Bari Lift & Transfer System



Assembly & Operations Manual

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TABLE OF CONTENTS

DEFI	INITIONS OF SYMBOLS																•				•			1
	RODUCTION																							2
	UP AND PRE-USE INSPECT Set Up																							4
	RATION OF MECHANISM . General Transfers Reaching or Leaning Harness Attachment Track Height Adjustment Positioning Unit GFCI Outlet Required Travel Limits Emergency Lower Release Cloth Sling Usage	· · ·	· · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · ·	· · · · · · · · ·	· · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · ·	· · · ·		· · · · · · · · · · · · · · · · · · ·	· · ·	· · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · ·	•	9 10 10 11 11 12 12
	TURES		 																					14
	ETY TIPS	 	 · ·			· ·			· ·	•			 		•			 		•				
	IUFACTURER DISCLAIMER General Information Trademarks and Patents Copyright	· · ·	 · ·	•	:	· ·	•	•	· ·	•	•	•	 	•	•	•	•			•		•		19 19

DEFINITIONS OF SYMBOLS

In the following sections you will find important instructions for your safety. The words "WARNING" and "CAUTION" alert you to specific risk of personal injury or property damage. They mean as follows:



WARNING - A hazard or unsafe practice that may cause severe injury or death to you or to other persons.



CAUTION - A hazard or unsafe practice that may cause damage to this lift or to other property.

INTRODUCTION

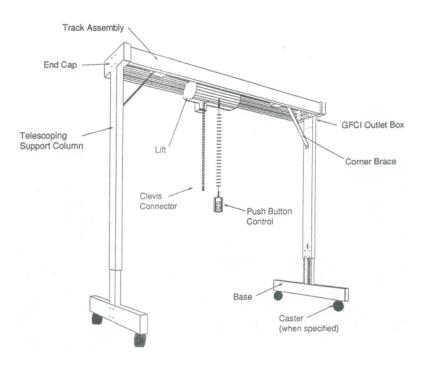
You should make sure that persons who assist you read and follow all warnings and instructions that apply to that use. Before using this lift, each attendant must know what to do to ensure safety.

WARNING - If you fail to heed these warnings, severe injury may occur to you or your attendant.

- 1. Put the user at ease. Communicate with the patient by telling them what you plan to do.
- 2. Work with the user's doctor, nurse or therapist to learn safe methods best suited to your abilities and those of the user.
- 3. Always use good posture and proper body mechanics. When you lift or support the user, bend your knees slightly and keep your back as upright and straight as you can.

DESCRIPTION

The Bari Lift & Transfer System is intended to be used as a transfer device designed especially for larger individuals who have limited mobility due to a physical condition. The lift operates on a track which enables the caregiver to lift the individual from, for example, a bed across to a wheelchair or commode. It is not designed to move the individual from one room to another.



SPECIFICATIONS

Overall Width.35"Overall Length.97"Overall Height.78"-93"	
Weight Capacity	

• If you fail to heed this warning, a fall may occur and cause severe injury to you or your attendant, and may cause damage to this lift and to other property.

The weight capacity of this lift is 750 or 1,000 lbs.

Exceeding this limit will also void the warranty.

SET UP AND PRE-USE INSPECTION

SET UP

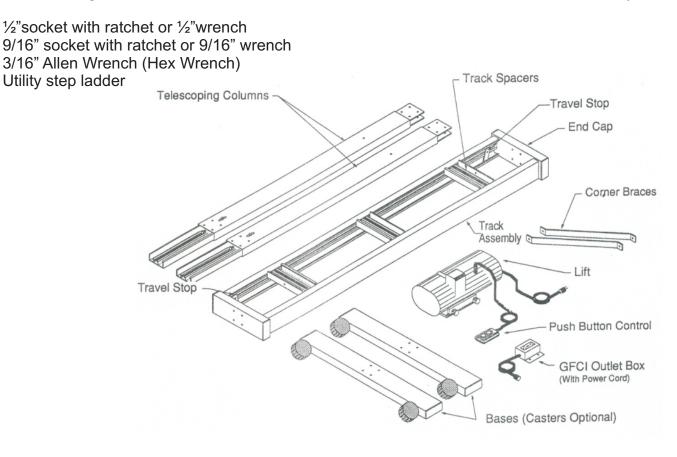
Before unpacking; Check for visible signs of damage which should be reported below. If no damage is observed, carefully remove the packaging material from the Track Assembly and Support Structure Components.

After unpacking you should have the following parts:

2 ea. Telescoping Support Columns
1 ea. Track Assembly with 2 travel stops
2 ea. Bases with Casters
1 ea. GFCI Outlet Box
6 ea. Hex Head Bolts 1" Long
24 ea. Button Head Screws
2 ea. Plastic Flat Washer
5 Cord Clips with Adhesive
2 ea. Corner Braces
1 ea. Lift with Push Button Control Cord & Power Supply Cord

Note: Any damage or shortages must be reported immediately.

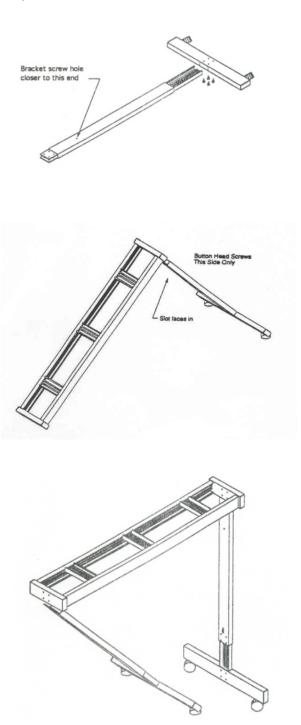
The following list of tools are recommended for installation of the Bari Lift and Transfer System:



WARNING - Improper installation can result in injury. To avoid injury, read and follow all instructions.

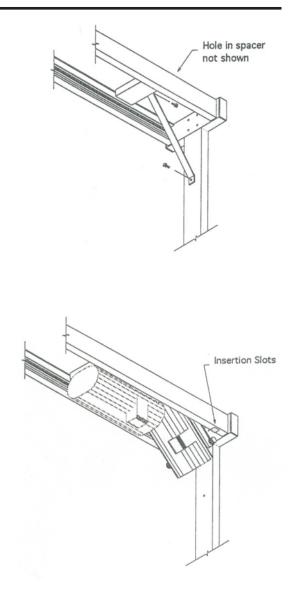
When tightening screws all screws, in the following assembly, must be tightened to a torque of 125-150 in-lbs. (12-15 lbs of pull at the end of a 10" wrench).

- ATTACH COLUMNS TO BASES Begin by assembling each support column to its base. Insert the smaller section of the telescoping column into the opening at the upper center of the base. Complete assembly of each column and base by inserting and securely tightening four (4) button head screws.
- 2. ATTACH FIRST COLUMN TO TRACK -Assemble the first column to the track assembly by inserting the steel tie plates projecting from the top of the column into the center opening of one of the end caps (be sure that the tapped bracket screw hole in the upper portion of the column faces inward to receive the corner brace screw). Complete assembly by inserting and securely tightening four (4) button head screws in a similar manner as the base assembly.
- 3. ATTACH SECOND COLUMN TO TRACK With the help of another person assemble the second column by lifting the track and inserting the steel tie plates projecting from the top of the column into the center opening in the end cap (be sure that the tapped bracket screw hole in the upper portion of the column faces inward to receive the corner brace screw). Complete assembly by inserting and securely tightening four (4) button head screws in a similar manner as the base assembly.



SET UP AND PRE-USE INSPECTION

- 4. ATTACH FIRST CORNER BRACE Attach the first corner brace to the column and the outermost track spacer using two (2) hex bolts provided (Attach this brace opposite the end with insertion slots on the bottom of the rail). It may be necessary to loosen the four track spacer screws for minor repositioning to align bolt holes ("MOVING A SPACER"). Securely tighten the hex bolts on the track spacer and the column.
- 5. INSTALL THE LIFT Prior to assembling the second corner brace, install the lift into the track assembly. First loosen the track spacer and slide it out of the way ("MOVING A SPACER"). Be sure that the power supply cord projecting from the end of the lift faces the end with the GFCI outlet box. Install the lift by inserting one pair of wheels into the bottom insertion slots and rolling the unit a few inches towards the opposite end. Then rotate the lift upwards until the second pair of wheels swing up into the insertion slots.
- 6. ATTACH THE SECOND CORNER BRACE After rolling the lift and trolley toward the center of the track, install the second corner brace in the same manner in step 4.

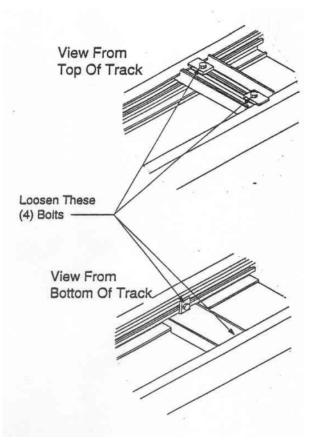


MOVING A SPACER - Loosen the (4) four bolts securing the spacer if moving a small distance (less than .25") or remove them if moving a greater distance. To move the spacer gently tap equally on both sides. After repositioning, if the bolts have been removed the spring nuts in the track may have to be realigned. Reattach bolts and securely tighten.

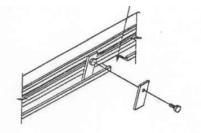
 SECURE THE TRAVEL STOP - Position the Travel Stop as shown in the figure (below left). Bottom of stop should angle away from track slot or End Cap and toward the Lift. Securely tighten this bolt.

The second Travel Stop should be positioned on the opposite end of track assembly in a similar manner to prevent lift from striking opposite corner brace.

 RECHECK ALL SCREWS - All screws should be rechecked to ensure they are tightened securely to a torque of 125-150 in-lbs (12-15 lbs pull at the end of a 10" wrench).



- The travel stop must be placed in front of the bottom rail slot to prevent lift from rolling into these slots and falling from track.



SET UP AND PRE-USE INSPECTION

- 9. ATTACH THE GFCI OUTLET BOX - Attach the GFCI outlet box to the appropriate End Cap using the two (2) top socket head screws as illustrated. Plug Note: Brace Removed for Clarity the power supply cord from the side of the lift to the GFCI outlet box and snap the power supply cord plug retainer over the cord plug to secure the same. Adhesive mounted clips may be attached to the support column as desired to keep the GFCI GFCI Outlet Cord Plug Retainer outlet box power cord secured and out the way.
- 10. PLUG IN THE GFCI OUTLET BOX The lift must be connected to an appropriate 115 volt, 1 phase, 60 Hertz, grounded power source to provide power for the lift.

A WARNING - FAILURE TO PROPERLY GROUND THE LIFT THRU THE GFCI OUTLET BOX COULD RESULT IN INJURY.

TRAVEL LIMITS - The lift limits are factory set with 6ft. of maximum lift. If limits are to be reset consult your Wheelchairs of Kansas service technician at (800) 537-6454.

SAFETY CHECKLIST

WARNING - If you fail to heed these warnings, severe injury may occur to you or others. Before each use of your lift you should:

- 1. If you detect a problem, make sure to repair or adjust your lift before using it.
- 2. Make sure that your lift operates easily and freely and that all parts work smoothly.
- 3. Check for excess noise, vibration or a change in ease of use. They may be signs of a problem such as a need for lubrication, loose fasteners or damage to the lift.
- 4. Lock casters prior to use of lift when patient is transferring in or out of the lift or the lift is articulating.

GENERAL

A WARNING - If you fail to heed these warnings, severe injury may occur to you or others.

- 1. Never let your fingers or other body parts come between moving parts when you operate this lift. Doing so may cause a pinch or crush type injury.
- 2. Never work under the lift while it is in operation.
- 3. Never work on a lift while it is plugged into an electrical outlet.
- 4. If wheel locks (brake) are not engaged, the casters may move/roll when the lift is articulating into varies postions. Stand clear of the frame before operating.
- 5. Rotating parts. Keep fingers and arms away when mechanism is moving.
- 6. Operating this lift with any part of the body in the frame can result in injury. Stand clear of the lift frame before operating.
- 7. Make sure that all cords are properly positioned before operating the lift. Failure to do so could result in electrical shock and serious injury.
- 8. Do not use this lift if the power cord is cut, frayed, or loosely connected to the lift.
- 9. Electrical powered mechanism. Electrical hazard may occur if lift is plugged into inadequate power supply. Make sure that the lift is plugged into a 110 volt, grounded outlet.

TRANSFERS

WARNING - If you fail to heed these warnings, a fall may occur and cause severe injury to you.

- 1. Transfers require good balance and agility and are very dangerous. Learn how to position your body and how to support yourself during a transfer.
- 2. Work with your doctor, nurse or therapist to learn safe transfer methods.
- 3. Have someone help you until you know what can cause a slip or fall and how to avoid doing so. Never try to maneuver into or out of the lift on your own until you are sure you can do so safely.

OPERATION OF MECHANISM

- 4. Position the lift at an elevation comfortable to you.
- 5. Lower the armrest.
- 6. Make sure that whatever you are transferring to is stable and will not slide away from you during the transfer.
- 7. Lock casters when patient is entering or exiting lift.

REACHING OR LEANING

WARNING - Reaching or leaning affects your center of balance. If you fail to heed these warnings, a fall my occur and cause severe injury to you.

- 1. Avoid reaching or leaning over the side of the lift. Ask for help or use a lift to extend your reach.
- 2. Never reach with both hands. If you do so, you may not be able to catch yourself to prevent a fall.
- 3. If you must reach or lean from your lift, steady yourself by firmly grasping a armrest with one hand.

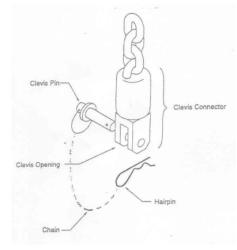
HARNESS ATTACHMENT

For Spreader Bar Style:

Remove the Hairpin from the Clevis Pin and remove the pin. Place the spreader bar in the Clevis opening so the Clevis Pin can pass through the hole in the center of the Spreader Bar then replace the Hairpin.

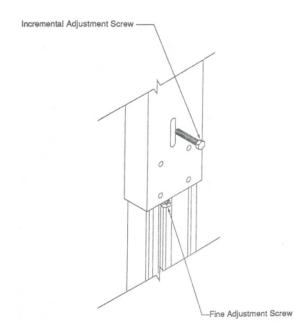
For the Hugger Style:

Remove the Hairpin from the Clevis Pin and remove the pin. Place the ring of the Hugger into the Clevis Opening so that Clevis Pin can pass through the ring, then replace The Hairpin.



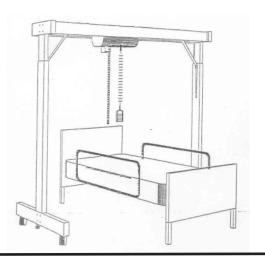
TRACK HEIGHT ADJUSTMENT

- 1. Secure The Hoist: Move the hoist to the opposite end of the column being adjusted and have a second person hold it in place while height adjustment is made.
- Adjust The Height: Loosen the Incremental Adjustment Screw with a 9/16" wrench while supporting the upper section with one hand. Continue to loosen the screw to allow the section to become unlocked and free to move. Raise or lower the track to desired height but not more than 6" at a time (93" max height of track). Securely tighten the screw making sure the holes are aligned.
- Repeat the procedure: Repeat steps A & B to adjust the opposite Column. Take care not to raise or lower a Column more than 6" above opposite Column. Repeat this cycle until desired height is reached fro the track (93" max height of track).
- Level the track: Loosen one to two turns but do not remove the Incremental Adjustment Screw. Then using the Fine Adjustment Screw adjust the height on one side to level the track (clockwise rotation raises track). Securely tighten both the Incremental Adjustment Screws.



POSITIONING UNIT

Position the lift over the bed with the centerline of the lift over the midsection of the person to be transferred. Also position the track offset so that sufficient space is provided to place the wheelchair between the bed and a support column.



OPERATION OF MECHANISM

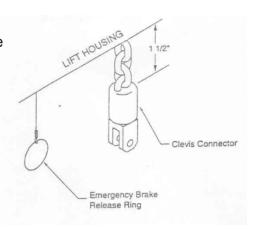
GFCI OUTLET REQUIRED

The Bari Lift & Transfer System must be connected to an appropriate 115 volt, 1 phase, 60 Hertz, grounded power for the lift.

WARNING - Failure to properly ground the lift thru the GFCI outlet box could result in.

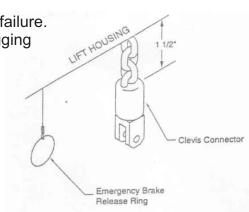
TRAVEL LIMITS

The lift limits are factory set with 6ft. Of maximum lift. Before lifting person check to be sure unit stops with Clevis Connector 1 $\frac{1}{2}$ " below the Lift Housing. To do this run the chain up until the Clevis Connector is 2" from Lift Housing. Then slowly inch the Clevis Connector up but do not allow it to contact the Lift Housing. If the Clevis Connector comes closer than 1 $\frac{1}{2}$ " to the Lift Housing the limits need to be adjusted (contact your Wheelchairs of Kansas technical support at 800-537-6454.



EMERGENCY LOWER RELEASE

The lift has a manual brake release in the event of electrical failure. Locate the ring on the case of the Lift and pull Ring while tugging on the Chain Clevis, chain will begin to slowly come out of the lift.



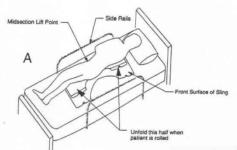
CLOTH SLING USAGE



- ING Read these instructions before proceeding with installation. If you fail to heed these warnings, severe injury may occur to you or others.
- WARNING Sling should be inspected on a regular basis. Frayed or worn slings can fail and result in serious injury. Worn slings should be immediately removed from service and replaced.

SLANTED POCKETS ARE AT THE TOP OF SLING. USE CHAIN SUPPLIED WITH SLING ONLY.

- 1. Fold sling in half lengthwise.
- 2. Roll patient away from attendant.
- 3. Place folded sling along length of patient as close to back as possible with lower edge of sling slightly below Knees.



- 4. Roll patient back toward attendant and open sling fully.
- 5. Roll patient back so they are centered along the length of sling.
- 6. Slide one metal sling bar into each pocket of the sling.
- 7. Using the chain, attach the "S" hook into the sling bar. The Opening should face away from the patient.
- 8. Center lift over the patient.
- Lower the spreader bar so that a single chain link can be attached to each side (approximately the 9th link) from the shoulder. Make sure that the spreader bar is inserted into a single chain link.
- When you push the up button, check to ensure patient is seated correctly and is not pitching forward. If patient is pitching forward, return to starting position and make adjustment.

FEATURES

- 11. If patient is positioned properly, continue to raise them to a point that they can be moved across the track and positioned over the chair.
- 12. Lower patient, guiding them into their chair by gently pushing on their knees.
- 13. When patient is seated and chain is slightly slack, detach "S" hooks from metal bar in sling, raise the lift using push button control and send unit off to side.

DIGITAL SCALE (IF EQUIPPED)

The scale is a compact precision scale system designed specifically for use with the Bari Lift & Transfer System.

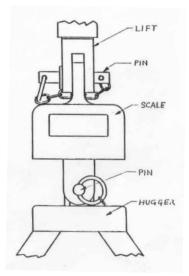
Completely self-contained, the scale combines the latest in precision strain gauge technology and microprocessor signal conditioning to provide stable, accurate and repeatable weight data with a calibrated accuracy of 0.1%.

One Button Auto-Zero Electronics makes patient weighing quick and easy.

The scale derives its' power from a single 9 volt lithium battery which will provide up to 3000 weight readings.

To assemble onto lift

- 1. Assemble scale into lifter as diagramed.
- 2. IMPORTANT! Make sure that all hardware is tight and in good condition before use.
- 3. Attach the swivel bar to the bottom of the scale system then Attach the selected sling.



To Operate Scale

- 1. Attach the scale system as described in the installation instructions. Make sure that the unit is properly installed and all hardware is secure.
- 2. With the sling in place, press the "ZERO" button to set the system zero. The digit "0" will pan across the display for a few seconds then the display will read "0.0".
- 3. Remove the sling (or stretcher), position the patient in to the sling, then reattach to the swivel bar.
- 4. Carefully lift the patient. When the motion has stabilized, press the "OPERATE" button to display the weight data.
- 5. NOTE: The display will automatically turn itself off after approx. 60 seconds to conserve battery power. If the display turns off before you are able to view the weight data, press the "OPERATE" button once again.
- 6. Carefully lower the patient after reading weight.

ALWAYS RE-ZERO THE SCALE SYSTEM BEFORE WEIGHING(step 2)

CAUTION - This lift is intended to obtain patient weight during transfer (i.e.:bed to chair). This lift is NOT intended for use during patient transport and should be removed in such case.

System Specifications Weight Range: 453KG/1000LB Display Resolution: 0.1KG/0.1LB Accuracy: 0.1% +/-1 digit of reading Display Type: Liquid Crystal Size: 3" x 3" x 4" Weight: 1 Pound Power Supply: 9 Volt Lithium Battery Battery Life: Approx. 3000 Readings

BATTERY REPLACEMENT

The scale is powered by a single 9 bolt battery. This battery should provide approximately 3000 readings before needing replacement.

NOTE: The load Cell contains no user serviceable components and should be serviced by authorized personnel only. Any unauthorized tampering will void the warranty.

FEATURES

SERIAL NUMBER LOCATION

The lift has a manufacturer serial number is on the lift (on the track), motor and scale (if equipped).

FASTENERS

WARNING Many of the screws and bolts used in your lift are special highstrength fasteners. If you fail to heed these warnings, severe injury may occur to you:

- 1. Improper fasteners may fail. Use only screws and bolts provided by Wheelchairs of Kansas.
- 2. If screws or bolts become loose, tighten them as soon as possible.

MAINTENANCE

WARNING This lift requires regular maintenance to maintain performance and avoid premature wear, damage and injury.

You should check the items on this chart at the indicated intervals. If any of the items are loose, worn, bent or distorted, immediately have them checked and/or repaired by your authorized Wheelchairs of Kansas technician. Frequent maintenance and servicing will improve performance and extend the life of the lift. When the lift is used as a rental, it should be serviced each time it is taken in and out of the field or each new rental. For long term rental, the following maintenance chart should be followed.

	Three Months	Six Months	Annually
Fasteners	\checkmark		
Frame		\checkmark	
Casters	\checkmark		
Dealer Inspection			\checkmark
Support Columns		\checkmark	

STORAGE

The lift should be stored in a dry location so that the components do not become contaminated with moisture. If this lift is stored for any period of time, make sure it is adjusted properly and that all components are in working order before using.

SAFETY TIPS

CLEANING

A WARNING Before cleaning the cushion or lift, be sure to disconnect it from the wall outlet (power source). Failure to do so could result in electrical shock and cause severe injury to you and damage the electrical components.

<u>Do Not</u> allow electrical components to become wet.

For your protection, it is important to wear eye protection and rubber gloves.

- Prepare detergent/disinfectant (reg. by EPA as hospital disinfectant*) solution according to the instructions on the label for correct usage. A basin or spray bottle (with product label) can be used. Use a pump (usually on the detergent/disinfectant containers) to dispense the concentrate into the basin or spray bottle, then fill with the correct amount of tap water. If using a spray bottle, empty and rinse out after use.
 NOTE: The stability of the solution is unknown after 24 hours, therefore a fresh preparation of cleaning solution must be prepared for each day of cleaning.
- 2. Wipe down and clean the entire cushion. Using swabs moistened with cleaning solution, clean and remove any dust, soilage or foreign matter that has accumulated along the seams. Allow all components to air dry.
- 3. Wipe down, clean the frame of the <u>lift</u>, and allow to air dry. Cover with plastic and return to storage area. <u>Do Not</u> allow the electrical components to become wet.

* The following three recommended products are registered by the EPA as hospital disinfectant. The solutions are quaternary ammonium compounds and are used in environmental sanitation of non-critical surfaces.

- 1. TB Quat, manufactured by ABC Compounding Co.
- 2. Quaternary Detergent-Disinfectant, manufactured by Airken Professional Products, Product number, A-33
- 3. Hi-Tor Germicidal Detergent, manufactured by Huntington Laboratories, Inc. Product number, Hi-Tor Plus.

Care of the Sling

- 1. Remove sling bars from pockets before washing.
- 2. Machine was separately in warm water.
- 3. Do not use bleach!!
- 4. Drip dry or cool dryer cycle.

WARRANTY INFORMATION

WEIGHTPRODUCTCAPACITYLift & Transfer System750 lbs.1000 lbs.0

WARRANTY

Lifetime on Frame; One Year on All Other components; One Year on Electrical

LIMITATIONS AND EXCLUSIONS

- 1. Products which have been used for purposes other than the intended uses; or which have been subject to negligence, abuse, improper storage or handling, improper operation, unauthorized modifications or damages beyond normal wear and tear as determined by Wheelchairs of Kansas are not covered by this warranty.
- 2. If weight capacity on any such product is exceeded, the warranty will be void. Any unauthorized repairs to product/part, as well as tampering with any components, will void the warranty.
- 3. Parts or materials which are subject to normal wear resulting from the use of these products and which must be replaced/repaired due to such normal wear, are the owner's responsibility and are not covered by this warranty.
- 4. This warranty is exclusive and in lieu of all other express warranties, implied warranties, including but not limited to the implied warranty of merchantability and fitness for a particular purpose, and shall not extend beyond the duration of this warranty. Wheelchairs of Kansas shall not be liable for any consequential or incidental damages whatsoever.
- 5. This warranty applies to the purchaser only and is non-transferable.

GOVERNING LAW

This purchase order and warranty shall be deemed executed in the county of Ellis, state of Kansas and the point of sale shall be deemed to be in the county of Ellis, state of Kansas. All disputes relating hereto shall be exclusively governed by, and construed in accordance with, the laws of the State of Kansas, without reference to its conflict of laws principles. Any legal action or proceeding relating to this purchase shall be instituted solely in a state of federal court in Ellis County, Kansas. Wheelchairs of Kansas and customer agree to submit to the jurisdiction of, and agree that venue is proper in, these courts in any such legal action or proceeding.

WARRANTY SERVICES PROCEDURES

- The product/part should be returned to the original selling dealer. To return the product/part to the factory the dealer must call to request authorization. At this time a return authorization number (RA#) will be issued. This RA# will be valid for 21 days from date issued. If the product/part is shipped to the factory without a RA # it will be refused.
- 2. Wheelchairs of Kansas products, with the exception of the bath/shower aids, are identified by a 6-digit serial number. Serial number identification is required for discussion of service. Removal or defacing this serial number may void all warranty.
- 3. For headboards and footboards with the beds, which are not covered under warranty, the customer will be responsible for shipping and return shipping costs. For all other products and parts, customers will not be responsible for shipping or return shipping costs for products and parts under this warranty returned within thirty (30) days of receipt; 31 60 days, customer will be responsible for shipping costs to Wheelchairs of Kansas; 61 days or more, customer will be responsible for shipping and return shipping costs.
- 4. If the problem is a result of defective material or workmanship, the product/part will be replaced or repaired at the discretion of Wheelchairs of Kansas, at no charge to the customer.
- 5. For replacement or repair of a product/part not covered under this warranty or if warranty is void the following applies: labor charges (minimum of \$45/hour; minimum of 1 hour) incurred and freight or delivery charges will be billed to the customer.

NOTE: Wheelchairs of Kansas will only pay regular ground freight on warranty product/parts.

MANUFACTURER DISCLAIMER

GENERAL INFORMATION

All specifications, equipment and prices are subject to change without notice. Wheelchairs of Kansas reserves the right to make improvements from time to time. Photos and drawings are representative of the products and may vary slightly from actual production models. Some items photographed in this brochure may include optional equipment. Contact or consult with your dealer to ensure proper equipment sizes, specifications and options.

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