. TRU Balance 4 Power Positioning Components

## ⊘ PROHIBITED!

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

## ▣ MANDATORY!

Do not exceed the weight capacity of your power chair or 300 lbs. (136 kg), whichever is less.

## Operating the TRU Balance® 4 Power Positioning System

The TRU Balance 4 Power Positioning System is equipped with a width-adjustable seatback and can be operated through a controller, a specialty controller.

### Range of Motion (if applicable for anterior)

Your TRU Balance 4 Power Positioning System provides up to 50° of tilt, 12 in. (30.5 cm) of lift, can recline 85°–165°, and can tilt/recline up to 165°. The TRU Balance 4 Power Positioning System is available in 10, 20 and 30 degrees of maximum anterior tilt. **See figure 2.**

**NOTE:** Certain configurations of a TRU Balance 4 Power Tilt and Quantum power bases have a maximum tilt angle of less than 50°.

There are power inhibits on your TRU Balance 4 Power Positioning System which may not allow you to drive or restrict the speed of your power chair while in certain lifted or tilted positions. A full drive inhibit will activate at predetermined factory-programmed lift and or tilt angles. **See figure 3.**



### WARNING!

Do not attempt to bypass, remove, reprogram, and/or adjust the full or partial inhibits that are programmed at factory settings. Failure to heed this warning may result in injury.

Check the immediate area to ensure nothing will be trapped in the mechanism before operating the tilt, recline, and/ or lift features. Keep all mechanical areas clear prior to and during movement

Check the immediate area to ensure that all body parts in and around the area of the power chair are clear of all moving parts before operating the memory seating.

When using knee blocks, certain AFP configurations can result in injury. Slow extension and continuous pressure monitoring should be conducted to monitor and limit the pressure the knee blocks are exerting on the user.

When operating the power chair on an inclined surface, it is recommended that the AFP be in a fully retracted position.

It is a requirement to wear your knee blocks and chest support when utilizing the anterior tilt if your system is equipped to go 20° or 30° anterior.

Failure to heed these warnings may result in damage to your power chair and/or components, property damage, or personal injury.

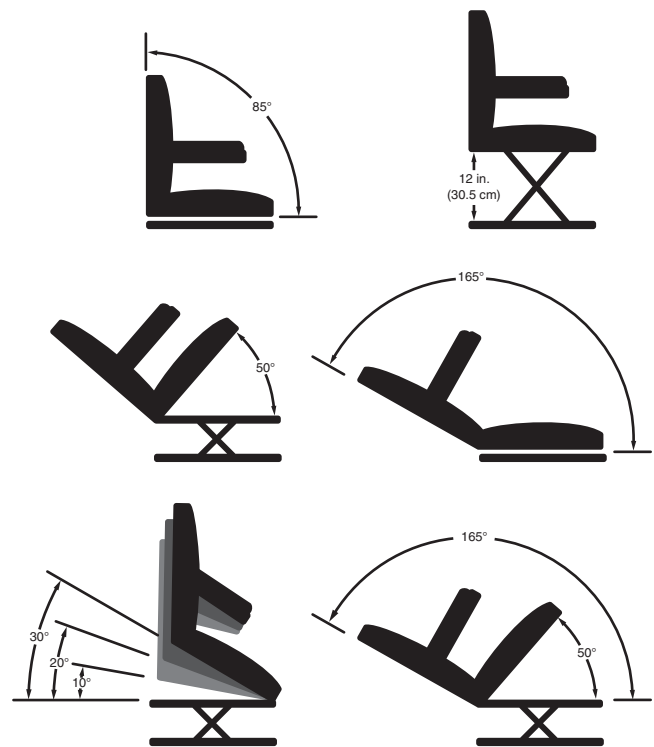


Figure 2. TRU Balance® 4 Power Positioning System Range of Motion

**NOTE:** The addition of an optional vent tray to your TRU Balance 4 Power Positioning System may change the overall weight, size, and/or center of gravity of your power chair. Do not make any changes to your seating configuration without contacting your Quantum Rehab Provider.

	Elevated	Tilted more than 20°	Reclined more than 20°	Tilt/ reclined more than 125°
Recline Lockout				X
Tilt Lockout				X
Elevate Lockout		X	X	X
1/4 Speed	X			
Full Drive Lockout		X	X	X
iLevel	X			

**Figure 3. Inhibit Matrix**

	Anterior tilt (0°–10°)	Anterior tilt (11°–20°)	Anterior tilt (21°–30°)
Lift (0 in.–2 in.)	2 mph (3 km/h)	0.5 mph (0.8 km/h)	Drive Lockout
Lift (2 in.–6 in.)	2 mph (3 km/h)	0.5 mph (0.8 km/h)	Drive Lockout
Lift (6 in.–12 in.)	2 mph (3 km/h)	Drive Lockout	Drive Lockout

**Figure 4. Speed Inhibit Matrix**

### TRU Balance® 4 Power Anterior Tilt Feature (Optional)

Your power chair may be equipped with the power anterior tilt feature that will be used in conjunction with your seating system. The power anterior tilt feature is mounted on a Quantum power base for enhanced stability when the seating system is tilted forward.

There are certain situations, including some medical conditions, where the power chair user will need to practice operating the power chair equipped with power anterior tilt 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 power anterior tilt 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.

**NOTE: For more information on operating the Anterior Tilt, refer to the Basic Operation Instructions for your controller.**

The power chair should be used on an indoor, level surface, such as malls, offices, and/or medical facilities to activate power anterior tilt. Once the seating system actuator is started, on chairs with iLevel, the iLevel boots inhibit movement on the front caster arms during power anterior tilt. The seating system can be reclined or elevated fully while the power anterior tilt feature is activated.

### WARNING!

The power anterior tilt feature should be used only on a flat, level, indoor surface, such as in malls, offices, and/or medical facilities. Never tilt the seat forward on an inclined surface. Failure to heed this warning can result in the power chair tipping over.

The power anterior tilt and or elevate feature is intended for limited outdoor use on only flat level, hardscape surfaces. If you are unsure of your environment, do not use power anterior tilt and or elevate outdoors.

Never elevate or tilt the seat forward when operating your power chair on bumpy or uneven surfaces. Failure to heed this warning can result in the power chair tipping over.

Always fasten the positioning belt and/or other physical restraints such as knee block, chest bar, and chest strap when operating the power chair.

Do not operate the power anterior tilt or change the seat height in any way while your power chair is positioned under a fixed object, such as a table or a desk. Keep area clear prior to and during movement.

### PROHIBITED!

Never use the power anterior tilt and or elevation outdoors on uneven terrain (gravel, hills or other uneven, non-compact terrain) or in fields.

Never use power anterior tilt and or elevate while ascending or descending a curb or uneven surface of any height.

**NOTE: The power anterior tilt and or elevate feature is equipped with a system that allows the power chair to drive at a predetermined, safe speed when in use. Always check to be sure this system is operating properly before using your power chair.**

**NOTE: On power chair with power seat iLevel, if a warning or visual indicator appears on your controller stating that iLevel is not engaged, the power chair's speed will be reduced to 0% (full drive lockout) when elevated, during power anterior tilt. If this warning appears while on level ground, please discontinue use of power lift and anterior tilt feature and consult your Quantum Rehab Provider for assistance.**



**iLevel® Feature (Optional)**

Your power chair may be equipped with the iLevel feature that will be used in conjunction with your TRU Balance 4 Power Positioning System. The iLevel feature is mounted on a Quantum power base for maximum stability when the seating is elevated and/or anterior tilted. See figure 5.

**NOTE:** If your power chair is equipped with a TRU Balance 4 Power Positioning System, refer to the information provided in the operation manual included in your owner's package.

**MANDATORY!**

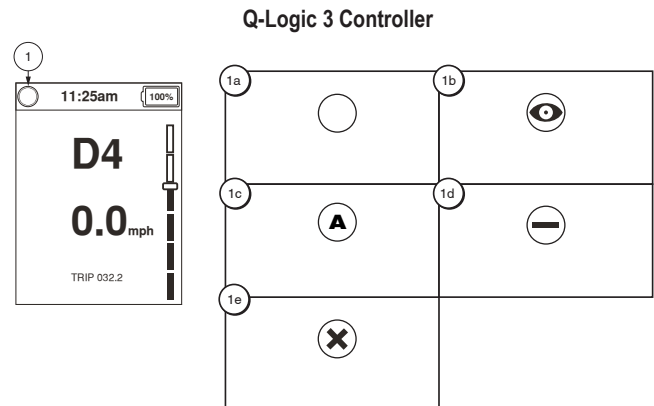
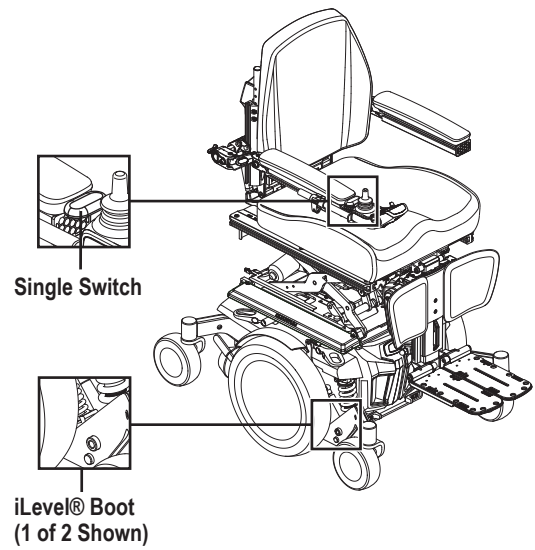
Before operating the iLevel feature, read the following. These guidelines are provided for your benefit and will aid you in the safe operation of the iLevel feature.

- Turn off the power before you are seated in your power chair.
- Always have assistance when you are being seated in or transferring to your power chair.
- Follow all of your procedures and heed the warnings as explained in this owner's manual, supplemental manuals, and the Consumer Safety Guide.

**WARNING!**

Establishing an appropriate center of gravity for your power chair is essential to promoting stability and safety during its operation. At the time of initial manufacture, the center of gravity of your power chair was factory set to a position appropriate for the demographic majority of users. At the time of delivery, a Quantum Rehab authorized provider should perform a user-in-chair evaluation and make appropriate adjustments to the unit's center of gravity, proper user position, weight distribution and other features of your power chair to promote stability and safe operation. These adjustments are detailed in the Quantum Optimizing Guide provided with your power chair. In addition, your Quantum Rehab authorized provider will also evaluate your environment to identify conditions that may affect the safe operation of your power chair. Where appropriate, your Quantum Rehab authorized provider may make further positioning and/or programming adjustments to your power chair to help address these conditions and help assure your safety.

For your part, please alert your Quantum Rehab authorized provider to any changes in your physical condition or body mass. With the benefit of this information, your Quantum Rehab authorized provider can determine what if any adjustments should be made to your power chair to help assure your safety.



Q-Logic 3 Controller Indicators

1a—No Restrictions  
1c—Power Anterior Tilt  
1e—Full Drive Lockout

1b—Safe Elevation  
1d—Reduced Speed Restriction

Figure 5. TRU Balance 4 with iLevel Feature and Controller Indicators

In addition, should any fittings or fastening points on your power chair or seating system become loose, or your power malfunctions in any way, please alert your Quantum Rehab authorized provider at once so that appropriate repairs and/or adjustments can be made to help assure your safety.

A lack of user-in-chair evaluation and adjustment of your power chair, as outlined above, by a Quantum Rehab authorized provider can result in unsafe conditions including but not limited to user instability, tipping, falls, contusions, abrasions, fractures, decubitus ulcers and other forms of serious personal injury or death.

**⚠ 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.

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

Do not operate the iLevel or change the seat height in any way while your power chair is positioned under a fixed object, such as a table or a desk. Keep area clear prior to and during movement.

The iLevel feature should be used only on flat, level, indoor surfaces, such as in malls, offices, and/or medical facilities, and only on limited, flat, level, hardscape, outdoor surfaces.

While the iLevel feature is in use, the power chair can drive at a predetermined safe speed. Refer to the specifications table for more information on reduction of the maximum speed.

**⚠ WARNING!**

The iLevel feature should be used only on flat, level, indoor surface, such as in malls, offices, and/or medical facilities. Never raise the seat from its lowest position on an inclined or uneven surface or while attempting to negotiate or climb/descend a raised or lowered surface. Failure to heed this warning can result in the power chair tipping over.

The iLevel feature is intended for limited outdoor use on only flat, level, hardscape surfaces. If you are unsure of your environment, do not use iLevel outdoors.

Never raise the seat into iLevel when operating your power chair on bumpy or uneven surfaces. Failure to heed this warning can result in the power chair tipping over.

Always fasten the positioning belt when operating the power chair.

**⊘ PROHIBITED!**

Never use the iLevel feature outdoors on uneven terrain (gravel, hills or other uneven, noncompact terrain) or in fields.

**NOTE:** The iLevel feature is equipped with a system that allows the power chair to drive at a predetermined, safe speed when the seat is elevated. Always check to be sure this system is operating properly before using your power chair.

**NOTE:** If a warning or visual indicator appears on your controller stating that iLevel is not engaged, the power chair's speed will be reduced to 25% when elevated. If this warning appears while on level ground, please discontinue use of iLevel feature and consult your Quantum Rehab Provider for assistance.

### Flip-forward Back (Optional)

The flip-forward back allows the user to flip the seatback forward for easier transportation. **See figure 6.** Your seating system may be equipped with one of two flip-forward backs.

#### To flip the seatback forward:

1. Remove the back pan.
2. Remove the detent pin (**see figure 7**) OR rotate the release lever on both back canes toward the rear of the seat to disengage the back. **See figure 8.**
3. Fold the seatback down.

#### To return the seatback to an upright position:

1. Lift the seatback up and place in the upright position.
2. Reinstall the detent pin and ensure all components are secure (**see figure 7**) OR rotate the release lever on both back canes toward the front of the seat to latch the back canes. Ensure a red sticker on the release lever is not visible. **See figure 8.**
3. Reinstall the back pan.

### WARNING!

Ensure the detent pin is properly inserted OR the release lever is properly latched before sitting in your power chair.

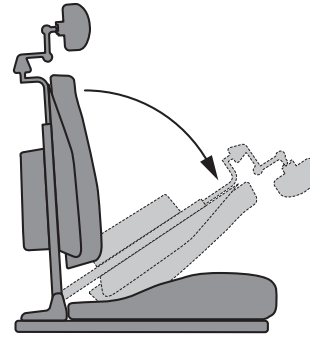


Figure 6. Flip-forward Back (Disengaged)

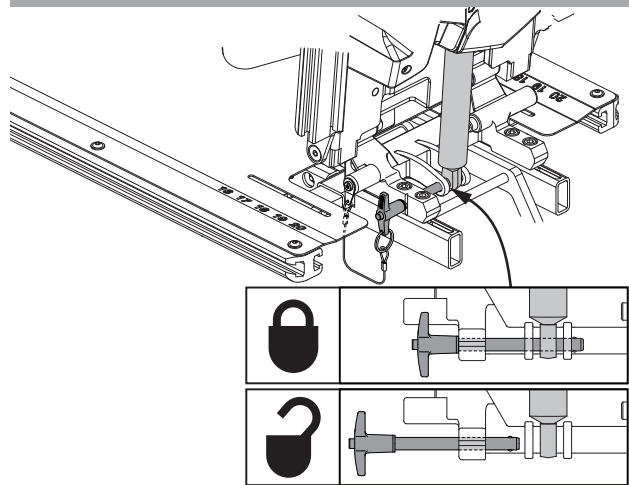


Figure 7. Flip-forward Back (Detent Pin)

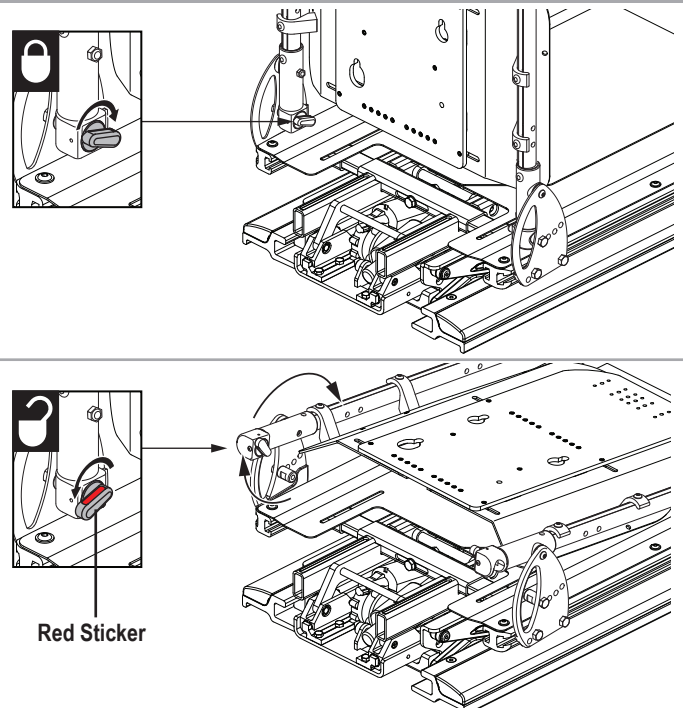


Figure 8. Flip-forward Back (Release Lever)

## Armrest Options

The following sections will describe armrest options and the comfort adjustments that can be made to them. Not all armrest options are available on all TRU Balance 4 Power Positioning Systems.

**NOTE:** Do not make any changes to your seating configuration without contacting your Quantum Rehab Provider.

You may need the following to make comfort adjustments

- |                        |                        |
|------------------------|------------------------|
| ■ 4 mm hex head wrench | ■ 8 mm hex head wrench |
| ■ 5 mm hex head wrench | ■ 13 mm open wrench    |
| ■ 6 mm hex head wrench | ■ 18 mm open wrench    |

### WARNING!

Do not attempt to lift or move your power chair or seating system by any of its removable parts, including the armrest(s), front rigging(s), seat cushions, seatback, shrouds, or controller. Use only solid, non-removable frame components to lift or move your power chair or seating system.

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.

If weight bearing is required for transfer or weight shift purposes, please contact your Authorized Quantum Rehab provider to acquire optional transfer handles.

The controller and controller bracket are non-load bearing items on your seating system. 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 seating system and personal injury.

## Flip-Up Armrests

The Flip-up Armrests are designed to “flip up” out of the way for easier transfer onto and off of the power chair. The armrest height, angle, width, and swing can be adjusted.

**NOTE:** Changing the armrest height also changes the armrest angle. We recommend adjusting the armrest height first then, adjusting the armrest angle.

**To adjust the armrest height:**

1. Ensure armrest is flipped up to at least a 95° angle from the seat pan for height adjustment.
2. Loosen rear screw on rear armrest support joint. **See figure 9.**
3. Make sure on seatback side rail your rear pivot link is mounted to proper height relative to back. **See figure 9.**
4. Ensure the armrest at a 95° angle.
5. Raise or lower the armrest to set armrest to the desired height or location mark. **See figure 9.**

6. Make sure the teeth of the pivot link and the teeth of the rear armrest support joint are interlocked before tightening rear screw of rear armrest support joint.
7. Loosen front screw on front armrest support joint. **See figure 9.**
8. Raise or lower the armrest to set armrest to the desired height.
9. Tighten front screw on front armrest support joint. **See figure 9.**
10. Repeat, if necessary, for the other armrest.

**To adjust the armrest angle:**

1. For angle adjustment, loosen front screw on front armrest support joint, adjust, and tighten.
2. Loosen nut, if necessary. **See figure 9.**
3. To set the armrest at the desired angle, adjust the turnbuckle to raise or lower the armrest.
4. Tighten front screw on front armrest support joint. **See figure 9.**
5. Tighten nut if necessary. **See figure 9.**
6. Repeat, if necessary, for the other armrest.

**NOTE:** After adjusting the armrest height, you may need to adjust the armrest angle. We recommend checking the angle of the armrest first then adjusting the angle to meet the power chair user's preferences. If you have any questions, contact your Quantum Rehab Provider.

**To adjust the armrest width:**

1. Loosen bottom screw underneath the rear of the armrest support and adjust to the desired width. **See figure 9.**
2. When at desired width, tighten bottom screw.
3. Loosen top screw on top of armrest support joint and adjust to make the armrest perpendicular to the seat pan. **See figure 9.**
4. Once the armrest is properly adjusted, tighten.

**To remove the armrest:**

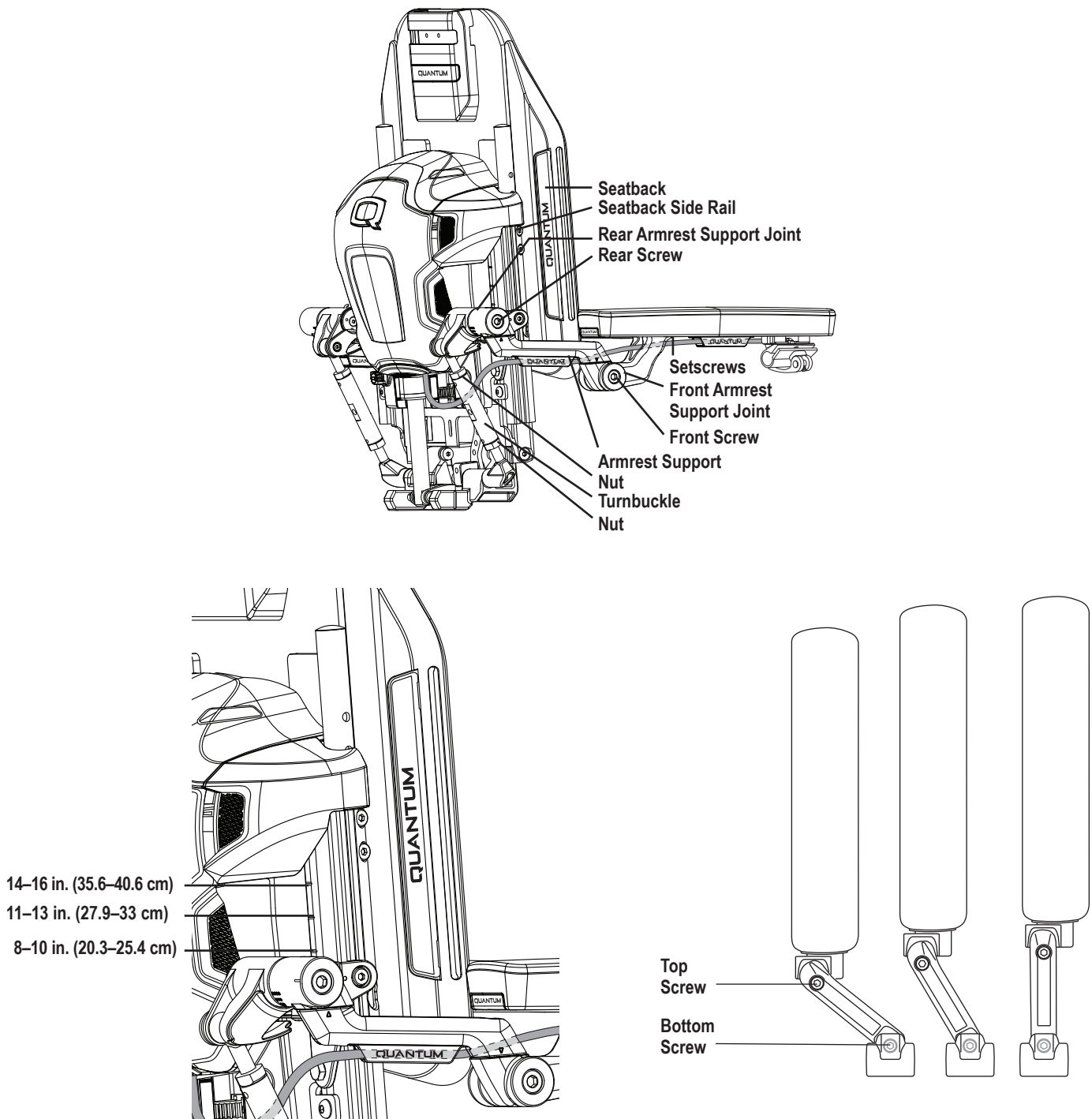
1. Hold armrest in place.
2. Remove the rear screw of the rear armrest support joint. **See figure 9.**
3. Support the weight of the armrest and pull the armrest off of the armrest post.

**NOTE:** Removing the rear screw of the rear armrest support joint, without holding armrest will allow the armrest to come completely unattached. We recommend holding armrest before removing rear screw.

### WARNING!

Some power chair components are heavy. You may need assistance to lift or carry them.





**Figure 9. Flip-up Armrest Height and Angle Adjustments**

**To install the armrest:**

1. Support the weight of the armrest. **See figure 9.**
2. Install the rear screw of the rear armrest support joint and tighten.
3. Follow instructions for adjusting armrest height and width.

**To adjust the armrest armpad:**

1. Loosen setscrews underneath the armrest.
2. Adjust to desired angle.
3. Tighten setscrews.

### Two Post Armrests

The height adjustment range for the Two Post Armrest is 9–13 in. (22.9–33 cm) in 1-in. (2.54-cm) increments. This range is measured from the top of the seat rail to the top of the arm pad. You can also flip up the armrests or remove them for transfer. **See figure 10.**

#### To remove the armrest assembly:

1. Push the spring-loaded lever downward and pull up on the front of the armrest. **See figure 10.**
2. Remove the detent pin from the back of the seat. **See figure 10.**
3. Pull up on the rear of the armrest to remove the assembly.

#### To install the armrest assembly:

1. Set the rear of the armrest into the rear seat receiver and install the detent pin. **See figure 10.**
2. Rotate the armrest assembly down.
3. Push the front of the armrest into the front seat receiver and rotate the spring-loaded lever to the horizontal position to lock into place.

#### To adjust the armrest height:

1. Push the spring-loaded lever inward. **See figure 11.**
2. Move the armrest up or down to the desired height.
3. Rotate the spring-loaded lever outward and lock the armrest in place. If necessary, move the armrest up or down to ensure that the armrest is secure.

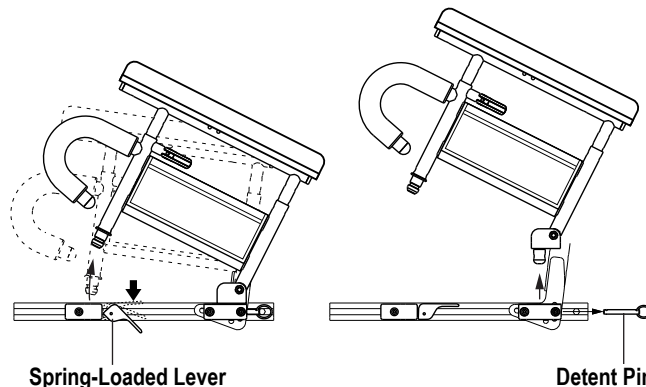


Figure 10. Two Post Armrest Removal and Installation

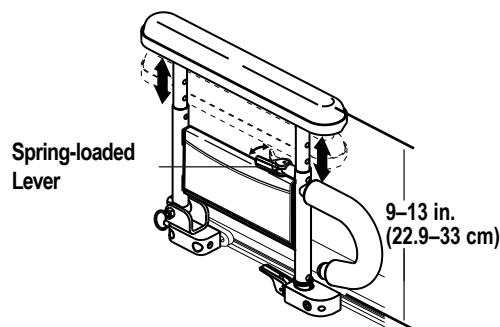


Figure 11. Two Post Armrest Height Adjustment

**Chest Bar**

Utilizing a chest support is required if anterior tilting beyond 10 degrees.

Any adjustments needed to the chest bar or chest bar receiver mounts need to be completed by a Quantum Authorized Provider.

**To install chest bar:**

Line up both left and right side bars on the chest bar with the chest bar receiver mounts that are bolted on each armrest. Engage by sliding chest bar down into receiver mounts. Make sure the chest bar is fully engaged downward into the mounts before utilizing.

**To remove chest bar:**

Lift directly upward on chest bar mount while applying pressure downward on armrests.

**Anterior Knee Block**

Utilizing knee blocks is required when anterior tilting beyond 10° degrees.

**To Install Anterior knee block:**

To install knee blocks line up the vertical center tube on the knee block above the received mount located on the center of the AFP. Engage by sliding knee block tube into receiver.

Make sure the knee block is fully engaged into the receive before utilizing. Release lever should be engaged on receiver mount.

**To remove Anterior knee block:**

To remove knee block compress the horizontal handle and lift directly up on entire assembly.

**⚠ WARNING!**

**Any adjustments needed to Anterior knee blocks need to be completed by a Quantum Authorized Provider.**

**When using knee blocks, certain AFP configurations can result in injury. Slow extension and continuous pressure monitoring should be conducted to monitor and limit the pressure the knee blocks are exerting on the user.**

***NOTE: For operation with a seating system that contains positional feedback please refer to the Articulating Foot Plate (AFP) section in the Q-Logic 3 Basic Operations Instruction manual.***



### Transfers

Optional transfer bars are available. Transfer bars are designed to make it easier to reposition while seated in the power chair and to transfer into or out of the power chair. Refer to the Consumer Safety Guide provided with your power chair owner's manual for additional information on transfers. **See figure 12.**

### Controller Position

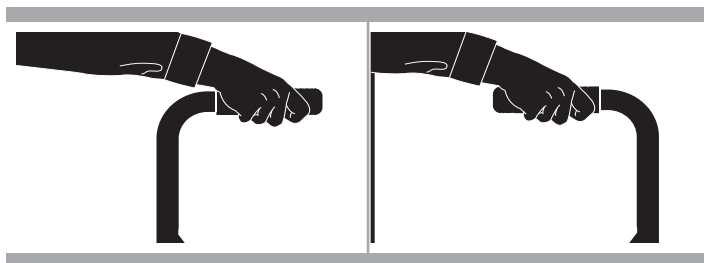
You can position the controller for either left-hand or right-hand use. You can also adjust the extension of the controller from the armrest and the height of the controller.

#### **WARNING!**

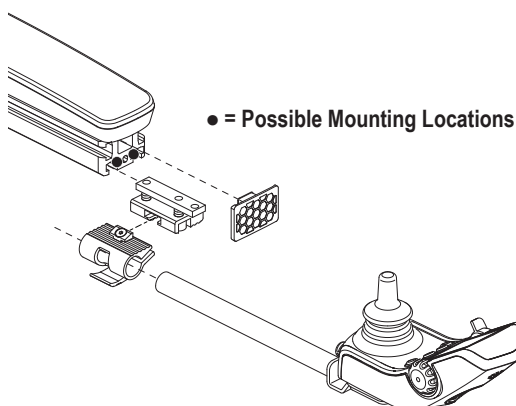
**Use correct tie-down points for controller harness to prevent the harness from getting caught in the drive tires, pinched in the seat frame, or damaged when passing through doorways.**

#### **To change the controller position:**

1. Turn off the power to the controller.
2. Remove the controller harness from the clips securing it to the armrest.
3. Loosen the mounting screws in the controller mounting block. **See figure 13.**
4. Move the controller mounting block and controller to the other armrest, tighten the mounting screws, and ensure the release lever is secure.



**Figure 12. Transfers**



**Figure 13. Controller Position (Standard Mounting Block Shown)**

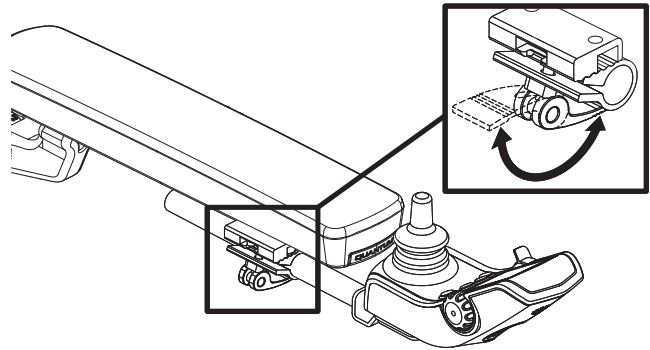
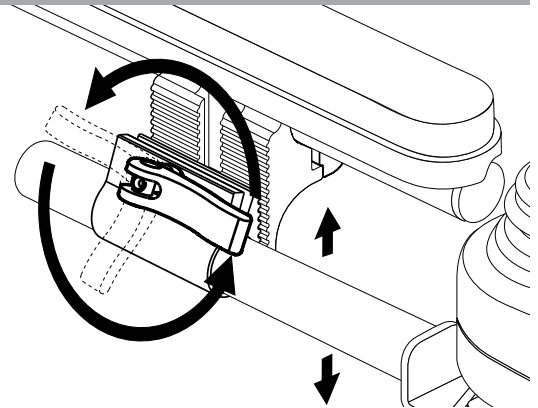
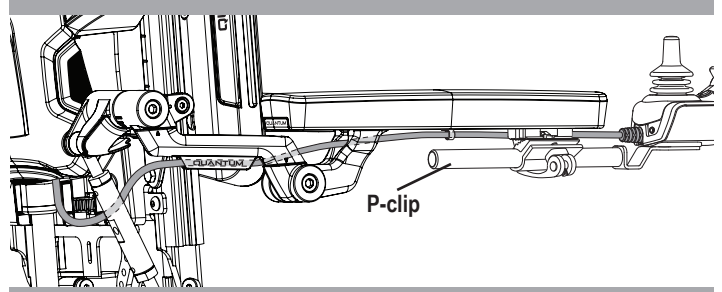


**To change the controller extension:**

1. Turn off the power to the controller.
2. Remove the controller harness from the clips securing it to the armrest.
3. Flip and then rotate the release lever to loosen the clamp. **See figure 14 or 15.**
4. Slide the controller into or out of the armrest to the desired position.
5. Rotate and flip the release lever to tighten the clamp.
6. Route the controller harness to the back of the power base and secure it with clips. **See figure 16.**

**To change the controller height:**

1. Turn off the power to the controller.
2. Remove the controller harness from the clips securing it to the armrest.
3. Flip and then rotate the release lever to loosen the clamp. **See figure 14 or 15.**
4. Adjust the controller to the desired height.
5. Rotate and flip the release lever to tighten the clamp.
6. Route the controller harness to the back of the power base and secure it with clips. **See figure 16.**

**Figure 14. Controller Adjustment (Flip-up Armrests)****Figure 15. Controller Height Adjustment (Two Post and Pediatric Single post Armrests)****Figure 16. Cable Routing**

## Seatback

The Seatback can be adjusted for height and width.

### To adjust the height and/or width of the seatback:

1. Loosen the hardware. **See figure 17.**
2. Place the seatback into the desired height and/or desired width.
3. Tighten the hardware.

## TRU Comfort

The TRU Comfort cushion is a unique seatback that is available for user comfort and positioning needs. **Figure 18** provides information on the removable and adjustable TRU Comfort components. Use these diagrams to familiarize yourself with the function and location of each component before using the TRU Comfort cushion. **See figures 18 and 19** to identify which seatback is on your power chair.

### Installation and Use

The TRU Comfort consists of a seatback cushion, lumbar support, lateral supports, lateral wings, and/ or thoracic supports that can be placed as needed for user comfort and positioning. They may be attached to the seatback either with reusable hook and loop fasteners or hardware, or they may be incorporated inside the seatback cushion.

### To place the TRU Comfort positioning components on the chair:

1. Position the lumbar and thoracic support(s) as needed for user comfort and positioning flat side down and push onto the seatback. Position the lateral supports and lateral wings as needed and attach with hardware. **See figure 18.**
2. Position the seatback cushion so that the reusable hook and loop fastener straps face the seatback. Place the cushion over any lumbar, lateral, and thoracic support(s). Secure the cushion to the seatback by sliding the two (2) long loop fastener straps through the anchor hooks and pressing the two (2) short hook fastener straps against the longer straps. **See figure 18 or 19.**

## WARNING!

Extreme temperatures can affect the temperature of your cushion components and may cause skin irritation. Use caution when your power chair has been used or stored in an extremely hot or cold environment.

Ensure all hardware is installed and tightened properly.

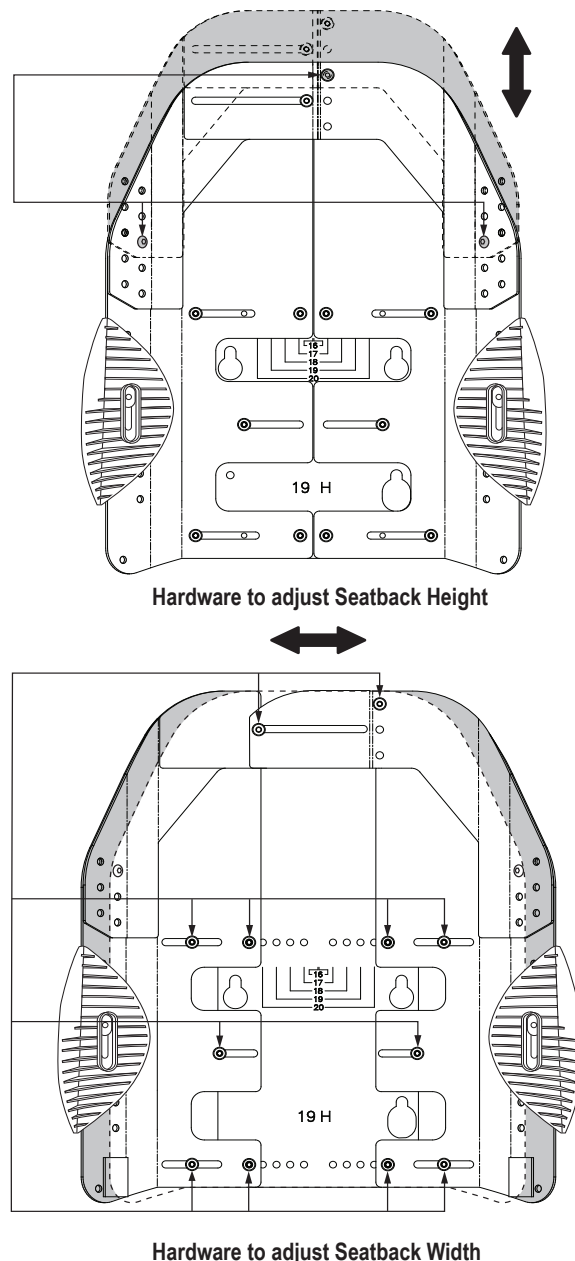


Figure 17. Height and Width Adjustments for Seatback

### Cleaning

The seatback cushion can be easily cleaned.

#### **WARNING!**

Do not use bleach when washing the outer cover. Doing so may cause damage to the cover.

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.

#### To clean the seatback cushion cover:

1. Remove the seatback cushion from the seatback by detaching the reusable hook and loop fastener straps as well as the reusable fasteners that secure the cushion to the seatback, then pulling the cushion toward you. **See figure 18 or 19.**
2. Locate the zipper on the cushion.
3. Unzip the cover, pull out the cushion, and remove any optional wedges, if installed.
4. Wash the cover by hand or in a non-agitating washing machine at or below a temperature of 140°F (60°C).
5. Allow the cover to air dry.
6. Once the cover is dry, re-cover the seatback cushion, position the seatback cushion to face the reusable fasteners on the seatback. Secure the cushion to the seatback using the reusable fasteners on the seatback as well as the reusable hook and loop fastener straps. **See figure 18 or 19.**

#### **WARNING!**

Do not use bleach when washing the outer cover. Doing so may cause damage to the cover.

Never submerge the seatback cushion in water. Doing so may cause damage to the cushion.

Do not attempt to put the cover in a dryer. This may cause shrinking.

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.

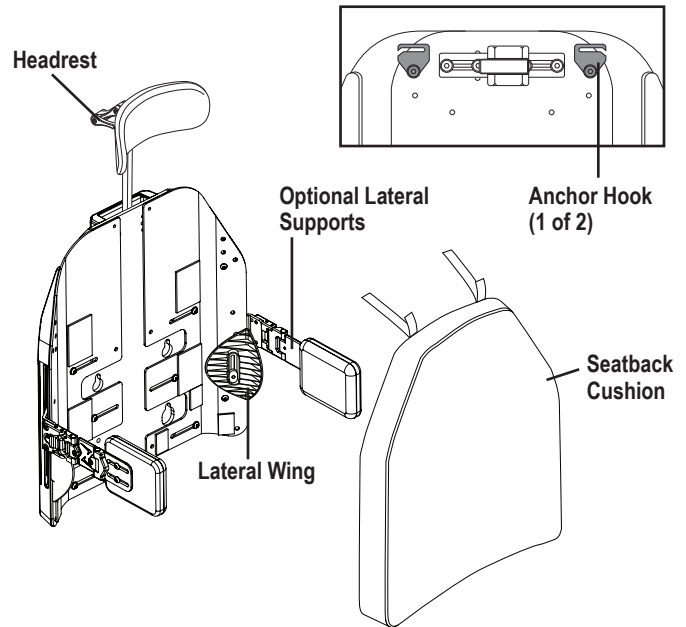


Figure 18. TRU Comfort 4 Components

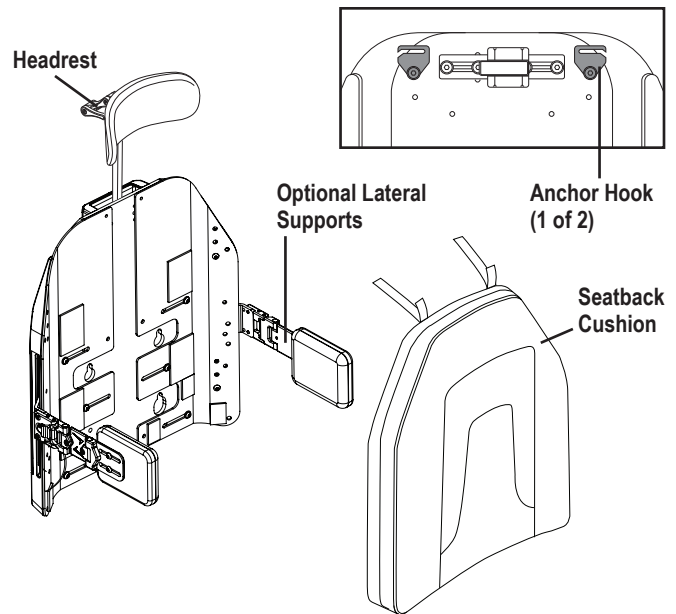


Figure 19. Sport Back 4 Components

## Lateral Adjustment

**NOTE:** Laterals should be installed and adjusted by your Quantum Rehab Provider.

**NOTE:** If the power chair is occupied when installing or adjusting the laterals, first ensure that the occupant is in a secure position. Contact your Quantum Rehab Provider with any questions you may have.

### To install laterals:

1. Remove the cover from the lateral extrusion on the side of the seatback.
2. Insert the square slab nut—with its arrow pointing up—into the slot of the lateral extrusion.
3. Install the lateral support into the lateral extrusion. **See figure 20.**
4. Insert the spacer and the two (2) bolts through the lateral support and the square slab nut. Do not tighten completely.
5. Slide the lateral support to the desired height and width.
6. Tighten the bolts inserted into the lateral extrusion.
7. Reinstall the cover on the lateral extrusion.
8. Repeat for other side, if necessary.

### To adjust the laterals:

1. Loosen the two (2) bolts in the lateral extrusion.
2. Slide the lateral support to the desired height and width. **See figure 20.**
3. Tighten the bolts inserted into the lateral extrusion.
4. Repeat for other side, if necessary.

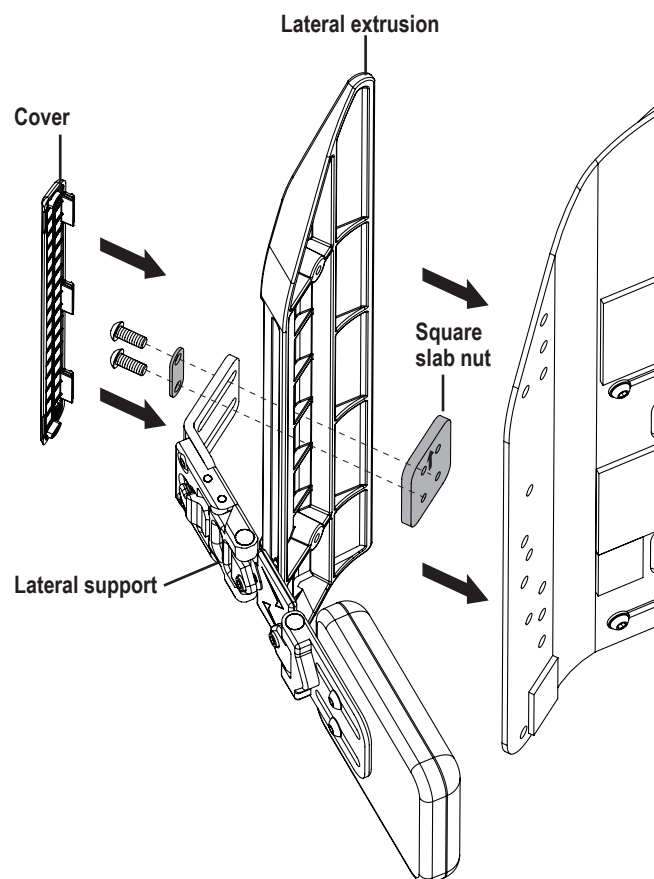


Figure 20. Laterals



### Headrest Adjustment

The headrest can be easily adjusted to different heights, depths, and angles.

#### To adjust the height, depth, or angle of the headrest:

1. Loosen the adjustment screws that correspond to the desired adjustments. **See figure 21.**
2. Adjust the headrest to the desired position.
3. Tighten the adjustment screws.

**NOTE:** Once adjustments have been made and the headrest is in the desired position, make sure that all of the hardware is tight.

#### WARNING!

Do not extend the overall headrest height more than 7 in. (17.78 cm) above the headrest bracket.

### Storage

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). It should be stored at room temperature in a clean and dry location.

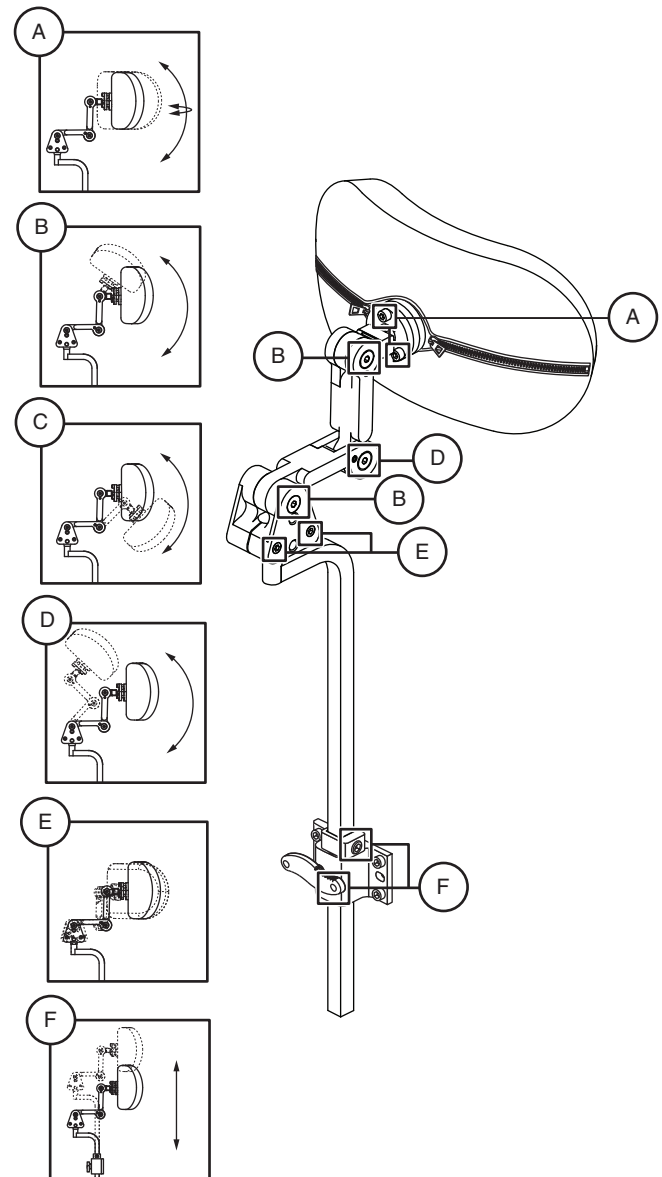
### Care and Maintenance

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

#### WARNING!

**Plastic bags are a suffocation hazard. Dispose of plastic bags properly and do not allow children to play with them.**

- Make sure all hardware is secured properly, but do not overtighten any hardware.
- To clean the TRU Balance 4 Power Positioning system, wipe it with a cloth dampened with mild soap and water. Thoroughly dry the unit before using. To properly clean the TRU Comfort back cushion, follow the cleaning instructions in the “TRU Comfort” section of this manual.



**Figure 21. Headrest Adjustment Components**





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