



HYDRAULIC BOAT LIFT OWNER'S MANUAL & ASSEMBLY 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 7 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 6 on how to mark the stopping point.
16. Always wear eye protection and heavy gloves to protect yourself when connecting and disconnecting hydraulic hoses to prevent high pressure fluid spray from penetrating the skin.
17. Do **not** disconnect hoses from pump until the lift is completely lowered. 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. If hoses are disconnected with boat on lift, hoses cannot be reconnected until boat is off the 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 the fluid tank while you are gone. The lock pin will stop the lift from lowering.
See Page 6 for the installation and removal of this 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 children or other users.
See Page 5 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!

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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 system bring you many years of enjoyment.

Tools You May Need For Assembly:

- 1/2" Wrench
- 9/16" Wrench
- 3/4" Wrench
- 9/16" Socket
- 3/4" Socket
- Socket Ratchet
- Vise Grip
- 3/16" Allen Wrench
- Pliers
- Flat Edge Screwdriver
- Adjustable Wrench
- Tape Measure

NOTICE

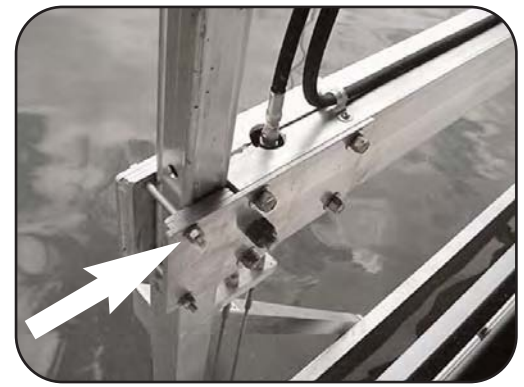
PLEASE OBSERVE
ALL CAUTION
STICKERS. THEY ARE
THERE FOR YOUR SAFETY!

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This manual is supplement to the main Pier Pleasure Owner's Manual. You should have an additional owner's manual that shows assembly and operation of the vertical lift and lift accessories. Please contact your dealer if you need any additional manuals or assistance.

Hydraulic Beam Assembly Installation

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.



Use 3/8" bolts and brass nuts to secure beam around canopy arm.

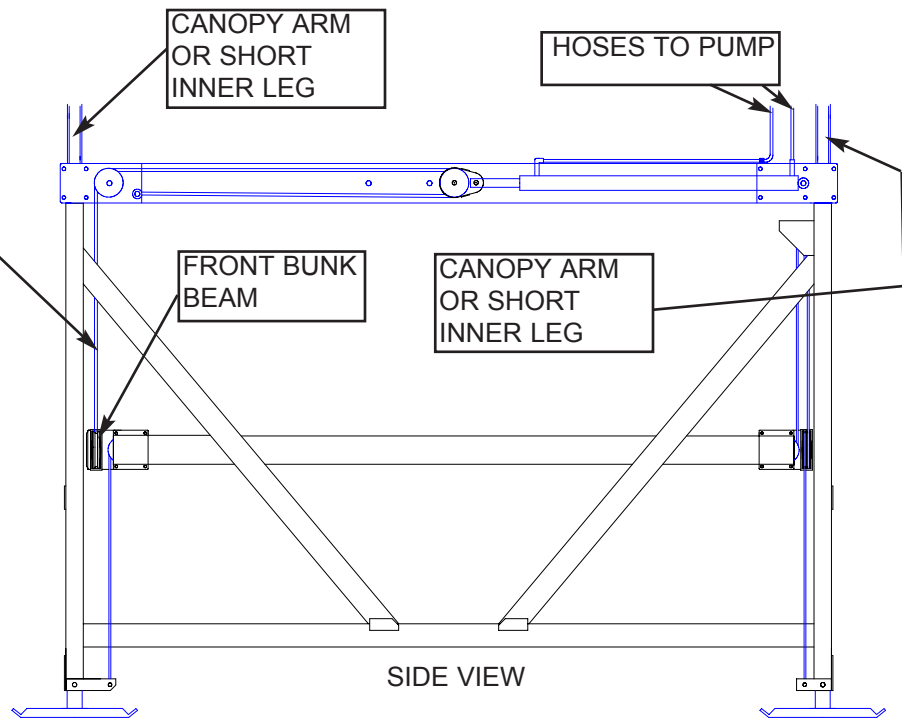
Cable Installation

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 BUNK BEAM AND BACK UP TO OTHER SIDE. (SEE PHOTO BELOW)



CABLE INSTALLED THROUGH BUNK BEAM AND SECURED INTO THE FLAT ON THE UPRIGHT OPPOSITE OF HYDRAULIC BEAM. USE 2 NUTS TO SECURE THE CABLE.



Coupling Hoses to Pump

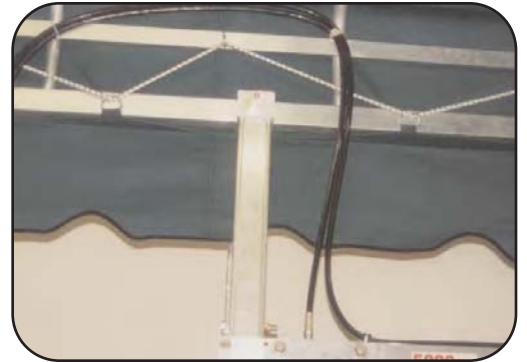
The hoses from the hydraulic beam assembly are connected to pump in the box. Slide hoses through holes located on the side of the box. Before connecting the hoses, clean dirt and debris from connections. Debris in the pump will cause the pump to fail. To attach the hoses, pull back on the female coupler and insert the male coupler. Once the couplers are connected together properly, the two couplers should lock together.



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

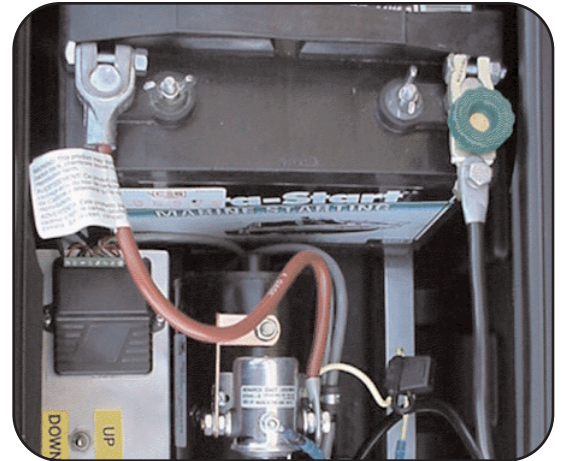
Securing Hoses and Cords

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

The battery is **not** supplied with the hydraulic system. A 12-volt deep-cycle marine battery is recommended with dimensions 6-1/2" x 10" x 8". The installation of the battery into the box will be easier if the battery is the recommended dimensions. Manuver the battery into the end of the black box and attach the battery cables.

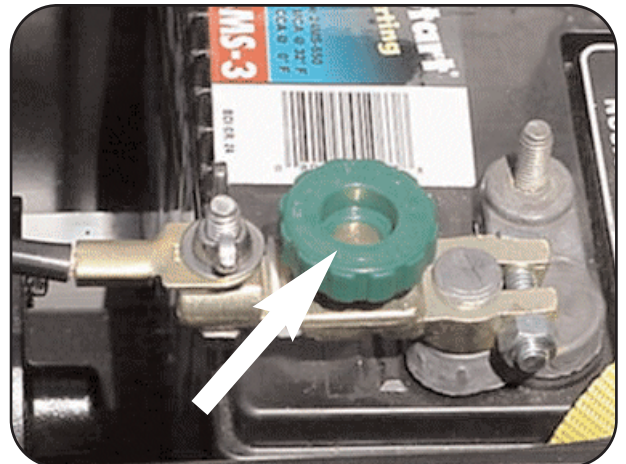


RED IS POSITIVE (+) BLACK IS NEGATIVE (-)

System Shut-Off Switch

The 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.



Operating Lift With The Remote & Toggle Switch

The hydraulic lift system is standard with one two-button remote and a toggle switch. The toggle switch is located inside the hydraulic box. Either the remote or the toggle switch can be used to raise and lower the lift. Use **caution** when you activate the power.

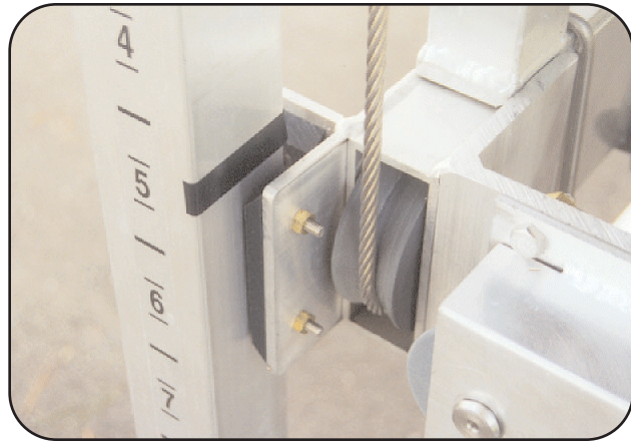
If the the remote is not responding properly, use the toggle switch to raise the lift. The remote will not respond properly if the battery is low or the signal between the remote and receiver is weak.

Additional remotes are available through your dealer. See page 8 for remote programming.



Marking Stop Point

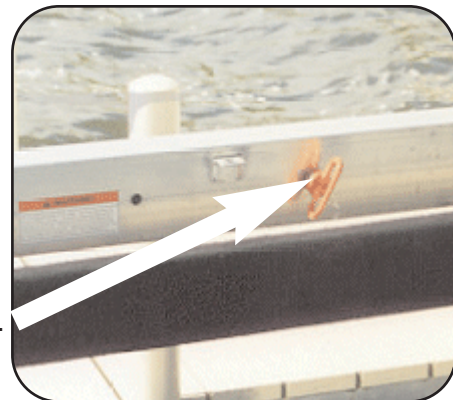
The hydraulic lift raises very quickly. Damage to your boat and lift canopy could occur. Raise the lift in small increments the first time you raise the boat up under the canopy. Once have you determined the maximum height, mark the stop point on the lift upright post. The stop point should be marked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



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.

Pin inserted into beam.



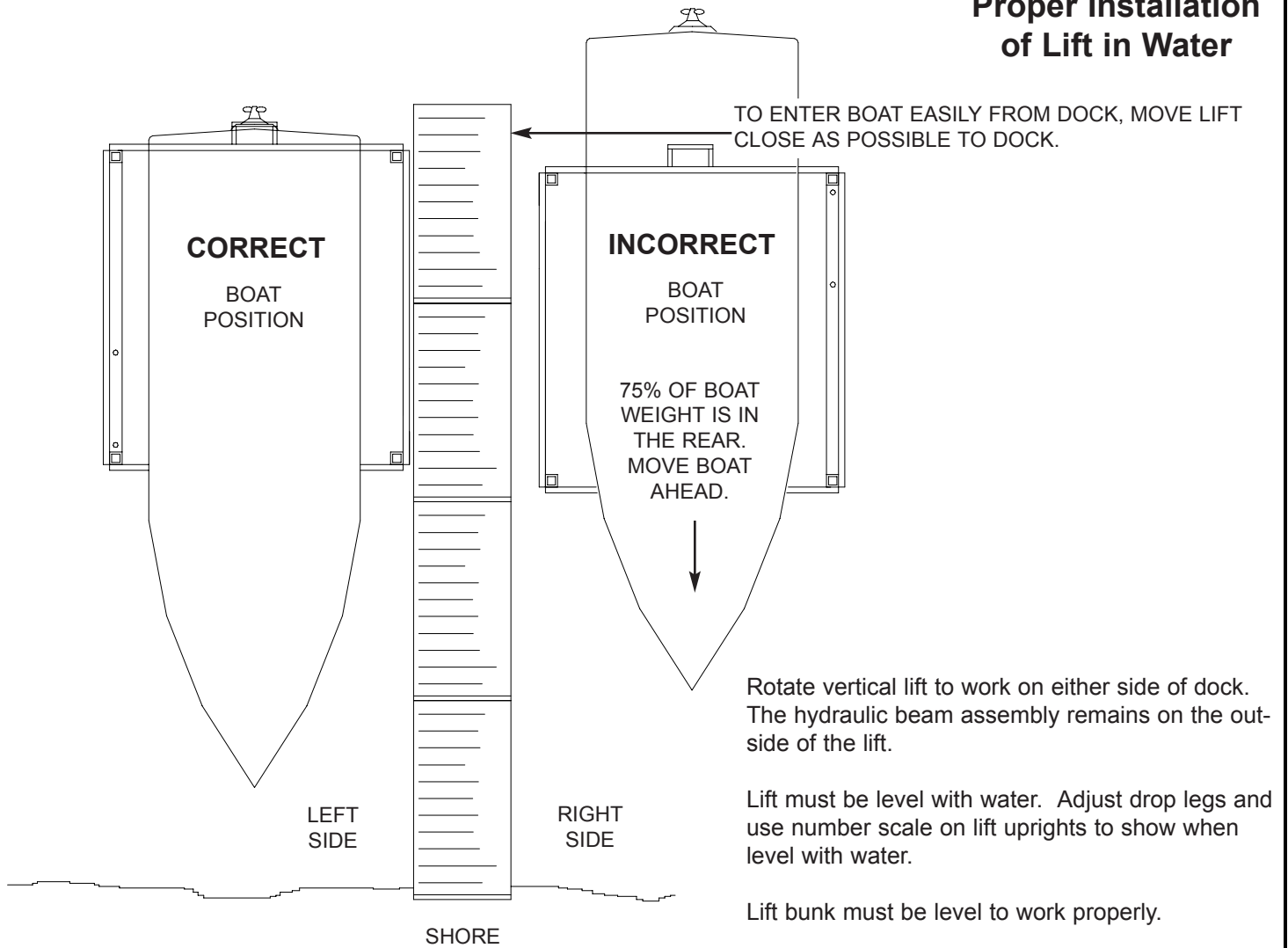
Access Hole

The access hole to the hydraulic beam is protected by a safety cover. Never use the hydraulic system without having this cover properly installed.

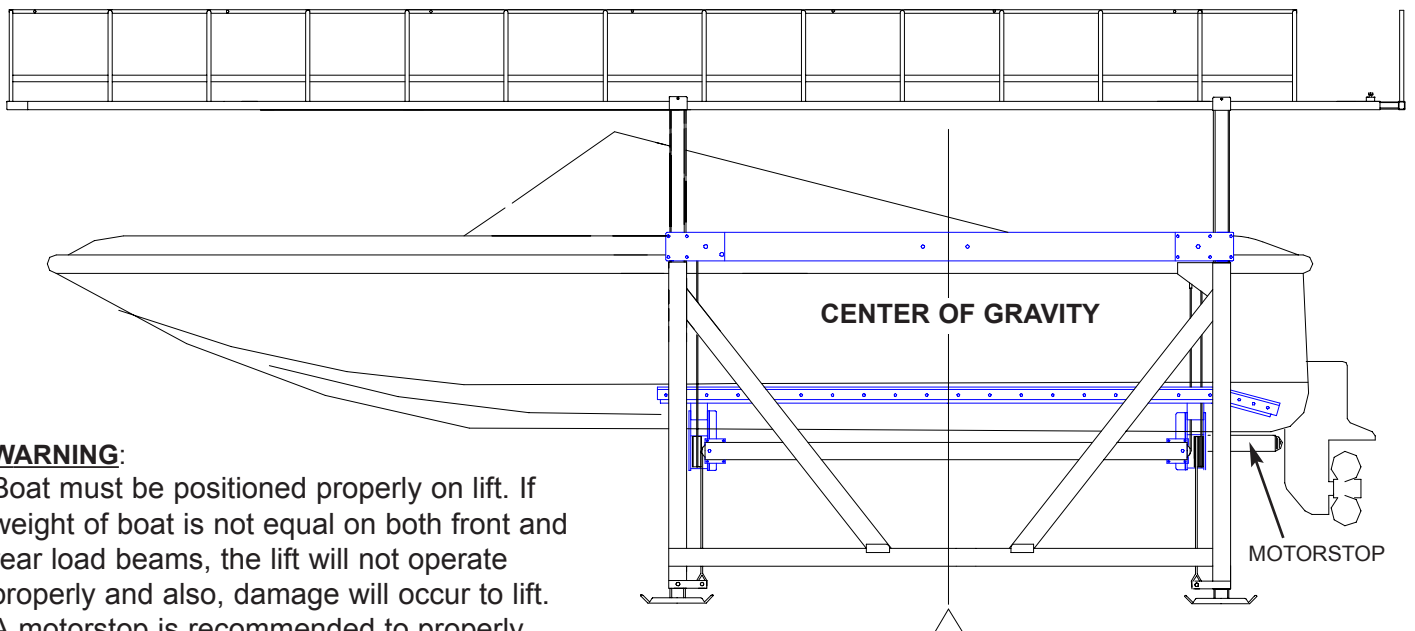
This slotted hole in the hydraulic beam allows for service to the hydraulic cylinder, cable, sheaves, and fasteners. Contact your dealer if you are experiencing problems with the hydraulic beam.



Proper Installation of Lift in Water



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.

Solar Panel & Solar Panel Rod (Optional)

The solar panel is available to charge the battery used for the hydraulic system. The solar panel rod is available to attach the solar panel from the canopy frame.

The solar panel will perform the best if placed at a 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 in 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.



Programming Additional Remotes (Optional)

You may purchase additional hydraulic pump remotes from the dealer. You will need to program the remote to work with your system. First, you will need to locate the receiver inside the black poly box. On the end of the receiver is two little buttons labeled mode switch #1 & #2.

To program the remote:

1. Hold button mode switch #1 on receiver for 3 seconds. Green light will flash fast.
2. Within 15 seconds, aim remote at receiver and push remote button labeled (I).
3. Hold button mode switch #2 on receiver for 3 seconds. Red light will flash fast.
4. Within 15 seconds, aim remote at receiver and push remote button labeled (II).
5. If remote will not work properly, repeat steps 1-4 again.



Receiver

Antenna Wire

System Fuse

The hydraulic pump has a 10 amp fuse wired within the system. This fuse protects the system from a dead short. If neither the remote or the toggle switch will not work, the fuse may be blown. To replace the fuse, pull the fuse with a pliers and insert new fuse.

Pressure Setting Adjustments

Flow control valve is pre-set from the factory. This valve inside determines the speed at which the lift lowers. If the lift lowers too quickly, contact your dealer.

C1 controls the lifting power. If the lift will not raise the boat out of the water, this valve will need to be adjusted. Release the jam nut and with a 3/16" allen wrench, turn the threaded screw inward 1/4 turn at a time to increase the cylinder power.

C2 is set at the factory and no adjustments are needed to this port.

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.

Storage For The Off-Season

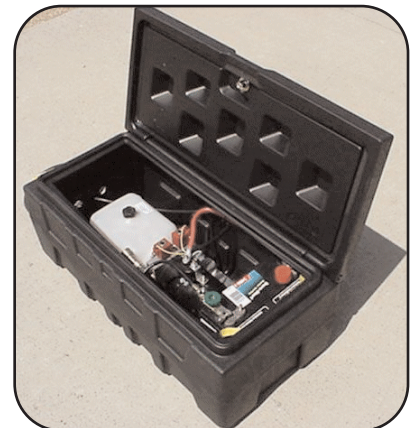
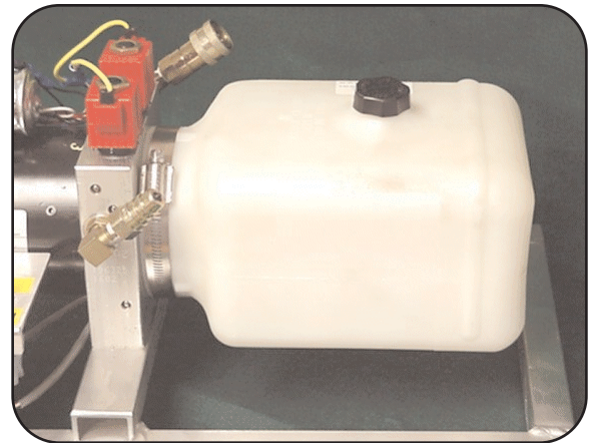
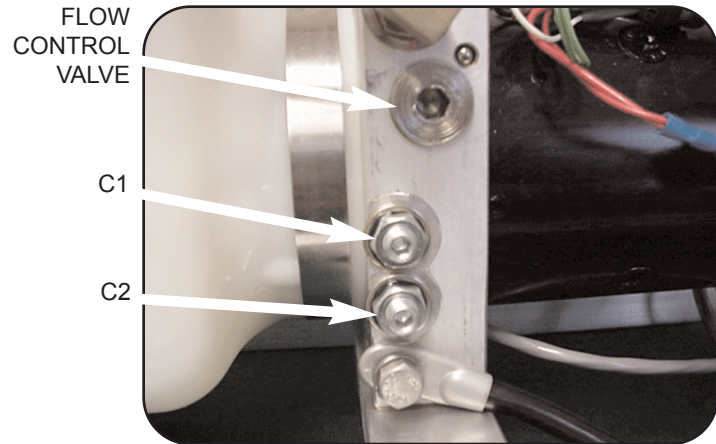
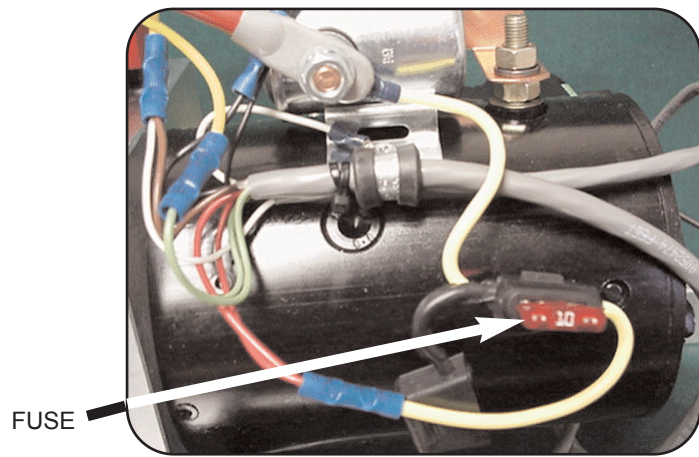
The black hydraulic pump box is designed to be disconnected for storage during the off-season. There will be pressure in hydraulic hoses when the lift is in the raised position. **Lower the lift completely** to remove the pressure. Disconnect and roll the hoses. Do not allow the hoses to touch the ground 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 is not distributed in the box equally.

Lift with care!



Trouble Shooting

Trouble	Remedy	Page
Push remote button and nothing happens.	Check system shut-off switch. If switch is turned off, the system will not operate.	5
	Battery low. Charge battery with battery charger.	5
	Check battery cable connections.	5
	Check fuse inside hydraulic box.	9
Push remote button and lift bounces while raising lift.	Use toggle switch inside box to raise lift. If toggle switch works properly, but remote causes the lift to bounce, the battery is low. Charge battery.	5 & 6
Remote will not work from a distance.	Battery low. Charge battery with battery charger.	5
	Signal between remote and antenna may be weak. Antenna wire attached to the receiver in black box may be moved to create a stronger signal.	8
When raising boat, hydraulic system squeals and will not raise completely.	Pressure on pump set too low. Adjust the pressure control valve on the pump. (C1)	9
Lift drops too quickly when lowering boat into water.	Lift should lower at a safe rate into water. If lift lowers fast, flow control valve is missing from pump. Call dealer for flow control valve installation.	8
Hydraulic fluid tank seems low.	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.	9
Solar panel not charging battery.	Solar panel must be facing to direct south at 45 degree angle or adjusted to receive direct sunlight.	8
Hose couplers will not lock together.	Check to see if couplers are free of debris. Wipe off both couplers completely and try again.	5
	If you have disconnected hoses from pump before lowering completely, it will be difficult to reconnect hoses without removing the pressure in the line. Remove pressure by running lift up slightly or pressing end of hose to allow fluid to flow out. Always wear eye protection and heavy gloves to protect yourself from high pressure fluid spray whenever connecting or disconnecting hose couplers.	9

HYDRAULIC LIFT WARRANTIES

The following warranty shall govern as to each new boat lift sold by Pier Pleasure, during a period of fifteen years 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	15 years
Stainless Bolts - Washers - Fasteners	15 years
Pier Pleasure Workmanship	15 years

Manufacturer's Warranties

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