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I. INTRODUCTION

SAFETY

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

Read and **follow** all instructions, warnings, and notes in this manual before attempting to operate your wheelchair for the first time. You must also read all instructions, warnings, and notes contained in any supplemental instructional booklets that accompanied your wheelchair before initial operation. Your **safety** depends upon you, as well as your provider, caretaker, or healthcare professional in using good judgment.

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 Provider. **Failure to follow the instructions in this manual and those located on your wheelchair can lead to personal injury and/or damage to the wheelchair, including voiding the warranty.**

PURCHASER'S AGREEMENT

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

SHIPPING AND DELIVERY

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

Pride Mobility Products Company
5096 South Service Road
Beamsville, Ontario L0R 1B3

NOTE: If you ever lose or misplace your copy of this manual, contact us and we will be glad to send you a new one immediately.

II. SAFETY

PRODUCT SAFETY SYMBOLS

The symbols below are used on the wheelchair 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.

Maximum seating weight.

Keep your hands, clothing, and all other objects away from the tires when driving. Do not allow any personal belongings to drag behind the wheelchair when driving. Be aware that loose-fitting clothing or other objects can become caught in the drive wheels and/or they may become entangled in the running gear.

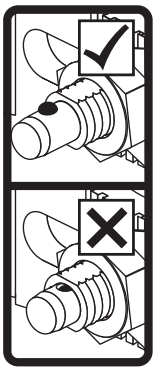
Avoid exposure to rain, snow, ice, salt, or standing water whenever possible. Maintain and store in a clean and dry condition.

Pinch/Crush points created during assembly.

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

Do not allow the wheelchair to roll freely on a decline.

Do not allow the wheelchair to roll freely on an incline.



Ensure the ball detents on the quick-release axles snap into place and are fully visible after drive wheel installation.

Indicates wheelchair securement points.

Does not meet 7176-19 standards for occupied transport in a motor vehicle. Do not sit on your wheelchair while it is in a moving vehicle.

II. SAFETY

GENERAL GUIDELINES

MANDATORY! Do not operate your new wheelchair for the first time without completely reading and understanding this owner's manual.

Your wheelchair is a state-of-the-art life-enhancement device designed to increase mobility. Pride provides an extensive variety of products to best fit the individual needs of the wheelchair user. Please be aware that the final selection and purchasing decision regarding the type of wheelchair to be used is the responsibility of the wheelchair user, who is capable of making such a decision, and his/her healthcare professional (i.e., medical doctor, physical therapist, etc.).

The contents of this manual are based on the expectation that a mobility device expert has properly fitted the wheelchair to the user and has assisted the prescribing healthcare professional and/or the Quantum Rehab Provider in the instruction process for the use of the product.

There are certain situations, including some medical conditions, where the wheelchair user will need to practice operating the wheelchair 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 wheelchair user in various daily living activities.

As you begin using your wheelchair during daily activities, you will probably encounter situations in which you will need some practice. Simply take your time and you will soon be in full and confident control as you maneuver through doorways, on and off of elevators, up and down ramps, and over moderate terrain.

Below are some precautions, tips, and other safety considerations that will help you become accustomed to operating your wheelchair safely.

Modifications

Pride has designed and engineered your wheelchair to provide maximum mobility and utility. A wide range of accessories is available from your Quantum Rehab Provider to further customize your wheelchair to better suit your needs and/or preferences. However, under no circumstances should you modify, add, remove, or disable any feature, part, or function of your wheelchair.

WARNING! Do not modify your wheelchair in any way not authorized by Pride. Do not use accessories if they have not been tested or approved for Pride products.

Pre-Ride Safety Check

Get to know the feel of your wheelchair and its capabilities. Pride recommends that you perform a safety check before each use to make sure your wheelchair operates smoothly and safely. Before riding, you should be trained in the safe use of this wheelchair by your authorized Pride Provider.

Perform the following inspections prior to using your wheelchair:

- Check for proper tire inflation. Maintain but do not exceed the psi/bar/kPa air pressure rating indicated on each tire if equipped with pneumatic tires.
- Check the brakes. See V. "Care and Maintenance."

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

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

WARNING! Ensure legs, hands, and clothing are clear of the scissor-style wheel lock levers when attempting to transfer.

Prescription Drugs/Physical Limitations

Users must exercise care and common sense when operating a wheelchair. This includes awareness of safety issues when taking prescribed or over-the-counter drugs or when the user has specific physical limitations.

WARNING! Consult your physician if you are taking prescribed or over-the-counter medication or if you have certain physical limitations. Some medications and limitations may impair your ability to operate your wheelchair in a safe manner.

Alcohol/Smoking

The wheelchair user must exercise care and common sense when operating his/her wheelchair. This includes awareness of safety issues while under the influence of alcohol or while smoking.

WARNING! Do not operate your wheelchair while you are under the influence of alcohol, as this may impair your ability to operate your wheelchair in a safe manner.

WARNING! Pride strongly recommends that you do not smoke cigarettes while seated in your wheelchair, although the wheelchair 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 wheelchair.

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

Flammability Precautions

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

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

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

THE LITESTREAM XF LTD

The Litestream XF LTD is a dual-purpose, rear-wheel drive wheelchair designed to operate both indoors and outdoors on smooth surfaces.

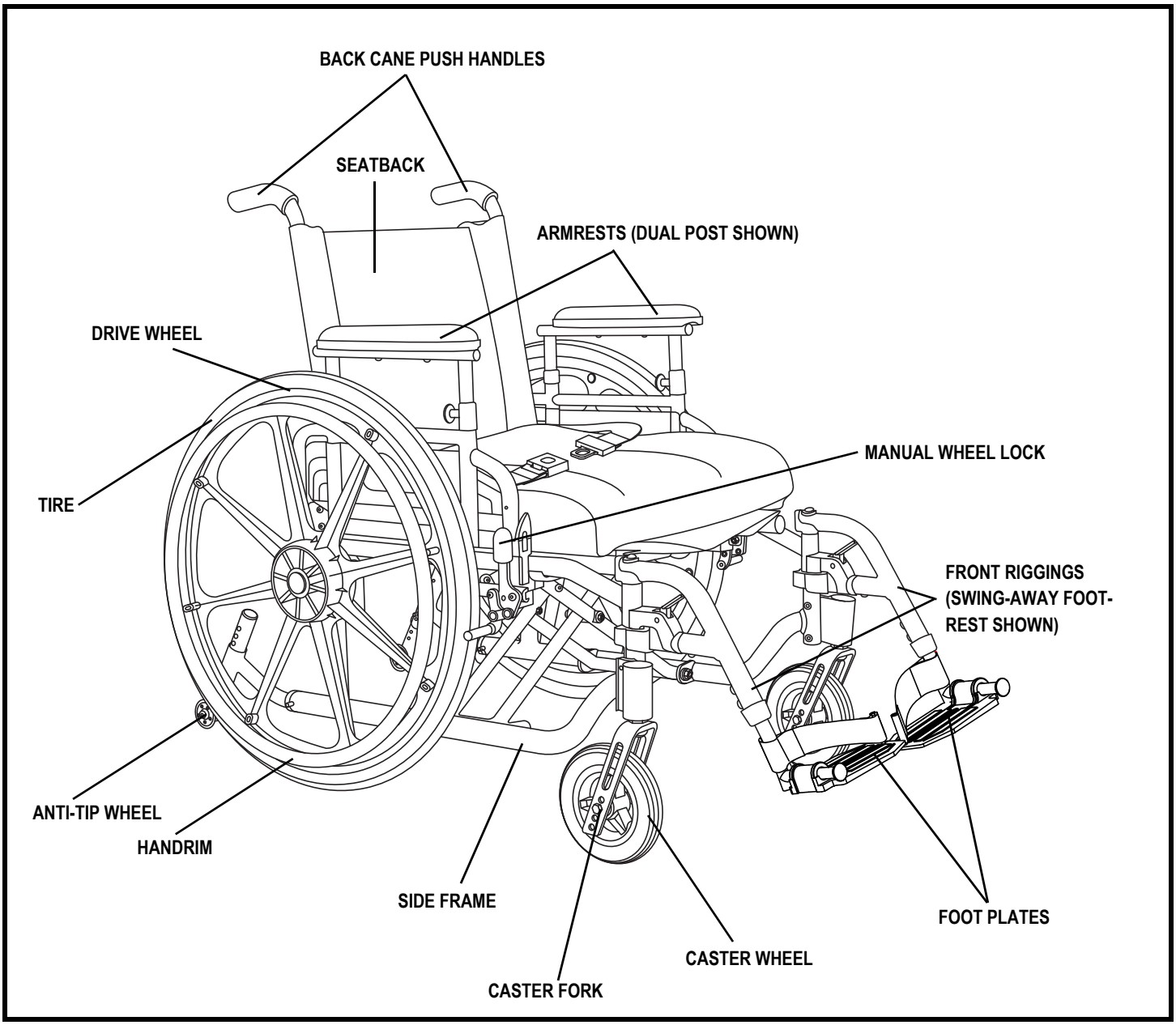


Figure 5. The Litestream XF LTD Wheelchair

USING THE LITESTREAM XF LTD

The Litestream XF LTD is a manual wheelchair. Either an attendant pushes it, or you move it by gripping the handrims (**see figure 5**) and turning them in the desired direction of travel. You steer it by turning one wheel faster than the other. To stop the wheelchair, you apply pressure to both handrims until the wheelchair comes to a complete stop.

Unfolding

The Litestream XF LTD is a folding wheelchair. Unfold it completely before sitting in it.

To unfold the Litestream XF LTD:

1. Engage both manual wheel locks. **See figure 6.**

WARNING! Use care when operating the manual wheel locks. Possible pinch point created during operation.

2. Place the palms of your hands on each seat base rail. **See figure 7**.
3. Press down until the seat base rails are locked into place.

Folding

Folding the wheelchair makes it easier to carry and store. The folded width is 29.85 cm (11.75 in.).

To fold the Litestream XF LTD:

1. Engage both manual wheel locks. **See figure 6.**
2. Flip up the foot plates (if applicable)
3. Hold the seat base by the center at the front and at the back. **See figure 7.**
4. Pull up on the strap until both wheels close together. **See figure 8.**

Transporting Your Litestream XF LTD

The Litestream XF LTD was designed to be folded and stored in a secure location, such as the trunk of a car, during motor vehicle transport.

To stow the Litestream XF LTD:

1. Fold the Litestream XF LTD.
2. With one hand, grab and squeeze together both back cane handles. **See figure 9.**
3. With the other hand, grab and squeeze together both seat base rails.

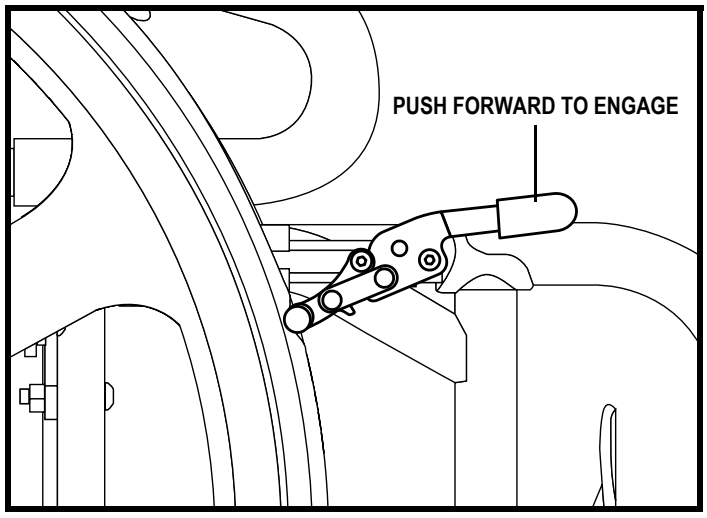


Figure 6. Right Manual Wheel Lock Engaged (Push-to-Lock Shown)

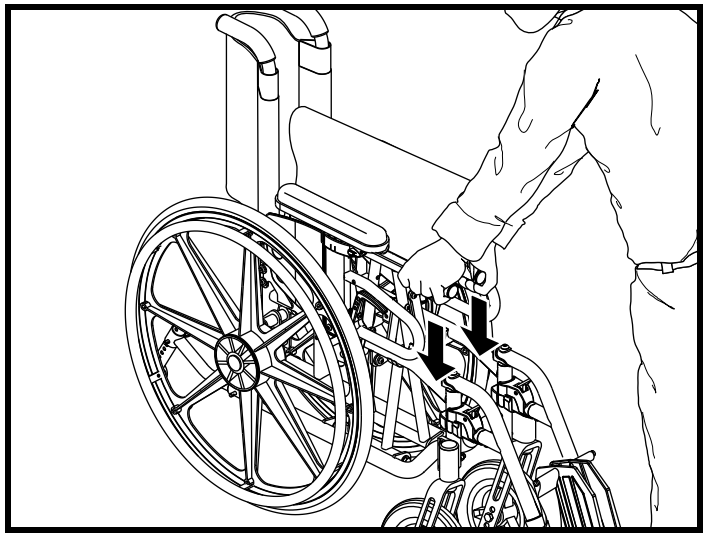


Figure 7. Unfolding the Litestream XF LTD

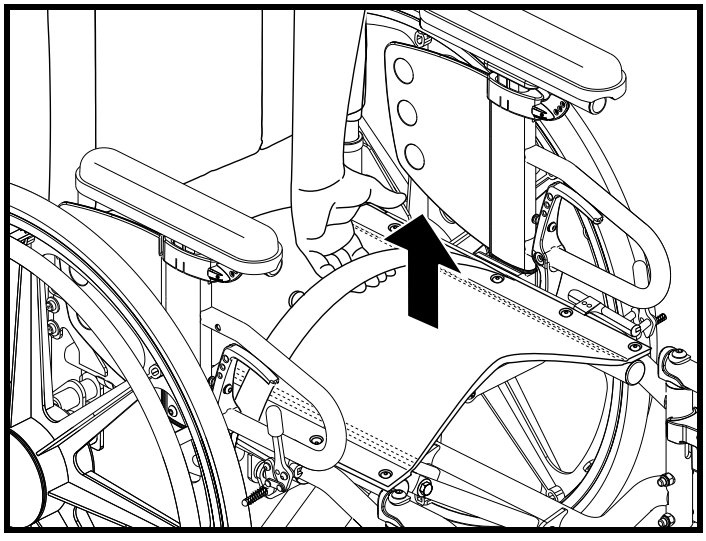


Figure 8. Folding the Litestream XF LTD

NOTE: You can also remove the drive wheels to make the wheelchair more compact. See "Drive Wheel Adjustments."

WARNING! If you remove the drive wheels, make sure the ball detents on the quick-release axles snap into place when reinstalling the wheel, if equipped. See "Drive Wheel Position."

Optional Caster Pin Lock

If your wheelchair is equipped with a caster pin lock, you can lock the caster wheels in the forward position to aid in transferring. The caster pin lock should be engaged prior to transfer and disengaged prior to operating the wheelchair.

To operate the caster pin lock:

1. Rotate the lever so that the securement pin is not in the groove to engage the caster pin lock. **See figure 11.**
2. Rotate the lever so that the securement pin is securely in the groove to disengage the caster pin lock. **See figure 11.**

Wheelchair Securement Points

The wheelhair may be equipped with four (4) tie-down points for the purpose of securing the unoccupied wheelchair during motor vehicle transport. Each tie-down point is clearly labeled for this purpose.

To secure a wheelchair equipped with tie-down points:

- Always secure the wheelchair in a forward-facing position in the vehicle.
- Attach the four tie-down straps only to designated, labeled transit securement points indicated by anchor symbols on the wheelchair. **See figure 10.** Tighten the straps to sufficiently remove all slack.
- Never attach tie-downs to adjustable, moving, or removable parts of the wheelchair such as armrests, front riggings, and wheels.
- Position the anchor points for the rear tie-down straps directly behind the rear securement points on the wheelchair. The front tie-down straps should be anchored to floor points that are spaced wider than the wheelchair to provide increased stability. **See figure 10.**

MANDATORY! The wheelchair should be used as indicated in the manufacturer's instructions. If you have any questions about the proper use of your wheelchair, contact your Quantum Rehab Provider.

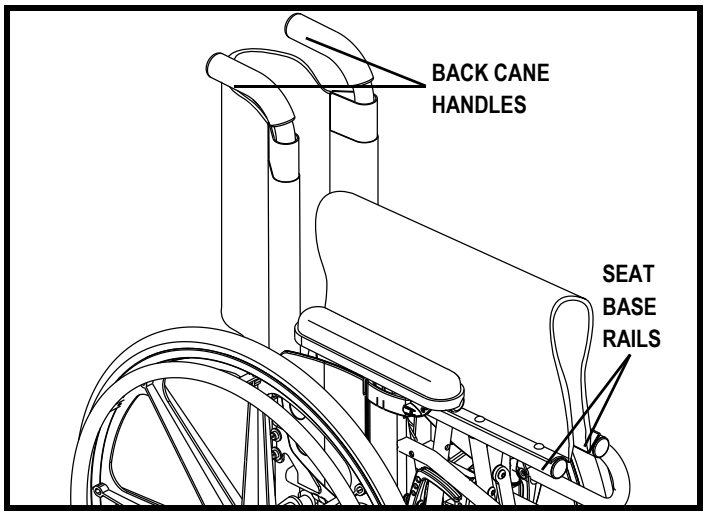


Figure 9. Lifting Points

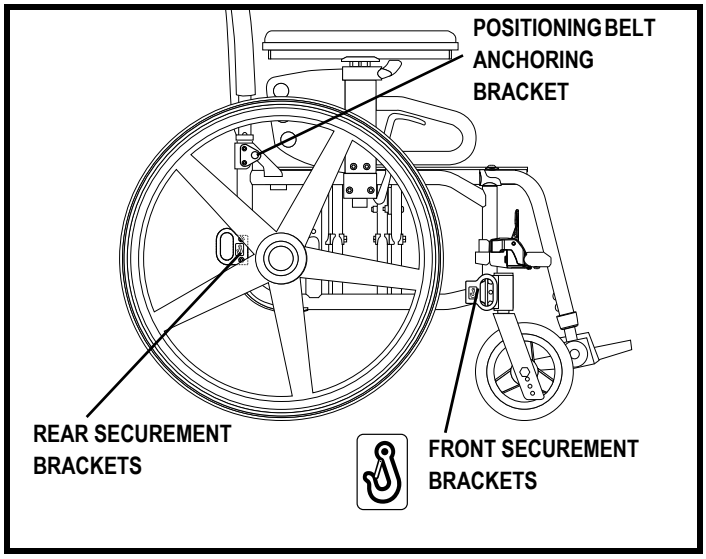


Figure 10. Securement Points

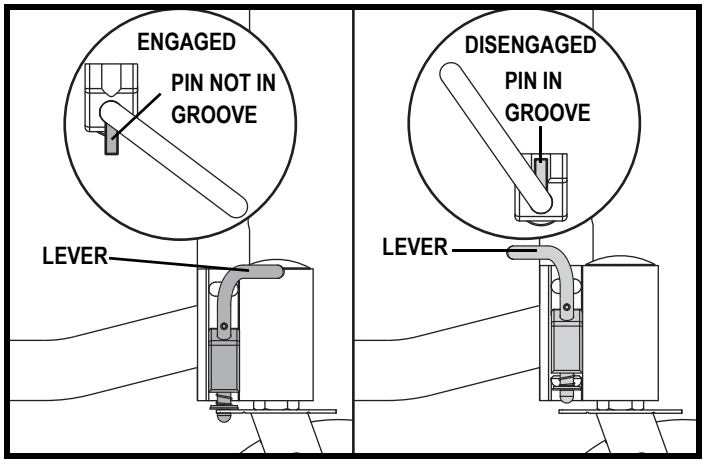


Figure 11. Caster Pin Lock Operation

IV. COMFORT ADJUSTMENTS

COMFORT ADJUSTMENTS

After becoming familiar with your wheelchair's operation, you may find the need to make some adjustments to increase your comfort such as drive wheel position, swing-away footrest length, elevating leg rest length and angle, calf pad height, depth, and angle, seatback height, armrest height, seat angle, wheel lock position, seat tension, and caster angle.

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

WARNING! Some wheelchair 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 wheelchair.

WARNING! Remove the occupant from the wheelchair before making any adjustments.

You may need the following to make comfort adjustments:

- 1/8-in. wrench
- 3/8-in. wrench
- 7/16-in. wrench
- 1/2-in. wrench
- 3/4-in. wrench

NOTE: Any nylon insert lock nut removed during the disassembly or adjustment of the wheelchair must be replaced with a new nut. Nylon insert lock nuts should not be reused as it may cause damage to the nylon insert, resulting in a less secure fit. Replacement nylon insert lock nuts are available through your Quantum Rehab Provider.

NOTE: It may be necessary to apply thread lock when reinstalling hardware.

Drive Wheel Adjustments

Your wheelchair is equipped with either a bolt-on or a quick-release drive wheel. The location of the drive wheel center bolt and nut on the axle bracket determines the drive wheel position. The location of the axle bracket on the wheelchair frame determines the drive wheel height and can affect performance and center of gravity.

NOTE: If you change the drive wheel position, you may have to change the caster height and adjust the wheel lock. Consult your Quantum Rehab Provider.

WARNING! Ensure the ball detents on the quick-release axles snap into place and are fully visible after drive wheel installation.

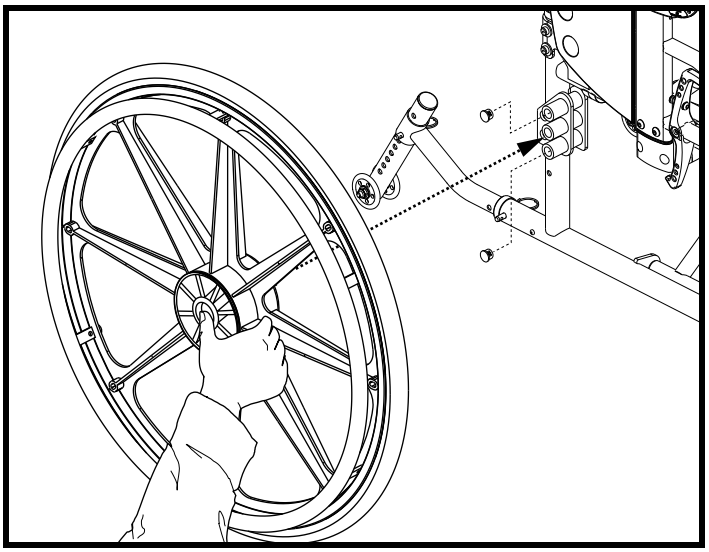


Figure 12. Quick Release Drive Wheel

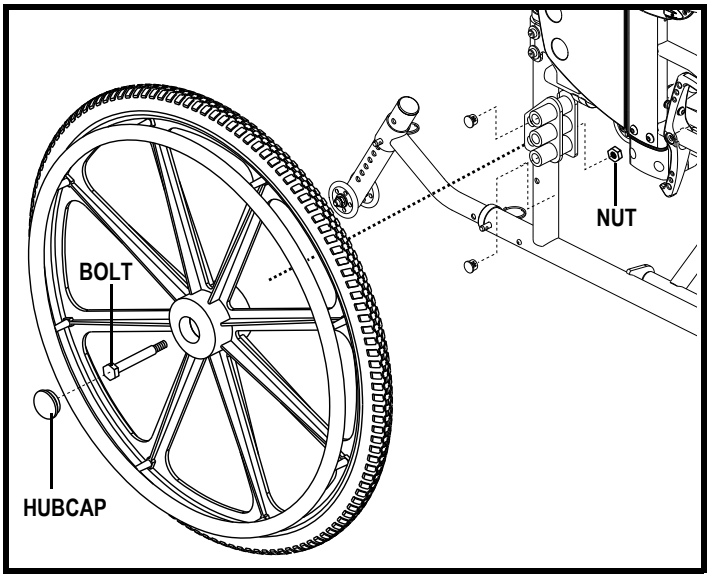


Figure 13. Bolt-on Drive Wheel

IV. COMFORT ADJUSTMENTS

WARNING! The more forward that you adjust your drive wheel, the more likely your wheelchair will tip over backward. Always make adjustments in small increments, and check the stability of your wheelchair with a Quantum Rehab Provider or with a spotter to prevent a tip over. We recommend that you use anti-tip tubes until you adapt to the change and are sure that you are not at risk to tip over.

To change the drive wheel position:

1. Remove the drive wheel. If your wheelchair is equipped with a quick-release drive wheel, press the quick-release button and pull the drive wheel off. **See figure 12.** If your wheelchair is equipped with a bolt-on drive wheel, remove the hubcap, and then remove the nut and bolt. **See figure 13.**
2. Pull the drive wheel off of the wheelchair
3. Remove the hardware that fastens the drive wheel bracket to the frame. **See figure 14.**
4. Reposition the drive wheel bracket to the desired position (either A or B).
5. Reinstall the hardware that fastens the drive wheel bracket to the frame.
6. Reinstall the drive wheel. Make sure that the wheel axle is snapped securely into the axle bracket or the hardware is reinstalled and securely tightened, depending on how your wheelchair is equipped.

NOTE: Make sure that both drive wheels are adjusted to the same position.

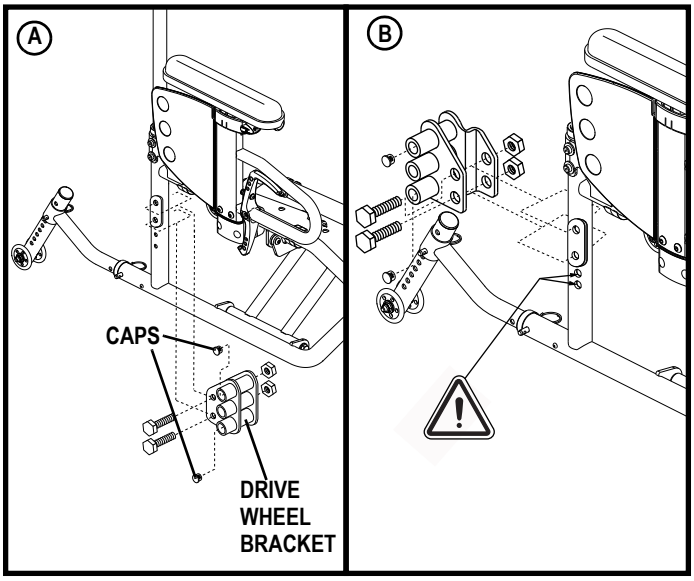


Figure 14. Drive Wheel Position Adjustment

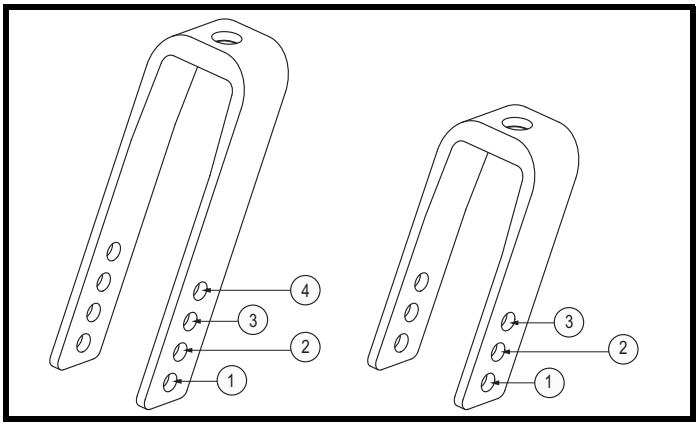


Figure 15. Long and Short Caster Fork Positions

IV. COMFORT ADJUSTMENTS

WARNING! If your wheelchair is equipped with a transit securement system, the drive wheel height should only be adjusted by a Quantum Rehab Provider or a qualified technician.

NOTE: If the caps are removed to obtain the desired center of gravity, make sure that they are replaced in the same hole on each side of the wheelchair to maintain the same STF height on each side.

To change drive wheel height:

1. Remove the drive wheel. If your wheelchair is equipped with a quick-release drive wheel, press the quick-release button and pull the drive wheel off. **See figure 12.** If your wheelchair is equipped with a bolt-on drive wheel, remove the hubcap, and then remove the nut and bolt. **See figure 13**.
2. Pull the drive wheel off of the wheelchair.
3. Reposition the drive wheel up or down to the desired position.

NOTE: The wheel height can be adjusted to 3 different positions. See figure 16A and 16B for more information on seat-to-floor heights.

4. Reinstall the drive wheel. Make sure that the wheel axle is snapped securely into the axle bracket or the hardware is reinstalled and securely tightened, depending on how your wheelchair is equipped.

NOTE: Make sure that the caps on both sides of the wheelchair are inserted into the same positions on the drive wheel bracket. This will ensure that both drive wheels are adjusted to the same height.

NOTE: Make sure that both drive wheels are adjusted to the same position.

WARNING! Ensure the quick-release axles are properly secured.

Front Seat-to-Floor Height Matrix (Caster Wheel)				
STF Height	**10.16 cm (4 in.)**	**12.7 cm (5 in.)**	**15.24 cm (6 in.)**	**20.32 cm (8 in.)**
31.75 cm (12 in.)	S3			
31.75 cm (12.5 in.)	S2			
33.02 cm (13 in.)	S1/F3	S2		
34.29 cm (13.5 in.)	T3/F2	S1/T4		
35.56 cm (14 in.)	T2/F1	T3/F2	*S1/T4	
36.83 cm (14.5 in.)	T1	T2/F1	T3	
38.1 cm (15 in.)		T1	T2/F1	
39.37 cm (15.5 in.)			T1	
40.64 cm (16 in.)				T2
41.91 cm (16.5 in.)				T1

S = Short Fork
T = Tall Fork
F = Frog Legs

*Not available with quick-release fork option. All measurements are +/- 0.25 in. (0.6 cm).

Figure 16A. Front Seat-to-Floor Height

Rear Seat-to-Floor Height Matrix (Drive Wheel)						
Wheel:	**50.8 cm (20 in.)**	**50.8 cm (20 in.) Flipped**	**55.88 cm (22 in.)**	**55.88 cm (22 in.) Flipped**	**60.96 cm (24 in.)**	**60.96 cm (24 in.) Flipped**
STF						
35.56 cm (12 in.)	T					
33.02 cm (13 in.)	M	T	T			
35.56 cm (14 in.)	B	M	M	T	T	
38.1 cm (15 in.)		B	B	M	M	T
40.64 cm (16 in.)				B	B	M

Figure 16B. Rear Seat-to-Floor Height Matrices

*STF height may vary +/- 0.25 in. (0.6 cm) depending on wheel type.

T = Top hole of mounting bracket
M = Middle hole of mounting bracket
B = Bottom hole of mounting bracket

Litestream Seat-To-Floor Heights With Stem Extensions

The front and rear seat-to-floor (STF) heights will change according to the stem extensions for the bolt-on caster forks. Maximum seat dump is 5.08 cm (2 in.). Refer to the following charts for the changes to STF and required rear wheel size options.

Front Seat-to-Floor (STF) Height Matrix Front stem extension option						
No stem extension					0.75-in.	1.5-in.
Selected front STF	Caster (inches)				New Seat-to-Floor Height with stem extension	
	4	5	6	8		
Litestream hemi frame/Litestream XF LTD						
12.5 in.	X				13.25 in.	14 in.
13 in.	X	X			13.75 in.	14.5 in.
13.5 in.	X	X			14.25 in.	15 in.
14 in.	X	X	X		14.75 in.	15.5 in.
14.5 in.	X	X	X		15.25 in.	16 in.
15 in.		X	X		15.75 in.	16.5 in.
15.5 in.			X		16.25 in.	17 in.
16 in.				X	16.75 in.	17.5 in.
16.5 in.				X	17.25 in.	18 in.

Rear Seat-to-Floor (STF) Height Matrix Front stem extension option					
No stem extension					
Selected rear STF height	Required rear wheel option (inches)				
	20	22	24	25	26
Litestream hemi frame/Litestream XF LTD					
12.5 in.	X				
13 in.	X				
13.5 in.	X	X			
14 in.	X	X			
14.5 in.	X	X	X		
15 in.	X	X	X	X	
15.5 in.	X	X	X	X	X
16 in.	X	X	X	X	X
16.5 in.		X	X	X	X

IV. COMFORT ADJUSTMENTS

Swing-Away Footrest (SFR) Removal

The Swing-away Footrests (SFR) can be moved or removed to aid in transfers or transporting your wheelchair.

To move the SFR to the side:

1. Push the release lever back. **See figure 17.**
2. Move the SFR aside.
3. Repeat for the other side if necessary.

To remove the SFR:

1. Ensure the SFR is facing forward and not swung to the side.
2. Push the release lever back.
3. Pull the SFR up. **See figure 18.**
4. Repeat for the other side if necessary.

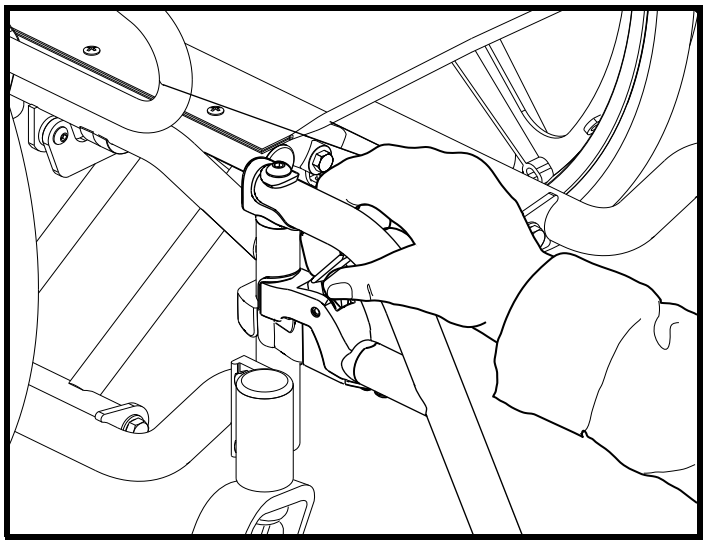


Figure 17. SFR Release

Swing-Away Footrest (SFR) Foot Plate Length

You can change the SFR foot plate length between 26-33 cm (10.25-13 in.) in 1.91-cm (0.75-in.) increments. This length is measured from the SFR foot plate to the top of the SFR.

To change the SFR foot plate length:

1. Remove the screws from the SFR. **See figure 19.**
2. Adjust the foot plate to the desired length.
3. Reinstall the screws into the SFR.
4. Repeat for the other side.

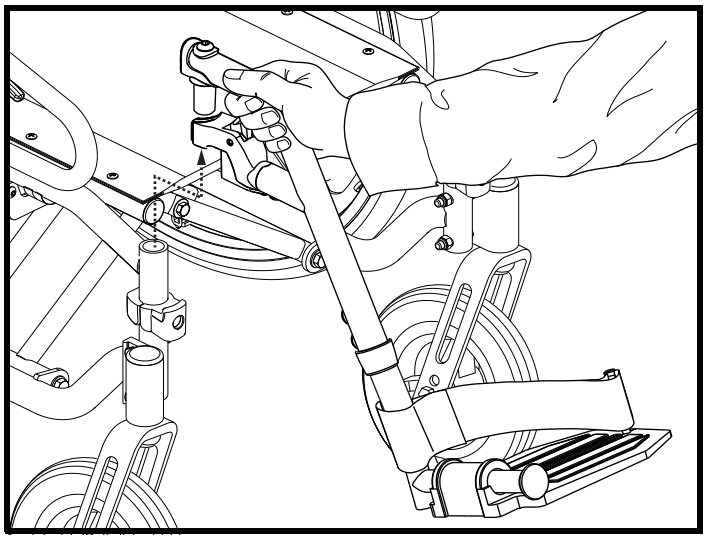


Figure 18. SFR Removal

Elevating Leg Rest (ELR) Foot Plate Length

You can change the ELR foot plate length between 33.66-55.88 cm (13.25-22 in.). This length is measured from the ELR foot plate to the top of the ELR. **See figure 20.**

To change the ELR foot plate length:

1. Loosen the screws on the back of the ELR.
2. Adjust the foot plate to the desired length.
3. Tighten the screws on the back of the ELR.
4. Repeat the procedure for the other side.

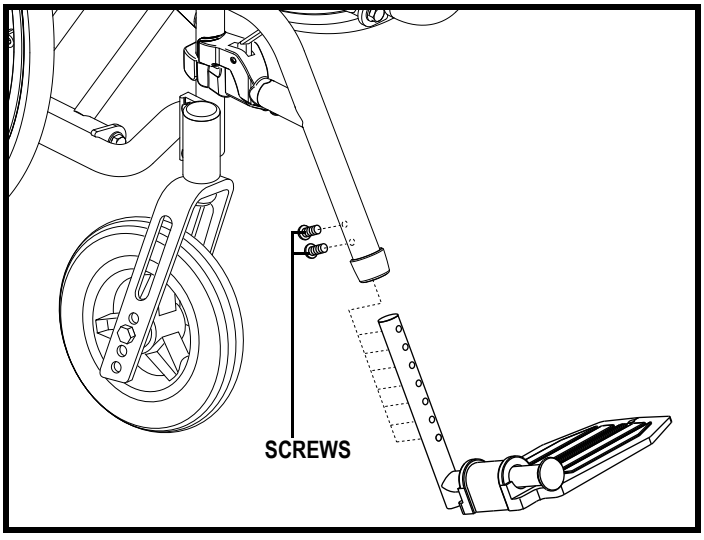


Figure 19. SFR Foot Plate Adjustment

IV. COMFORT ADJUSTMENTS

ELR Angle Adjustment

You can change the ELR angle. **See figure 21.**

To change the ELR angle:

1 To raise, pull the ELR up to the desired position.
2. To lower, pull the ELR release lever and lower the ELR to the desired position.

WARNING! Use care when operating. Possible pinch point created during operation.

ELR Calf Pad Adjustment

You can change the height and depth of the ELR calf pad. **See figures 22 and 23.**

To change the ELR calf pad height:

1. Remove the screw to unfasten the calf pad from the ELR.
2. Move the calf pad up or down to the desired position.
3. Replace the screw to refasten the calf pad to the ELR.
4. Repeat for the other side.

To change the ELR calf pad depth:

1. Remove the screw to unfasten the calf pad from the calf pad bracket.
2. Move the calf pad in or out to the desired position.
3. Replace the screw to refasten the calf pad to the calf pad bracket.
4. Repeat for the other side.

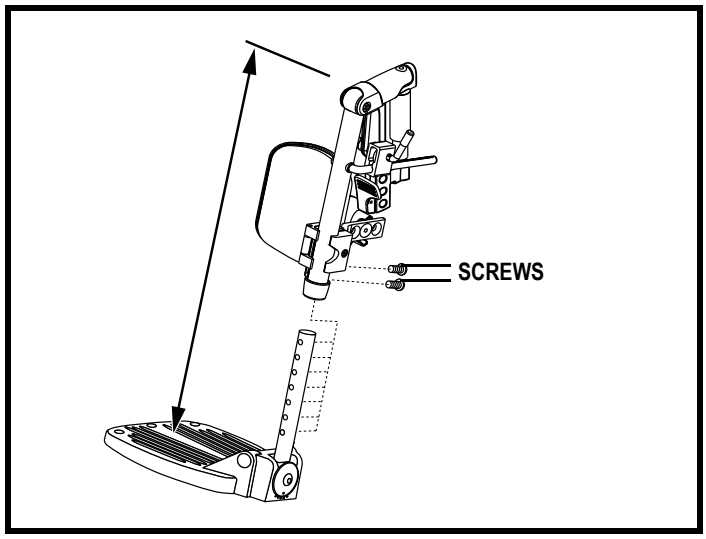


Figure 20. ELR Foot Plate Adjustment

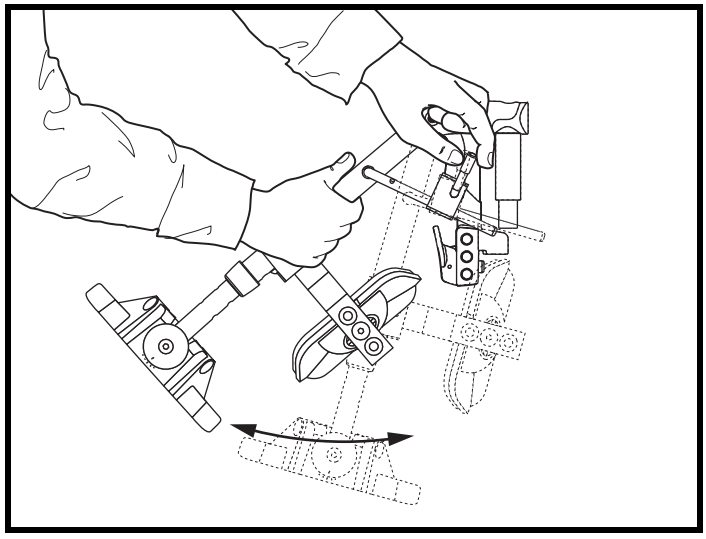


Figure 21. ELR Angle Adjustment

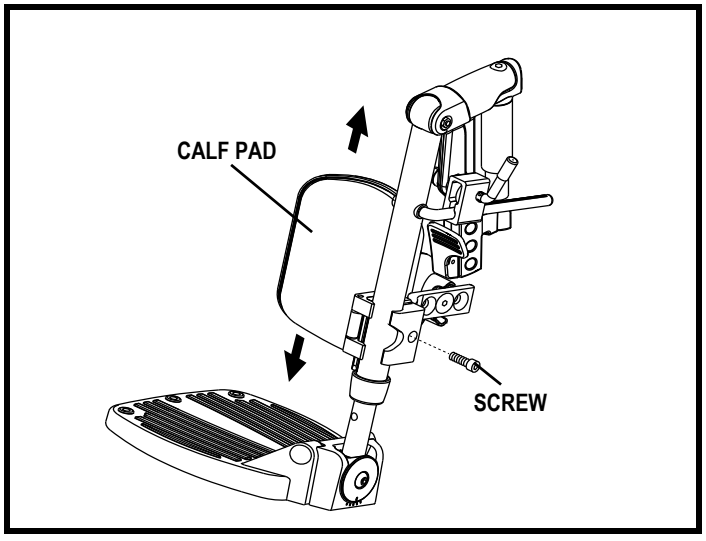


Figure 22. ELR Calf Pad Height Adjustment

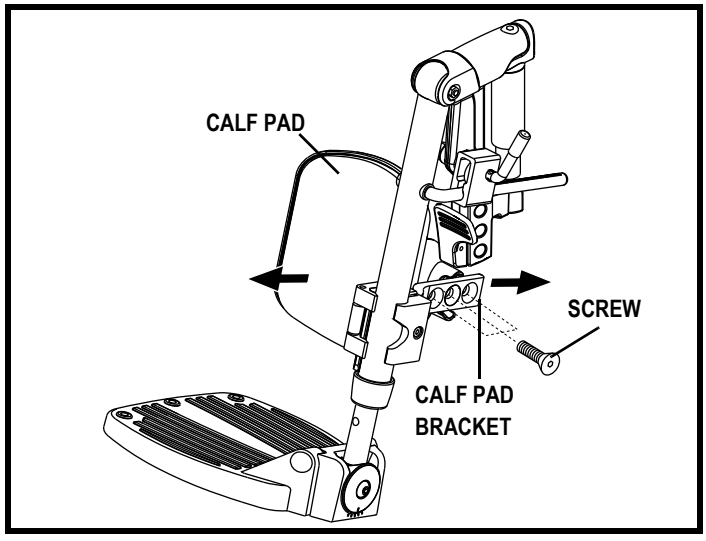


Figure 23. ELR Calf Pad Depth Adjustment

IV. COMFORT ADJUSTMENTS

Angle Adjustable Foot Plates

The angle adjustable foot plates have two adjustments: angle and depth. The depth can be adjusted to four (4) positions in 2.5-cm (1-in.) increments. If the position of the foot plate adapter is reversed, an additional 2 cm (0.75 in.) of depth can be achieved at the most forward and most rearward positions. **See figure 26.** The foot plates can also be flipped up for ease of transfer. **See figure 24.**

To adjust the foot plate angle:

1. Loosen the screws in the foot plate.
2. Tilt the foot plate forward or back to the desired angle. **See figure 25.**
3. Tighten the screws to secure the foot plate in place.

To adjust the foot plate depth:

1. Remove the screws and nuts from the foot plate assembly. **See figure 26.**
2. Remove the foot plate and foot plate adapter from the leg rest extension.
3. Reposition the foot plate on the foot plate adapter to achieve the desired depth. **See figure 26.**
4. Reinstall the screws to the foot plate and secure with the nuts. Do not fully tighten.
5. Slide the foot plate assembly onto the leg rest extension.
6. Adjust the foot plate to the desired angle and fully tighten the screws.

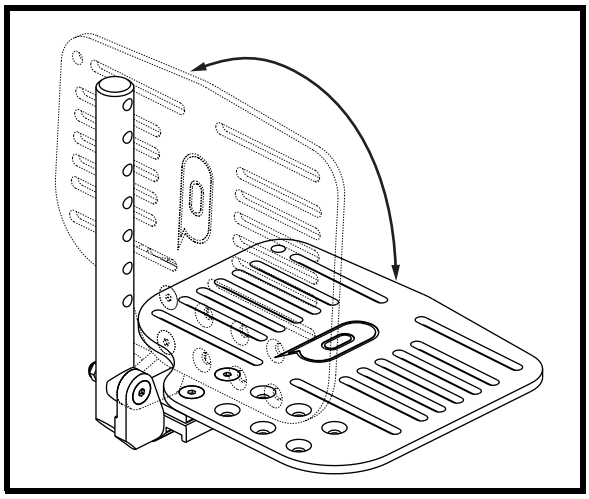


Figure 24. Foot Plate Flip Up Adjustment

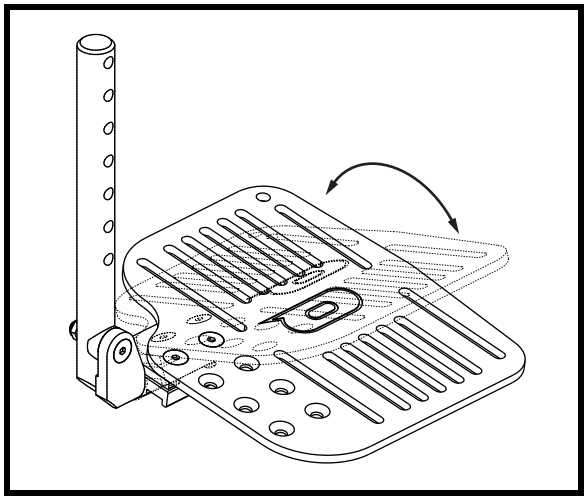


Figure 25. Foot Plate Angle Adjustment

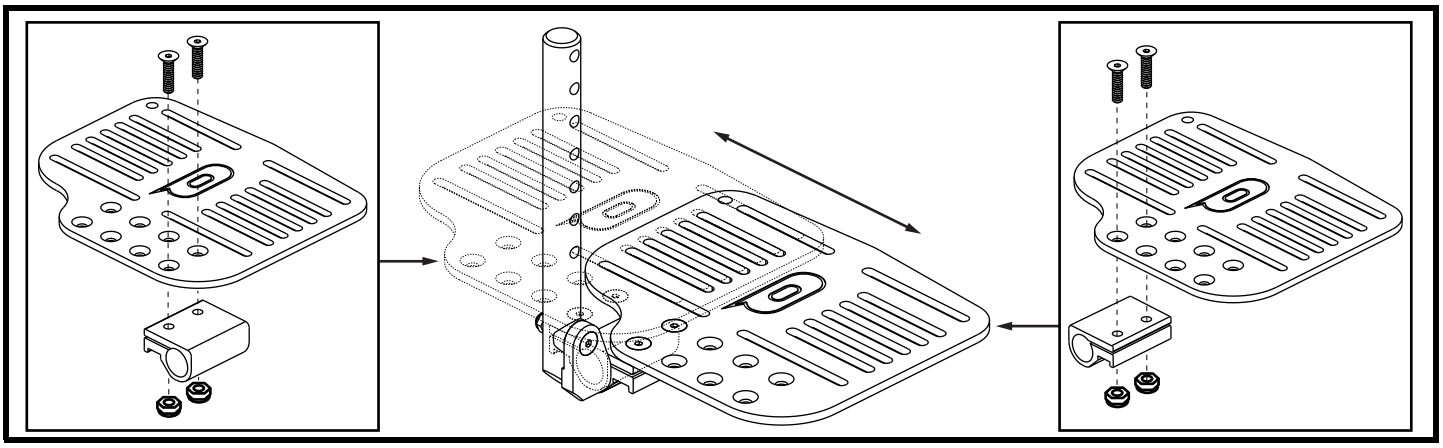


Figure 26. Foot Plate Depth Adjustment

IV. COMFORT ADJUSTMENTS

Seatback Height

You can adjust the seatback to one of two different heights. The adjustment range is 5 cm (2 in.) in 2.5-cm (1-in.) increments. **See figure 27.**

To adjust the seatback height:

1. Remove the screws and nuts that fasten the seat canes to each side of the frame.
2. Slide the seat canes up or down to the desired height.
3. Use the screws and nuts to refasten the seat canes to the frame.

Seatback Angle Adjustment (Optional)

Your wheelchair may be equipped with angle adjustable back canes that allow you to adjust the seatback to one of five different angles. The angle adjustment range is 85°-105° in 5° increments. **See figure 28.**

To adjust the seatback angle:

1. Remove the top screw and nut from the back cane and loosen the lower screw. **See figure 27.**
2. Rotate the eccentric washer to the appropriate position that represents the desired angle. **See figure 28.**
3. Reinstall the hardware to its original position from step 1.

Seat Angle (Dump) Adjustment

The position of the caster wheels affects the angle (dump) of the seat. By changing the location of the caster wheel on the fork, you change the seat angle. **See figure 33.**

NOTE: You can also adjust the seat angle by raising or lowering the drive wheel. See "Drive Wheel Position."

To change the seat angle:

1. Remove the hardware that fastens the caster wheel to the caster fork.
2. Reposition the caster wheel on the caster fork.
3. Reinstall the hardware that fastens the caster wheel to the caster fork.
4. Repeat the procedure for the other side, making sure both caster wheels are adjusted to the same position.

WARNING! Changing the seat angle may adversely affect stability and cause the wheelchair to tip over.

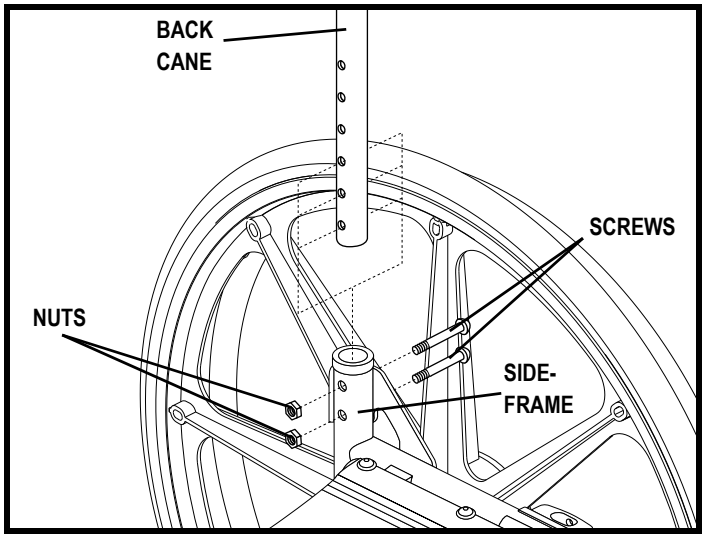


Figure 27. Seatback Height Adjustment

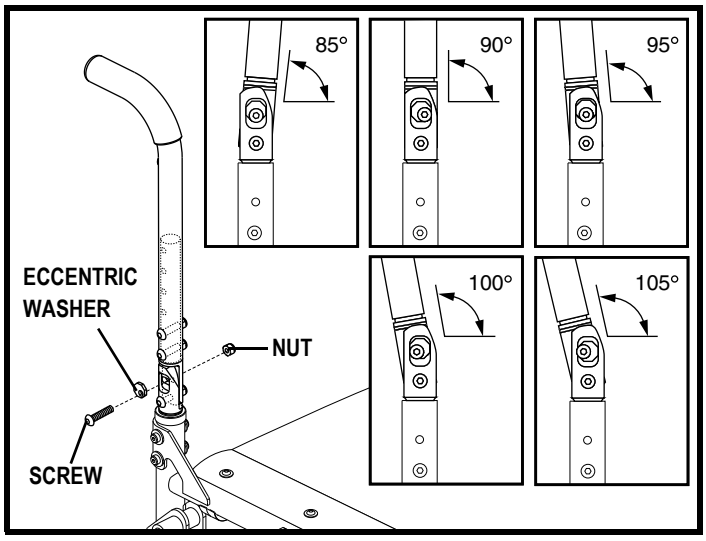


Figure 28. Seatback Angle Adjustment

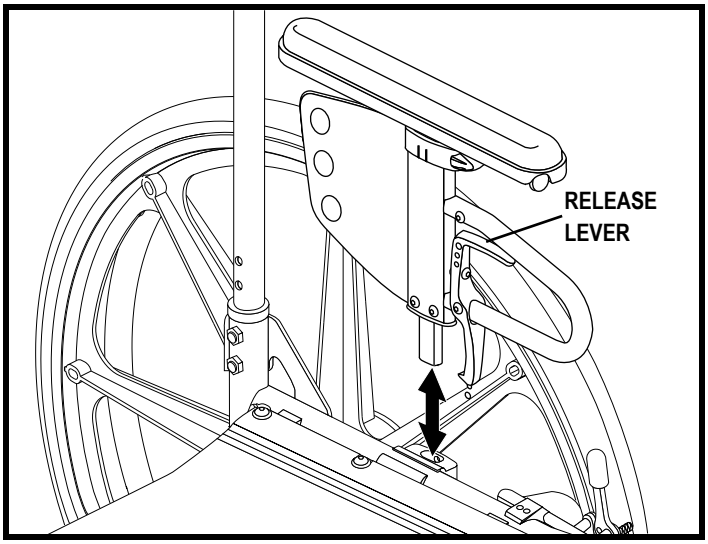


Figure 29. Single-post Armrest Removal

IV. COMFORT ADJUSTMENTS

Armrest Removal

The armrests can be removed to aid in transfers or transporting your wheelchair.

To remove the armrest:

1. Squeeze the release lever. **See figure 29.**
2. Pull the armrest up.
3. Repeat for the other side if necessary.

WARNING! Use care when operating. Possible pinch point created during operation.

Armrest Height Adjustment

You can adjust the armrest height to seven positions in 2.54-cm (1-in.) increments.

To adjust the armrest:

1. Rotate the latch located on the armrest. **See figure 30.**
2. Move the armrest up or down to the desired height.
3. Release the latch.
4. Make sure the armrest locks into place.
5. Repeat for the other side if necessary.

Dual-post Armrests

The dual-post armrests can be adjusted to aid in transfers or transporting your wheelchair.

To flip the dual-post armrest back:

1. Pull back the armrest latch located on the armrest. **See figure 31.**
2. Flip the armrest back.
3. Repeat the procedure for the other side if necessary.

To adjust the dual-post armrest height:

1. Pull back the release lever that is located on the armrest in either direction. **See figure 32.**
2. Move the armrest up or down to the desired height.
3. The release lever is spring-loaded and will automatically release.
4. Make sure the armrest latches into place.
5. Repeat the procedure for the other side if necessary.

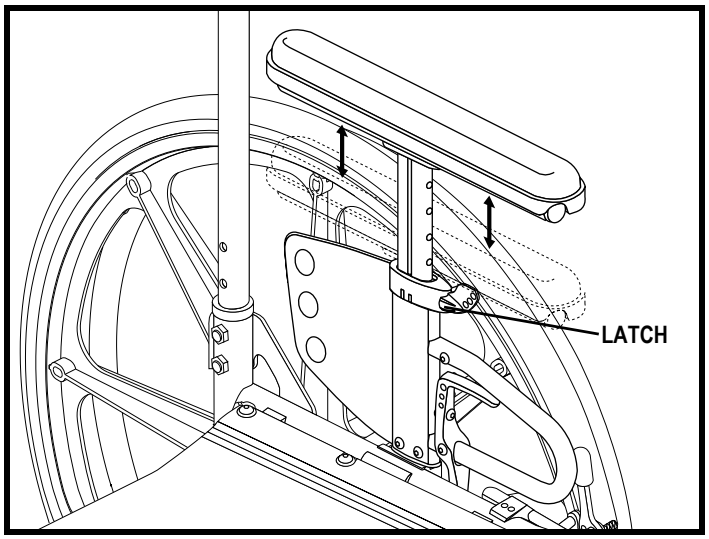


Figure 30. Single-post Armrest Height Adjustment

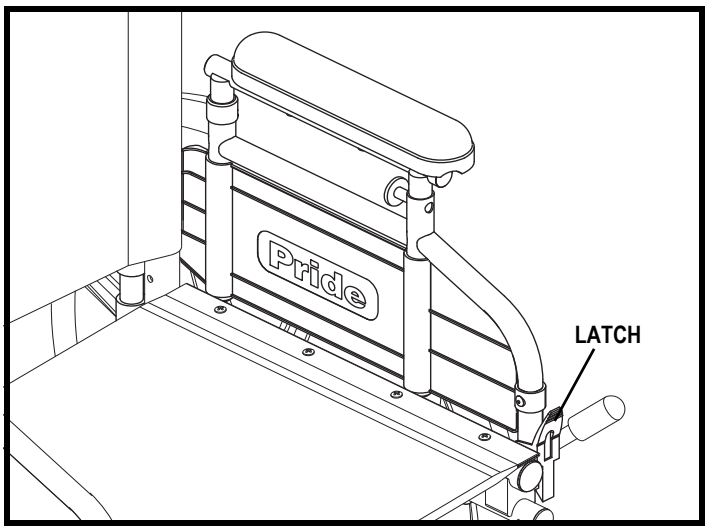


Figure 31. Dual-post Armrest Removal

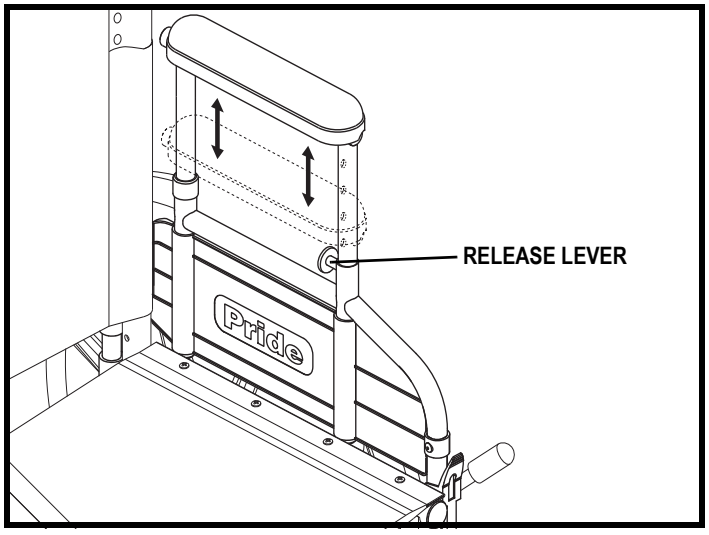


Figure 32. Dual-post Armrest Height Adjustment

Caster Angle Adjustment

When you change the seat angle, you must also change the caster angle so that the caster barrels remain at a 90° angle to the ground. There are seven possible caster angles. **See figure 33.**

NOTE: There are two screws that fasten the caster barrel assembly to the frame. The nuts that secure the screws are eccentric. The eccentric nuts should be positioned to the appropriate setting for the desired angle. A right-angle square is recommended for aligning the caster barrels to ensure 90° alignment to the ground.

To change the caster angle:

1. Remove the screws that fasten the caster wheel assembly to the frame.
2. Reposition the eccentric nuts to the desired setting and reinsert the bolts.
3. Tighten the screws.

NOTE: Either apply thread lock or obtain new hardware when reinstalling the caster wheels.

NOTE: Make sure that both casters are adjusted to the same angle.

Caster Wheel Removal

The casters can be removed one of two ways, depending on caster style.

To remove the bolt-on caster wheel:

1. Remove the hardware that attaches the caster wheel to the frame of your wheelchair. **See figure 35.**
2. Repeat for the other side if necessary.

To remove the quick-release caster wheel:

1. Press the quick-release button and pull the caster wheel off. **See figure 35.**
2. Repeat for the other side if necessary.

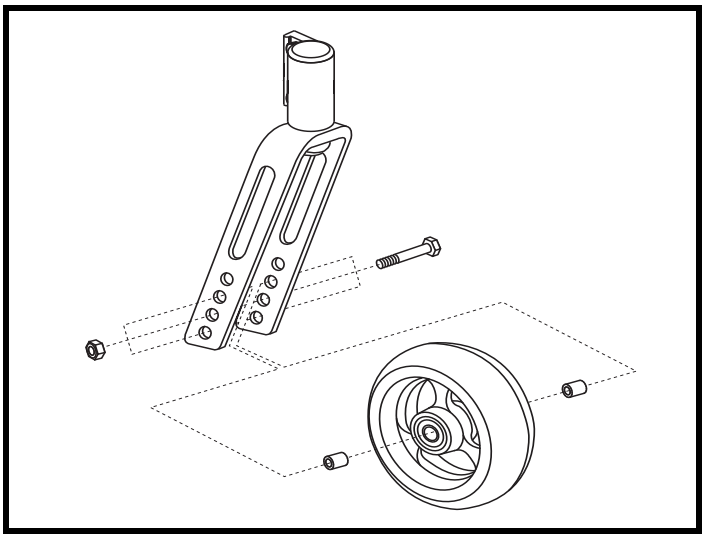


Figure 33. Caster Wheel Position

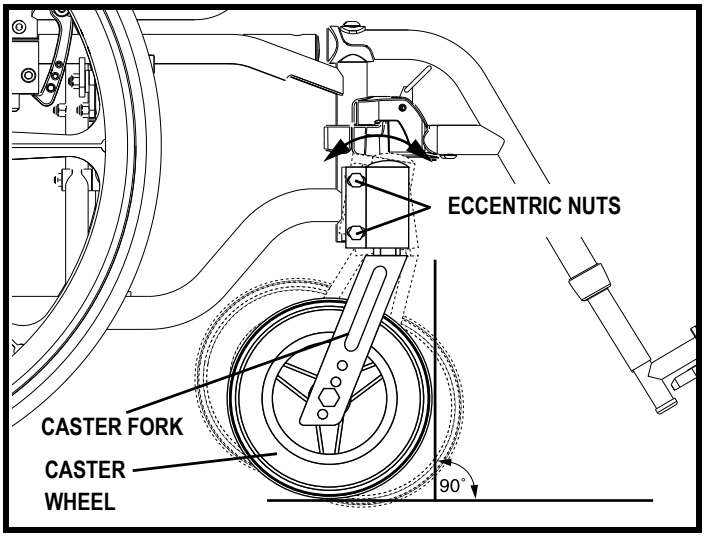


Figure 34. Caster Angle Adjustment

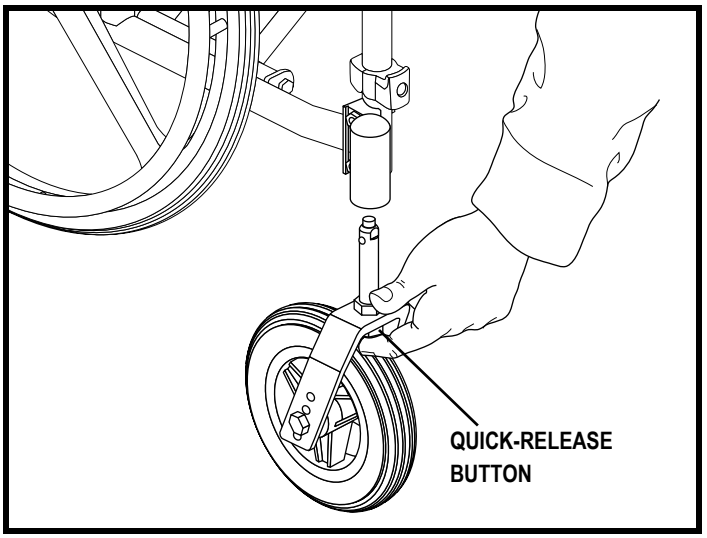


Figure 35. Quick-release Caster Removal

IV. COMFORT ADJUSTMENTS

Positioning Belt

Your wheelchair may be equipped with a positioning belt that can be adjusted for operator comfort. **See figure 36.** The positioning belt is designed to support the operator so that he/she does not slide down or forward in the seat. The positioning belt is not designed for use as a restraining device in a motor vehicle.

WARNING! The positioning belt is not designed for use as a seat belt in a motor vehicle. Nor is your wheelchair suitable for use as a seat in any vehicle. Anyone traveling in a vehicle should be properly belted into seats approved by the vehicle manufacturer.

WARNING! The positioning belt should be secured at all times. Never allow the positioning belt to hang or drag on the floor as it may become entangled.

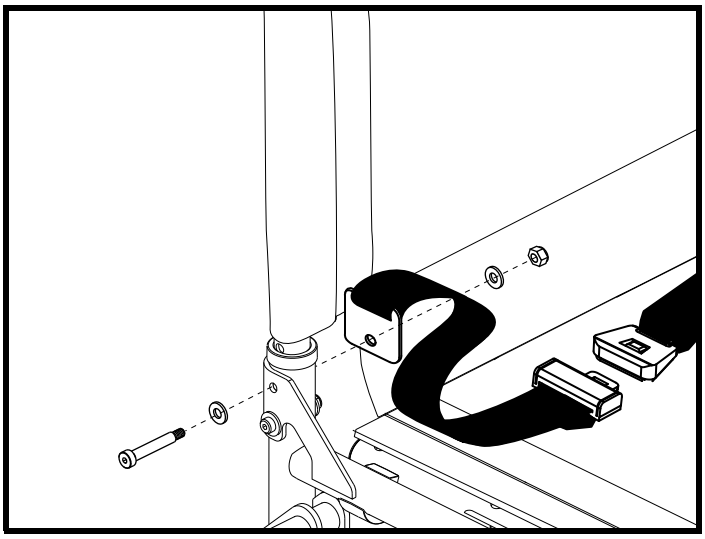


Figure 36. Positioning Belt Installation

To install the positioning belt:

1. Remove the screws on both the left and right seat canes. **See figure 36.**
2. Insert the screws that were removed in step 1 through the bracket and then through the seat canes on each side of the wheelchair seat. **See figure 36.**
3. Tighten both screws.
4. Install the positioning belt onto the bracket and pull until the positioning belt snaps into place.

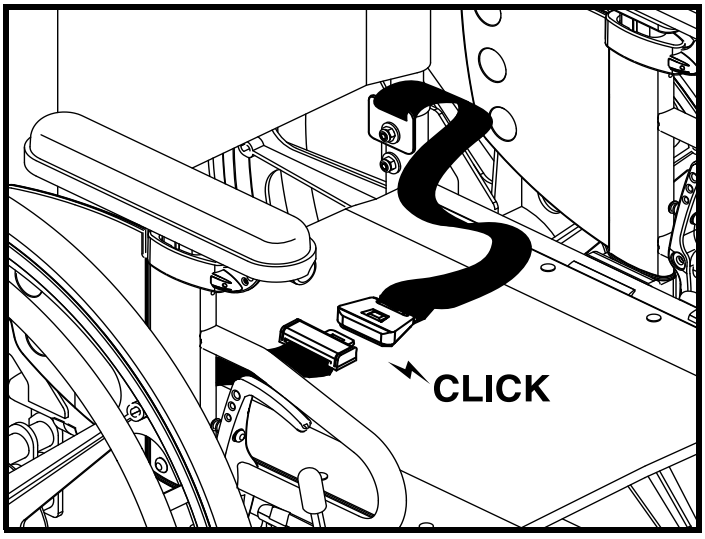


Figure 37. Positioning Belt Adjustment

To adjust the positioning belt for operator comfort:

1. Once seated, insert the metal tab on one side of the belt into the plastic housing on the opposite side until you hear a click. **See figure 37.**
2. Pull the excess strap attached to the metal tab until it is secure, but not so tight as to cause discomfort.

To release the positioning belt:

1. Push the button mechanism on the plastic housing.

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

MANDATORY! Inspect the positioning belt for loose parts or damage, including tears, worn spots, bent hardware, damaged latch mechanisms, dirt or debris, before each use of the wheelchair. If you discover a problem, contact your Quantum Rehab Provider for maintenance and repair.

Anti-tip Wheel Adjustment

Anti-tip wheels are an integral and important safety feature of your wheelchair. They are factory set to between 2-5 cm (0.75-2 in.), but may require adjustment to accommodate depth adjustment and center of gravity.

PROHIBITED! Do not remove the anti-tip wheels or modify the wheelchair in any way that is not authorized by Pride.

WARNING! The anti-tip wheels should only be adjusted by a Quantum Rehab Provider or a qualified technician.

To adjust the anti-tip wheels:

1. Remove the detent pin from the anti-tip wheel. **See figure 38.**
2. Adjust the anti-tip wheel to the desired position while aligning the anti-tip wheel with the adjustment holes.
3. Once properly positioned, reinsert the detent pin and ensure that it is fully engaged.
4. After installing or adjusting the anti-tip wheels, push and pull on both anti-tip wheels to ensure they are properly engaged.
5. Repeat for the other side.

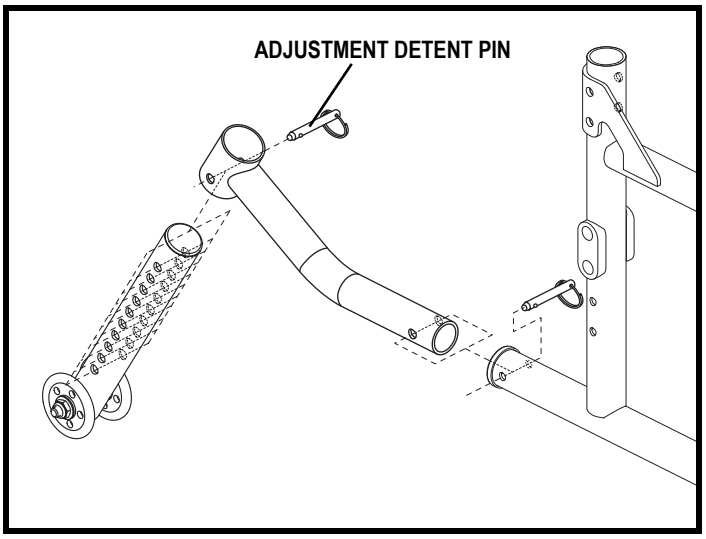


Figure 38. Anti-tip Wheel Adjustment

V. CARE AND MAINTENANCE

CARE AND MAINTENANCE

Your Litestream XF LTD requires routine maintenance checks. You can perform some of these checks, but others require assistance from your Quantum Rehab Provider. Preventive maintenance is very important. If you follow the maintenance checks in this section as scheduled, you can help ensure that your wheelchair gives you years of trouble-free operation. If you have any doubt as to your wheelchair's care or operation, contact your Quantum Rehab Provider.

WARNING! Do not service the wheelchair when the seat is occupied.

Your wheelchair is susceptible to damage from the elements. Avoid damp areas of any kind.

WARNING! Direct or prolonged exposure to water or dampness could cause the wheelchair to malfunction mechanically. Water can cause the chair's frame to rust. Wheelchairs should be examined periodically for signs of corrosion caused by water exposure, bodily fluids exposure, or incontinence. Damaged components should be replaced or treated immediately.

Should your wheelchair come in contact with water:

1. Dry your wheelchair as thoroughly as possible with a towel.
2. Allow your wheelchair to sit in a warm, dry place for 12 hours to allow unseen water to evaporate.
3. If any inconsistencies are found, take your wheelchair to your Quantum Rehab Provider. Wheelchairs that are frequently exposed to sources of water, such as incontinence, should be inspected often for corrosion.

Temperature

Some of the parts of your wheelchair are susceptible to extreme changes in temperature. Always keep your wheelchair between the temperatures of -8°C (18°F) and 50°C (122°F).

General Guidelines

- Avoid prolonged exposure of your wheelchair to extreme conditions, such as heat, cold, or moisture.
- Make sure the pneumatic tires are inflated to the psi/bar/kPa air pressure rating indicated on the tire if equipped with pneumatic tires.

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

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

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

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

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

Daily Checks

- Check the seat for any visible damage.
- Check for loose or missing screws, nuts, and bolts. Replace or tighten them as necessary.
- Check the tires. Look for uneven wear, holes, or tire/rim separation. If they look excessively worn, then have them replaced.
- Visually inspect pneumatic tires for punctures.
- Confirm correct air pressure as marked on the side of the tire.
- Check for flat spots on solid tires. Flat spots could adversely affect stability.

V. CARE AND MAINTENANCE

- Confirm that the strap used to fold down the seatback is not torn or frayed.
- Check the handrims. Make sure that they are fastened securely to the wheels.
- Check the wheel locks. Make sure they work properly. If they do not, instructions on how to adjust them are provided in this manual.

WARNING! The manual wheel locks are designed to keep your chair stationary while you are parked. They are not designed to stop the wheelchair during driving. Do not use either of the manual wheel locks to stop the wheelchair while driving it. This can cause your wheelchair to become unstable and tip.

Weekly Checks

- Check for proper tire inflation. Pneumatic tires should be inflated to the psi/bar/kPa air pressure rating indicated on the tire. If a tire does not hold air, see your Quantum Rehab Provider for replacement of the tube.
- Check the anti-tip wheels for wear or damage. See your Quantum Rehab Provider for replacement or repair.

Monthly Checks

- Check for drive tire wear. See your Quantum Rehab Provider for repair.
- Check the caster wheels for wear. Replace them as necessary.
- Check the caster forks for damage or fluttering which indicates that they may need to be adjusted or have the bearings replaced. See your Quantum Rehab Provider for repair.
- Keep your wheelchair clean and free of foreign material, such as mud, dirt, hair, food, drink, etc.

Yearly Checks

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

Storage

Your wheelchair should be stored in a dry place, free from temperature extremes.

WARNING! If you fail to store the unit properly, the frame can rust.

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

Disposal of Your Wheelchair

Your wheelchair 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 wheelchair packaging, metal frame components, plastic components, neoprene, silicone, and polyurethane materials.

Cleaning and Disinfection

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

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

WARNING! Never hose off your wheelchair or place it in direct contact with water. Your wheelchair has a painted finish that allows it to be easily wiped clean with a damp cloth.

V. CARE AND MAINTENANCE

WARNING! Never use any chemicals to clean a vinyl seat, as they may cause the seat to become slippery or dry out and crack. Use soapy water and dry the seat thoroughly.

Wheel Replacement

If you have pneumatic tires and you have a flat tire, you can replace the tube. If your wheelchair is equipped with a solid tire insert, then you must replace the entire wheel assembly. Replacement tires, tubes, and wheel assemblies are readily available through your Quantum Rehab Provider.

WARNING! The wheels on your wheelchair should only be serviced or replaced by a Quantum Rehab Provider or a qualified technician.

WARNING! When changing a tire, remove the entire drive wheel. If any further disassembly is required, deflate the tire completely or it may explode.

To replace a pneumatic tire tube:

1. Remove the drive wheel from the frame. **See figure 12 or 13.**
2. Make sure that the tube is deflated completely.
3. Use several tire levers to pry the tire from the rim. Tire levers are available from a bicycle shop.
4. Remove the old tube.
5. Inflate the new tube with enough air so that it just starts to take shape.
6. Insert the tube into the tire.
7. Use the tire levers to secure the tire back onto the rim.
8. Inflate the tire to the psi/bar/kPa air pressure recommended on the sidewall. Always use a regulated air source.
9. Reinstall the drive wheel to the frame. Make sure that the wheel axle is snapped securely into the frame bracket.

Manual Wheel Locks

After several months of use, you may find it necessary to adjust the wheel locks so that they lock securely when engaged. You also may need to adjust them after changing the drive wheel position.

WARNING! If your wheelchair is equipped with pneumatic tires, make sure they are inflated to the pressure recommended on the sidewall of the tire.

To adjust each manual wheel lock:

1. Disengage the wheel lock. **See figure 6.** The wheel lock blade should be 0.64 cm (0.25 in.) away from the tire for both pneumatic and solid tires.
2. Loosen the hardware that fastens the wheel lock to the frame. **See figure 39.**
3. Reposition the wheel lock so that the blade is 0.25 in. (0.64 cm) away from the tire and perpendicular to the plane of the tire.
4. Tighten the hardware that fastens the wheel lock to the frame.
5. Engage the wheel lock and note the position of the blade.
6. Reposition the wheel lock if necessary.
7. Repeat the procedure for the other side.

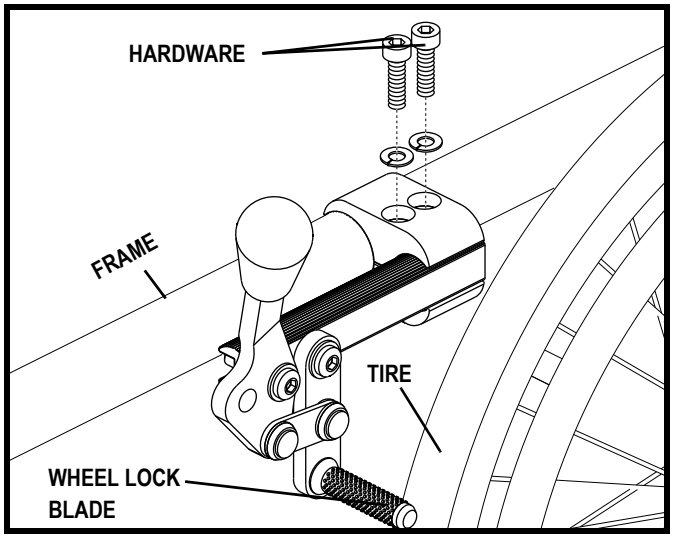


Figure 39. Wheel Lock Adjustment

Seat Tension

After a period of use, you may find it necessary to adjust the seat tension.

To adjust the seat tension:

1. Loosen the screws that attach the seat to the side rail on the left side (side with hook and loop fastener). **See figure 40.**
2. Unfasten the hook and loop fastener.
3. Grab the bottom flap and pull the seat tight.
4. Fasten the hook and loop fastener.
5. Tighten the screws. Make sure that the plastic washers are on top of the fabric.

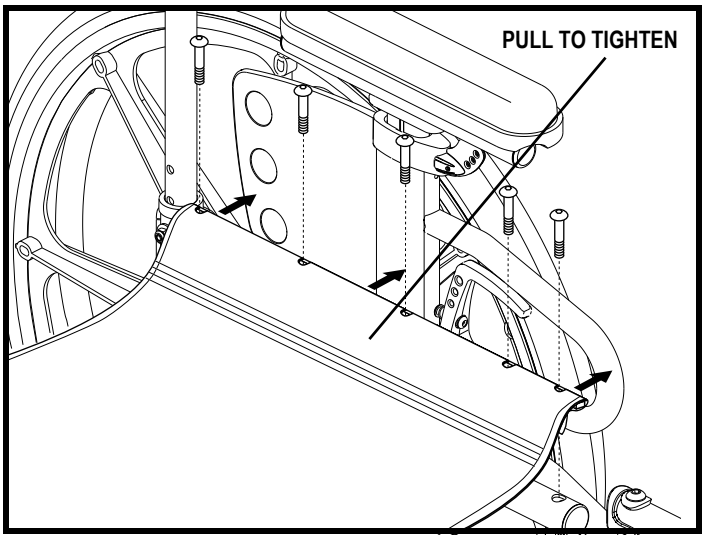


Figure 40. Seat Tension Adjustment

When to See Your Quantum Rehab Provider for Service

The following symptoms could indicate a serious problem with your wheelchair. If necessary, contact your Quantum Rehab Provider. When calling, have the model number, serial number, and nature of the problem.

- Uneven wear on any of the tires
- Bent or broken wheel assemblies
- Loose or missing hardware that attaches the transit securement brackets or positioning belt anchors to the wheelchair.

NOTES