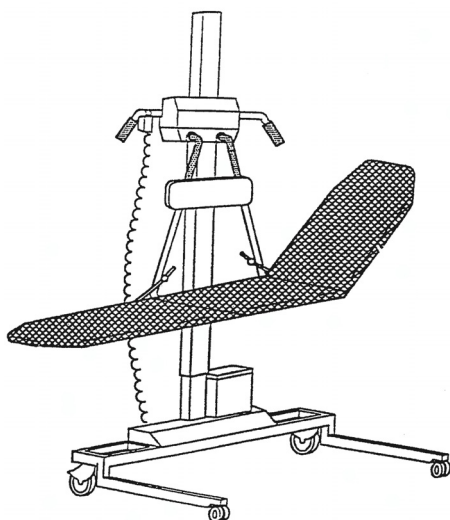


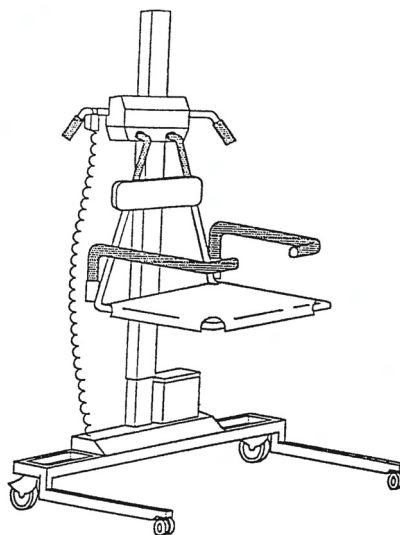
Invacare Continuing Care, Inc.

Traverse Lift/Transporter



***I200 Series
and
I500 Series***

***I300 Series
and
I600 Series***



DEALER: This manual **MUST** be given to the user of the patient lift.

USER: **BEFORE** using this patient lift, read this manual and save for future reference.

For more information regarding
Invacare Continuing Care, Inc. (ICCI) products,
parts, and services, please visit www.invacare-ccg.com
or call 800-668-2337



Yes, you can.®

⚠ WARNING

DO NOT USE THIS PRODUCT OR ANY AVAILABLE OPTIONAL EQUIPMENT WITHOUT FIRST COMPLETELY READING AND UNDERSTANDING THESE INSTRUCTIONS AND ANY ADDITIONAL INSTRUCTIONAL MATERIAL SUCH AS OWNER'S MANUALS, SERVICE MANUALS OR INSTRUCTION SHEETS SUPPLIED WITH THIS PRODUCT OR OPTIONAL EQUIPMENT. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS OR INSTRUCTIONS, CONTACT A HEALTHCARE PROFESSIONAL, DEALER OR TECHNICAL PERSONNEL BEFORE ATTEMPTING TO USE THIS EQUIPMENT - OTHERWISE, INJURY OR DAMAGE MAY OCCUR.

⚠ ACCESSORIES WARNING

ICCI products are specifically designed and manufactured for use in conjunction with ICCI accessories. Accessories designed by other manufacturers have not been tested by ICCI and are not recommended for use with ICCI products.

For further information on this product, please call the following:

Customer Service - 1-800-668-2337

Technical Support - 1-800-668-2337

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SPECIAL NOTES

Signal words are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. Refer to the table below for definitions of the signal words.

SIGNAL WORD	MEANING
DANGER	Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	Caution indicates a potentially hazardous situation which, if not avoided, may result in property damage or minor injury or both.

NOTICE

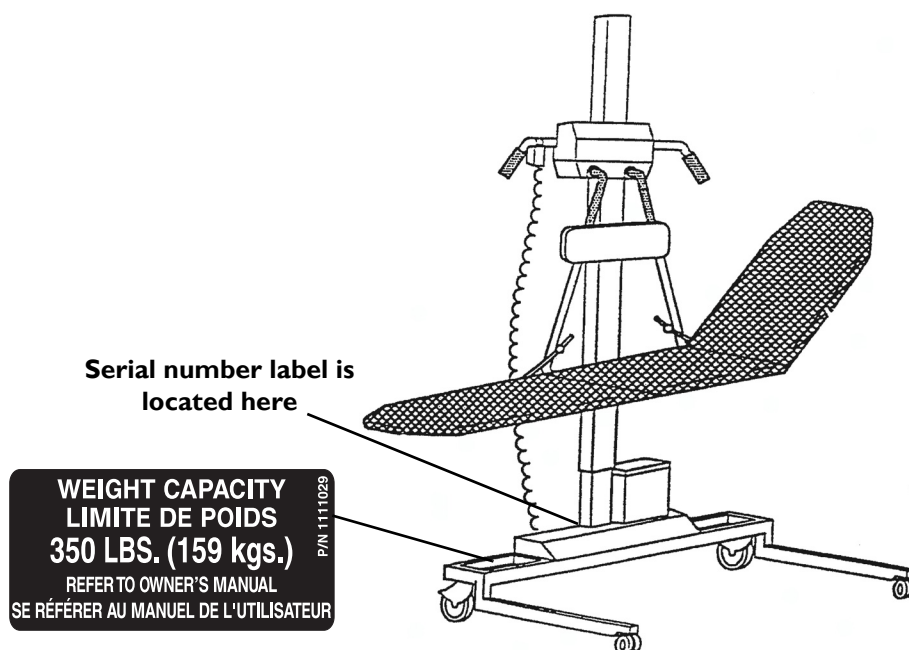
THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

WARNING

MAINTENANCE

Maintenance MUST be performed ONLY by qualified personnel.

LABEL LOCATION



TYPICAL PRODUCT PARAMETERS

Traverse Lifts

	I 200 SERIES	I 300 SERIES	I 500 SERIES	I 600 SERIES
FRAME:	Powder coated tubular steel			
SUPPORT ARMS AND RELATED ACCESSORIES:	Stainless steel			
LIFT DRIVE MECHANISM:	Battery powered ball screw actuator			
CASTERS FRONT: REAR:	Locking and steering hospital grade casters 3 in 5 in			
ELECTRICAL MOTOR: BATTERY: BATTERY CHARGER: INPUT:	12V DC 12V DC, 15 amp/hr, sealed gel-cell Wall-mounted automatic rapid charging with a rate of 2 amps per hr 115AC, 60Hz, 1.2 amp			
STRETCHER STANDARD: N MODELS:	80.5 in x 18 in 70 in x 16 in	n/a n/a	80.5 in x 18 in 70 in x 16 in	n/a n/a
SEAT WIDTH: DEPTH:	n/a n/a	16.5 in 16.5 in	n/a n/a	16.5 in 16.5 in
BASE HEIGHT (CLEARANCE): WIDTH (OUTER/INNER): DEPTH (MIN/MAX):	5 in 34.5 in/28.5 in 29.5 in/33 in	5 in 34.5 in/28.5 in 29.5 in/33 in	5 in 34.5 in/28.5 in 32.5 in/36 in	5 in 34.5 in/28.5 in 32.5 in/36 in
PERFORMANCE VERTICAL TRAVEL: COLUMN POSITIONS:	30 in 7			
SHIPPING WEIGHT:	236 lbs (107 Kg)			
WEIGHT LIMITATION:	350 lbs (159 Kg)			
COLORS:	White	White	Grey	Grey

Scale

WEIGHT RANGE:	Up to 350 lbs (158.7 Kg)
RESOLUTION:	+/- 1 lbs (0.4 Kg)
DISPLAY:	Liquid Crystal Digital
AUTOMATIC POWER DOWN:	One minute after processor displays weight data
SIZE:	6" H x 8" W x 7" D
WEIGHT:	25 lbs
POWER:	9-Volt Alkaline battery (included)
BATTERY LIFE:	Approximately 3000 readings

SECTION I —GENERAL GUIDELINES

WARNING

SECTION I - GENERAL GUIDELINES contains important information for the safe operation and use of this product.

Operating the Lift

Check all parts for shipping damage before using. In case of damage, DO NOT use the equipment. Contact the dealer or customer service for further instructions.

DO NOT attempt any transfer without approval of the resident's physician, nurse or medical assistant. Thoroughly read the instructions in this owner's manual, observe a trained team of experts perform the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a resident.

Use common sense in all lifts. Special care must be taken with people with disabilities who cannot fully cooperate while being transferred.

Although ICCI recommends that two assistants be used for all lifting and transferring procedures, our equipment will permit proper operation by one assistant. The use of one assistant is based on the evaluation of the health care professional for each individual case.

DO NOT exceed maximum weight limitation of the lift. The weight limitation for the lift is 350 lbs.

ALWAYS keep hands and fingers clear of moving parts to avoid injury.

Lifting/Transferring

ICCI recommends the use of the safety strap and shoulder harness when using the bath lift. Always adjust the safety strap and shoulder harness for safety and comfort before transport.

During transfer, raise the seat so the resident's feet are suspended from the floor. DO NOT roll caster base over objects such as carpet, raised carpet bindings, door frames, or any uneven surfaces or obstacles that would create an imbalance of the lift and could cause the lift to tip over.

Lock the rear casters of the bath lift when transferring an individual onto the seat or stretcher. Locking the rear casters will stabilize the lift and help prevent it from shifting during transfer.

Performing Maintenance

Refer to MAINTENANCE AND TROUBLESHOOTING on page 26 for a maintenance schedule and procedures.

Regular maintenance of lifts and accessories is necessary to assure proper operation.

Casters and axle bolts require inspections every six months to check for tightness, wear, debris (such as hair and dirt) and that they roll free.

After the first twelve months of operation, inspect all glides, rollers, and fasteners for wear. Make this inspection every six months thereafter. If the metal is worn, the parts **MUST** be replaced.

Bearing screws on the lift column **MUST** be adjusted regularly. Otherwise, the lift column may seize and become inoperable. Refer to Troubleshooting on page 28.

DO NOT attempt to open the motor or obtain local service as this will **VOID** the warranty and may result in damage and a costly repair. Consult your dealer or ICCI for further information.

Electrical - Grounding Instructions

DO NOT, under any circumstances, cut or remove the round grounding prong from any plug. Some devices are equipped with three-prong (grounding) plugs for protection against possible shock hazards. Where a two-prong wall receptacle is encountered, it is the personal responsibility and obligation of the customer to contact a qualified electrician and have the two-prong receptacle replaced with a properly grounded three-prong wall receptacle in accordance with the National Electrical Code. If you must use an extension cord, use only a three-wire extension cord having the same or higher electrical rating as the device being connected. In addition, ICCI has placed **RED/ORANGE WARNING TAGS** on some equipment. **DO NOT** remove these tags. Carefully read battery/battery charger information prior to installing, servicing or operating your lift.

Pinch Points

WARNING

Pinch points exist at base of lift. Be careful, injury could occur.

SECTION 2—OPERATING THE BATH LIFT

⚠ WARNING

DO NOT attempt any transfer of a resident without approval of the resident's physician, nurse, or medical assistant. Thoroughly read the instructions in this owner's manual, observe a trained team of experts performing the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a resident.

ICCI recommends the use of the safety strap and shoulder harness when using the bath lift. Always adjust the safety strap and shoulder harness for safety and comfort before transferring the resident onto the chair.

The safety strap should be used when lifting or transferring. Otherwise, the resident may fall from the seat.

Adjustments for safety and comfort should be made before moving the resident.

Lock the rear casters of the bath lift when transferring an individual onto the seat or stretcher. Locking the rear casters will stabilize the lift and help prevent it from shifting during transfer.

Each facility and each resident will require a unique set of instructions and procedures to follow for each bath. Check with your supervisor and the resident's chart for the proper procedures to follow.

Review and practice the operation with an able bodied assistant before attempting with a resident.

NOTE: ICCI recommends that two assistants be used for all lifting preparation and transferring to/from procedures; however, the bath lift can be operated with one assistant.

Locking and Unlocking the Casters

NOTE: For this procedure, refer to FIGURE 2.1.

1. Lock the two rear locking casters on the lift by pressing down on the locking pedal with your foot.
2. Unlock the locking casters on the lift by lifting up on the locking pedal with your foot.

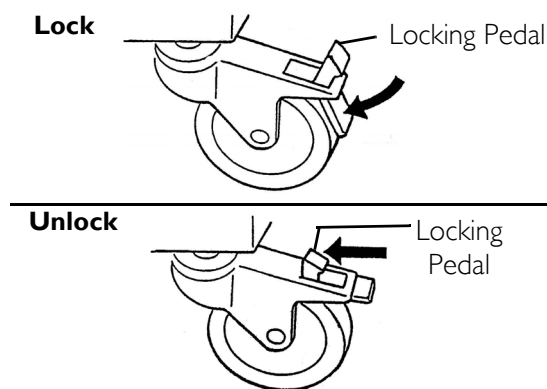


FIGURE 2.1 Locking and Unlocking the Casters

Transferring into/out of the Lift

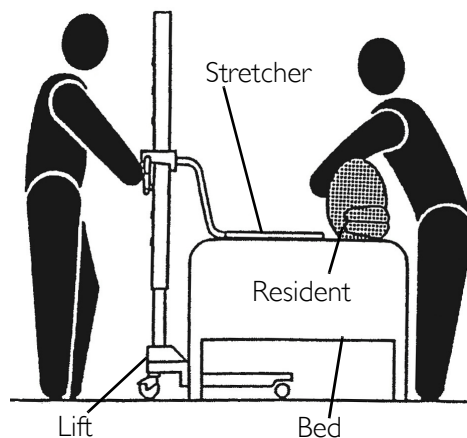
Using the Stretcher

NOTE: For this procedure, refer to FIGURE 2.2.

NOTE: To transfer out of the lift, reverse this procedure.

1. Position the lift next to the bed with the stretcher parallel to the bed.
2. If necessary, unfold the stretcher by performing the following steps (Detail "A"):
 - A. Press and hold the button on the stretcher frame.
 - B. Lower the wing arm down to the desired position.
 - C. Repeat steps A and B for the opposite wing arm.
3. Lower the stretcher to the bed height. Refer to Raising/Lowering the Bath Lift on page 13.
4. Roll the resident to the side away from the stretcher.
5. Push the lift toward the resident.
6. Lock the casters. Refer to Locking and Unlocking the Casters on page 10.
7. Roll the resident onto the stretcher.
8. Install the side guard and straps (not shown).

NOTE: The resident position can be adjusted by raising or lowering the stretcher ends.



DETAIL "A"

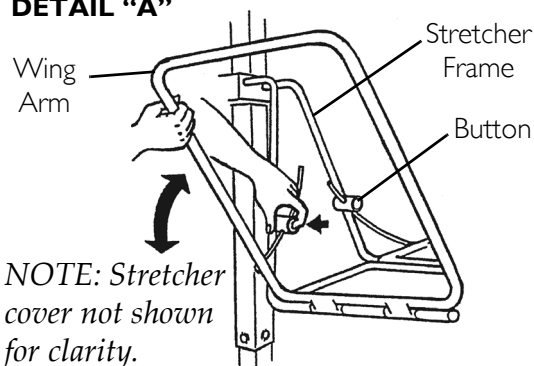


FIGURE 2.2 Transferring into/out of the Lift - Using the Stretcher

Using the Seat

NOTE: For this procedure, refer to FIGURE 2.3 on page 12.

NOTE: To transfer out of the lift, reverse this procedure.

1. Position the lift next to the seated resident.
2. Lower the seat to the resident's seat height. Refer to Raising/Lowering the Bath Lift on page 13.
3. Lock the casters. Refer to Locking and Unlocking the Casters on page 10.
4. Swing one or both armrests out of the way.

5. Transfer the resident onto the seat.

NOTE: Use the transfer methods prescribed by the facility and the needs of the resident.

6. Secure the resident in the seat using the straps (not shown).
7. Swing the armrests back into position.

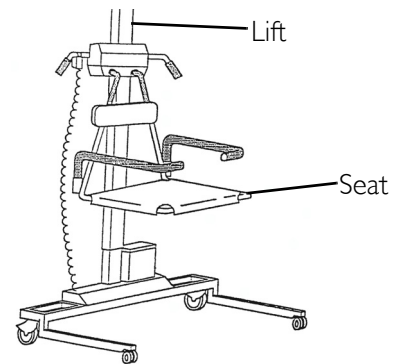


FIGURE 2.3 Transferring into/out of the Lift - Using the Seat

Transferring into/out of the Tub

CAUTION

The bath lift is designed for use with Sit and Supine Tubs only. The seat does not fit into Side Entry tubs.

NOTE: For this procedure, refer to FIGURE 2.4 and FIGURE 2.5 on page 13.

NOTE: To transfer out of the tub, reverse this procedure.

1. Prepare the tub for bathing. Refer to the tub owner's manual.
2. Transfer the resident into the lift. Refer to Transferring into/out of the Lift on page 11.
3. Position the lift seat so that the resident's feet are off of the floor. Refer to Raising/Lowering the Bath Lift on page 13.

NOTE: Position the lift seat at a comfortable low height so that the caregiver can maintain eye contact with the resident.

4. Unlock the casters. Refer to Locking and Unlocking the Casters on page 10.
5. Move the resident to the bathing unit using the lift.

6. Height Adjustable Bathing Units - Adjust the height of the tub to the lowest position.
7. Adjust the height of the seat or stretcher so it is slightly higher than the side of the tub.
8. Slowly begin to bring the resident over the tub.

NOTE: If using the seat, the resident's legs may need to be placed over the side of the tub.



NOTE: Stretcher shown.

FIGURE 2.4 Transferring into/out of the Tub

9. Center the resident over the tub.
10. Lock the casters. Refer to [Locking and Unlocking the Casters](#) on page 10.
11. Perform one or both of the following:
 - Lower the resident into the tub, making sure all parts of the stretcher or seat clear the tub edges.
 - Raise the height of the height adjustable tub.
12. Bathe the resident.
13. Reverse STEPS 2 thru 11 to transfer the resident out of the tub.
14. Disinfect the lift. Refer to [Disinfecting the Lift](#) on page 14

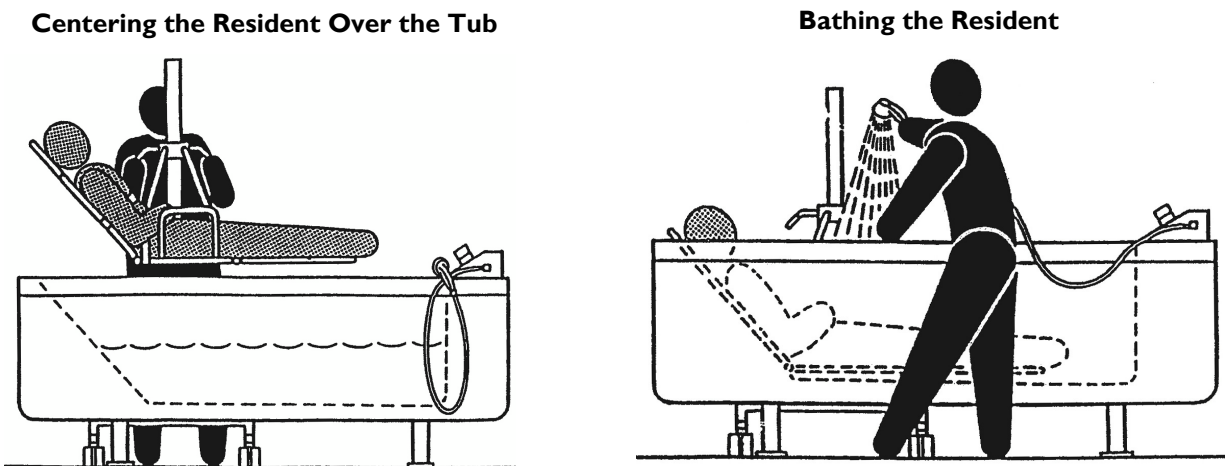


FIGURE 2.5 Transferring into/out of the Tub

Raising/Lowering the Bath Lift

NOTE: For this procedure, refer to FIGURE 2.6.

- To raise the bath lift, press the up arrow button on the hand pendant.
- To lower the bath lift, press the down arrow button on the hand pendant.

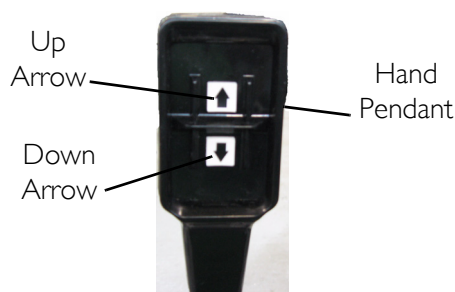


FIGURE 2.6 Raising/Lowering the Bath Lift

Disinfecting the Lift

NOTE: For this procedure, refer to FIGURE 2.7 on page 15.

⚠ WARNING

The stretcher or seat and arms of the lift must be disinfected after each use with a bath.

ALWAYS wear protective gloves and eye protection when working concentrated chemical disinfectants.

1. Prepare a working solution of ICCI disinfectant by doing the following:
 - A. Mix concentrated disinfectant with water to a dilution ration of half-an-ounce of disinfectant per one gallon of water. Prepare the disinfectant in accordance with the instructions on the disinfectant packaging.
 - B. Transfer the diluted disinfectant into a labeled spray bottle.

NOTE: The dilution label and bottle size MUST be accurate and match.

NOTE: The closed loop disinfectant system in the tub can also be used to obtain disinfectant from the burp fitting and/or disinfectant wand. Refer to the tub owner's manual for more information.

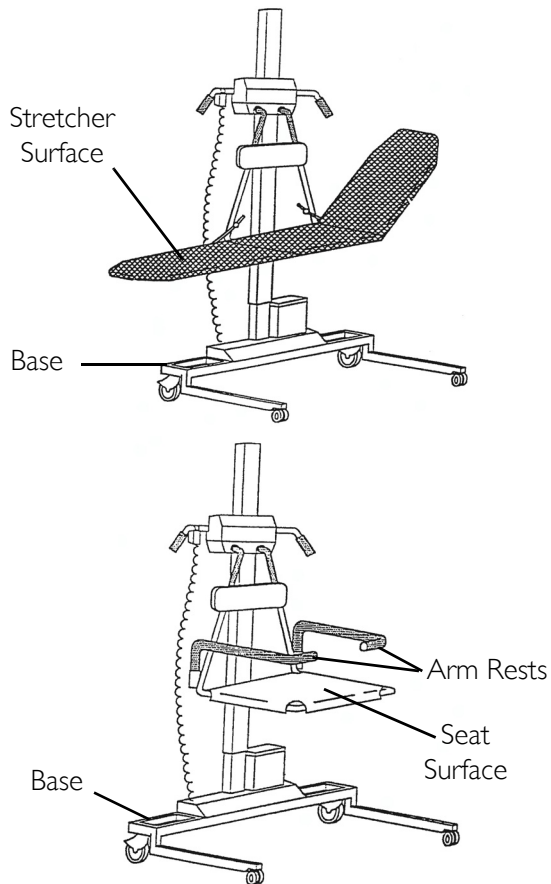
NOTE: The stretcher cover may also be laundered using the washing machine. Refer to the laundering instructions tag for machine washing instructions. DO NOT dry using a clothes dryer.

2. Position the bath lift into the tub. Refer to STEPS 6 to 11 in Transferring into/out of the Tub on page 12.
 3. Spray both sides of the seat or stretcher surface, the safety strap, the shoulder strap, and the arm rests of the lift. Refer to Detail "A" of FIGURE 2.7.
-

CAUTION

DO NOT spray the push handles, scale, or hand pendant with water or disinfectant. Directly spraying water or disinfectant on these components may damage the electronic components.

4. Gently wipe the push handles, scale, hand pendant, and any other surfaces that were handled during the transport and bathing of the resident with a wash cloth containing the diluted disinfectant. Refer to Detail "B" of FIGURE 2.7.
 5. Let the disinfectant sit for ten minutes.
 6. After ten minutes, rinse the seat surface, safety strap, shoulder strap, arm rests, and any other non-electronic surface with the shower wand of the bath. Refer to the individual bathing unit's owner's manual for using the shower wand.
 7. Lightly wipe the push handles, scale, and hand pendant with a damp cloth.
 8. Dry all surfaces with a clean towel.
 9. Remove the bath lift from the tub. Reverse STEPS 13 to 16 in Locking and Unlocking the Casters on page 10.
-

DETAIL “A” - NON ELECTRONIC SURFACES

NOTE: Safety straps not shown.

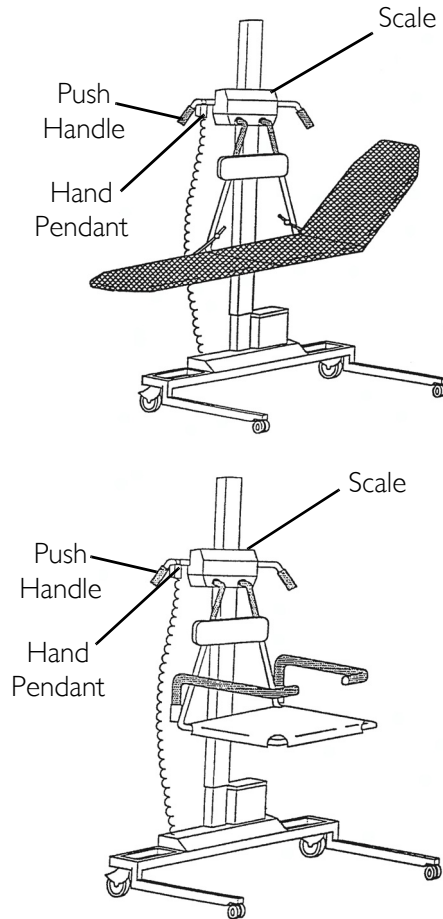
DETAIL “B” - ELECTRONIC SURFACES

FIGURE 2.7 Disinfecting the Lift

Mounting the Battery Charger

NOTE: For this procedure, refer to FIGURE 2.8.

NOTE: Refer to state and local regulations concerning proper mounting procedures.

1. Place the battery charger mounting bracket on the wall at the desired position.
2. With a pencil, mark the mounting hole positions.
3. Install the mounting screws (not shown) until there is an approximate 1/8-inch gap between the screw head and the wall.
4. Install the battery charger with mounting bracket onto the mounting screws.
5. Tighten the mounting screws (not shown) securely.
6. Plug the battery charger power cord into the wall electrical outlet.

NOTE: The RED and GREEN LEDs will illuminate. The illumination of the LEDs indicates that the charger is operable.

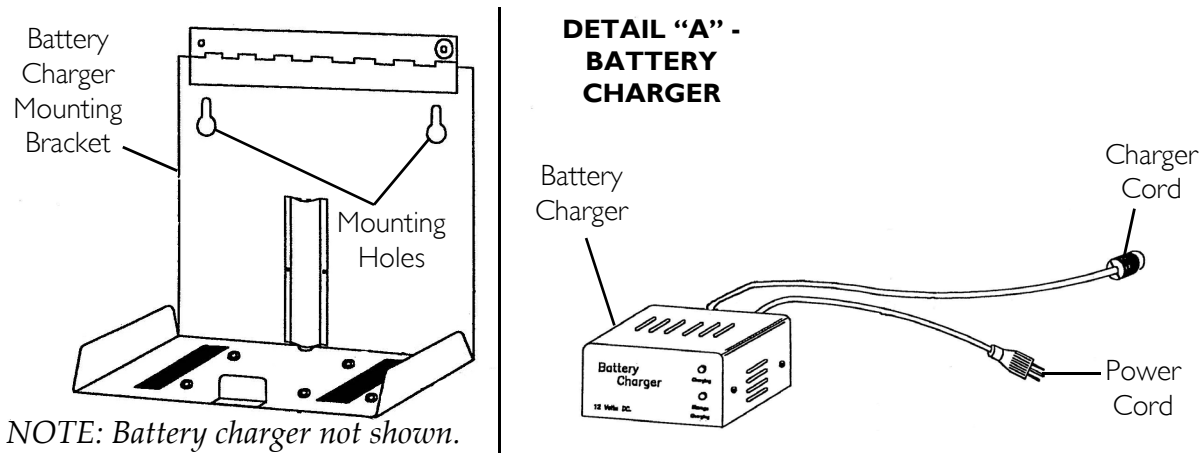


FIGURE 2.8 Mounting the Battery Charger

Charging the Battery

NOTE: For this procedure, refer to FIGURE 2.9 on page 17.

Using the Wall-Mounted Battery Charger

1. Lift the battery lid (Detail "A").
2. Disconnect the battery connectors.
3. Remove the battery from the lift.
4. Lift the lid on the battery charger.
5. Position the battery into the battery charger.
6. Connect the charger connector to the battery connector.
7. Plug the battery charger into a power outlet.
8. Charge the battery.
9. Lift the battery charger lid (Detail "A").
10. Disconnect the charger connector from the battery connector.
11. Remove the battery from the battery charger.
12. Install the battery into the lift.
13. Connect the battery connectors.
14. Close the battery lid.

DETAIL "A"

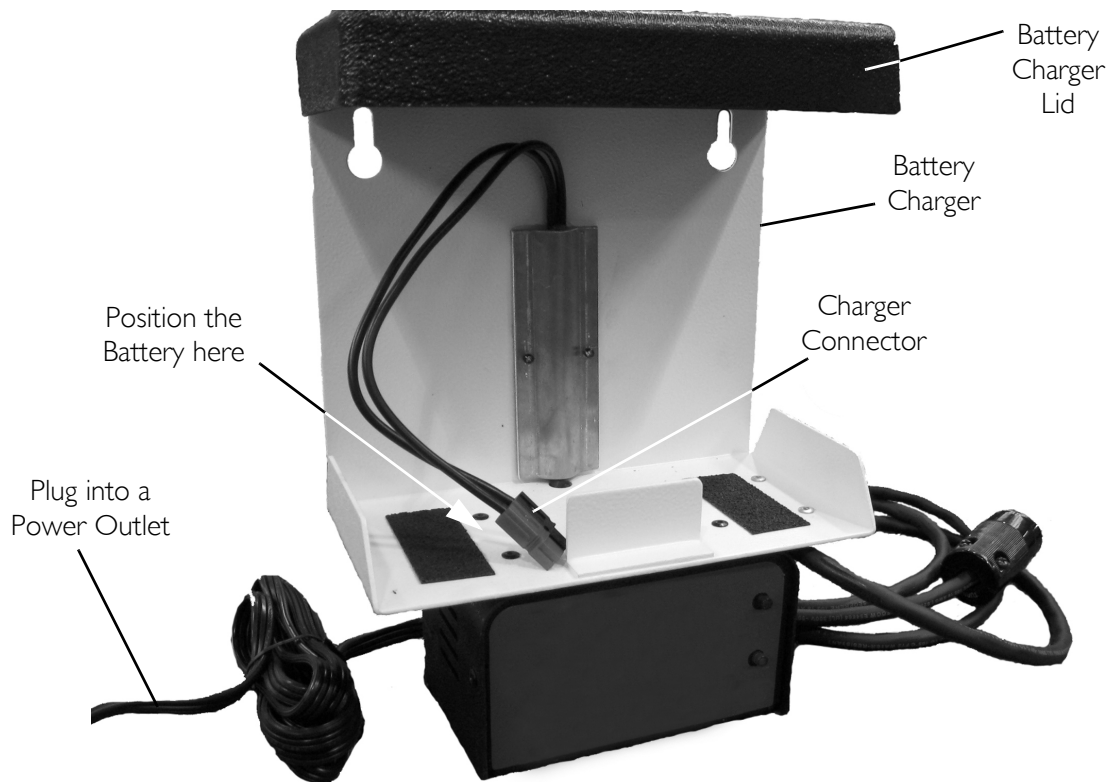
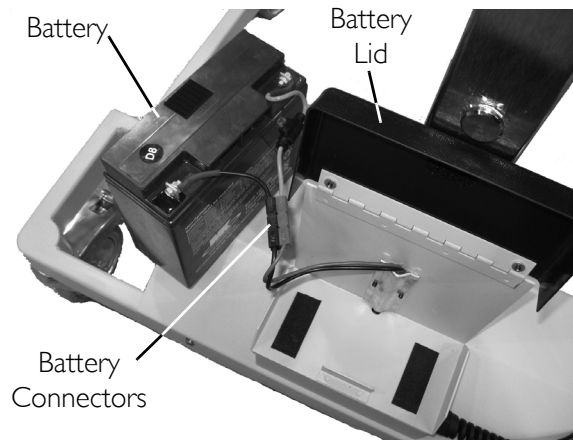


FIGURE 2.9 Using the Wall-Mounted Battery Charger

Using the On-Board Battery Charger

NOTE: For this procedure, refer to FIGURE 2.10.

CAUTION

If the charging cord is not locked into the battery charge port the battery will not charge fully.

Always unplug the charging cord from the battery charge port before wheeling the lift away. Otherwise, damage to the charging cord will occur.

1. Plug the charging cord into the battery charge port by performing the following steps:
 - A. Insert the charging cord into the battery charge port.
 - B. Rotate the charging cord to lock it into the battery charge port.
2. Press the switch to the Charge position.
3. Plug the battery charger into a power outlet.
4. Charge the battery.
5. Perform the following steps to disconnect the charging cord from the battery charge port:
 - A. Rotate the charging cord to unlock it from the battery charge port.
 - B. Remove the charging cord from the battery charge port.
6. Press the switch to the Lift position.

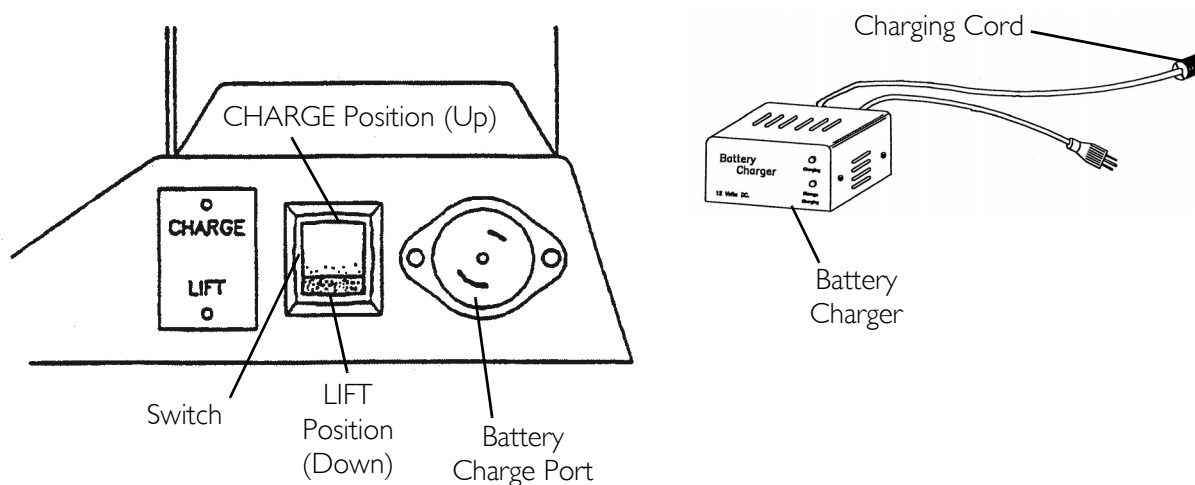


FIGURE 2.10 Using the On-Board Battery Charger

SECTION 3—USING THE SCALE

⚠ WARNING

DO NOT attempt any transfer of a resident without approval of the resident's physician, nurse, or medical assistant. Thoroughly read the instructions in this owner's manual, observe a trained team of experts performing the lifting procedures and then perform the entire lift procedure several times with proper supervision and a capable individual acting as a resident.

ICCI recommends the use of the safety strap and shoulder harness when using the bath lift. Always adjust the safety strap and shoulder harness for safety and comfort before transferring the resident onto the chair.

The safety strap should be used when lifting or transferring. Otherwise, the resident may fall from the seat.

Make adjustments for safety and comfort before moving the resident.

Lock the rear casters of the bath lift when transferring an individual onto the seat or stretcher. Locking the rear casters will stabilize the lift and help prevent it from shifting during transfer.

Each facility and each resident will require a unique set of instructions and procedures to follow for each bath. Check with your supervisor and the resident's chart for the proper procedures to follow.

Review and practice the operation with an able bodied assistant before attempting with a resident.

NOTE: ICCI recommends that two assistants be used for all lifting preparation and transferring to/from procedures; however, the bath lift can be operated with one assistant. The use of one assistant is based on the evaluation of the health care professional for each individual case.

Removing/Installing the Bath Scale

NOTE: For this procedure, refer to FIGURE 3.1 on page 20.

NOTE: To install the bath scale, reverse this procedure.

1. Lock the two rear locking casters on the bath lift by pressing down on the locking pedal with your foot (Detail "A").
2. Press on the down arrow on the hand pendant to lower the bath lift.
3. Remove the three bolts that secure the hanger rods to the bath scale (Detail "D").
4. Pull the hanger rods away from the patient scale to remove the seat or stretcher from the bath lift.

NOTE: If the hand pendant is hanging on the steering handle (as shown in Detail "C", remove it from the steering handle before lifting the bath scale off of the lift column.

5. Lift the bath scale off of the lift column.

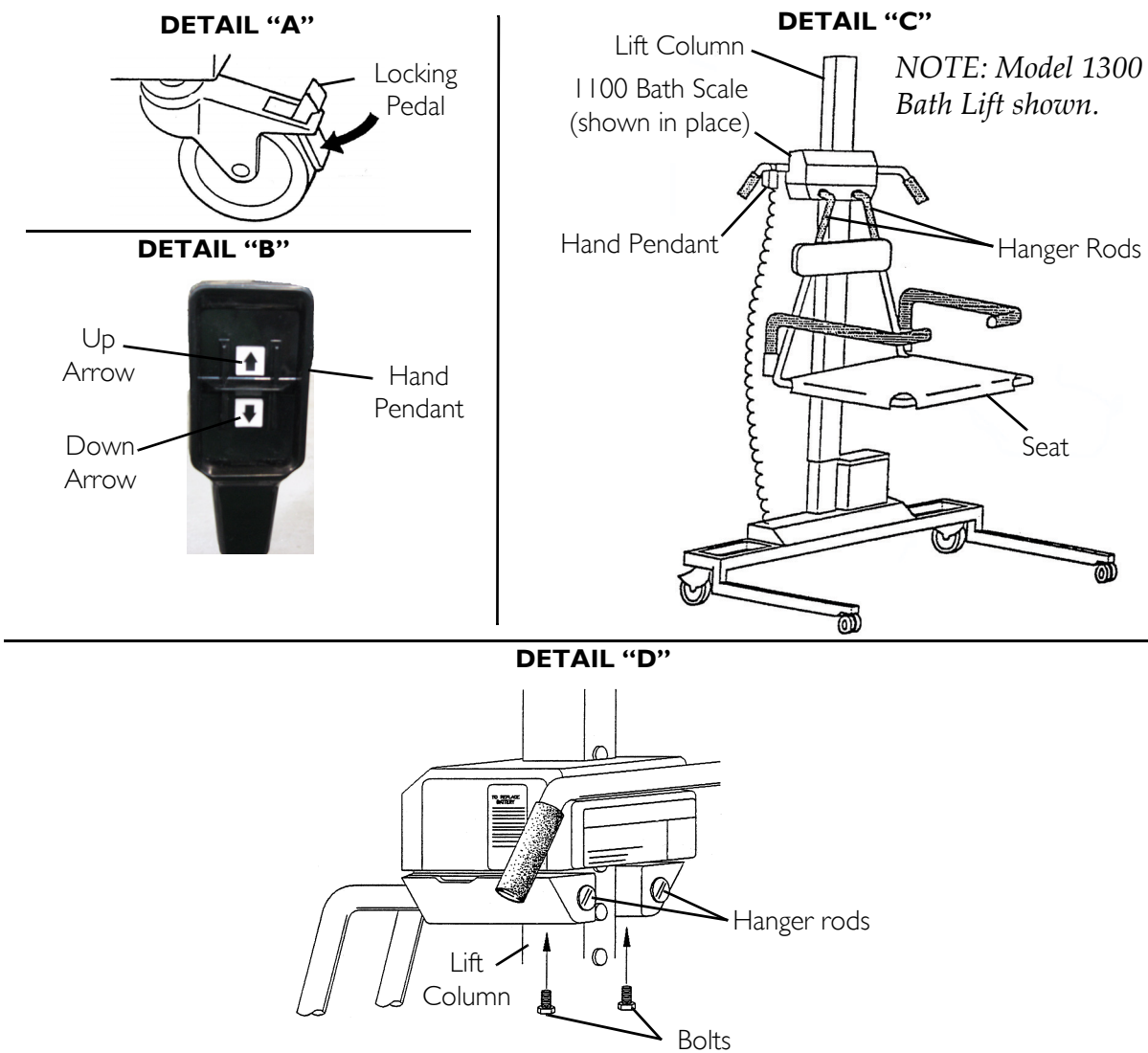


FIGURE 3.1 Removing/Installing the Bath Scale

Functions

CAUTION

DO NOT operate keypad with pointed objects (i.e. pencils, pens, fingernails, etc.) - otherwise damage to the key pad will result.

DESCRIPTION	LOCATION	DEFINITION
ZERO	Lower Left below the Display Window	Pressing this key when the scale is on will reset the weight shown in the display window to zero.
WEIGH	Lower Right below the Display Window	This key is used to display the patient's weight value in the display window. <i>Note: The patient's weight will be displayed for approximately 60 seconds.</i>
LB/KG SWITCH	Underneath Display Window	Use the LB/KG switch to switch between Pounds and Kilograms
LOW BATT INDICATOR	Upper Left Corner of Display window	"B" will show in the display window to notify when battery is low.

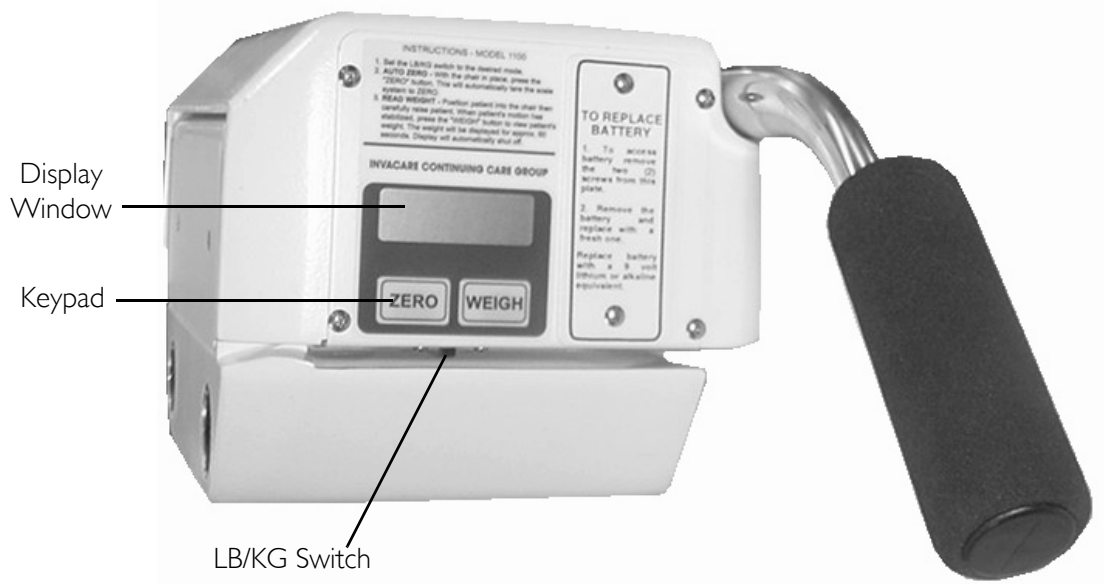


FIGURE 3.2 I100 Bath Scale

Replacing the Battery

NOTE: For this procedure, refer to FIGURE 3.3.

NOTE: The scale is powered by a nine volt alkaline battery that should provide approximately 3,000 readings before needing replacement.

NOTE: When battery replacement is needed, a "B" will appear in the upper left hand corner of the display window.

1. Remove the two screws that attach the battery cover to the bath scale.
2. Remove and replace the 9 Volt battery.
3. Attach the battery cover to the bath scale with two screws.

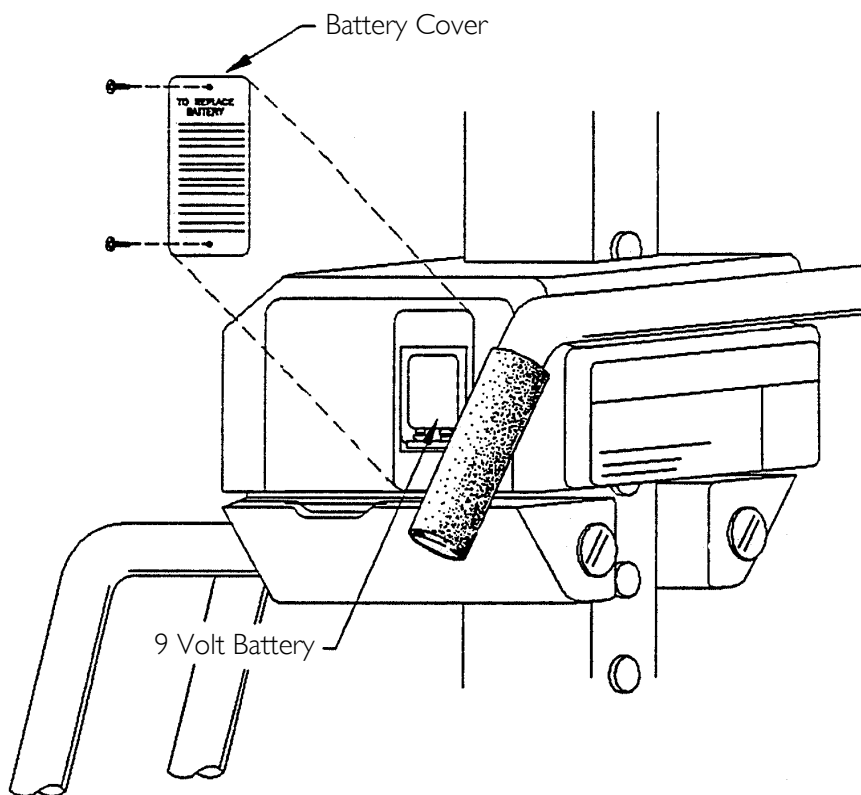


FIGURE 3.3 Replacing the Battery

Calibrating the 1100 Bath Scale

NOTE: For this procedure, refer to FIGURE 3.1 on page 20 and FIGURE 3.4.

1. The patient **MUST** be removed from the bath lift to properly calibrate the bath scale. Refer to Transferring into/out of the Lift of the Bath Lift Owner's Manual for instructions.
2. Remove the seat/stretcher from the bath lift.
 - Lock the two rear locking casters.
 - Press on the down arrow on the hand pendant to lower the bath lift.
 - Remove the three bolts that secure the hanger rods to the bath scale.
 - Pull the hanger rods away from the patient scale to remove the seat or stretcher from the bath lift.

3. Remove the four screws that attach the cover to the bath scale.

NOTE: The RUN/CAL switch is located next to the display window and is visible after the cover is removed.

4. Slide the switch marked RUN/CAL to the CAL position.
5. Adjust R9 so the display indicates +15 pound offset. Refer to Detail "A" of FIGURE 3.4.
6. Reverse STEP 2 to attach the seat or stretcher to the bath lift.
7. Make note of the weight of the seat or stretcher on the display.
8. Put 200 pounds of calibrated weight on the seat or stretcher. Check for the proper weight increase relative to the weight of the seat or stretcher noted in STEP 7.
9. Adjust R18 until the weight on the display is accurate of the combined weight of the calibrated weight and the weight of the seat or stretcher. Refer to Detail "A" of FIGURE 3.4.
10. Remove the calibrated weight from the bath scale. Repeat STEPS 5-9 as necessary.
11. Slide the RUN/CAL switch to the RUN position. Press the ZERO button.
12. When the display window reads 0.0, place the calibrated weight on the seat or stretcher and make sure the weight on the display is correct.
13. Remove the calibrated weight from the bath scale.

NOTE: The bath scale is ready for use.



DETAIL "A" - 1100 BATH SCALE CIRCUIT BOARD

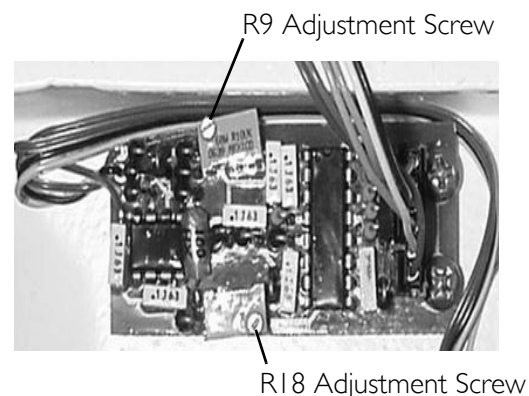


FIGURE 3.4 Calibrating the 1100 Bath Scale

SECTION 4—ADJUSTMENTS

Adjusting the Frame Column Height

NOTE: For this procedure, refer to FIGURE 4.1.

If the lift seat or stretcher touch the bottom of the bathing system or are too high for the bathing system, use this procedure to ensure the frame column has been adjusted to the proper height.

NOTE: The bottom of the seat or the stretcher should be approximately two inches above the bottom of the bathing system.

1. Lower the lift. Refer to Raising/Lowering the Bath Lift on page 13.
2. Lock the casters. Refer to Locking and Unlocking the Casters on page 10.
3. Stretchers Only - Perform the following to fold up both ends of the stretcher:
 - A. Press and hold the button on the stretcher frame.
 - B. Fold up the end of the stretcher.
 - C. Repeat STEPS A and B for the other end of the stretchers.
4. Press and hold the release lever.
5. Swing the bottom of the stretcher or seat out and up.
6. Raise or lower the stretcher or seat onto one of the six column stops.

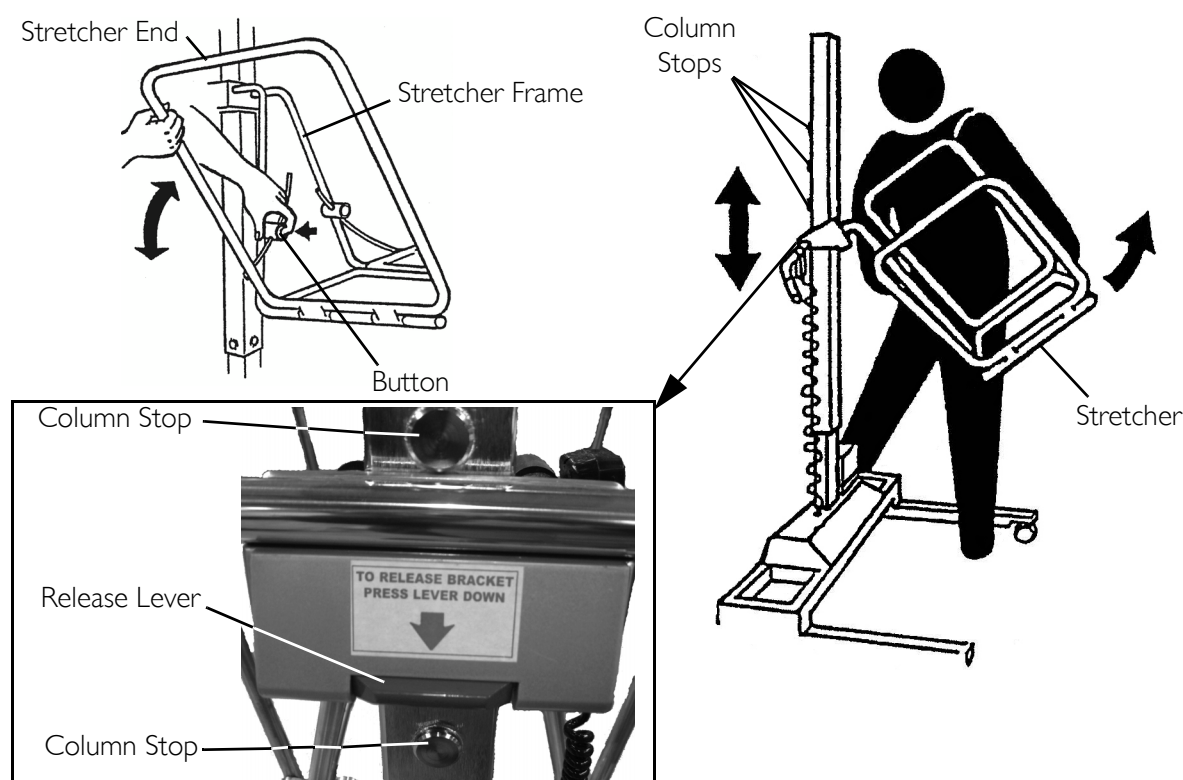


FIGURE 4.1 Adjusting the Frame Column Height

Adjusting the Lift Column

NOTE: For this procedure, refer to FIGURE 4.2.

NOTE: The nylon bearing screws installed in the outer column have been adjusted at the factory before shipping. They keep the outer column centered around the inner column and provide a smooth glide up and down. The ends of the nylon bearing screws can wear with use and should be checked periodically. Approximately every six months, check the adjustment of the nylon bearing screws.

1. Lower the lift to the full down position.
2. Turn one of the nylon bearing screws until the screw bottoms on the inner column.
3. Back off the screw 1/8 turn.
4. Repeat for the remaining 3 nylon bearing screws.
5. Ensure the outer column looks centered on the inner column. If it is not centered, perform the following steps:
 - A. Loosen one nylon bearing screw.
 - B. Tighten the nylon bearing screw directly opposite the screw loosened in STEP A.
 - C. Repeat Steps A and B until the outer column is centered on the inner column.
6. If the column binds or chatters, repeat STEPS 1-5.

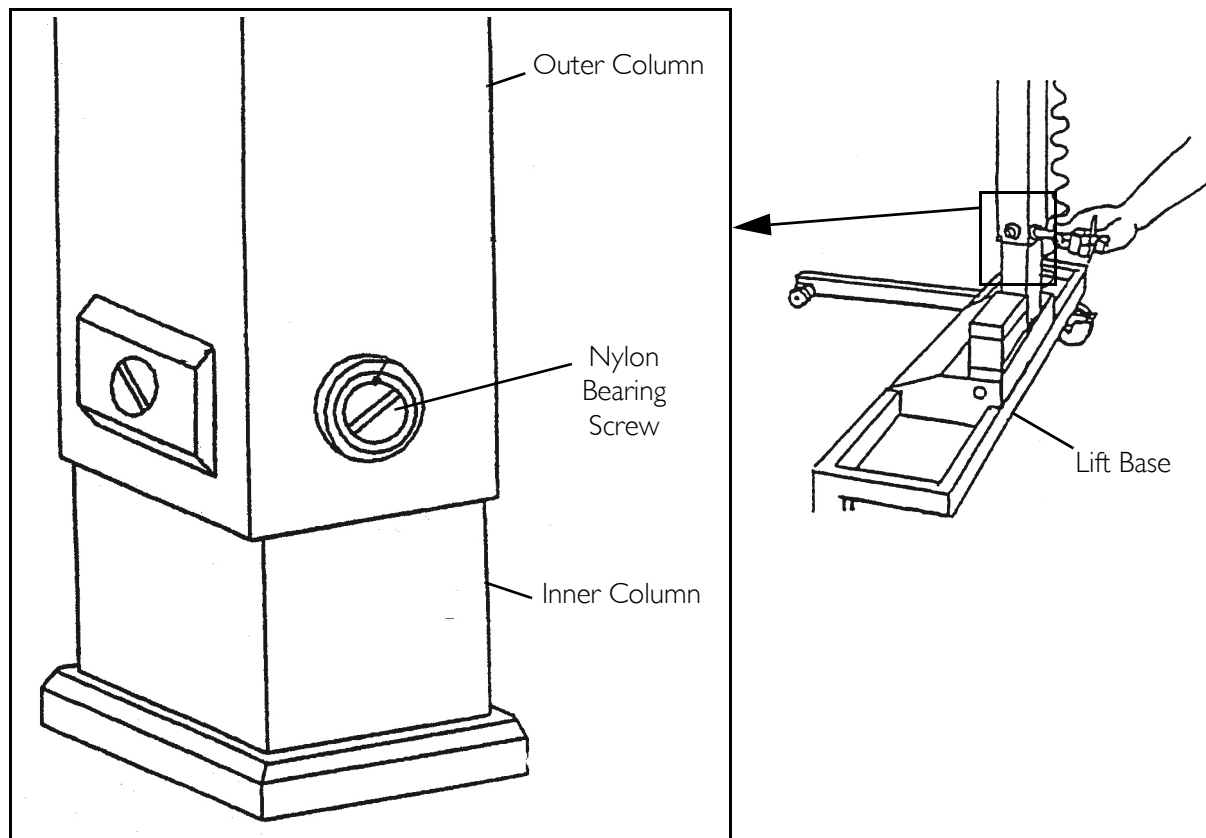


FIGURE 4.2 Adjusting the Lift Column

SECTION 5— MAINTENANCE AND TROUBLESHOOTING

Safety Inspection Checklists

Inspect/Adjust Initially and Monthly

- ☐ Inspect caster base for missing hardware.
- ☐ Ensure that the caster base is level and not rocking on casters.
- ☐ Inspect the casters and axle bolts for tightness.
- ☐ Inspect casters for smooth swivel and roll.
- ☐ Ensure that casters are free of debris.
- ☐ Inspect the inner mast for bends or scrapes.
- ☐ Inspect the arms, hardware and attachment points.
- ☐ Ensure the seat arms lift out to the sides.
- ☐ Ensure the button positions stretcher arms properly.
- ☐ Ensure that the seat arms are level and/or even.
- ☐ Ensure that the electric actuator assembly operates smoothly and quietly.
- ☐ Clean the lift whenever necessary. Regular cleaning will reveal loose or worn parts, enhance smooth operation and extend the life expectancy of the lift.
- ☐ Inspect all safety strap attachments to ensure proper connection and occupant safety.
- ☐ Inspect the safety strap for signs of wear. Replace if worn or damaged.
- ☐ Check that all labels are present and legible. Replace if necessary.
- ☐ Inspect electrical components for signs of corrosion. Replace if corroded or damaged.

Adjust Every 6 Months

- ☐ Adjust the frame column. Refer to Adjusting the Lift Column on page 25.

Care and Maintenance of Bath Lift

The lifts are designed to provide a maximum of safe, efficient and satisfactory service with minimum care and maintenance.

All parts of the lifts are made of the best grades of steel, but metal-to-metal contact will wear after considerable use.

There is no adjustment or maintenance of either the casters or wheel locks, other than cleaning, lubrication and checking axle and swivel bolts for tightness. Remove all debris, etc. from the wheel and swivel bearings. If any parts are worn, replace these parts immediately.

If you question the safety of any part of the lift, contact ICCI immediately.

Detecting Wear and Damage

It is important to inspect all stressed parts. Replace any damaged or worn parts immediately and ensure that the lift is not used until repairs are made.

Cleaning the Lift

WARNING

The arms and seat of the lift must be cleaned and disinfected after each use with a bath. Refer to Disinfecting the Lift on page 14.

1. A soft cloth, dampened with water and a small amount of mild detergent, wipe down all parts of the lift that are submerged in water from the bath.

NOTE: The lift can be cleaned with non-abrasive cleaners or disinfectants.

CAUTION

DO NOT use the dryer when laundering the stretcher cover, button cover and safety straps. Line dry only. Otherwise damage may occur.

2. Remove the stretcher cover, button cover and safety straps and wash in warm soapy water. Disinfect as necessary.

Troubleshooting

NOTE: If problems are not remedied by the suggested means, please contact ICCL.

Lift

SYMPTOMS	PROBABLE CAUSE	SOLUTIONS
Seat and/or upper column feels loose.	Nylon bushing is loose.	Refer to Troubleshooting on page 28.
Casters/brakes noisy or stiff.	Fluff or debris in bearings.	Clean the or replace the casters.
Electric actuator fails to lift when button is pressed.	<p>Hand-control or actuator connector loose.</p> <p>Battery is low.</p> <p>Battery not connected properly to control box.</p> <p>The connecting terminals are damaged.</p> <p>Electric actuator in need of service or load is too high.</p>	<p>Check connections.</p> <p>Charge batteries. Refer to Charging the Battery on page 16.</p> <p>Reconnect the battery to the control box. Refer to Charging the Battery on page 16.</p> <p>Replace the battery pack. Refer to Charging the Battery on page 16.</p> <p>Contact ICCL.</p>
Unusual noise from actuator.	Actuator is worn or damaged or spindle is bent.	Contact ICCL.

Scale

SYMPTOMS	PROBABLE CAUSE	SOLUTIONS
Scale does NOT work properly.	Battery failure.	Check battery. Replace if necessary.
Battery has been replaced and scale still does NOT work properly.		Contact ICCL.

SECTION 6—ACCESSORIES

Installing the Stretcher Cover

NOTE: For this procedure, refer to FIGURE 6.1.

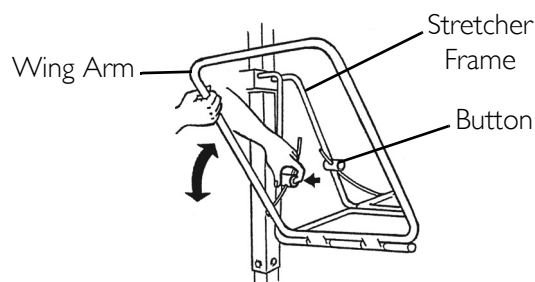
NOTE: This procedure applies to the IHTRV1210 Mesh Stretcher Cover.

1. Press and hold the buttons on the stretcher frame (Detail "A").
2. Raise the right and left wing arms of the stretcher to an upright position.
3. Align the stretcher cover with the stretcher frame.
4. Slide the stretcher cover down over the frame (Detail "B").

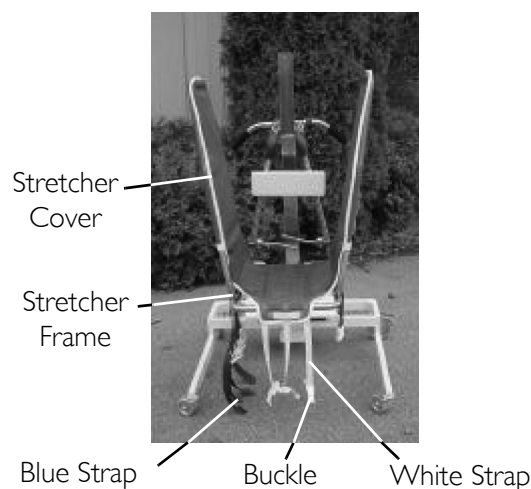
NOTE: Ensure the long white straps with the male ends of the buckles are in the front of the stretcher.

5. Tuck the cover down under the button knobs.
6. Fasten the three white buckles to secure the stretcher cover to the stretcher frame.
7. Fasten the 2-inch blue straps around the bottom of the stretcher frame. DO NOT overtighten the straps, otherwise the wing arms will not lower smoothly to the flat position.
8. Attach the button cover securely onto the stretcher frame using the hook and loop fasteners (Detail "C").
9. Attach the safety straps through the slots on the back of the stretcher cover (Detail "C").

DETAIL "A" - WING ARM



DETAIL "B" - STRETCHER COVER



DETAIL "C" - BUTTON COVER AND SAFETY STRAPS

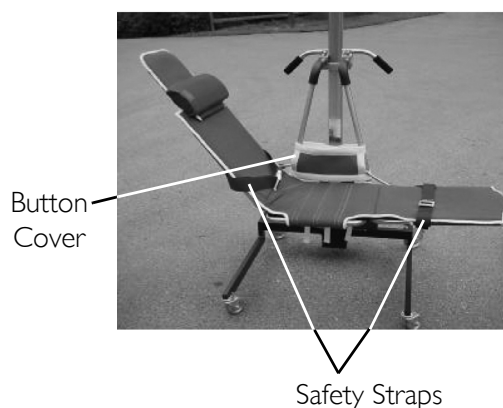


FIGURE 6.1 Attaching the Stretcher Cover

Installing the Short Stretcher Padded Cover

NOTE: For this procedure, refer to 3. on page 29, FIGURE 6.2, FIGURE 6.3 on page 31, FIGURE 6.4 on page 31 and FIGURE 6.5 on page 32.

NOTE: This procedure applies to the Padded Mesh Stretcher Cover.

1. Press and hold the buttons on the stretcher frame (Detail “A” of FIGURE 6.1).
2. Raise the right and left ends of the stretcher to an upright position.
3. Position the three seat straps horizontally across the seat frame (FIGURE 6.2).

NOTE: The seat straps are labeled with an “S” on the buckle.

4. Attach the three seat straps to the seat frame.
5. Ensure the buckles are on the bottom of the seat.
6. Tighten the seat straps until they are snug. DO NOT overtighten the straps, otherwise the wing arms will not lower smoothly to the flat position.

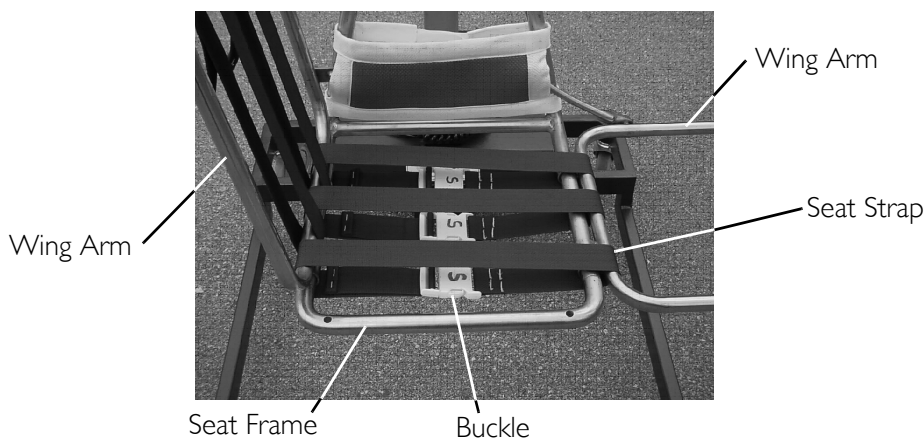


FIGURE 6.2 Seat Straps

7. If necessary, raise the right or left wing arm of the stretcher to prepare the head end (FIGURE 6.3).

8. Position the two back straps vertically onto the head end of the stretcher.

NOTE: The back straps are labeled with a “B” on the buckle.

9. Attach the two back straps to the head end of the stretcher.
10. Ensure the buckles are on the outside of the stretcher.
11. Ensure the two back straps are tight.

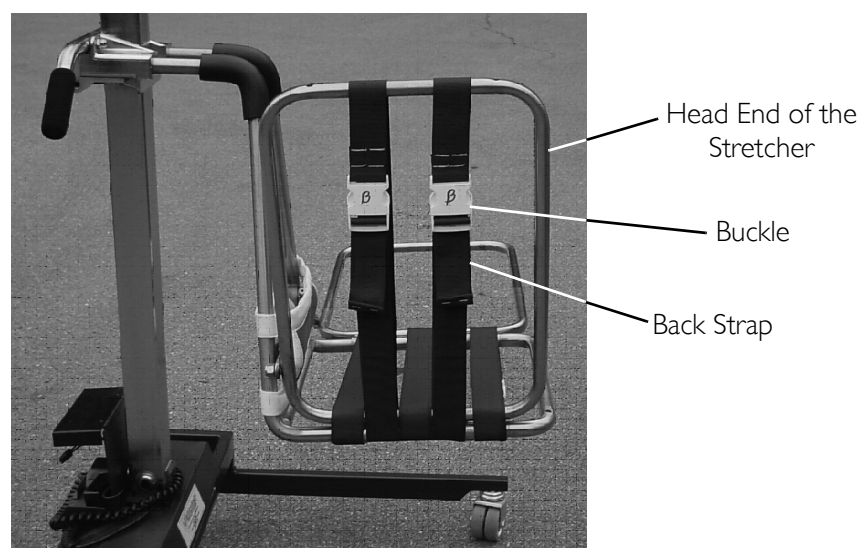


FIGURE 6.3 Back Straps

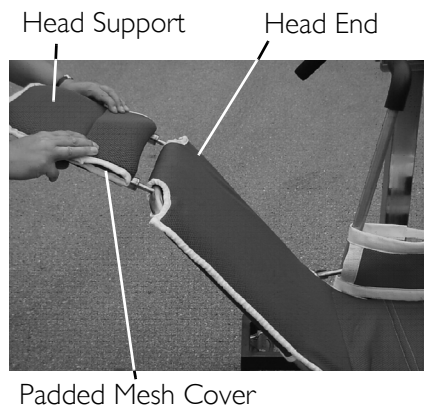
12. Ensure both stretcher wing arms are raised (Detail "A" of FIGURE 6.4).
13. Position the stretcher cover so the white belt straps are in the front of the seat.
14. Slide the stretcher cover over the stretcher frame.
15. Tuck the stretcher cover down under the buttons on the stretcher frame.
16. Fasten the three white buckles under the seat.
17. Attach the back button cover over the buttons using the straps.



FIGURE 6.4 Positioning the Cover/Button Cover

18. Locate the head end of the stretcher (Detail "A" of FIGURE 6.5).
19. Slide the padded mesh cover over the head support and attach to the head end of the stretcher.
20. Attach the mesh covered pillow to the head support (Detail "B" of FIGURE 6.5).
21. Attach the safety straps through the slots on the back of the stretcher cover (Detail "C" of FIGURE 6.5).

DETAIL “A” - HEAD SUPPORT



**DETAIL “B” - MESH
PILLOW**



DETAIL “C” - SAFETY STRAPS



FIGURE 6.5 Head Support/Mesh Pillow/Safety Straps

NOTES

NOTES

LIMITED WARRANTY

PLEASE NOTE: THE WARRANTY BELOW HAS BEEN DRAFTED TO COMPLY WITH FEDERAL LAW APPLICABLE TO PRODUCTS MANUFACTURED AFTER JULY 4, 1975.

This warranty is extended only to the original purchaser/user of our products.

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

Invacare Continuing Care, Inc. (ICCI) warrants this product to be free from defects in materials and workmanship on the lift and the electric components for a period of one year from the date of purchase. If within such warranty period any such component shall be proven to be defective, such component shall be repaired or replaced, at ICCI's option. This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product. ICCI's sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

For warranty service, please contact the dealer from whom you purchased your ICCI product. In the event you do not receive satisfactory warranty service, please write directly to ICCI at the address on the back cover, provide dealer's name, address, date of purchase, indicate nature of the defect.

ICCI will issue a serialized return authorization. The defective unit or parts **MUST** be returned for warranty inspection using the serial number, when applicable as identification within 30 days of return authorization date. **DO NOT** return products to our factory without our prior consent.

C.O.D. shipments will be refused; please prepay shipping charges.

LIMITATIONS AND EXCLUSIONS: THE FOREGOING WARRANTY SHALL NOT APPLY TO SERIAL NUMBERED PRODUCTS IF THE SERIAL NUMBER HAS BEEN REMOVED OR DEFACED, PRODUCTS SUBJECTED TO NEGLIGENCE, ACCIDENT, IMPROPER OPERATION, MAINTENANCE OR STORAGE, PRODUCTS MODIFIED WITHOUT ICCI'S EXPRESS WRITTEN CONSENT (INCLUDING, BUT NOT LIMITED TO, MODIFICATION THROUGH THE USE OF UNAUTHORIZED PARTS OR ATTACHMENTS; PRODUCTS DAMAGED BY REASON OF REPAIRS MADE TO ANY COMPONENT WITHOUT THE SPECIFIC CONSENT OF ICCI, OR TO A PRODUCT DAMAGED BY CIRCUMSTANCES BEYOND ICCI'S CONTROL, AND SUCH EVALUATION WILL BE SOLELY DETERMINED BY ICCI. THE WARRANTY SHALL NOT APPLY TO PROBLEMS ARISING FROM NORMAL WEAR OR FAILURE TO ADHERE TO THE INSTRUCTIONS IN THIS MANUAL.

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THIS WARRANTY SHALL BE EXTENDED TO COMPLY WITH STATE OR PROVINCIAL LAWS AND REQUIREMENTS.



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USA and Canada
One Invacare Way
Elyria, Ohio USA
44036-2125
800-333-6900

Invacare Continuing Care, Inc.
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www.invacare-ccg.com

Manufacturing Location
899 Cleveland Street
Elyria, Ohio USA
44036-2125

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