

Hydraulic Boat Lift

Owner's Manual

Assembly and Trouble Shooting Guide



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W A R N I N G

(READ THIS SECTION FIRST)

HYDRAULIC LIFT SAFETY INSTRUCTIONS

1. Read all instructions and instruct all users about the proper operating procedures.
2. Make sure all nuts and bolts are tightened properly before use.
3. Grease pins that have zerks yearly for enhanced performance.
4. Lift must be level with water line to operate properly.
5. Do not allow anyone to swim or play near the lift. Keep everyone clear during operation of the lift.
6. Hydraulic lifts raise and lower quickly. THINK before pushing the power switch and WATCH what you are doing!
7. Stop lowering the bunk once the boat is floating.
8. Weight of the boat must be positioned on the lift correctly or damage may occur to lift. See Page 10 for proper positioning of boat.
9. Do not exceed the maximum lift capacity. Exceeding lift capacity may lead to equipment failure and/or personal injury.
10. If you do not have a canopy or boat cover, rain water in boat could cause the lift to become overloaded resulting in failure. Remove drain plug from boat when unattended.
11. Inspect cables periodically for fraying. Replace cable if excessively frayed.
12. Inspect pulleys to ensure that they turn freely. Replace excessively worn pulleys.
13. Completely lower the boat lift when any maintenance is done to lift.
14. Do not work in or on your boat when raised up in the lift.
15. To prevent damage to lift canopy and/or boat while lifting, determine a maximum height stopping point and mark it. See Page 9 on how to mark the stopping point.
16. Always wear eye protection and gloves to protect yourself when connecting and disconnecting hoses to prevent high pressure fluid spray from penetrating your eyes and skin.
17. Do not disconnect hoses from pump while the system is under load. The pressure in the hydraulic hoses will make it difficult to connect the hoses again.
18. Do not disconnect hoses from hydraulic cylinder while the system is under load. This will cause the boat to fall immediately and may cause damage to the boat and lift.
19. Never attempt to grab cable with your hand while operating lift. Personal injury may occur.
20. Keep hose couplers free of dirt, dust and other debris to prevent contamination of the hydraulic pump.
21. When lift is not used for an extended period of time, install the lock pin into the correct hole on the hydraulic beam assembly. Hydraulic fluid from the cylinder may flow slowly back into pump while you are gone. The lock pin will stop the lift from lowering. See Page 9 for the installation and removal of this lock pin.
22. Watches, jewelry and other metal objects that come in contact with electrical system will spark and cause significant injury. Always remove all jewelry and shut off the system switch before working inside the hydraulic box. (Turn the Green Knob)
23. System shut-off switch should be turned off when lift is not in use. (Turn the Green Knob) This will disengage power to the pump and prevent accidental use of the remote by children or other users. See Page 7 for the proper use of the system shut-off switch.

Hydraulic lifts raise and lower quickly.

THINK before pushing the power switch and WATCH what you are doing!

Thank you for your investment you have made in Pier Pleasure. We appreciate the confidence you have put in our product and us. Please read the instructions thoroughly. If you have any questions, please contact your dealer. May your Pier Pleasure hydraulic boat lift bring you many years of enjoyment. This manual is a supplement to the main Pier Pleasure Owner's Manual that shows assembly and operation of the vertical lift. Please contact your dealer if need additional manuals or assistance.

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Read Warnings First!

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Hydraulic Lift Warranties

WARNING

- System shut-off switch should be turned off when lift is not in use. This will disengage power to the pump and prevent accidental use of the remote by a child or other users. (Turn the Green Knob.)
- Watches, jewelry, and other metal objects that come in contact with electrical system will spark and cause serious injury. Always remove all jewelry and shut off the system switch before working inside the hydraulic box. (Turn the Green Knob.)
- Hydraulic lifts raise and lower quickly. **THINK** before pushing the power switch or remote and **WATCH** what you are doing!
- **DO NOT** overfill hydraulic fluid tank. Overfilling the fluid in the system will cause fluid to spill out into the box as the lift raises the boat. When the lift is fully raised, the fluid should not be higher than 1" from the top of the tank.
 - Tank Level:
 - Highest level when lift is completely raised.
 - Lowest level when lift is completely lowered.
- While hoses are disconnected, keep hose couplers free from dirt, dust and other debris to prevent contamination of the pump.
- Always wear safety glasses when connecting and disconnecting hydraulic hoses.

WARNING

HYDRAULIC LIFT SAFETY INSTRUCTIONS

1. Read all instructions and inform all users about the proper operating procedures.
2. Make sure all nuts and bolts are tightened properly before use.
3. Grease pins with zerks annually for enhanced life.
4. Lift must be level with water line to operate properly.
5. **DO NOT** allow anyone to swim or play near the lift. Keep everyone clear of the lift during operation on the lift.
6. Stop lowering the bunk once the boat is floating.
7. Weight of the boat must be positioned on the lift correctly or damage may occur to the lift. See Owner's Manual for proper positioning of boat.
8. **DO NOT** exceed the maximum lift capacity. Exceeding lift capacity may lead to equipment failure and/or personal injury.
9. If you do not have a lift canopy or boat cover, rain water in the boat could cause the lift to become overloaded resulting in failure. Remove drain plug from boat when unattended.
10. Inspect cables periodically for fraying. Replace cable if excessively frayed.
11. Inspect pulleys to ensure that they turn freely. Replace excessively worn pulleys.
12. Completely lower the boat lift when any maintenance is done to lift.
13. **DO NOT** work in or on your boat when raised up in the lift.
14. Hydraulic lifts raise and lower quickly. **THINK** before pushing the power switch and **WATCH** what you are doing!
15. To prevent damage to lift canopy and/or boat while lifting, determine a maximum height and mark stopping point on the lift upright. See Owner's Manual on how to mark the stopping point.
16. **DO NOT** disconnect hoses from pump while the system is under load. The pressure trapped in the hydraulic hoses will make it difficult to connect the hoses again.
17. **DO NOT** disconnect hoses from hydraulic cylinder while the system is under load. This will cause the boat to fall immediately and may cause damage to the boat and lift.
18. Always wear safety glasses when connecting and disconnecting hydraulic hoses.
19. Never grab the lift cable with your hand while operating lift. Personal injury may occur.
20. Keep hose couplers free from dirt, dust and other debris to prevent contamination of the pump.
21. Hydraulic fluid from the cylinder may flow slowly back into the pump over an extended period of non-usage. This may cause the unit to lower slowly on its own. The lock pin will prevent the lift from lowering. Install the lock pin in the correct hole on the hydraulic beam assembly. See Owner's Manual for the installation and removal of lock pin.
22. System shut-off switch should be turned off when lift is not in use. This will disengage power to the pump and prevent accidental use of the remote by a child or other users. See Owner's Manual for the proper use of the system shut-off switch.

Hydraulic Beam Assembly Installation

The hydraulic beam assembly is attached to the canopy arms of the lift with use of 3/8" bolts and brass nuts. If you do not have a canopy, short inner legs are available to attach the beam assembly. The hydraulic beam assembly is very heavy and will require additional help to lift into place. Place beam into position and install canopy arms or short inner legs. Tighten all bolts for canopy arms and hydraulic beam.

See Additional photos on [page 5](#).



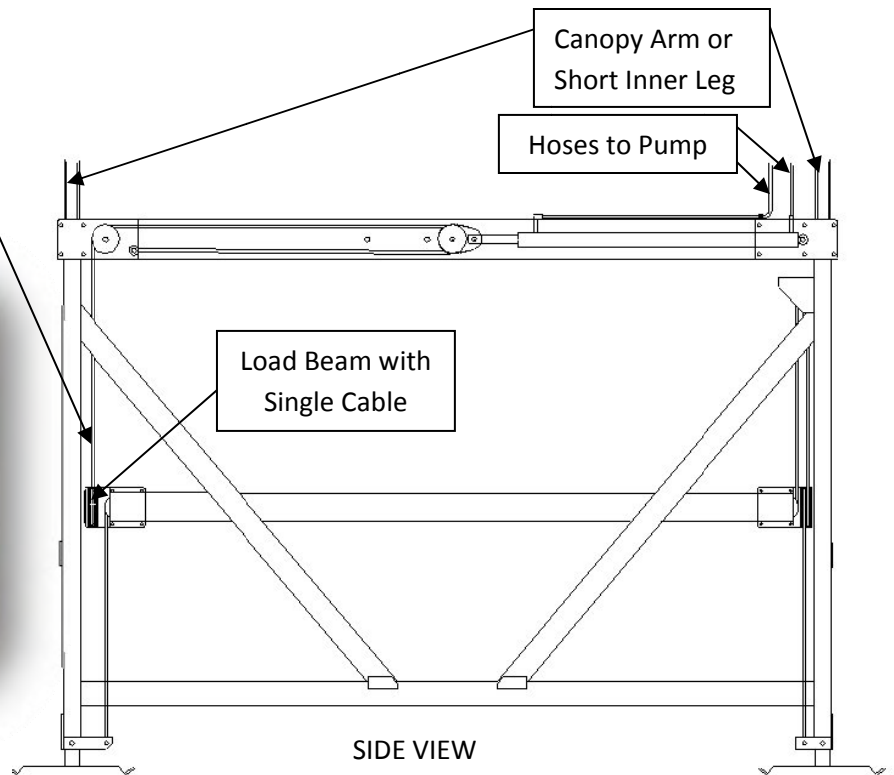
Cable Installation

The cable from the hydraulic beam assembly is installed through the bunk beam. There are two sheaves located in the bunk beam that will have to be removed and reinstalled into the beam. If you are adding this hydraulic system to an existing boat lift with a winch cable, that cable will also have to be removed. Slide the cable from the hydraulic beam through the beam re-install the sheaves. The threaded rod on the end of the cable is placed through the hole in the flat bar on the opposite side. Place two brass nuts on the threads to properly secure the cable.

Cable installed through the bunk beam and back up to the other side.



Cable installed through load beam and secured into flat on the upright opposite of the hydraulic beam. Use 2 brass nuts to secure the cable.

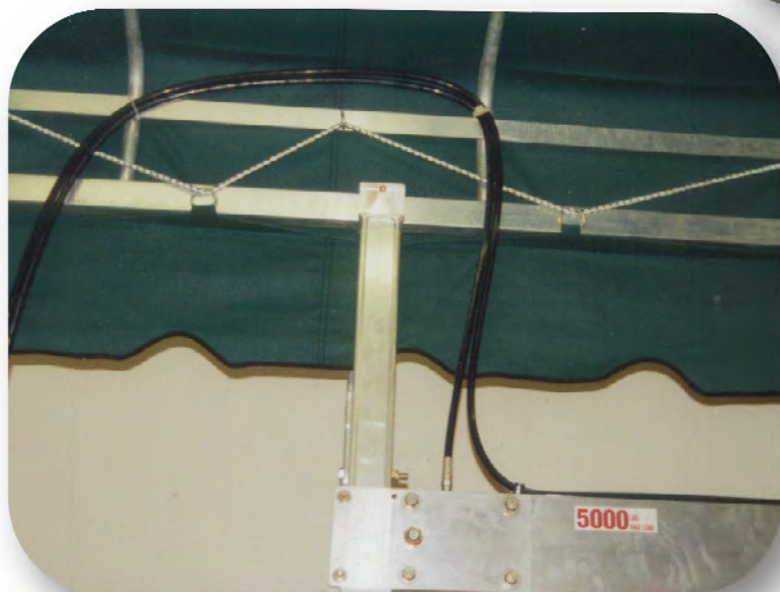




Coupling Hoses to Pump

The hoses from the hydraulic beam assembly are connected to pump in the box. Slide hoses through holes located on the side of the box. Before connecting the hoses, clean dirt and debris from connections. Debris in the pump will cause the pump to fail. To attach the hoses, align matching connections, turn and firmly tighten with adjustable wrench. If the connections are not tight, the pump will not operate properly.

Always wear eye protection and heavy gloves when connecting and disconnecting hydraulic hoses to prevent high pressure fluid spray from penetrating the skin.



Securing Hoses and Cords

The hydraulic hoses must be secured away from the moving parts of the lift. A simple way to secure the hoses is with plastic cable ties. Using the ties, the hoses can be attached to the canopy frame.

Battery Hook-Up – 12 Volt System (DC)

The battery is **not** supplied with the 12 volt hydraulic system. A 12 volt deep-cycle marine battery is recommended. The battery must have a good charge for the hydraulic system to work properly. Start with charging the battery completely.

Place the battery in the open end of the black box and attach the battery cables. Tighten battery cable for a good connection.

RED IS POSITIVE (+) **BLACK** IS NEGATIVE (-)



System Shut-Off Switch - 12 Volt System (DC)

The 12 volt hydraulic system is equipped with a shut-off switch. The remote could operate your lift from a great distance. To prevent accidental usage by children who find the remote, use the system shut-off switch to disable the system when not in use. The switch has a green knob and is connected to the battery. Tighten knob down clockwise to operate the lift. Loosen knob up counterclockwise to shut-off the system.



Power - 110 Volt System (AC)

The 110 volt hydraulic system is equipped with a wired power cord. Using a heavy duty extension cord, connect the hydraulic system to 110 volt GFI outlet. The extension cord should be at least a 12 gauge cord.



Operating Lift with the Remote & Toggle Switch - 12 Volt System (DC)

The 12 volt hydraulic lift system is standard with three button remotes and a toggle switch. The toggle switch is located inside the hydraulic box attached to the cover. Either the remote or the toggle switch can be used to raise and lower the lift. Use **caution** when you activate the power. If the remote is not responding properly, use the toggle switch to raise the lift. The remote will not respond properly if the 12 volt battery is low, the signal between the remote and receiver is weak or the remote fob battery is dead. Additional remotes are available through your dealer. See [page 11](#) for 12 volt system remote programming.



Remote Key Fobs



Toggle Switch

Operating Lift with the Remote & Control Pad - 110 Volt System (AC)

The 110 volt hydraulic lift system is standard with three button remotes and a control pad. The control pad is located inside the hydraulic box. Either the remote or the control pad can be used to raise and lower the lift. Use **caution** when you activate the power. If the remote is not responding properly, use the control pad to raise the lift. The remote will not respond properly if the signal between the remote and receiver is weak or the remote fob battery is dead. Additional remotes are available through your dealer. See [page 12](#) for operation instructions and remote programming.

Control Pad

110 volt pump : Working Amperage is 10-12 amps. It is possible that the 110 volt system can lock out when it is completely lowered. This would require 25 amps to start pump to raise the boat lift. To prevent this from happening, do not continue to hold down button once the lift is completely lowered.

See [page 12](#) for 110 volt Control Pad operation instructions and remote programming.



Marking Stop Point

The hydraulic lift rises very quickly. Damage to your boat and lift canopy could occur. Raise the lift in small increments the first time you raise the boat up under the canopy. Once you have determined the maximum height, mark the stop point on the lift upright post. The stop point should be marked where you can see it from the boat and while standing on the dock. This photo shows the use of black tape.

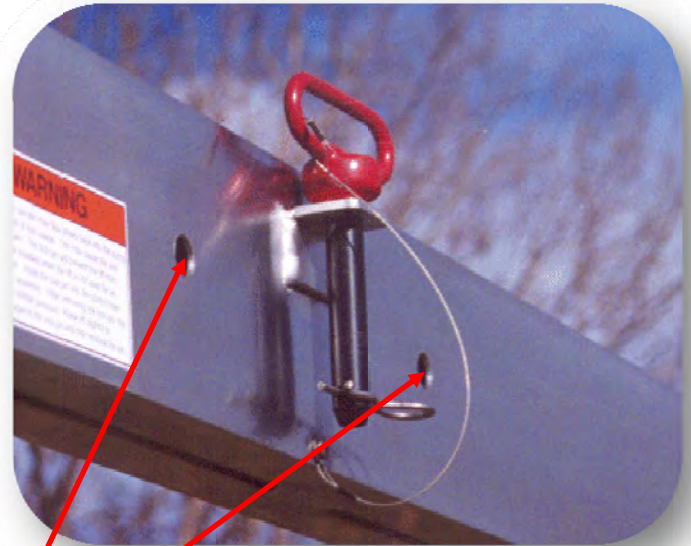


⚠ WARNING

Hydraulic fluid from the cylinder may flow slowly back into the pump over an extended period of non-usage. This may cause the unit to lower slowly on its own. The lock pin will prevent the lift from lowering and should be installed when the lift is not used for an extended period of time. Install the lock pin into the correct hole on the hydraulic beam assembly. When removing the lock pin, the pin may be tight from cylinder pressure. Raise lift slightly to remove the pressure against the lock pin and then remove the pin.

Use of Lock Pin When Not In Use

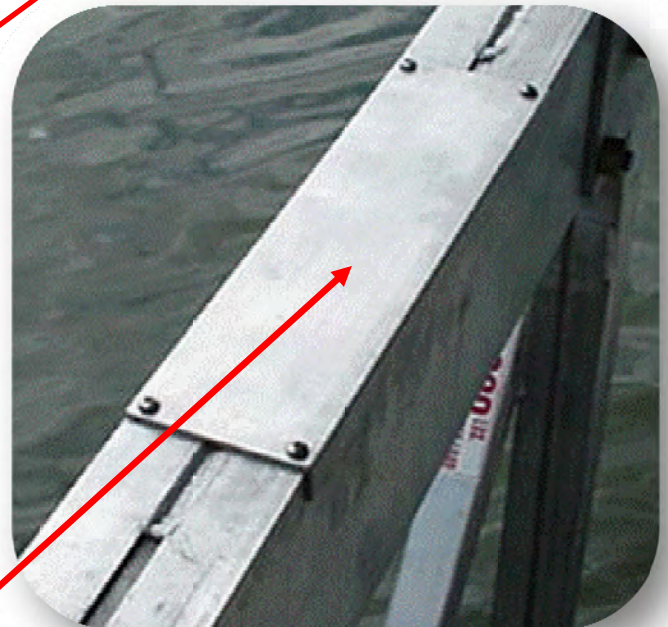
When lift is not used for an extended period of time, install the lock pin into the available hole on the hydraulic beam assembly. Hydraulic fluid from the cylinder may flow slowly back into the fluid tank while you are gone. The lock pin will stop the lift from lowering. If the lift has lowered against the pin, you will have to raise the lift slightly to remove the pin.



Fit Lock Pin into
Either Location

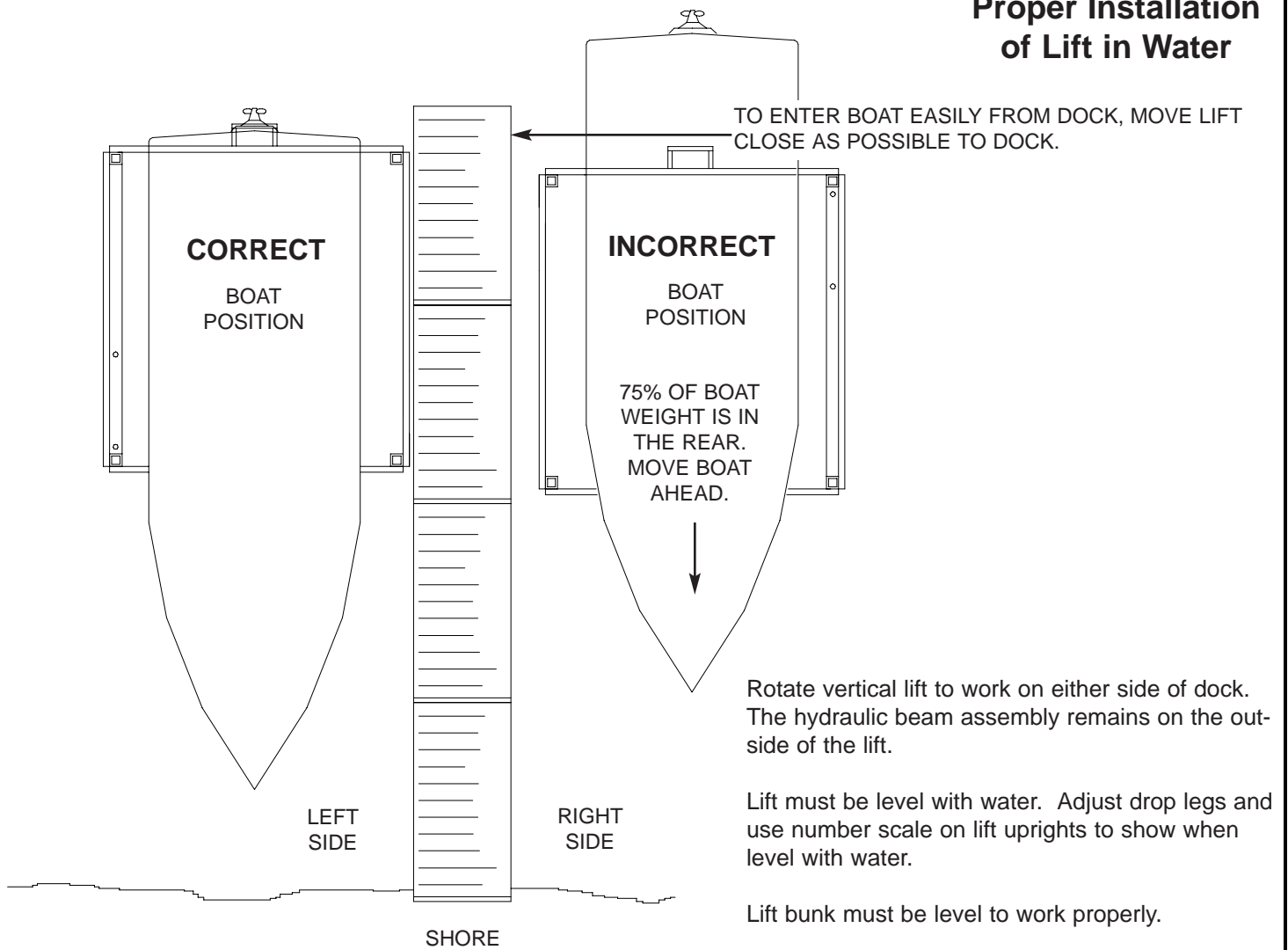
Access Hole

The access hole to the hydraulic beam is protected by a safety cover. Never use the hydraulic system without having this cover properly installed. This slotted hole in the hydraulic beam allows for service to the hydraulic cylinder, cable, sheaves, and fasteners. Contact your dealer if you are experiencing problems with the hydraulic beam.



Safety Cover

Proper Installation of Lift in Water

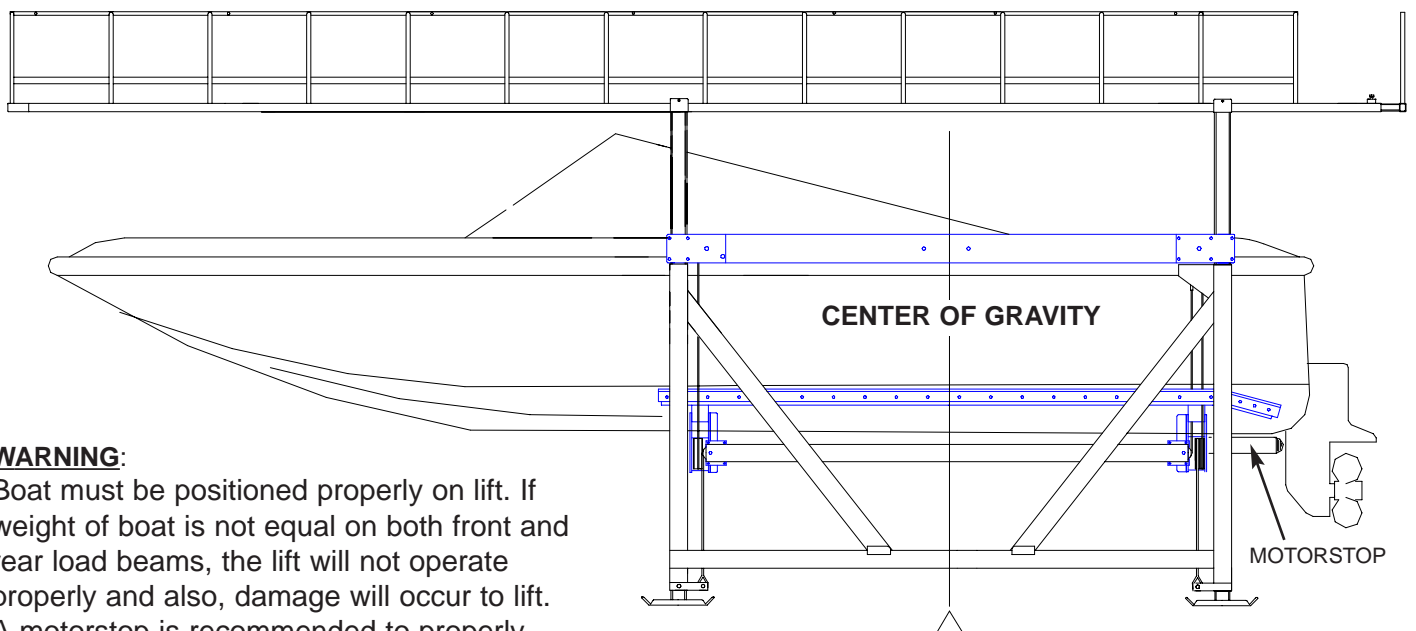


Rotate vertical lift to work on either side of dock. The hydraulic beam assembly remains on the outside of the lift.

Lift must be level with water. Adjust drop legs and use number scale on lift uprights to show when level with water.

Lift bunk must be level to work properly.

Proper Positioning of Boat on Lift



WARNING:

Boat must be positioned properly on lift. If weight of boat is not equal on both front and rear load beams, the lift will not operate properly and also, damage will occur to lift. A motorstop is recommended to properly position boat on lift.

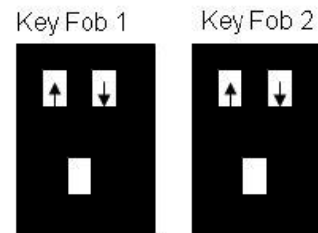
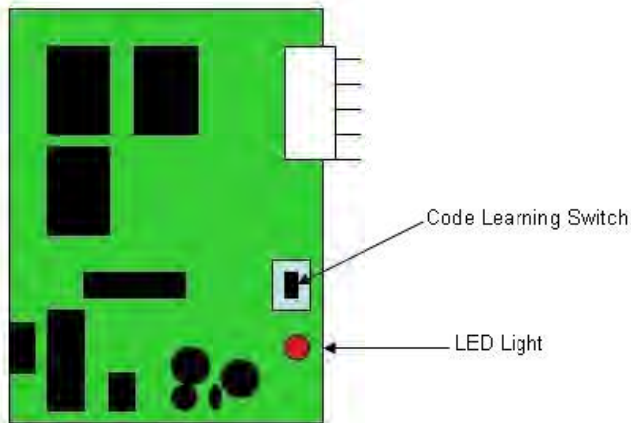
Programming Additional Remote – 12 Volt System (DC)

You may purchase additional hydraulic remote fobs from the dealer. You will need to program the remote to work with your system. Locate the black receiver box attached to cover of the black box. Remove the 4 small screws and remove the cover. Follow these instructions for new remote fobs or existing remote fobs:

PROGRAMMING DC REMOTES

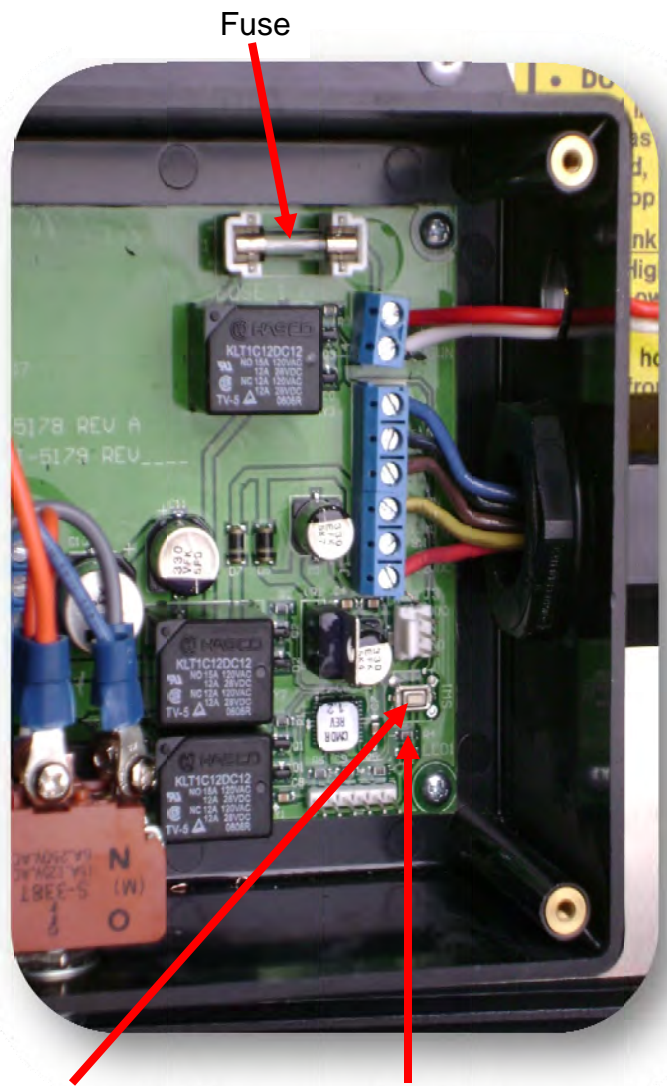
3 CHANNEL REMOTE CONTROLLER

2006 12 VDC & 24 VDC SYSTEMS ONLY



Code Learning Mode:

1. Depress Code Learning Switch till LED light turns on.
2. After LED Light is on press and release up button on Key Fob 1.
3. LED Light will flash once and then it will turn back on.
4. After LED turns back on press and release up button on Key Fob 2.
5. Then The LED Light will flash twice and then turn back on.
6. Finally wait 5 seconds until LED light flashes repeatedly and turns off.
7. Remotes are then programmed.



Operation Instructions and Programming Additional Remote – 110 Volt System (AC)

Normal Operation

To unlock the keypad, enter “1”, “2”, “3”, “4” the factory default 4-digit code. On the first number pressed the Green LED lights up to indicate that the keypad is in the code entry mode. When the fourth digit of the programmed code is entered, the Red LED lights to indicate that the keypad is unlocked. You can operate your hydraulic system using the up and down keys on the pad. A timeout is started after code is entered. The keypad will auto-lock after 5 minutes of being dormant. Pressing the Code key while the keypad is active will cancel the active mode and lock the keypad.

Changing the Factory Code

Enter “1”, “2”, “3”, “4” the factory default 4-digit code. Press and hold the Code key button down and then at the same time, press and release the “2” button. Once the Red LED starts blinking, and then enter your own custom 4 digit code. The LED’s will automatically go out and your keypad code has been accepted.

Programming Additional Remotes

You may purchase additional hydraulic remote fobs from the dealer. You will need to program the remote to work with your system. Locate the control pad inside the black box. Follow these instructions for new remote fobs or existing remote fobs. Press and hold the Code key button down, then press the “1” key and release both. The Red LED on the touchpad will activate for 5 seconds. Press the “UP” button on the key fob. The Red LED light will go out once the signal is received from the fob remote control. Do the same for additional key fobs.



110 volt pump : Working Amperage is 10-12 amps. It is possible that the 110 volt system can lock out when it is completely lowered. This would require 25 amps to start pump to raise the boat lift. To prevent this from happening, **do not continue to hold the “down” button once the lift is completely lowered.**

Hydraulic Bypass – 12 Volt System (DC) & 110 Volt System (AC)

Both hydraulic systems are equipped with a hydraulic bypass. This bypass will allow you to lower the unit when there is a loss of power. You should only use this in emergency situation. Removal of hydraulic fluid will be required to prevent overflowing the tank. Follow all warnings.

The bypass can also be used to remove pressure built up in the system. Pulling up the handle in one second increments will remove any built up pressure in the system.

HYDRAULIC BYPASS EMERGENCY USE ONLY

- Before pulling this knob, you will need to temporarily remove fluid from the tank.
- **Tank will overflow if fluid is not removed.** Pull knob up to lower boat in an emergency only.
- Pulling this knob will fill fluid into tank and lower boat lift.
- When adding the removed fluid back into the tank, cycle lift up and down while adding fluid. It may take a couple cycles of raising and lowering the lift to remove all the air from the system.
- When the boat lift is completely lowered, there should 1" to 1-1/2" of fluid in the tank.
- If you have questions, please contact your dealer or call Pier Pleasure at 1-800-658-7010.

Bypass Knob



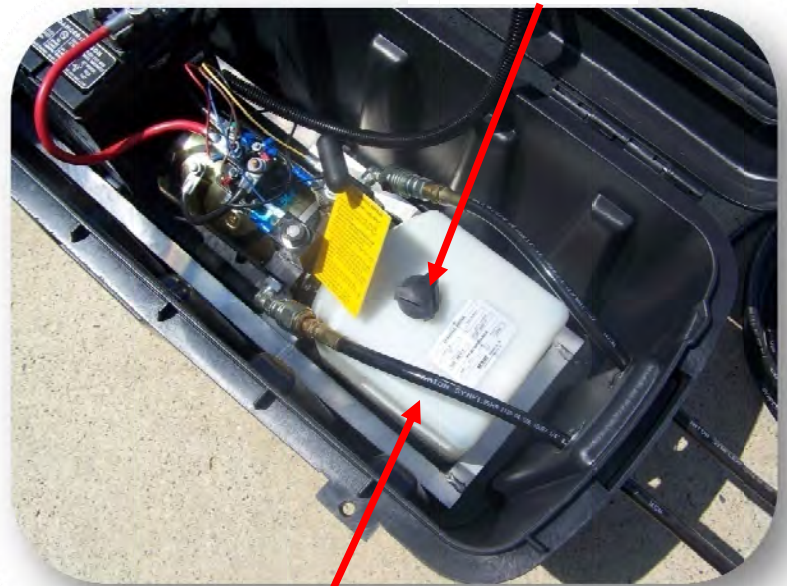
Adding Hydraulic Fluid

When boat lift is completely lowered, there should be 1" to 1-1/2" of fluid in the tank. If there is less, additional fluid can be added to reach the recommended level in the tank.

The tank will be at its maximum level when the lift is completely raised. Do not overfill the tank or the excess fluid will spill out of the tank through the cap.

Use biodegradable hydraulic fluid. Contact your dealer for assistance in obtaining the correct hydraulic fluid. Factory hydraulic fluid is Mobil EAL-224.

Fill Hole Cap

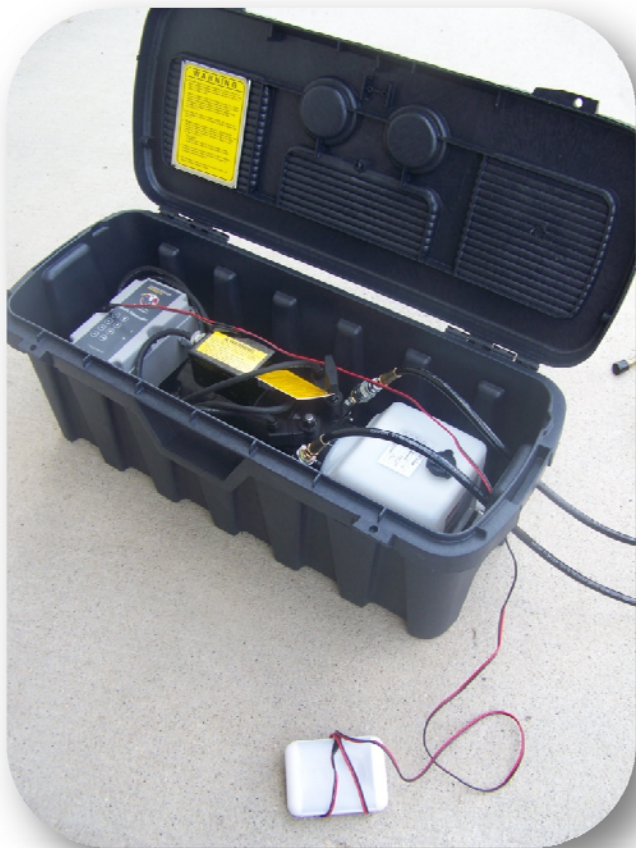
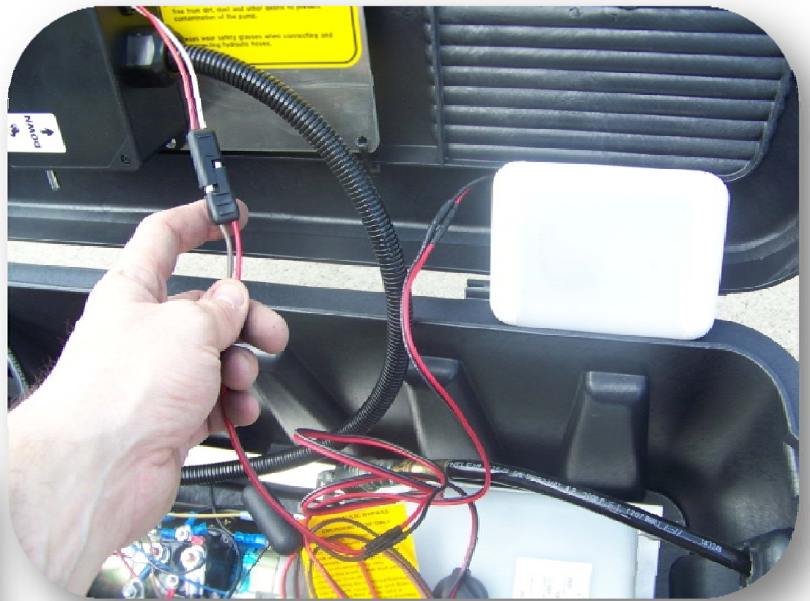


Fluid Tank

Canopy Light – 12 Volt System (DC) & 110 Volt System (AC)

Both hydraulic systems are equipped with a 12 volt canopy light. 110 volt system converts the power to 12 volt for the light. The light plugs into the cord on the control pad (110 volt) or receiver box (12 volt). Install the light cord through a hole in hydraulic box and slide the connections firmly together. Using plastic cable ties, attach the light to the canopy frame in the desired location. The light can be operated with both systems using the remotes. The 110 volt hydraulic can operate the light using the control pad.

If the bulb needs to be replaced, replace it with a 12 volt DC bulb #912. Do not use a #921 bulb since this bulb is over 1 amp. Using the wrong bulb will result in damage to the control board.



Storage for the Off-Season

The black hydraulic pump box is designed to be disconnected for storage during the off-season. There will be pressure in hydraulic hoses when the lift is in the raised position. Lower the lift completely to remove the pressure. Disconnect and roll the hoses. Do not allow the hoses to touch the ground or dirt will stick to connectors. Carefully move the hydraulic box to the storage area.

Do not disconnect hoses from pump while the system is under load. The pressure in the hydraulic hoses will make it difficult to connect the hoses again.

**The weight in the box is not equally distributed.
Lift with care!**



Solar Panel and Solar Panel Rod – 12 Volt (DC) (Optional)

The solar panel is available to charge the battery used 12 volt hydraulic system. The solar panel is attached to the solar panel rod to the boat lift.

The solar panel will perform best if placed at 45 degree angle and facing direct south. If the charger does not keep the battery charged, adjust the angle and direction for maximum exposure to sunlight. The rod will allow the panel to be rotated any direction.



Hydraulic Box Rack (Optional)

The hydraulic box rack is available for storage of the hydraulic system off the dock. The rack is available to mount to the Pier Pleasure dock system or any post style dock.



Trouble Shooting

12v 110v
DC AC

Trouble	12v DC	110v AC	Remedy	Page
Push remote button and nothing happens.	X		Check system shut-off switch. If switch is turned off, the system will not operate.	7
	X		12 volt battery low. Charge battery with battery charger.	7
	X		Check battery cable connections.	7
	X	X	If remote fob blue light does not flash - replace batteries	18
	X		Reprogram remote fobs - 12 Volt (DC)	11
		X	Reprogram remote fobs - 110 Volt (AC)	12
Push remote button and lift bounces while raising lift.	X		Use toggle switch inside box to raise lift. If toggle switch works properly, but remote causes the lift to bounce, the 12 volt battery is low. Charge battery.	7
Remote will not work from a distance.	X		Battery low. Charge battery with battery charger.	7
	X	X	Signal between remote and antenna may be weak. Move closer to hydraulic box.	8
Hydraulic fluid tank seems low.	X	X	When boat lift is completely lowered, there should be 1" to 1-1/2" of fluid in the tank. If there is less, additional fluid can be added to reach the recommended level in the tank.	13
Push button on remotes, pump runs, but will not move lift either up or down.	X	X	Hose couplers not completely tighten. Use adjustable wrench to tighten couplers.	6
Hydraulic pump squeals and will not raise the boat completely. (Cylinder is not fully extended)	X	X	Pressure relief valve can be adjusted up. Factory Setting : 2700 psi Turning up pressure relief too high can cause damage to the pump. Make only 1/4 turn and test.	21
When running the pump, the lift only goes <u>down</u> .	X	X	Valve / Coil without Bypass is not shifting.	
	X	X	Hose couplers not completely tighten. Use adjustable wrench to tighten couplers.	6
	X	X	Pull up Bypass for 1 second intervals. (2 to 3 Times) This will remove any built up pressure in the line and may dislodge small debris.	18
	X	X	Check for loose wires.	18
	X	X	Check if coil is grabbing magnetically. If not, replace coil.	19-20
	X	X	Valve plugged : Remove valve, clean and replace	19-20
When running the pump, the lift only goes <u>up</u> .	X	X	Bypass Valve / Coil is not shifting	
	X	X	Hose couplers not completely tighten. Use adjustable wrench to tighten couplers.	6
	X	X	Pull up Bypass for 1 second intervals. (2 to 3 Times) This will remove any built up pressure in the line and may dislodge small debris.	18
	X	X	Check for loose wires.	18
	X	X	Check if coil is grabbing magnetically. If not, replace coil.	19-20
	X	X	Valve plugged : Remove valve, clean and replace	19-20

Trouble Shooting

12v 110v
DC AC

Trouble	12v DC	110v AC	Remedy	Page
When running the pump to <u>lower</u> the lift, the boat lift only moves slightly, locks up or stalls	X	X		
			Pull up Bypass for 1 second intervals. (2 to 3 Times) This will remove any built up pressure in the line and may dislodge small debris.	18
	X	X	Pull up Bypass and press the down remote button. This will lower the lift and allow the fluid to pump through to the other end of the cylinder and not in the tank.	18
	X	X	Check for loose wires.	18
	X	X	Check if coil is grabbing magnetically. If not, replace coil.	19-20
	X	X	Valves plugged : Remove valves, clean and replace	19-20
After raising lift up, the boat lowers back down	X	X	Hydraulic system has debris in the system allowing leakage through the valves.	
	X	X	A slow leak may be caused by debris in the valves. Remove valves and clean thoroughly, replace and raise boat lift back up. If leakage continues, a full system flush may be required. Contact dealer or Pier Pleasure for system flush instructions	19-20
	X	X	A quick leak is caused by significant debris in the system and will require a full system flush and complete cleaning of both valves. Contact dealer or Pier Pleasure for system flush instructions	19-20
Low Power		X	110 Volt hydraulic system requires 10 - 12 amps for a working load. It is possible that the 110 volt system can lock out when it is completely lowered. This would require 25 amps to start pump to raise the boat lift. To prevent this happening, do not continue to hold down button once the lift is completely lowered.	8
Canopy light is not working	X	X	Check cord connection.	14
	X	X	Replace bulb - DC #912. Incorrect bulb will damage control boards	14
Solar panel not charging battery.	X	X	Solar panel must be facing to direct south at 45 degree angle or adjusted to receive direct sunlight.	15

Remote Key Fob Battery

If the remote blue light does not flash when the remote fob buttons are pressed, the battery may need to be replaced. Remove the screw with a phillips screwdriver. The battery is 23A 12 volt battery.



Hydraulic Bypass Knob

Hydraulic Bypass Knob can be used to remove pressure built up in the hydraulic system and clean out debris in the valves. Pull up the Bypass Knob firmly for a 1 second burst. Repeat this 2 to 3 times.

**● HYDRAULIC BYPASS
EMERGENCY USE ONLY**

- Before pulling this knob, you will need to temporarily remove fluid from the tank.
- **Tank will overflow if fluid is not removed.** Pull knob up to lower boat in an emergency only.
- Pulling this knob will fill fluid into tank and lower boat lift.
- When adding the removed fluid back into the tank, cycle lift up and down while adding fluid. It may take a couple cycles of raising and lowering the lift to remove all the air from the system.
- When the boat lift is completely lowered, there should 1" to 1-1/2" of fluid in the tank.
- If you have questions, please contact your dealer or call Pier Pleasure at 1-800-658-7010.



Loose Wires

Loose wires can easily be the cause of problems with the hydraulic system. Moving the hydraulic box around, installing the battery and general daily use could cause a wire to be pulled out. Check all hidden areas for possible wire that may be pulled out.

Loose Wire

Here is an example of a wire that was pulled out accidentally. (Photo 1) This was hidden problem until the cover was removed. Photo 2 shows the wire re-installed.

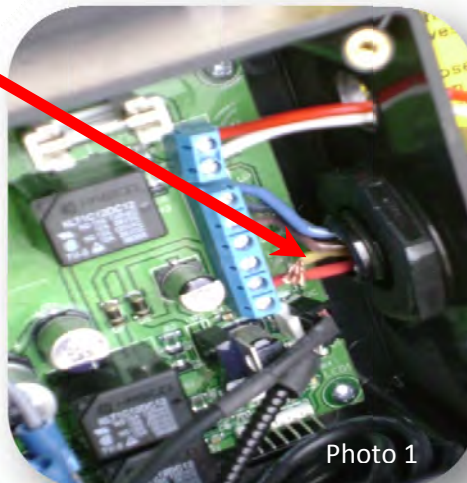


Photo 1



Photo 2

Valve and Coil without Bypass

Coil Problems

When operating the pump, the coil will grab the valve magnetically. To test this, remove the nut that is secured on top of the coil. The coil will now be free to move up and down on the valve. Hold the coil up on the valve and then press the “up” or “down” button the remote. The coil will grab the valve once the power begins to run. A screwdriver on top and touching the valve can also test the coil. Set a screwdriver on top of the valve, press a remote button and check if the screwdriver is grabbed magnetically. Replace the coil if it is not working properly.



Valve Problems

Debris can become lodged in the valve causing leakage and performance problems. The valve can be removed with a wrench. Inspect the valve for damaged o-rings, clogged ports and other possible defects that could cause performance problems. Clean with compressed air.



Bypass Valve and Coil

Coil Problems

When operating the pump, the coil will grab the valve magnetically. To test this, remove the bypass knob and nut that is secured on top of the coil. The coil will now be free to move up and down on the valve. Hold the coil up on the valve and then press the “up” or “down” button the remote. The coil will grab the valve once the power begins to run. A screwdriver on top and touching the valve can also test the coil. Set a screwdriver on top of the valve, press a remote button and check if the screwdriver is grabbed magnetically. Replace the coil if it is not working properly.

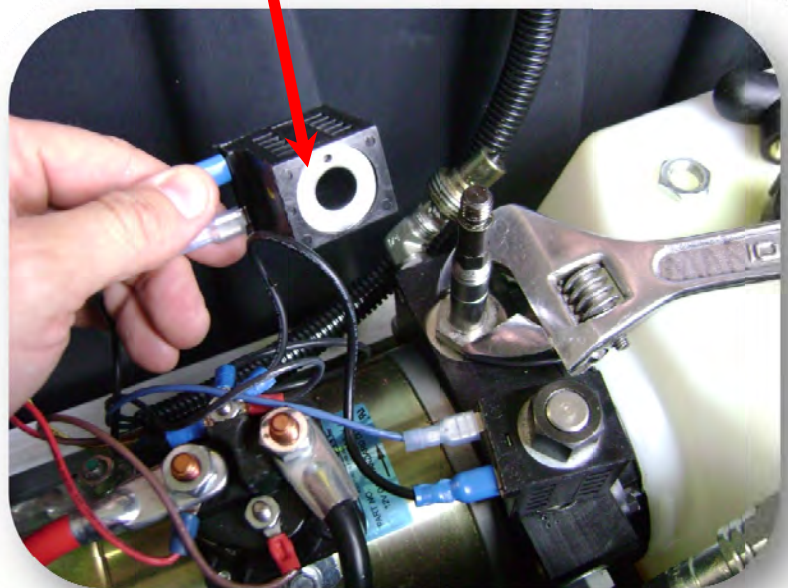
Bypass Knob



Bypass Coil

Valve Problems

Debris can become lodged in the valve causing leakage and performance problems. The valve can be removed with a wrench. Inspect the valve for damaged o-ring, clogged screen and other possible defects that could cause performance problems. Clean with compressed air.



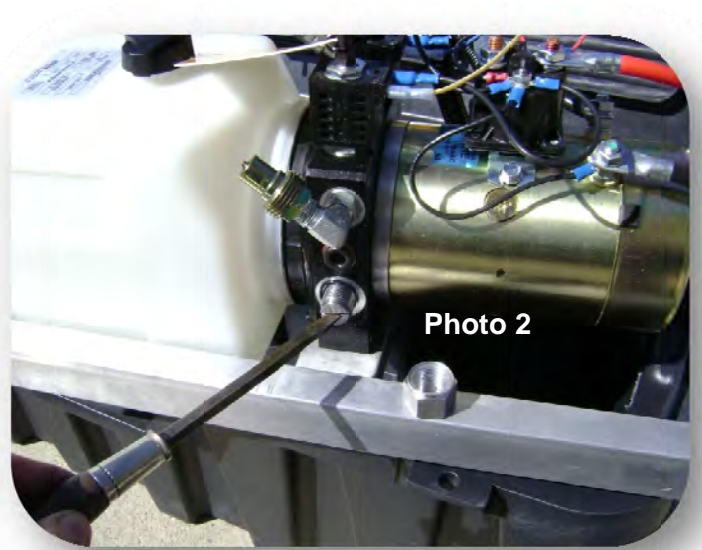
Bypass Valve



Pressure Relief Adjustment

The pressure relief has a default setting of 2700 psi. In some cases, the pump may be set slightly lower than 2700 psi. If the pump begins to squeal before the lift is completely raised, the pressure relief may need to be increased. The squealing is the flow of fluid over the pressure relief under the load of the boat. If you increase the relief pressure, the pump will raise the boat lift with the load of the boat.

To increase the relief pressure, use an adjustable wrench to remove the hex nut over the pressure relief valve (Photo 1). With a flat edge screwdriver, turn the valve $\frac{1}{4}$ turn in clockwise (Photo 2). Do not turn more than $\frac{1}{4}$ turn without testing if the system is working properly. **Excessively turning relief valve pressure up will cause damage to the relief pressure valve and/or pump.**



Access to relief valve adjustment is located on the back of the pump when the pump is in the poly box. You may remove the pump from the box to make adjusting easier. Photos of the pump and relief valve adjustment are shown with pump removed from the black poly box.

Also, hydraulic hoses are shown not attached to pump. You do not need to disconnect the hoses to make adjustments to the relief valve.

HYDRAULIC LIFT WARRANTIES

The following warranty shall govern as to each new boat lift sold by Pier Pleasure, during a period shown in the chart below to the original owner.

To the original owner : parts, which upon examination by Pier Pleasure or its dealers are determined to have been defective in material and / or workmanship under normal use, maintenance, and service, shall be replaced by Pier Pleasure, selling dealer or repair facility authorized by Pier Pleasure. Said parts claimed to be defective in material and / or workmanship must be brought to the attention of Pier Pleasure and / or the selling dealer by written notification within ten days of discovery, and any repairs or replacement must be commenced within 45 days, thereafter. Except for the above warranty, it is agreed and understood that no other WARRANTY, expressed, implied, or statutory is made by pier pleasure or its selling dealer, AND THAT THEY DO NOT MAKE ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS.

Products purchased by Pier Pleasure for the use in Pier Pleasure's Lifts and Accessories shall be covered by warranty only to the extent of the manufacturer's warranty and shall not be the responsibility of Pier Pleasure. Pier Pleasure will aid the buyer to obtain satisfactory warranty service from the original manufacturer.

This warranty shall not apply with respect to any claimed defect which in the judgment has arisen from repair or alteration not authorized by Pier Pleasure, from owner misuse, improper assembly, improper installation, overloading, negligence, accident, damage by ice and severe weather conditions.

Pier Pleasure's Warranties

<u>COMPONENT</u>	<u>WARRANTY</u>
Aluminum Lift Frame	20 years
Stainless Bolts - Washers - Fasteners	20 years
Pier Pleasure Workmanship	20 years

Manufacturer's Warranties

<u>COMPONENT</u>	<u>WARRANTY</u>
Vinyl Canopy Tarp (Material & Workmanship)	5 years
Seamark Fabric Canopy Tarp (Material & Workmanship)	5 years
Stainless Cable :	
Cable (Original)	2 years
Cable Clamp	Life Of Cable
Aluminum Sheaves	2 years
Aluminum / Vinyl Accessory Components	2 years
Hydraulic Cylinder, Pump, Hoses, Fittings, Remote, Remote Fobs and Solar Charger	1 year