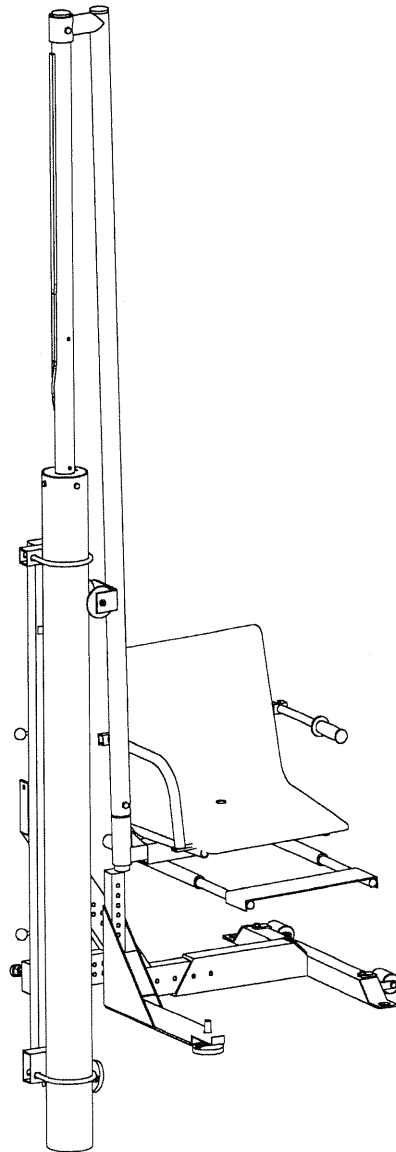


Swim-Lift[®] Series Model Gallatin



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Contents

Unpacking and Inspection	1
Tools Required	1
Retro-Fit Anchor Installation	2
Lift Assembly	3
Operator's Guide	6
Lift Maintenance	7
Pool Chemistry	8
Troubleshooting	8

Swim-Lift® Series Model Gallatin

Unpacking and Inspection

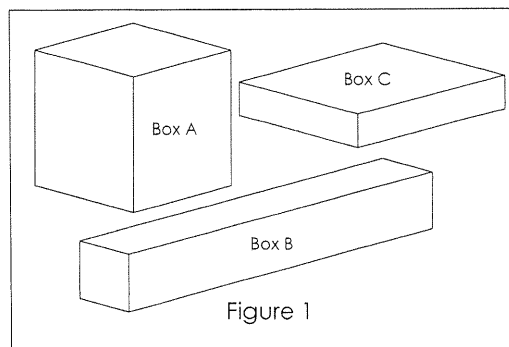
Congratulations! You have just purchased one of the finest pool access lifts available today. Providing that the unit is installed correctly and properly maintained, it will furnish you with many years of trouble-free use. It is important to read this entire manual prior to beginning assembly or operation.

Each Swim-Lift® Gallatin will arrive partially assembled in three boxes. Before accepting the Swim-Lift® Gallatin from the carrier, inspect for visible damage and/or match the contents with those listed below.

Box A: (1) Seat Assembly
(1) Footrest
(1) 50 Ft. Garden Hose

Box B: (1) Cylinder Assembly
(1) Seat Arm
(1) Support Column
(1) Valve Assembly

Box C: (1) Support Leg Assembly
(1) Base Stand Leg
(3) Hardware/Donut Shims
(2) Anchor Assemblies (Standard Swim-Lift® Gallatin Only)
(2) Male Acme Bolts
(1) Pressure Foot Assembly



Tools Required

The following tools will be required to complete assembly and installation:

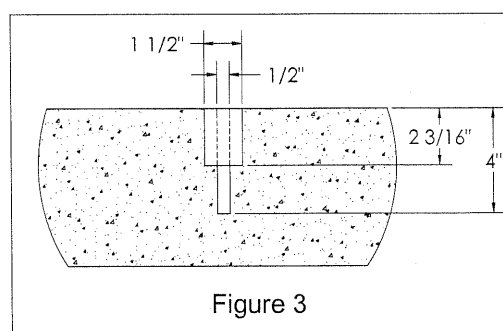
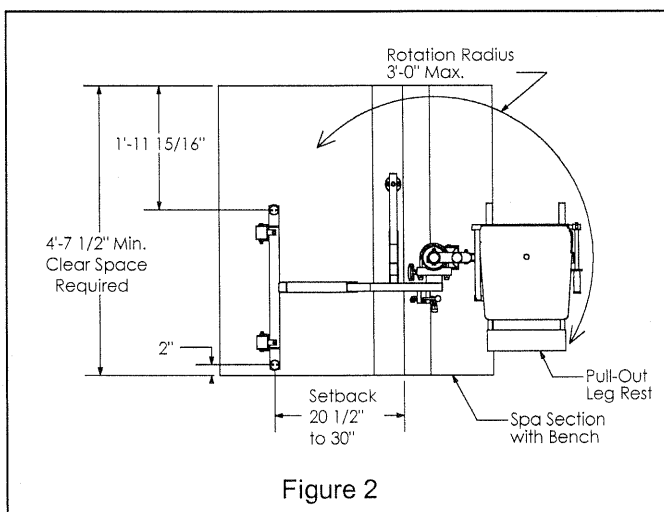
- Rotary impact drill (retrofit anchors only)
- 1/2" diameter concrete drill bit (retrofit anchors only)
- 1 1/2" diameter concrete core drill (retrofit anchors only)
- Hydraulic cement or two-part epoxy
- Socket wrench
- 9/16" deep well socket (retrofit anchors only)
- 3/4" socket or wrench
- 9/16" socket or wrench
- 1/2" socket or wrench
- 15/16" open end wrench
- 7/64" hex key (allen) wrench
- Carpenters level
- Marking pen or chalk (retrofit anchors only)
- Spanner Wrench (provided)
- Hammer (retrofit anchors only)
- Torque wrench

Retro-Fit Anchor Installation

If you purchased and installed a Swim-Lift® Gallatin Pre-Set Anchor previously or if your Retro-Fit Anchors are already installed, please proceed to the Lift Assembly Section on page 3.

- Step 1.** Determine a suitable location for the lift. The Swim-Lift® Gallatin must be installed with sufficient deck space and operational area in the pool or spa as shown in Figure 2.

Note: The Gallatin can be mounted along a curved wall as long as there is sufficient clear space for the chair to rotate and lower into the water. Do not locate the lift in a corner or directly adjacent to ladders, stair rails, or similar structures. Do not place the lift where it may be cumbersome or hazardous to any pool users.



- Step 2.** Determine the location of the anchors. The anchors can be installed between 20-1/2\" and 30\" back from the pool/spa edge with the standard base stand. The recommended anchor setback is 24\". Make sure the centers of both anchors are the same distance from the pool. Make sure there is at least 6\" from the center of each anchor to the nearest joint, crack, curb, or similar concrete structure to ensure the strength of the concrete.

Note: Optional base stand configurations are available if this setback range or anchor location will not work with your pool.

- Step 3.** Mark the location of each anchor on the deck and use a 1/2\" diameter concrete drill bit to drill a 4\" deep hole at each location. Make sure to drill straight down.
- Step 4.** Use a 1-1/2\" diameter concrete core drill to drill out the anchor holes to a depth of 2-3/16\" as shown in Figure 3. Clean all of the debris from the holes. Check to see that the bottom of each hole is in solid concrete. The anchors will only hold if the surrounding concrete is solid. The top of the anchor should be 1/4\" below the deck surface. The anchors can be installed deeper, if necessary, to mount to sufficiently solid concrete.

Step 5. Use a small amount of two-part epoxy or hydraulic cement in each anchor hole and set an anchor into each hole. Set the expansion anchor at the bottom of the anchor hole by tapping the anchor pin with the supplied 1/4" diameter set tool rod with a hammer. Use a 9/16" deep well socket to tighten the internal anchor bolt to approximately 30 ft-lbs. torque. Allow sufficient time for the epoxy or cement to completely harden before installing the lift in the anchors.

Note: Many states require that any metal appliance that is within five feet of poolside be grounded. Retrofit installations are often difficult to ground. It is the responsibility of the installer to determine if grounding is necessary. Electrolysis may occur if the unit is not properly grounded. See the pool chemistry section on page 8.

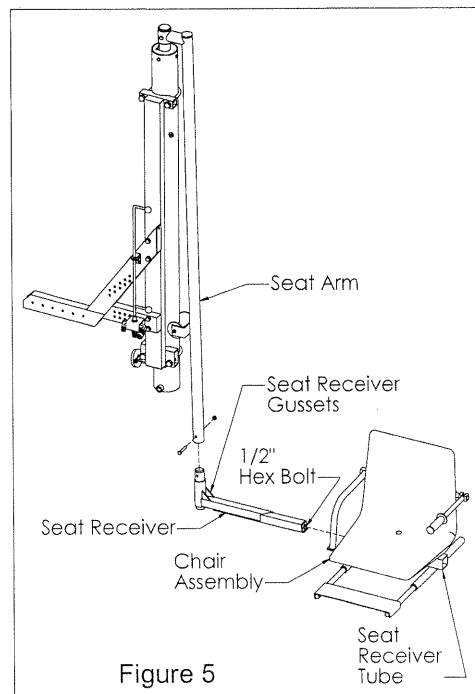
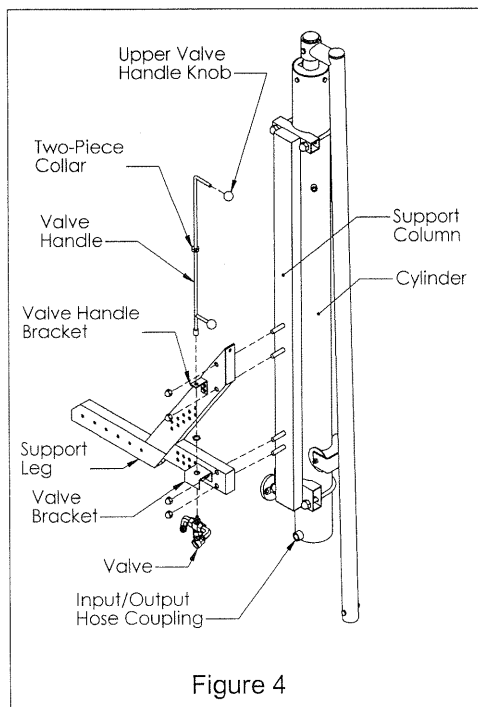
Lift Assembly

Step 1. Attach the support leg to the cylinder support column assembly, as shown in Figure 4, on the four 1/2"-13 x 3-1/2" hex head bolts. Secure the Support Leg with four 1/2" acorn nuts.

Step 2. Mount the valve to the valve bracket on the support leg as shown in Figure 4. Use the brass hardware supplied with the valve.

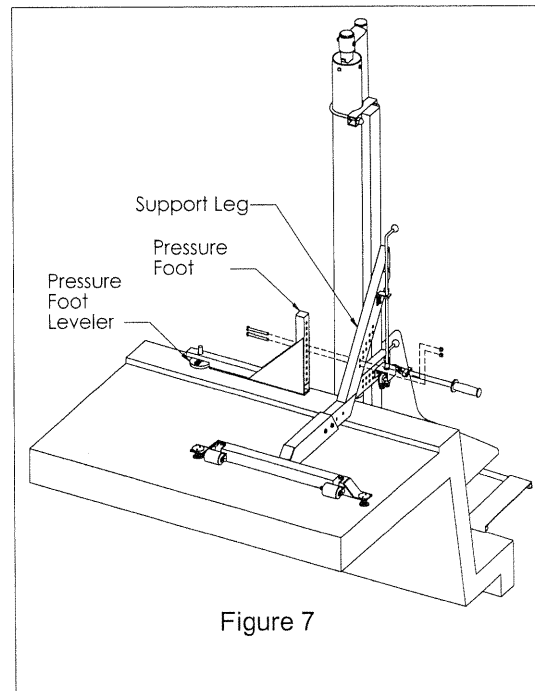
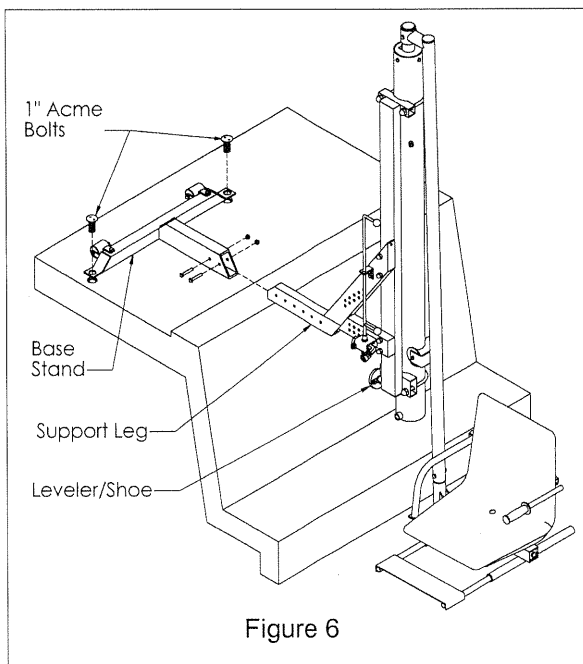
Step 3. Remove the upper valve handle knob from the valve handle and slide the valve handle through the valve handle bracket. Match the flat on the valve post to the flat on the inside of the valve handle sleeve and slide the valve handle onto the valve post. Replace the upper valve handle knob on the valve handle.

Note: The two-piece collar on the valve handle holds the valve handle in place and may need to be repositioned. To move the collar, loosen the screws in the collar using a 7/64" hex key wrench. Move the collar so that it is just below the valve handle bracket and retighten the screws. See Figure 4.



- Step 4.** Attach the input/output hose (the hose attached to the center valve coupling on the valve) to the hose coupling at the base of the lift cylinder. See Figure 4. The valve is shipped with the input/output hose attached.
- Step 5.** Attach the seat receiver to the seat pole using one 3/8"-16 x 2-1/4" hex head bolt and one 3/8" acorn nut as shown in Figure 5.
- Step 6.** Slide the seat receiver tube over the seat receiver on the seat arm. The seat receiver tube should slide up to the seat receiver gussets. The seat is secured in place by tightening the 1/2" bolt on the end of the seat receiver. Make sure this bolt is tight enough to prevent the seat from sliding off of the seat receiver. See Figure 5.
- Step 7.** Bolt the base stand to the anchors in the deck using two 1" diameter acme bolts as shown in Figure 6. **Do not completely tighten the 1" diameter acme bolts at this time.**
- Step 8.** Carefully insert the support leg into the base stand as shown in Figure 6. Push the lift assembly into the base stand until the leveler shoe is against the pool/spa wall. Pull the support leg out of the base stand slightly until two of the holes in the support leg line up with the two holes in the base stand. Secure the support leg in the base stand with two 3/8"-16 x 2-1/4" hex head bolts and two 3/8" acorn nuts.

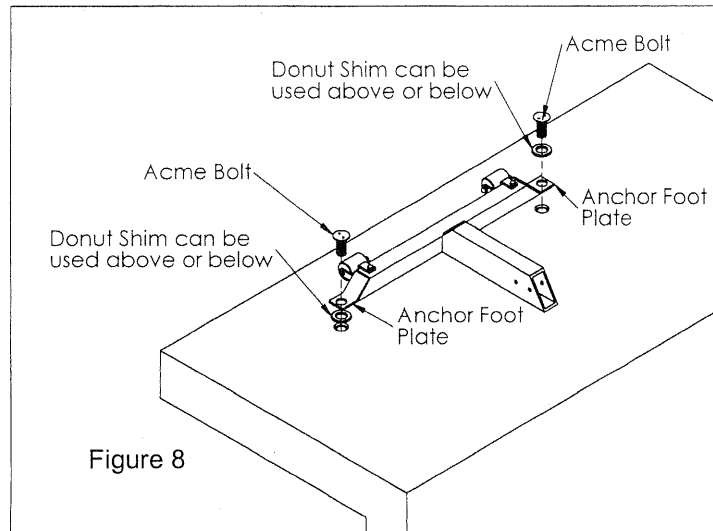
Note: If the anchors are set a 20-1/2" from the pool/spa edge, only one hole in the base stand will be available for a bolt and the other will be blocked. It is acceptable in this situation to mount the support leg in the base stand using only one bolt.



- Step 9.** Attach the pressure foot to the support leg using two 3/8"-16 x 3-1/2" hex head bolts and two 3/8" nylock nuts as shown in Figure 7. Choose the appropriate bolt holes in the support leg and pressure foot so that the pressure foot contacts the deck and holds the lift in a straight up and down position left to right. If necessary, adjust the pressure foot leveler or remove one or two of the shims bolted to the bottom of the pressure foot to properly level the lift.

Note: The pressure foot will mount to the support leg on either an upper or a lower set of holes, not both.

- Step 10.** Tighten the 1" acme anchor bolts using the supplied spanner wrench. Level the lift front to back, if necessary, by using donut shims between the base stand and each anchor. The donut shims can be used individually or in combination to level the lift. The donut shims can be used above the anchor foot plate or below as shown in Figure 8 to prevent the acme bolts from bottoming out in the anchors.



- Step 11.** Adjust the leveler shoe at the bottom of the cylinder so that it contacts the pool/spa wall and lock it in place with the 5/8" jam nut. See Figure 6.

Note: Use of the leveler shoe at the base of the cylinder is not required for operation of the lift. The leveler shoe should be used if possible, but if its position is at the water line on a gutter it may not be possible adjust it to fit. This will not affect the operation of the lift.

- Step 12.** Check that the cylinder is perpendicular to the deck in all directions with a carpenter's level. Adjust the pressure foot or change donut shims at each anchor to level the lift. If the lift is not installed level and perpendicular it may lower the lifting capacity, reduce the operational life of the lift, or void the warranty.
- Step 13.** Connect the water supply to the female garden hose coupling on the control valve. Read the Operation section before using your Swim-Lift® Gallatin.

Operator's Guide

Please read the Operation section completely before using your Swim-Lift® Gallatin.

The Swim-Lift® Gallatin is a water-powered handicapped lifting aid designed for use with water systems that have a 55 PSI rating. This lift will function with as little as 45 PSI water pressure. Optional pump kits are available for supplying a constant pressure of 55 PSI. Lifting capacities are based on a continual pressure supply without pressure drops incurred during peak demand periods of city water systems. The lifting capacity/pressure ratios are as follows:

<u>Pressure</u>	<u>Lift Capacity</u>
55 PSI	400 Lbs.
50 PSI	350 Lbs.
45 PSI	300 Lbs.

Never exceed the maximum rated load of 400 lbs. Other lift models are available for loads in excess of 400 lbs.

A backflow preventer may be required on this lift to prevent contamination of the municipal water supply. Please check your state and local codes to see if a backflow preventer is required.

Lift Preparation:

1. Turn the control valve to the intermediate stop position and attach the water supply hose to the valve. Turn the water supply on.
2. With no weight on the chair, turn the control valve handle to the up position. Allow the chair to fully raise.
3. Turn the control valve handle to the down position. Allow the seat to lower to a fully down position. Repeat steps 2 and 3 until a smooth operation is obtained. This process purges the air from the system and should not take more than 1 to 2 cycles to complete.
4. The lift is now fully operable.

Lift Operation:

1. Lift operation is controlled through the use of the control valve. The valve handle turned clockwise will lower the chair and turned counter-clockwise will raise the chair. The chair will stop at any point along its travel if the valve handle is turned to the intermediate position. Excessive force is not required to turn the valve handle. Instruct the facility on the use of the control valve prior to operation.
2. The outer chair arm flips up and back for ease of transfer from a wheelchair to the lift seat. In addition, the stationary arm on the inside of the chair may assist in transferring. Use of the seatbelt is recommended for all users. To facilitate safe loading and unloading of inexperienced users, we recommend that an attendant always be present. Instruct all facility on the proper use of the chair features and transfer procedure.
3. The leg rest provided is adjustable in length. The leg rest is adjusted by pushing or pulling it in or out to the desired position. It can also be removed completely if it is not needed.
4. A lock pin is attached to the top of the cylinder to lock the chair in the fully raised position or rotated 180° over the pool. Push the pin through the piston rod (lower hole) to lock the chair in the fully raised position when the lift is not in use and/or when the water supply is turned off. Use the 180° rotated lock pin hole (upper hole) to lock the chair in place when removing the lift from the anchors.

5. Keep other swimmers and children away from the lift at all times. Remove the lift from poolside when not in use if possible. A safety cover is available from Spectrum Aquatics® to prevent tampering or unauthorized use of the lift.
6. To drain the water from the lift for storage: disconnect the water source, turn the control valve to down, push the chair down, turn the valve to up, and push the chair back up. Repeat if necessary. This process will force the water from the cylinder, valve, and hoses for storage.

Lift Maintenance

The Swim-Lift® Gallatin is virtually maintenance free since the drive component (water) is a self-lubricant. Providing it is installed correctly, the lift will furnish the user with many years of trouble-free use. The following should be performed periodically to ensure safe and dependable use.

1. Remove any discoloration with a 3M scratch pad. Rinse with water. Repeat these steps several times to passivate the stainless steel. Cleanup kits are available from Spectrum.
2. Disengage the deck anchors and lubricate the acme thread nut with a small amount of Vaseline. Also, check that the inside bolt is tight. If it is loose or corroded, replace it immediately. Do not operate the lift until the bolt is replaced.
3. Lubricate the drive channel with Vaseline. A light amount is sufficient.
4. Check all bolts and hose clamps for tightness.
5. Clean the structural components with soap and water as needed. Auto wax can be applied for a cleaner appearance. Never use chlorinated cleaners or steel wool pads.
6. The application of clear lacquer has been successfully applied by spray technique at several facilities. This is sprayed onto clean stainless steel parts to enhance the lift's appearance and reduce occasional cleaning. **Do not spray lacquer on the piston rod.** This technique will not affect the lift's operation or warranty if applied only to the non-moving stainless steel parts of the lift.

Pool Chemistry

Experience has proven that pools that use chlorine, but do not properly ground the anchors, may have rust and corrosion problems with their Swim-Lift® Gallatin. This is due to a process called electrolysis in which an electrolytic cell is created between the pool water and the lift. Improper grounding, excessive chlorine content, high humidity, and extreme temperatures may cause the stainless steel to rust. Valves may be affected in extreme cases of electrolysis. Failure to adequately ground the lift may void the warranty for the valve component.

Troubleshooting

Problem:	Cause:
1. The chair will not raise or lower.	No water pressure Clogged or kinked hoses
2. The lift sticks at a certain point during the travel cycle.	Main shaft needs lubrication Water pressure drops in the system
3. The lift travels slower than usual.	Leaking hoses Kinked hoses Insufficient pressure Valve clogged or corroded

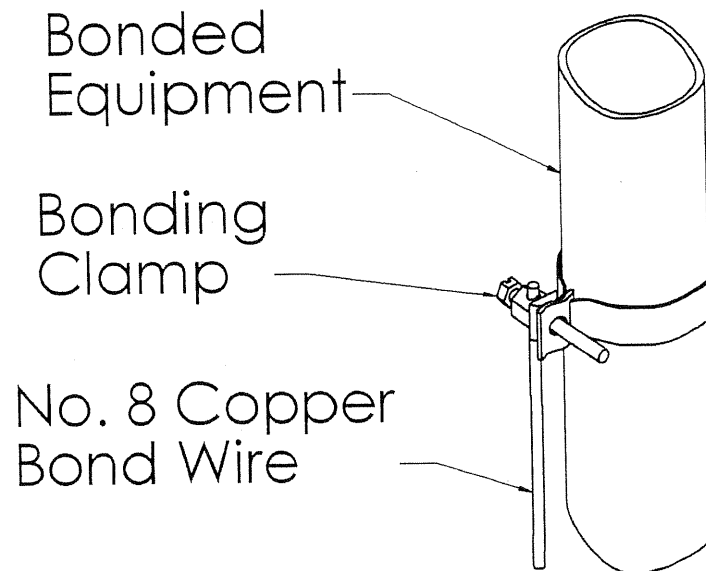
Traditionally we have found that the only problems that arise are due to leaks, insufficient water pressure, or exceeding the maximum rated load. Leaks are easy to detect and remedy by tightening hose connections. Lack of pressure in the intake system is generally easy to define by removing the intake connection at the control valve. Water should flow very fast and be nearly impossible to stop with thumb pressure. A water pressure gauge can be fastened to the end of the spigot if in doubt. Optional pump kits are available for water systems with low or unreliable pressure.

Addendum

Retrofit Anchor Bonding

Bonding the Swim-Lift Gallatin

A bonding clamp is supplied with every Gallatin Retrofit Anchor Kit as an option for bonding the lift. Attach the bonding clamp to any metal fixture near the lift that is known to be bonded. Run a number 8 copper wire between the bonding clamp and the bonding bolt on the Gallatin Base Stand (shown in Figure 8). See the instructions supplied with the bonding clamp and the figure below for proper assembly.



Addendum

Transport Pin

A transport pin is provided with the lift to enable the locking of the seat and seat arm in the raised position. The transport pin, located at the top of the lift cylinder, must not be removed while the water supply is disconnected, turned off, or while seated in the lift chair. Follow the instructions in the Operator's Guide section of the instruction manual for proper setup procedure after the water supply has been disconnected.

Do not attempt to operate the Swim-Lift® with the transport pin in place. Personal injury or damage to the lift may occur if the pin is in place while attempting to operate the Swim-Lift®.