



# Rehab Shower Commode Chairs

## Raz - AT User Manual



**A guide to help authorized Raz users safely setup  
and adjust Raz Rehab Shower Chairs**

# SAFETY PRECAUTIONS

## Failure to comply may cause injury or damage!

It is important that the Raz Rehab Shower Chair be properly assembled and that all adjustments be made carefully. Please ensure that the user(s) and attendant(s) have read this User Manual and thoroughly understood the safe operation of the Raz Shower Chair. Up-to-date manuals are available online at [www.razdesigninc.com](http://www.razdesigninc.com). For clarification of any section of this manual, contact your distributor or the manufacturer.

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CHAIR MODEL AND MAXIMUM USER WEIGHT	
AT	350 lbs (160 kg)

## SAFETY WARNINGS TO CONSIDER FOR USER PURPOSES

### Forward Stability

The casters on all models are equipped with dual locks. The step-on lever activates both the roll lock and the swivel lock. ***It is essential that all casters on the shower chair be in an outward position before engaging the locks for optimal forward and lateral stability.*** If so equipped, disengage the optional directional caster lock before rotating the rear caster to the rearward position and applying the caster's dual-locks.

***USERS MUST NOT*** lean forward while sitting in the Raz Shower Chair as this may cause the chair to tip forward.

***USERS MUST NOT*** wheel down a ramp without an attendant who can hold onto the chair during the descent.

***CASTER LOCKS ARE NOT BRAKES! Never use caster locks to slow down the shower chair when descending inclines as this could cause the chair to tip in the direction of travel.***

### Lateral Stability

***USERS MUST NOT*** lean over the edge of a Raz Shower Chair as this could cause the chair to tip.

***USERS MUST NOT*** attempt to pick up objects from the floor by leaning over and reaching – a reacher or assistance from others should be employed.



**USERS MUST NOT** position the Raz Shower Chair on a side slope as this could cause it to tip.



### Ramps and Other Inclines

Ramps and other surfaces that are not level (such as slopes into wheel-in showers) must be tested with an attendant to ensure that they don't compromise the chair's stability. A qualified healthcare professional should be consulted to assist with this process.

**DO NOT push or pull the Raz-AT up or down an incline or ramp that exceeds a 1:12 grade (5° slope).**



**DO NOT** allow any user to be propelled (pushed or pulled) in a Raz-AT Shower Chair in any other manner than by an attendant.

**ALWAYS CHECK THAT THE RAZ-AT SHOWER CHAIR IS STABLE BEFORE IT IS OCCUPIED BY ANY USER AT ANY TIME.**

### Immersion

The Raz Shower Chair is not designed to be used as a pool chair. Do not immerse the shower chair in whole or in part, in water or any other liquid. Damage to the shower chair components may result.



### Transfers

The most dangerous part of using any shower chair is the transfer. Since every chair has different stability characteristics, it is essential to carefully review and test the transfer technique to ensure that the procedure is safe. Test transfers should be performed with an attendant who can prevent the chair from tipping or moving during the transfer. If you feel that the transfers cannot be repeatedly performed safely, contact a healthcare professional who is familiar with transfer techniques and options. Individuals who have not learned safe transfer skills must seek assistance during transfers and may require the use of a mechanical lift.

### Transferring onto a Raz-AT Shower Chair

**ALWAYS** lock all four casters in an outward position (front casters positioned in the forward position/rear casters positioned to the rear) for maximum chair stability. Caster locks **DO NOT and CANNOT** prevent the casters from sliding, and the shower chair from moving, if the floor is slippery. A slippery floor can be caused by dust, water, soap or any substance that does not allow the casters to grip the floor securely.



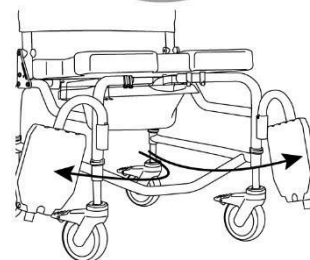
CASTERS SHOWN IN OUTWARD POSITION

**Transfers should never be attempted with the shower chair positioned on slippery surfaces.** It is recommended that transfers be performed on clean, dry, non-slippery surfaces. Hard surface flooring such as tile, wood or concrete may not provide sufficient grip to keep locked casters and/or rear wheels from sliding. A fully-carpeted surface is optimal. Be aware that area rugs and shower mats can slide on floors and thereby present a hazardous surface.



**DO NOT** stand on any part of the frame of the Raz-AT Shower Chair.

**NEVER use the footplates to assist in transfers.** This could cause the chair to tip. The footrests should be swung to the side or removed entirely during transfers to provide unobstructed access to the shower chair.



### **Tilt Function**

**ALWAYS** check the tilt function and ensure both locking gas springs and release cable assemblies are fully operational **BEFORE** the chair is occupied by the user.

A pelvic strap can act as an additional safeguard for the user in. A pelvic support strap may be ordered as an option with the Raz-AT.

**DO NOT** attempt to tilt an occupant if the attendant is physically incapable of safely and smoothly operating the tilt function.

**NEVER** leave the user unattended in a tilted position in a Raz-AT Shower Chair.

The Raz-AT Shower Chair **is NOT** intended for use as a transportation device or a long-term seating system.

## **IMPORTANT !**

**USERS SHOULD NEVER BE LEFT UNATTENDED IN A RAZ SHOWER CHAIR.**

## **IMPORTANT !**

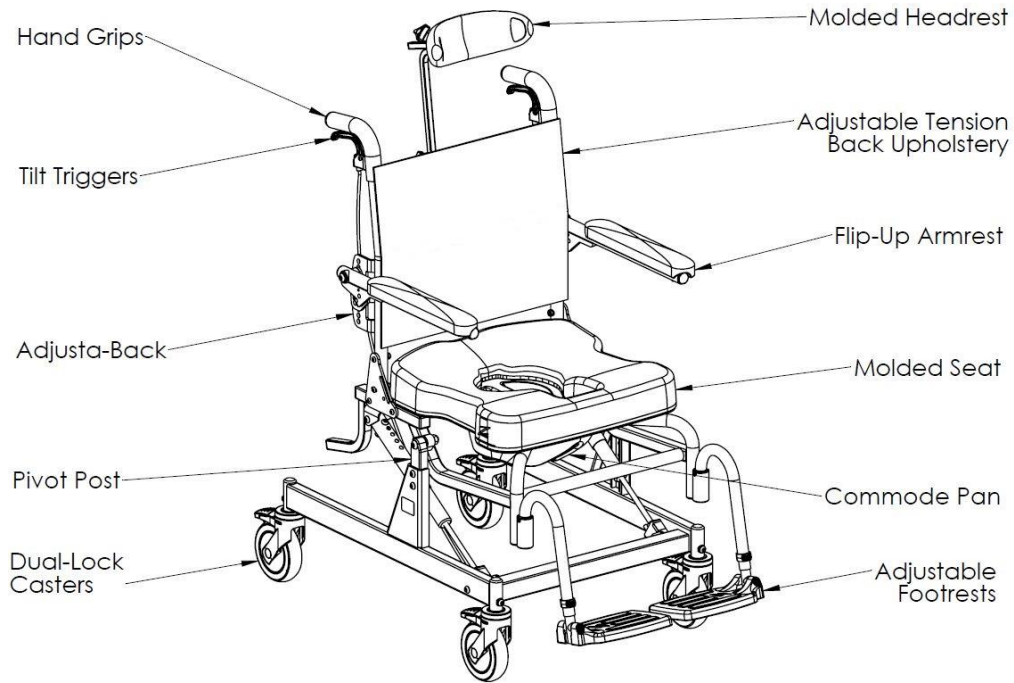
**DO NOT LIFT A RAZ SHOWER COMMUNE CHAIR AND OCCUPANT BY THE ARMRESTS OR FOOTRESTS!**

## USER MANUAL TABLE OF CONTENTS

1.0	GENERAL INFORMATION	
1.1	Raz-AT Rehab Shower Chair Overview.....	6
1.2	Raz-AT Rehab Shower Chair Specifications.....	6
2.0	USE AND OPERATION	
2.1	Tilt Function.....	7
2.2	Adjust-Back Backrest.....	7
2.3	Adjustable-Tension Back Upholstery .....	8
2.4	Molded Seat .....	9
2.5	Molded Headrest .....	10
2.6	Adjustable Footrests.....	10
2.7	Casters.....	10
2.8	Tilt-Assist Pedal.....	11
2.9	Commode Pan.....	11
3.0	CLEANING AND MAINTENANCE	
3.1	Cleaning After Each Use .....	12
3.1.1	Commode Pan.....	12
3.2.2	Molded Seat.....	12
3.2	Cleaning As Needed.....	12
3.2.1	Adjustable-Tension Back Upholstery.....	12
3.2.2	Frame, Armrests, Adjustable Footrests, and Other Components.....	12
3.3	Suggested Cleaning Products .....	13
4.0	LIMITED WARRANTY .....	14
5.0	CONTACTS .....	15

## 1.0 GENERAL INFORMATION

### 1.1 Raz-AT Rehab Shower Chair Overview



### 1.2 Raz-AT Rehab Shower Chair Specifications

SPECIFICATIONS	Raz-AT
<b>WEIGHT CAPACITY</b>	350 lbs (160 kg)
<b>FRAME WIDTH (seat and back frames)</b>	18" (46cm)
<b>OVERALL WIDTH</b>	22.5" (57cm)
<b>OVERALL LENGTH (with footrests)</b>	39" (99cm)
<b>SEAT WIDTH (commode seat)</b>	18" (46cm)
<b>SEAT DEPTH (front of back post to front of seat)</b>	16" or 19" (40 or 48cm)
<b>CLEARANCE HEIGHT with pan brackets: without pan brackets:</b>	17"-21" (43-53cm) 17.75"-21.75" (45-55cm)
<b>ARMREST HEIGHT ABOVE SEAT (20" Adjusta-Back)</b>	7.5"-10.5" in ½" increments (19-27cm)
<b>SEAT-TO-FLOOR HEIGHT</b>	21.25"-25.25" in 1" increments (54-64cm)
<b>PRODUCT WEIGHT (with footrests)</b>	61 lbs (28 kg)
<b>FRAME AND HARDWARE MATERIAL</b>	Stainless Steel (Lifetime warranty against corrosion)

## 2.0 USE AND OPERATION

### **IMPORTANT !**

**ADJUSTMENTS SHOULD NEVER BE ATTEMPTED WITH THE USER IN THE CHAIR.**

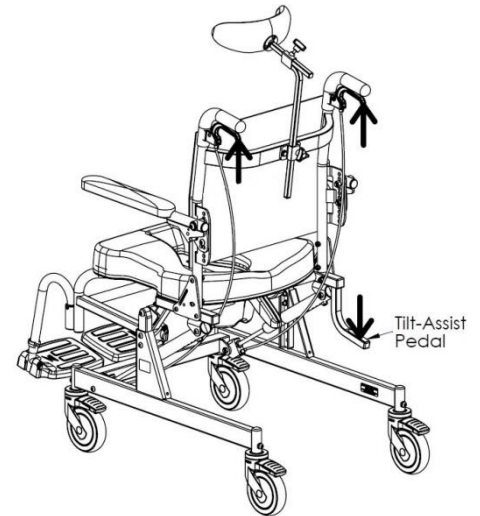
#### **2.1 Tilt Function**

The Raz-AT Shower Commode tilts up to 40° to provide comfort and relieve pressure for the user. Two gas spring struts facilitate this action

and make the tilt smooth for the user and facilitate the tilting function for the attendant. To tilt the chair, the attendant must squeeze both tilt triggers and move the chair to the desired angle. To lock the chair in place, the triggers are simply released.

Directly after purchase, the triggers and springs may seem stiff. This stiffness is normal and diminishes with use. Using the tilt-assist pedal will help to tilt the seat frame back. The tilt function must only take place when the casters are locked.

*NOTE: When the chair is mounted at the lowest height setting the maximum potential tilt angle is 40°. The higher the chair is set, the fewer degrees the chair can be tilted back. (With a seat-to-floor height of 25" the chair can be tilted back 36°)*

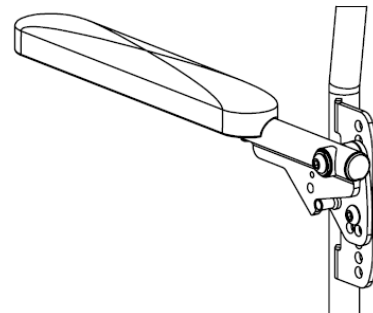


### **IMPORTANT !**

**DO NOT ATTEMPT TO TILT A RAZ SHOWER CHAIR IF THE ATTENDANT IS PHYSICALLY INCAPABLE OF SAFELY AND SMOOTHLY OPERATING THE TILT MECHANISM WITH A USER OCCUPYING THE CHAIR. ANY ATTENDANT MUST BE FAMILIAR WITH PROPER TILTING TECHNIQUES PRIOR TO ASSISTING A USER IN THE SHOWER COMMODE. A PELVIC STRAP IS RECOMMENDED FOR ANY USER AS AN EXTRA SAFETY PRECAUTION.**

#### **2.2 Adjusta-Back Backrest**

The Adjusta-Back is adjustable in angle (85°, 90°, or 95°) and has armrests that can be adjusted in height and angle. The armrests lock automatically when flipped down. The Adjusta-Back can be ordered in either 17", 20" or 24" back heights.



### 2.3 Adjustable-Tension Back Upholstery

The Adjusta-Back Backrests come with an Adjustable-Tension Back Upholstery that provides trunk support for optimal positioning and comfort. The upholstery is removable for machine washing and available in the 17", 20", and 24" heights in accordance to the back height selected for the chair.

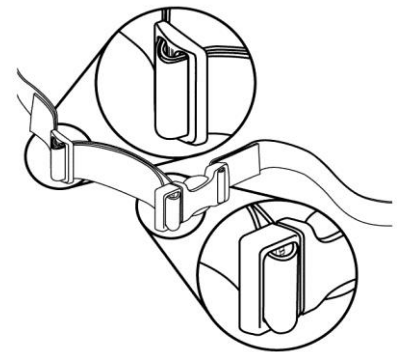
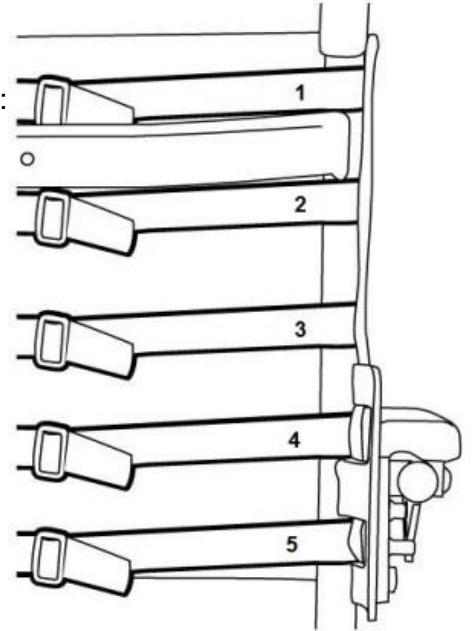
To install the Adjustable-Tension Back Upholstery on an Adjusta-Back:

1. Place the fabric against the front of the backrest canes making sure that when wrapped around, the clips on the straps face away from the fabric and the loops point downwards.
2. The highest strap (1) is positioned above the crossbar.
3. Second (2) and third (3) straps are positioned between the crossbar and backrest mounting plates.
4. The fourth (4) and fifth (5) straps are fed through the slots in the armrest mounting plates.
5. A 20" high back includes a sixth strap, which is positioned below the armrest mounting plates.
6. Adjust all of the straps to meet the user's needs.

*NOTE: For the 24" Adjusta-Back, the two highest straps should be located above the backrest crossbar. The other five straps are located the same as the 20" Adjusta-Back.*

In order to adjust the back upholstery of the backrest, each strap can be tightened or loosened to achieve a wide range of positions. For example, the second and third straps from the bottom can be tightened to create more pronounced support in the lumbar area of the back.

To remove the Adjustable-Tension Back Upholstery, release the buckles on the straps.

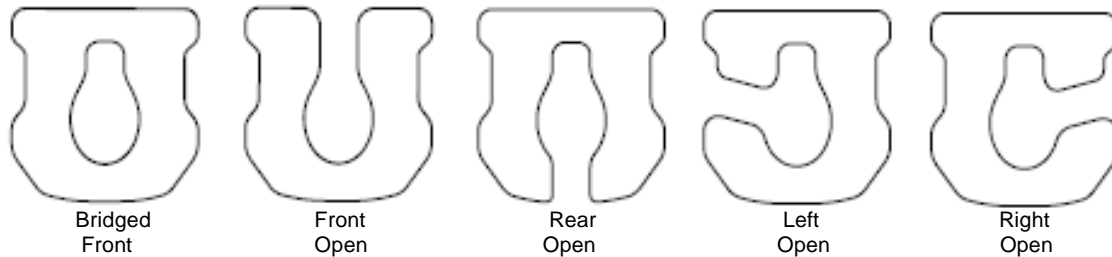




## 2.4 Molded Seat

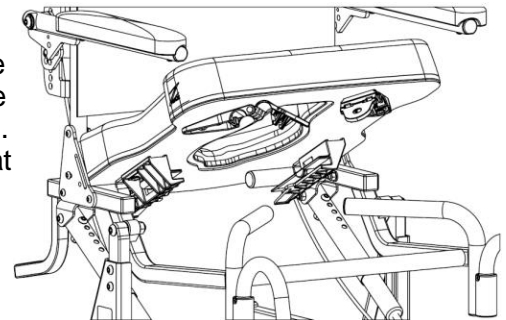
The standard molded seats on Raz-AT Shower Chairs were designed to help stabilize the pelvis and are contoured for pressure reduction. The molded seats are made from soft, integral-skin foam and are available in four configurations: 16" deep front open, 16" deep bridged front, 19" deep front open and 19" deep bridged front. Also available as an upgrade in pressure reduction are Visco-Foam Interface seats. The Visco-Foam seats are available in 16" and 19" seat depths, each with 5 configurations: bridged front, front open, rear open, left open, and right open.

All seats feature the unique Ischial Pelvic Alignment System (IPAS) that provides 2" of fore and aft adjustment, locks in place for transfers and removes easily for cleaning. Optional spacers for anterior or posterior seat angle are available. All Raz chairs fit over most standard toilet bowls when the commode pan is not in place.



To install a Raz Seat:

1. Ensure that the front brackets are in the open position. To open the front brackets, simply pry open.
2. Slide the rear of the seat over the rear cross tubes as the front of the seat is lowered onto the frame. Check to make sure that the rear seat brackets hook below the cross tubes.
3. Continue lowering the front of the seat until the front seat brackets nestle onto the front seat support tubes.
4. Secure the seat in place by closing the front seat brackets. To close the seat bracket, snap the clamp back onto its other half around the front support tubes.
5. Reverse steps 1 to 4 to remove the seat from the frame.



### **IMPORTANT !**

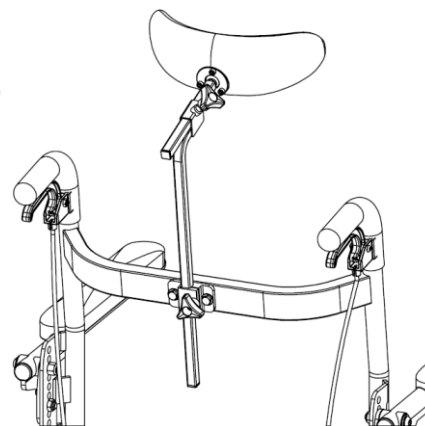
**NEVER ATTEMPT TO CHANGE THE SEAT HEIGHT WITHOUT THE HELP OF A QUALIFIED DEALER. HIGHER SEAT POSITIONS WILL REDUCE THE CHAIR'S STABILITY AND MAY RESULT IN TIPPING AND INJURY.**

## 2.5 Molded Headrest

A Molded Headrest is included with all Raz-AT Shower Chairs. The Molded Headrest is shaped to cradle the head comfortably and is easy to clean. The Molded Headrest can be adjusted indefinitely forward and backwards within a 5" range and vertically within a 11½" range.

To adjust the Molded Headrest:

1. Loosen the bottom tri-lobe knob and adjust the vertical "swan neck" bar.
2. Loosen the top tri-lobe knob and adjust the headrest horizontally for a fore/aft change in position.
3. To change the angle of the headrest pad, loosen (*do not remove*) the three screws on the back of the Molded Headrest. Rotate the headrest around the end of the headrest mounting bar to suit the user's needs and tighten the screws to secure.
4. Ensure that all knobs and screws are tightened securely for the user's safety.



## 2.6 Adjustable Footrests

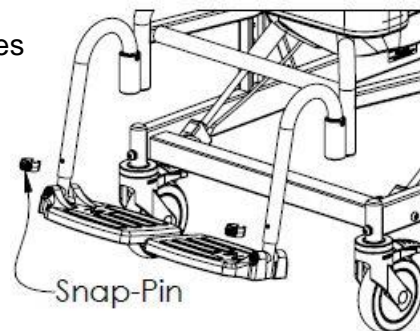
Adjustable Footrests are standard on all Raz Shower Chairs. For transfers, the footrests can be flipped up, rotated away or removed entirely. Adjustable Footrests can be extended for users with longer legs with the optional footrest extension tube, a 2" longer tube that can be ordered for any Raz Shower Chair.

To insert the Adjustable Footrests:

1. Place the footrest hanger tubes into the footrest receivers.
2. If the hanger tubes are aligned forward, the pins on the tubes will engage with grooves in the receivers and lock in place.

To adjust the length of the Adjustable Footrests:

1. Remove the snap-pin from one footrest hanger tube.
2. Reposition the footplate to a length suitable for the user.
3. Insert the snap-pin through the footrest hanger tube and through the inner tube.



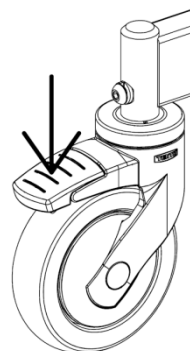
To rotate the Adjustable Footrests:

1. Lift the footrest hanger tubes to disengage the pins.
2. Rotate the footrests outward or inward.

To remove the Adjustable Footrests, lift the footrests out of the receiving sleeves on the frame.

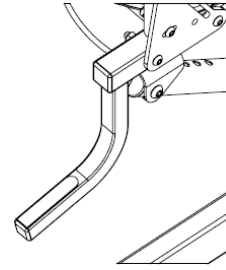
## 2.7 Casters

Each Raz Shower Chair caster is equipped with a dual-lock feature, which stops the caster from swiveling and rolling simultaneously. To engage the dual-lock, step on the end of the caster brake lever until it latches in the "on" position. To deactivate the dual-lock, step on the raised end of the dual-lock until it latches in the "off" position.



## 2.8 Tilt-Assist Pedal

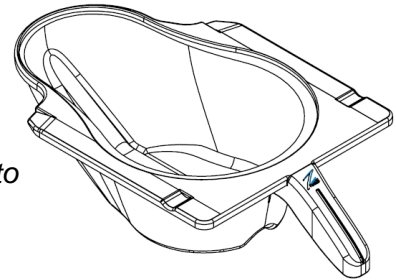
A Tilt-Assist Pedal is available with the Raz-AT Shower Chair to facilitate tilting the chair for attendants.



## 2.9 Commode Pan

The Raz Commode Pan is designed with an elongated shape that fits directly under the seat to minimize back splash. A unique splash-reduction ridge is located at center of the pan. The high gloss surface facilitates cleaning and rinsing, while the pouring spout and handle facilitate emptying. Removal of the Commode Pan is achieved by sliding the pan rearward.

*NOTE: When re-inserting the pan, ensure that the pan is guided into the green plastic brackets and pushed forward until it hits the stops.*



# IMPORTANT !

**A QUALIFIED RAZ DEALER SHOULD BE CONTACTED TO CHECK ALL FASTENERS, CASTER AND WHEEL LOCKS, HARDWARE, AND ALL OTHER MOVING COMPONENTS AT LEAST ONCE PER YEAR.**

## 3.0 CLEANING AND MAINTENANCE

### 3.1 Cleaning After Each Use

#### 3.1.1 Commode Pan

1. Remove the commode pan and empty contents.
2. Wash the pan with a multi-purpose disinfectant cleaning solution. Use a soft brush if needed.
3. Rinse well before storage or re-use.

*NOTE: A soapy hot water wash followed by a disinfectant spray can be substituted for a multi-purpose disinfectant cleaning solution.*

#### 3.1.2 Molded Seat

1. Spray with a multi-purpose disinfectant cleaner and scrub with a soft brush as required.
2. Rinse with a water spray before storage or re-use.  
**DO NOT IMMERSE** the seat in water or cleaning solutions.
3. For a more thorough cleaning, remove the seat from the shower chair to allow better access to the underside of the seat and around the opening of the seat.

### 3.2 Cleaning As Needed

#### 3.2.1 Adjustable Tension Back Upholstery

1. Remove the plastic buckles and tri-glides from the back upholstery straps, paying attention to how the straps are wound through each component as they are removed.
2. Remove the back upholstery from the back frame and machine wash with a mild detergent in warm water on a normal or gentle wash cycle. Include other strap accessories such as the H-strap, pelvic and chest positioning straps.
3. Install the back upholstery and other positioning accessories on the chair and allow to dry.  
**DO NOT** dry the back upholstery in a clothes dryer or damage to the upholstery may occur.
4. Assemble all plastic buckles and tri-glides onto straps.
5. Adjust the straps to the desired tension.

#### 3.2.2 Frame, Armrests, Adjustable Footrests, and Other Components

1. Spray the frame and components with a multi-purpose disinfectant cleaner, scrub with a soft brush and rinse with water.
2. If necessary, spray the frame and components with a diluted (10 parts water to 1 part solution) calcium/lime remover (such as CLR), scrub with a soft brush and rinse thoroughly with water.  
**DO NOT** mix a calcium/lime removal solution with any other liquid or toxic fumes may result.

It is recommended to the user that a qualified Raz dealer check over all fasteners and subassemblies on a continuing basis or if there is cause for concern to the shower chair's performance.

Several times each year the shower chair and its components should be wiped down with a diluted calcium/lime removal solution in order to reduce deposits, followed by a hot water rinse.

To reduce the risk of mildew buildup, the entire shower chair should be wiped down with a soft dry cloth after the final rinse and before storage or use.

### 3.3 Suggested Cleaning Products

Task	Recommended Products
General Cleaning	Antibacterial Detergent
Disinfectant Surface Cleaner Intermediate Level Disinfectant	Oxiver TB (Virox Technologies Inc.) SepteFX 7D-11 (Titan Worldwide Inc.)
Calcium and Lime Deterrent	CLR

## **IMPORTANT !**

**DO NOT USE ABRASIVE POWDERS OR SCOURING PADS ON THE RAZ SHOWER CHAIR.**

**DO NOT SUBMERGE THE RAZ SHOWER CHAIR IN WATER.**

**RINSE THOUROUGHLY AFTER CLEANING TO ENSURE THAT ANY SOAP OR DETERGENT RESIDUE IS REMOVED.**

**DO NOT USE CLEANING PRODUCTS WITHOUT CONSULTING THE PRODUCT'S INSTRUCTIONS AND TAKING APPROPRIATE PRECAUTIONS FOR HUMAN EXPOSURE TO CHEMICALS.**

## 4.0 LIMITED WARRANTY

This warranty is extended only to the original purchaser/user for Raz Rehab Shower Chairs that have been purchased from a qualified Raz dealer.

This warranty gives you specific legal rights, but you may have additional legal rights depending on your region and country.

This warranty shall be extended to comply with state/provincial laws and requirements.

With regards to the original purchaser/user only, Raz Design warrants its base and back frame components to be free of defects in materials and workmanship for a period of two (2) years from the date of purchase. All other components on the Raz Rehab Shower Chair are covered for a period of one (1) year and are subject to normal wear and tear exclusions. If within such warranty period any such product shall be proven to be defective, the part will be repaired or replaced, at Raz Design's discretion. This warranty does not include any labor or shipping charges incurred in replacement, part installation, or repair of any such product.

For warranty service, please contact the dealer from whom you purchased your Raz Rehab Shower Chair. In the event that you do not receive satisfactory warranty service, please contact Raz Design directly using the contact information located in either the beginning or the end of this manual. In your correspondence please provide your dealer's name and address, the product type, the date of purchase, the chair's serial number (on a grey label located on the chair frame), as well as the nature of the product issue. Do not return products to the manufacturer without prior authorization.

### **Limitations and Exclusions:**

The foregoing warranty shall not apply to serial numbered products if the serial number has been removed or defaced, and to products subjected to negligence or an accident. Improper operation, maintenance, or storage may void the warranty coverage on the Raz Rehab Shower Chair.

The warranty does not apply to products modified without Raz Design's express written consent. This includes, but is not limited to, modification through the use of unauthorized parts or attachments, products damaged by reason of repairs made to any component by an individual or individuals who are not employed by a qualified Raz dealer, or to a product damaged by circumstances beyond Raz Design's control. Only Raz Design will have the authority to determine whether or not the circumstances are eligible for warranty coverage. The warranty will not apply to problems arising from normal wear or failure to adhere to the instructions contained in this manual.

The foregoing warranty is exclusive and in lieu of any other warranties, whether express or implied, including the implied warranties of merchantability and fitness for a particular purpose. The sole remedy for violations of any warranty whatsoever will be limited to repair or replacement of the defective product in compliance to the terms contained in this document.

The application of any implied warranty shall not extend beyond the duration of the express warranty provided herein. Raz Design will not be liable for any consequential or incidental damages to part or whole of a Raz Rehab Shower Chair.

## 5.0 CONTACTS

It is important that the Raz Rehab Shower Chair be properly assembled and all adjustments be made carefully. Up-to-date manuals can be downloaded from [www.razdesigninc.com](http://www.razdesigninc.com), or ordered by mail. For clarification of any section of this manual, contact a local Raz dealer, the Canadian distributor, or the manufacturer.

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### **IMPORTANT !**

**IF IT IS EVER FELT THAT ANY ASPECT OF THE RAZ SHOWER CHAIR IS IN NEED OF MAINTENANCE, CONTACT YOUR DEALER. ANY PROBLEMS THAT COULD AFFECT THE SAFE USAGE OF THE CHAIR MUST BE ATTENDED TO IMMEDIATELY. THE DEALER THAT PROVIDED THE SHOWER CHAIR MUST BE CONTACTED SO THAT REPAIRS CAN BE MADE PRIOR TO USING THE CHAIR. IT MUST BE MADE CLEAR TO THE DEALER THAT THE SHOWER CHAIR IS IN NEED OF MAINTENANCE AND IS UNAVAILABLE FOR USE UNTIL REPAIRS HAVE BEEN UNDERTAKEN AND ALL PROBLEMS RESOLVED.**

**IF FOR ANY REASON, YOUR DEALER DOES NOT RESPOND TO YOUR SATISFACTION, PLEASE CONTACT RAZ DESIGN:**

<b>BY EMAIL</b>	<b><a href="mailto:info@razdesigninc.com">info@razdesigninc.com</a></b>
<b>BY PHONE</b>	<b>1.877.720.5678</b>