



Aquatic Access[®] Inc.

Pool Lift Model IGMT



Installation Guide Instruction Manual

AquaticAccess.com

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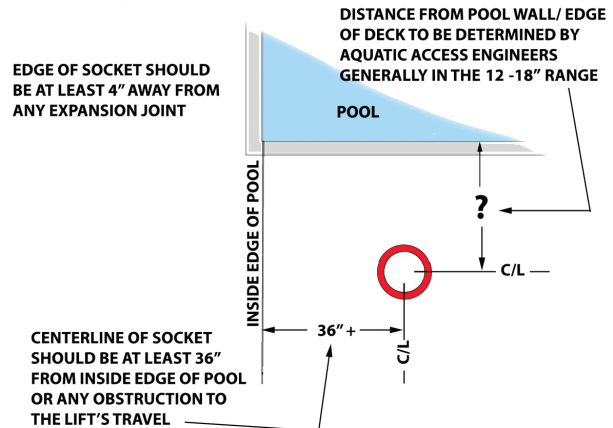
POOL LIFT MODEL IGMT

INSTALLATION

PLACEMENT OF SOCKET

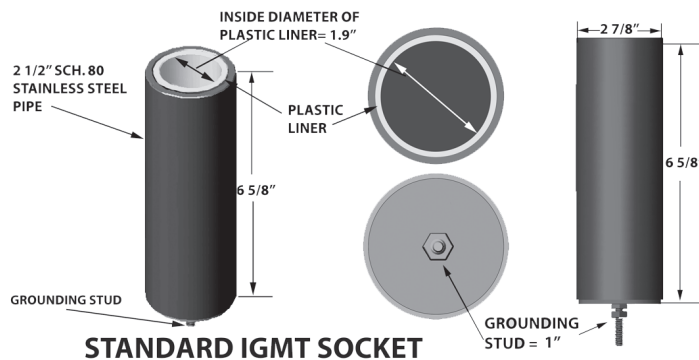
Install the socket for the IGMT pool lift at least 3' from any pool corner to insure that there is enough room for the seat's rotation and for the swimmer's feet to clear the edge of the pool. Locate the socket at least 12" but less than 18" from the edge of the pool.

IGMT SOCKET PLACEMENT



SOCKET INSTALLATION IN CONCRETE

The IGMT socket is constructed of 2 1/2" Sch. 40 stainless steel pipe, 6 1/2" long with a welded-in base and a short grounding stud. A plastic liner inside the pipe ensures an easy rotation for the lift.

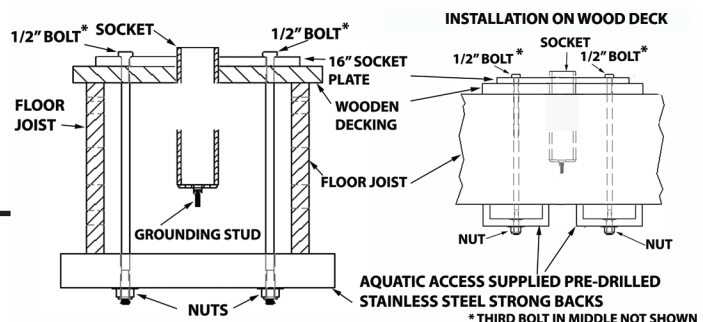


Using a 4" carbide core drill (provided by the customer), drill a hole in the concrete decking and clear to a depth of 8". Fill the hole around the socket with a good grade of hydraulic cement. Take care to prevent cement from falling inside. Place the socket in the hole with its top edge flush with the surface of the deck. Using a level

held inside the socket, determine that the socket is absolutely vertical. If the socket for the lift is not vertical, the installed lift will slowly swing to the low side. Allow the cement to cure overnight before installing the pool lift.

ALTERNATIVE INSTALLATIONS

In some pool environments, a socket plate is a better installation choice. When the IGMT pool lift is to be installed on



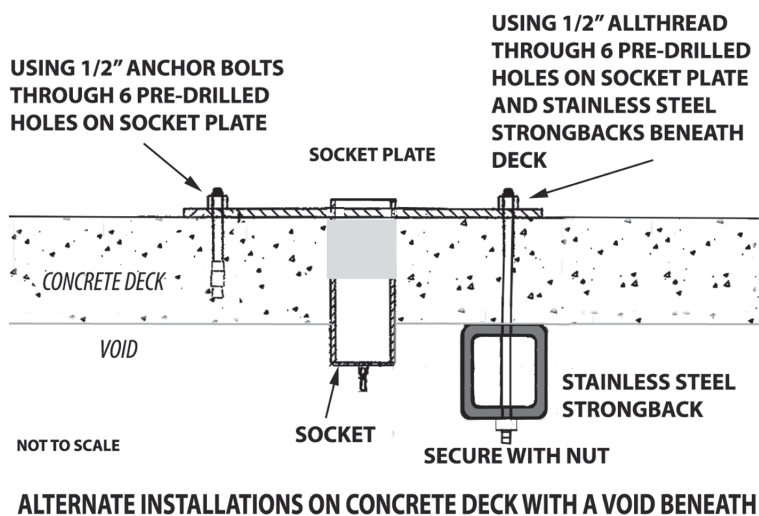
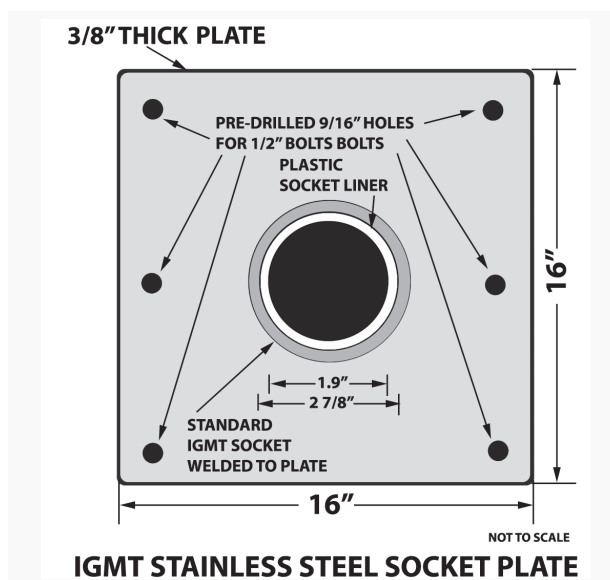
a wooden deck or in a concrete deck with a void beneath, a socket plate installation may be necessary. If a socket plate is to be installed on a concrete deck with no void beneath, anchor bolts are used.

For installations where there is access below the deck, stainless steel bolts are installed through the deck and pre-drilled stainless steel strongbacks, then secured with nuts and bolts. These stainless steel supports are available from Aquatic Access.

Using the socket plate as a guide, drill holes in the deck for the bolts and socket to pass through. If using strongback supports underneath, use the socket plate as a guide to position holes in them as well.

Align the holes in the supports underneath with the socket plate above and insert bolts. Place washers and nuts on bolt and tighten securely.

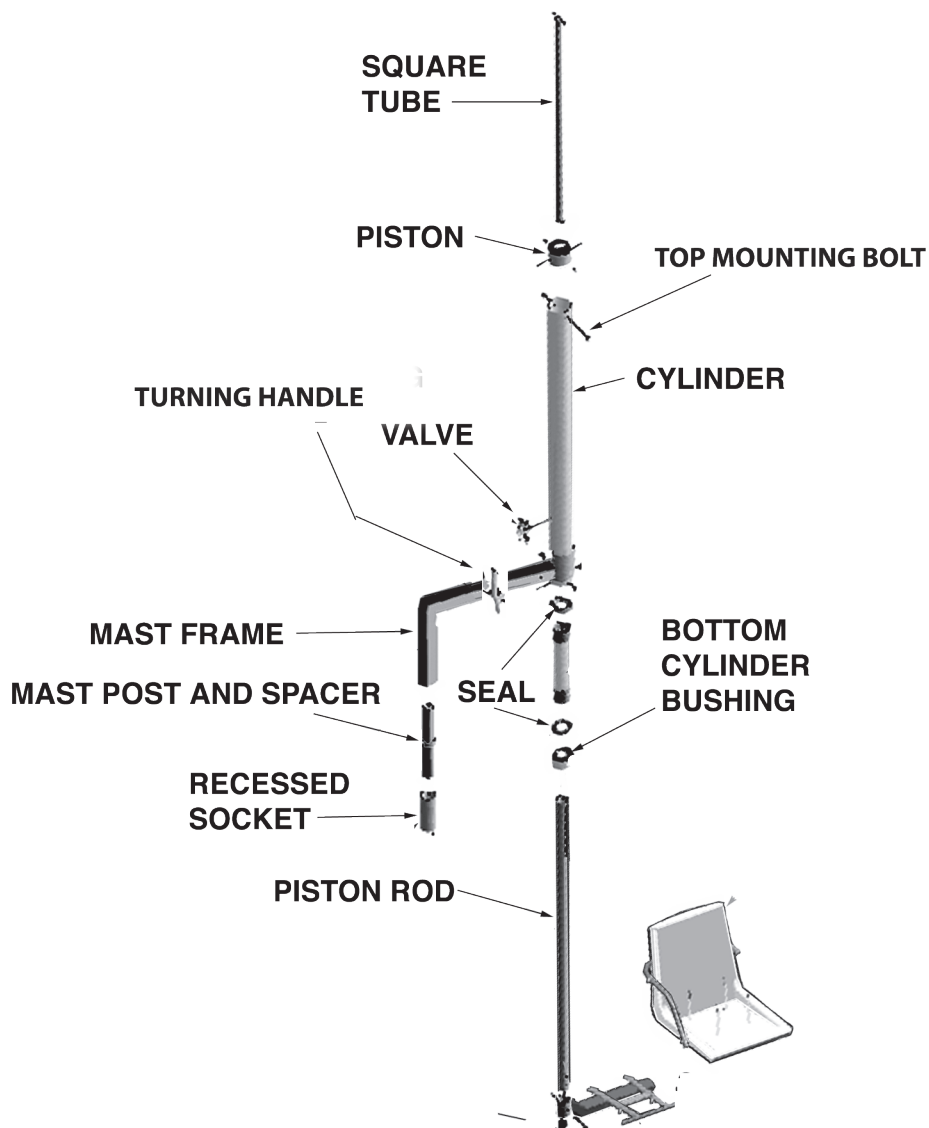
For installations where there is a concrete deck with a void beneath, 1/2" anchor bolts are used to secure the anchor plate in instances where there is no access to the void. For installations where there is an accessible void beneath a concrete deck, a socket plate is used with strongbacks in a configuration similar to that for wooden decks.



ASSEMBLY OF LIFT

Your IGMT pool lift has been assembled and tested in the factory before shipping. All parts are included in your shipment. Study the illustration of the lift in order to become familiar with its parts and their names. A reinforced garden hose connected to a nearby water source is needed to supply the lifting power. In cases of new construction, a water connection can be plumbed in specifically for the lift.

The standard IGMT pool lift is shipped in three cartons.



Carton #1: One long carton contains the lift cylinder, the valve, the socket, the socket cover, and possibly any accessories you ordered.

Carton #2: The square box contains the seat assembly, and possibly any accessories.

Carton #3: The mast is contained in the third package.

After you have installed the socket and allowed the cement to cure overnight, insert the mast into the socket and check that it rotates freely.

Remove the bolt from the rectangular tubing on the cylinder assembly. Also remove the turn handle. Pick up the cylinder assembly and insert the rectangular tubing into the mast.

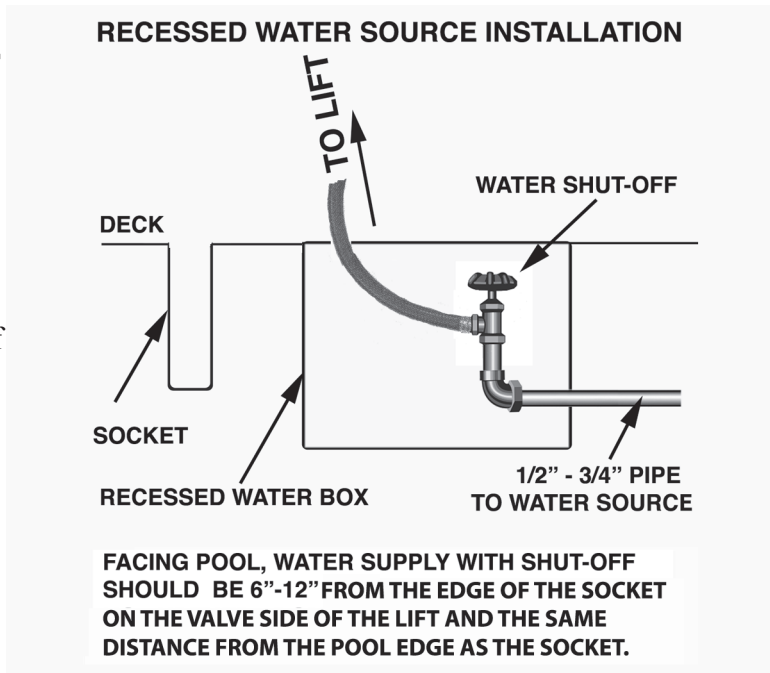
SAFETY ITEM: It is imperative that the top mounting bolt extend through both cylinder walls and through the square key tube. The lift may malfunction if the square key is not properly engaged and injury could result.

Place turning handle in position and reinsert the 1/2" bolt through all three components. Place locknut on end of bolt and tighten to snug.

WATER CONNECTION

Connect the water hose to the valve and turn on the water supply. Do not leave the water turned on when the lift is not in frequent use.

Your IGMT pool lift operates using normal household water pressures of 55-65 PSI. No electricity is used. With sufficient water pressure and proper installation, the IGMT will lift a 300 lb. individual. If your water pressure exceeds 70 PSI, a reducer is necessary to prevent damage to the lift. Although 55-65 PSI is required to lift the rated load, less weight can be lifted with lower pressures.



In low pressure situations, a pump can be added to boost pressure. If a pump is used, do not use water from the swimming pool to power the lift. Chemicals from the pool water may damage the internal components of the lift. Follow the pump manufacturer's instructions and consult local building codes if you are installing a pump that exceeds 45 PSI. **Never allow the pump's pressure to exceed 70 PSI. Excessive pressure can damage the lift.**

Some customers prefer to install a recessed water connection specifically for the lift. Place water connection so that it doesn't interfere with the user's feet on rotation.

ATTACH SEAT

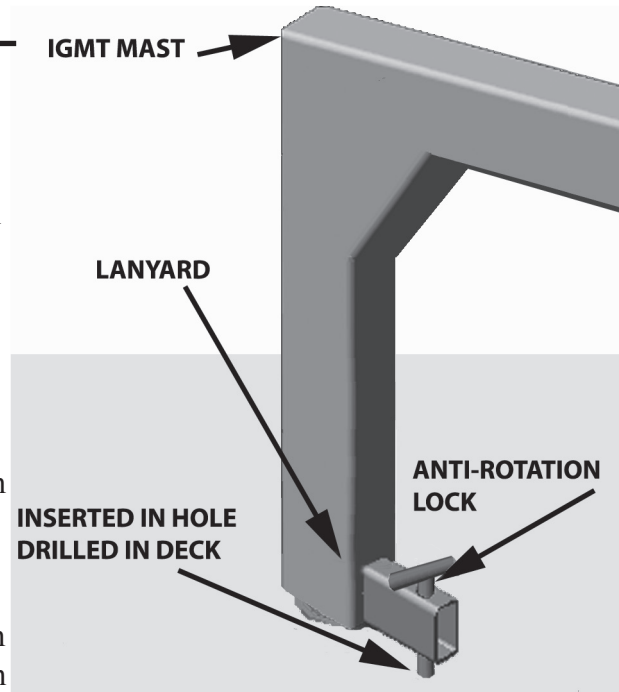
Turn the water on. Operate the control so that the seat tube/piston rod contracts into the cylinder. Check for any leaks. If necessary, tighten valve. Rotate the seat to a position over the deck and attach the seat with provided bolt. Secure with a lock nut and tighten snug.

OPERATION OF THE LIFT

Before operating the lift for the first time each day, turn on the water and run the lift up and completely down two or three times to purge air from the system. Always perform this operation before anyone is seated on the lift. Once all air has been purged from the system, raise the seat to the up position.

Note: Purge the air from the lift every day. Air in the system may cause the seat to drop several inches suddenly. Make sure that the air has been purged from the system before allowing anyone to use the lift.

If your unit has been fitted with the anti-rotation lock option, insert the T-handle lock pin through the 1"x 2" tubing at the deck transfer position.



This will prevent the lift from accidentally rotating while loading or unloading a person from the lift. The only installation required for the locking mechanism is a 3/4" diameter hole aligned with the T-handle lock in the desired stationary position.

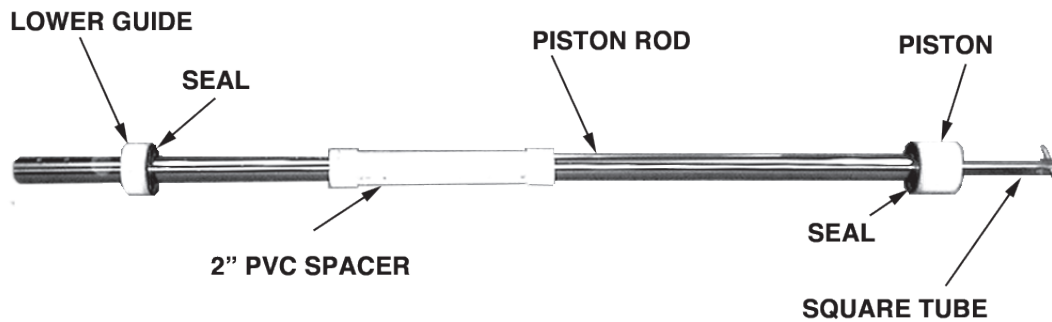
Once the person is seated rotate the seat until it is over the water and lower the seat slowly by opening the valve a little at a time. Speed, both up and down, can be controlled by the amount of valve opening.

When exiting the pool, position the person in the seat. When the occupant is ready to go, turn the valve to engage the water pressure and raise the seat. Rotate the seat over the deck and lock in position to transfer.

SERVICE AND MAINTENANCE

ROUTINE INSPECTION

1. It is recommended that the unit be inspected periodically for damaged parts or excessive wear.
2. Check the screws, nuts, bolts, and hose clamps to be sure all are snug. Clean any parts that show signs of corrosion and replace any worn or damaged parts.
3. If the stainless steel has become discolored from chemical additives in the pool water or from a corrosive atmosphere, it can be cleaned using a soft Scotchbrite® pad and a general purpose cleaner such as Formula 409® or Fantastic®. Never use steel wool pads to clean the lift. After



PISTON ROD ASSEMBLY

cleaning with the pad, apply a good quality car wax to maintain its bright appearance.

4. If the lift is installed on a wooden deck, check the deck for any signs of decay. Replace any worn or damaged decking.

DISASSEMBLY OF LIFT

TOOLS REQUIRED:

- two 3/4" (or adjustable) wrenches for top mounting bolt
- an adjustable wrench for removing valve
- 7/16" wrench for 4 bolts at bottom
- 3/16" Allen wrench for piston's socket cap bolts
- a clean work surface

1. Turn off water and disconnect hose.
2. Remove nut and bolt from the seat bracket and remove seat assembly.
3. Rotate the cylinder over the water and extend the piston rod completely. This will expel most of the water from inside cylinder.
4. Pull the piston rod back into cylinder by hand. Rotate the cylinder back over the deck and let the piston rod rest on the deck. (You can keep the piston rod in the cylinder with a bungee cord if you prefer.)
5. Remove the nut and bolt from the telescoping mounting arm members. Grasp the cylinder with both hands and separate the cylinder from the mounting arm support.
6. Position the cylinder on a CLEAN table, bench, or floor. Study the drawings and parts of the lift to understand the position of the parts. Notice that the seat bracket holes at the bottom of the piston rod are parallel to the 1/2" top mounting bolt at the top of the cylinder. Use an adjustable wrench to unscrew the valve and remove it.

7. Remove the 1/2" top mounting bolt at the top of the cylinder and slide out the square key tube. Put a finger against the white piston to prevent its sliding out with the square key tube. If it does slide out, simply slide it back inside, being careful not to damage the black seal.

8. Remove the four bolts at the bottom of the cylinder. Pull the piston rod assembly out of the bottom of the cylinder. (Be certain that the valve has been removed (Step 6.) before pulling the piston rod assembly out of the cylinder.) Be prepared for some water to spill out as the bottom guide and seal exit. Sometimes the white bottom guide at the bottom of the piston rod and the white piston attached to the top of the piston rod may have swelled slightly (if they have been subject to high water pressure for a long time) and as a result it will be difficult to get them out of the bottom of the cylinder. If this happens, pull the piston rod out as far as it will go, then pull quickly several times, forcing the white spacer tube to act as a hammer on the bottom guide until it exits. Slip the bottom guide and seal off the piston rod, and continue to pull. If the piston gets stuck in the bottom of the cylinder, push the piston rod back into the cylinder and remove it (with the piston, seal, and spacer tube still attached) through the top of the cylinder.

9. Place the piston rod assembly on a CLEAN surface as dirt and debris will adversely affect the lift's performance. Handle the piston rod carefully. Any scratches on the piston rod's surface can cause a leak.

10. If the piston is to be replaced, use a 3/16" Allen wrench to unscrew the 4 socket cap bolts in sides of the piston. It isn't necessary to totally remove the bolts from the piston. Put your fingers inside the top of the piston rod to feel when the bolts disengage from the piston rod. Then remove the piston and seal from the top of the piston rod. If you don't have a 3/16" Allen wrench, you may carefully slide the top seal off the bottom of the piston rod while leaving the piston attached. If piston is not to be replaced, skip to step #

11. Inspect both top and bottom seals for any tears or cuts by bending the seal to stretch the inner and outer lips. The seal should be soft and rubbery, not hard and stiff. Clean the seals with a damp cloth and lightly clean the edges with a Scotchbrite® plastic pad. Do not use steel wool or other abrasives on this or any other part of your lift. If the seals are not damaged, place the top one back on the piston in the same manner it was removed, fitting it into the groove on the underside of the white piston with the open side down.

If the seals are not damaged, place the top one back on the piston in the same manner it was removed, fitting it into the groove on the underside of the white piston with the open side down.

Dirt or debris from the water or hard water deposits lodged between the inner cylinder wall and the seal are the causes of most leaks. A very small particle which may not be noticeable can still cause a significant leak. Often simply cleaning the seal will solve a leak problem.

12. Clean the inside of the cylinder by spraying with an all-purpose cleaner (Formula 409® or Fantastic®). Wrap a soft bath towel around a broom handle and push it through, taking care not to scratch the inside cylinder wall.

DETERMINING THE CAUSE OF A LEAK

Most leaks are caused by some sort of dirt or debris from the water getting into the cylinder and lodging between the seal and the cylinder wall. A very small particle can cause a significant leak. Often nothing is found since very small particles may not be noticeable at all. Thoroughly clean the parts, seals, and interior of the cylinder wall and reassemble the lift. Often the leak disappears after this simple procedure. Some leaks are caused by a seal developing a split, by hard water deposits on the seal of the inside cylinder wall, or simply by age or wear. Replacement seals are always available from Aquatic Access.

CLEANING OF THE INSIDE OF THE CYLINDER

To clean the inside of the cylinder, spray the inside with an all-purpose cleaner (Formula 409® or Fantastic®). Wrap a soft bath towel around a broom handle and push it through the unit, taking care not to scratch the inside of the cylinder wall. Never use any oil or petroleum-based product inside the cylinder, as it will damage the piston and seals.

TO REASSEMBLE THE UNIT

1. Attach piston with four socket cap bolts and 3/16" Allen wrench. Make sure that bolts go through piston rod by feeling the threads protrude inside piston rod with your fingers. Tighten snugly but do not over-tighten or the threads in the plastic piston could strip.
2. Slip top seal (with open side facing down) onto top of piston rod about 5" from top.
3. Slip the top seal into the groove at the bottom of the piston, fitting it into the groove on the underside of the white piston with the open side down.
4. If you have removed the piston rod and piston through the top of the cylinder, it will have to go back in through the top of the cylinder. First, put the white spacer tube on the bottom of the piston rod to help protect the cylinder wall from being scratched by the

piston rod while it is being inserted. While holding horizontally, insert the bottom of the piston rod through the top of the cylinder, taking special care to gently insert the outer lip of the top seal so that it will not be cut or torn on the top of the piston rod. Insert so that the white piston is at least 6" from the top of the cylinder. It is easier to seat the seal when the inside surface of the cylinder is damp with either Formula 409® or water. Never use any oil or petroleum-based product inside the cylinder, as it will damage the piston and seals.

5. Place the bottom seal in the groove of the bottom guide.
6. Slide the bottom guide with seal onto the bottom of the piston rod with the open side of the seal facing up.
7. Slide the seal and guide into the cylinder, being careful to line up the four holes in the guide with the holes at the bottom of the cylinder. If you push the guide too far into the cylinder, pull out the piston rod until the spacer tube inside forces the guide back out the bottom until the holes line up again.
8. Replace the four bolts through the bottom of the cylinder into the bottom guide. Tighten bolts evenly and snugly, but do not over-tighten to avoid stripping threads.
9. Once the piston rod assembly is installed, rotate it so the seat bracket holes at the bottom of the piston are parallel to the 1/2" top mounting bolt holes at the top of the cylinder.
10. Slide the square key tube into the piston through the top of the cylinder so that the holes at the top end of the square key tube align with the top mounting bolt holes.
11. Insert the top mounting bolt through the cylinder wall, the square key tube holes, and through the other cylinder wall. Make certain that the seat bracket holes at the bottom of the cylinder are still parallel to the top mounting bolt.



BEFORE USING THE LIFT AGAIN

Operate the lift to about one-fourth of its travel, and then lower completely. Repeat until a steady stream of water flows from the discharge hose, signaling that all air has been purged from the system. Air trapped in the cylinder will cause the motion of the seat's up and down travel to jerk and sometimes will cause a sudden drop of the last few inches in the seat's downward travel. Whenever you turn off the water supply, an air pocket will form inside the hose and you will need to bleed the air out of the system again after the water supply is turned on. In a situation where the lift is used frequently, you may wish to leave the water supply on all of the time during normal use hours to eliminate the need to purge the system of air each time you use the

lift. After normal use hours, turn off the water and lower the lift slightly to relieve the pressure on the piston and seals.

If you have any questions or concerns regarding your IGMT Pool Lift, please call Aquatic Access Inc. at (800) 325.5438 (LIFT) or e-mail us at CustomerService@AquaticAccess.com

Remember to send in your warranty card to Aquatic Access, 1921 Production Drive, Louisville, KY 40299-2110. If it becomes necessary to replace any part in your unit, we need to know its serial number and date of purchase. Take a moment to note this information below should you ever need to call.

Aquatic Access Model IGMT Serial Number _____

Date of Purchase _____ **Purchased From** _____

NOTES:

SAFETY PROCEDURES

Your IGMT model swimming pool lift is not a toy, but a tool that enables a physically challenged individual to access water activities. It is designed with safety as a primary concern, but exercise prudence when using the lift. With proper care and usage, your IGMT swimming pool lift will serve many years. Here are a few tips for safe usage of your lift.

Never allow more than one person on the lift at a time.

Keep fingers, towels and loose clothing away from moving parts.

Do not hang towels or robes on lift at any time.

Do not allow people to climb on or hang from lift.

Do not allow playing or rough-housing on or around the lift.

Do not jump or dive from lift.

Turn water supply OFF and secure lift with push pin when the lift is to be left unused for eight hours or longer.

Always run the seat up and down through several cycles after turning the water supply on. This bleeds air out of the cylinder which could cause unexpected movement.

Be certain swimmer is settled in the seat before operating lift.

Always place swimmer's feet on the footrest.

Never allow seat occupant's mouth to submerge beneath the water.

Do not exceed weight and pressure limits.

Do not use lift during an electrical storm or high wind.

Always drain water from cylinder before exposing lift to temperatures below freezing.

Never use any sort of oil or petroleum-based product on the inside of the lift. It will damage the piston.

SAFETY TIPS : Be sure to turn off the water each night, and to bleed off the air again each time the water is turned on again.

Even when the seat occupant operates the lift, we agree with the American Red Cross recommendation that everyone should "always swim with a buddy."

SERIAL NUMBER

MODEL NUMBER

WEIGHT CAPACITY

This illustration is of a generic Aquatic Access label and is here only to provide location of pertinent numbers found on every Aquatic Access label.

Please refer to the label attached to your lift for important information and instructions for your Aquatic Access lift.

You will find a label similar in style to this one on every Aquatic Access lift cylinder.

Please do not remove that label from your lift. You will need the serial number should you ever require replacement parts for your lift.

The label on the lift cylinder also contains instructions for use and safety procedures.

Rev. 10/6/10

AQUATIC ACCESS

POOL LIFT MODEL

Serial #

US Patent Number

MAXIMUM WEIGHT CAPACITY

VARIABLE AT 55/65 PSI/ 3.8-4.5 BAR

UP DOWN

STOP

WATER PRESSURE NOT TO EXCEED 70 PSI/4.8 BAR OR DAMAGE TO LIFT WILL RESULT. USE A REDUCER BETWEEN WATER SOURCE AND LIFT IF NECESSARY.

BEFORE USE BY A SWIMMER

1. In seat-down position, mount lift into deck socket.
2. Turn control knob to down position.
3. Connect supply hose and turn on water.
4. With water supply, operate Pool Lift control knob to move seat several strokes up and completely down. If the seat does not move in this motion, repeat this step until the seat is inside must be removed for safe operation.

INSTRUCTIONS FOR USE

1. Turn control knob to UP position, which will automatically turn the seat over down.
2. Insert seat into the seat holder to prevent the seat from falling out.
3. Seat the swimmer, place feet on footrest. Swimmer must be on footrest or injury may result.
4. Remove swimmer from the seat. Turn the seat to lower the swimmer into the water. Seat turns automatically at top of travel.
5. Reverse the seat to UP position.

NOTE: Speed of the seat is controlled by turning the control knob to UP or DOWN position. The seat may move too fast or slow. Experiment to find the best settings for your water pressure.

When lift is in UP position for 8 hours or longer, turn off water and seat. Do not leave seat in raised position. Insert pump to hold seat. Then turn off the water. Turn control knob to the DOWN position. When ready to use lift again, turn on water and pump. Do not use lift if a warning is indicated above (#4 in Before Use by a Swimmer).

TO REMOVE LIFT

1. Remove seat and lower to footrest position.
2. Turn off water and disconnect supply hose.
3. Lift out seat and store on water.

DO NOT STORE LIFT IN BELOW-FREEZE TEMPERATURES.

IMPORTANT SAFETY WARNINGS

1. Never allow more than one person on the lift at a time.
2. Keep fingers, toes, clothing, towels, etc. away from moving parts.
3. Do not hang towels or clothes on the lift at any time.
4. Do not allow people to climb on or hang from the lift.
5. Do not allow children to play on or around the lift.
6. Do not use the lift for anything other than its intended purpose.
7. Turn water supply OFF and disconnect hose with push pin when the lift is not to be used for eight hours or longer.
8. Always bleed air out of the cylinder through several cycles of raising and lowering the seat. This bleeds air out of the cylinder which could cause unexpected movement.
9. Be certain the seat is seated in the seat before operating the lift.
10. Always use swimmer's feet on footrest.
11. Never allow the seat to be submerged beneath the water.
12. Do not use the lift if the seat is damaged or if the pressure limits.
13. Do not use the lift during a storm or high wind.
14. Always use the lift cylinder before exposing the lift to water.
15. Never use the lift for anything other than its intended purpose. Improper use may cause damage to the lift.

REV. 10/6/10

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AquaticAccess.com

Sample Label to Indicate Location of Numbers Only

TROUBLESHOOTING

Symptom	Cause	Remedy
Seat bounces on descent.	Air in cylinder	Purge air out by running the lift up and down several times. See operating label.
Air in cylinder every day.	Air entering the hose of cylinder if seat is left in the up position and the water is shut off.	Purge air out by running the lift up and down two or three times. See operating label.
Lift rises slower than normal or lacks sufficient power to lift properly.	Low water pressure, heavier than usual person on lift, leaking hose, dirt particles in valve, lift kept under high pressure for extended periods of time.	Fluctuations in city water pressure are not unusual, replace defective hose, clean valve, turn off the water and lower lift slightly each night.
Water squirts out of top of cylinder.	Large amounts of water are getting past the seal.	Often this corrects itself. If not, clean or replace the seal.
White, grey or brown chalky deposits on outside surfaces of the lift.	High pH, high alkalinity, high calcium content (hard) water.	Clean unit with soft cloth or Scotchbrite® pad, apply car wax to protect finish.
Corrosion of metal parts.	Low pH, low alkalinity, high acidity, low calcium content (soft) water.	Clean unit with soft cloth or Scotchbrite® pad, apply car wax to protect finish.
Water leakage from top of valve.	Seal around valve stem is defective or stem is loose.	Tighten valve stem mounting screw or replace valve.
Electrolysis.	Improper grounding of unit.	Add a ground to the unit.
Chair doesn't come up or go down when valve handle is turned.	Broken valve stem which allows the handle to spin without making contact, defective valve	Replace valve stem or valve.

ADDENDUM: Technical Specifications Aquatic Access Pool Lift IGMT

Lifting capacity	300 lbs. @66-65 PSI/ 136 KG@3.8-4.5 BAR
Operation	Standard city water pressure will generally provide plenty of pressure for normal operation. Inadequate pressure can sometimes be boosted with certain auxiliary pumps that pump 3-5 US gallons per minute at 40 PSI (2.76 BAR) to 70 PSI (4.8 BAR) maximum pressure.
Rotation	Manual 360°
Materials	304L and 316L stainless steel, brass, UHMW plastic, rubber
Overall Size	Height 84" (213 cm)
Range of motion	Lift provides 42" (107 cm) vertical travel
Portability	Lift can be removed from socket and stored.
Warranty	Aquatic Access provides a 6-year limited warranty on all structural components of the Pool Lift IGMT, and a 2-year limited warranty on the valve, and all plastic and rubber components.

IGMT Instructions Revised 9/16/13