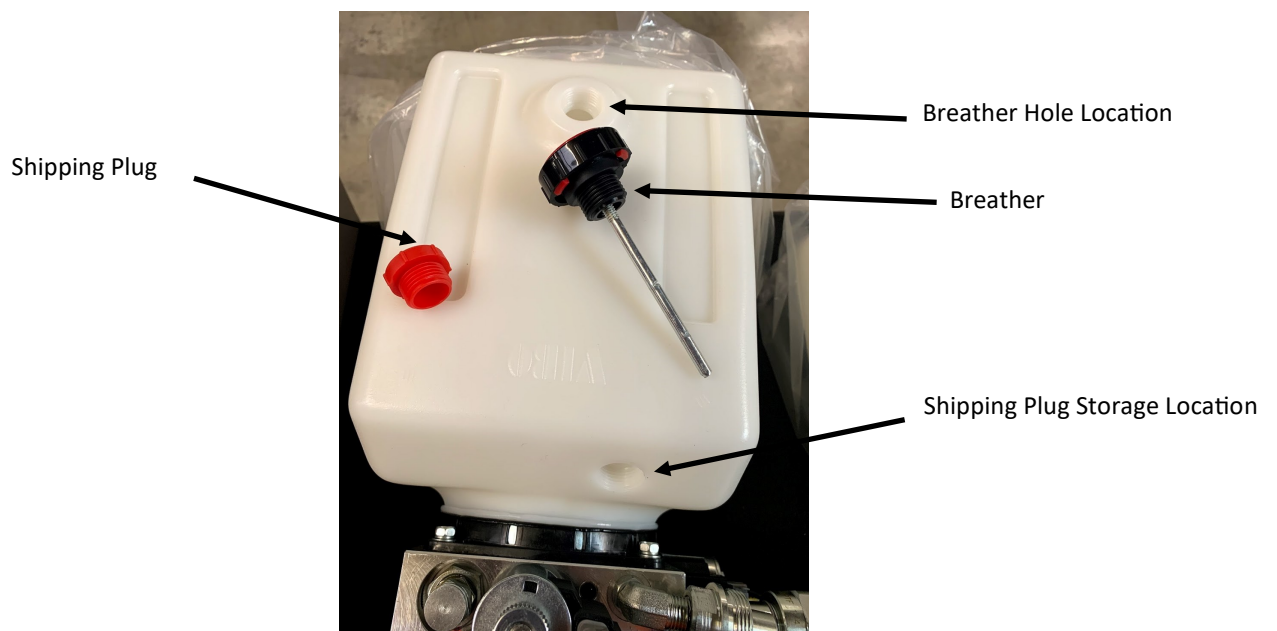
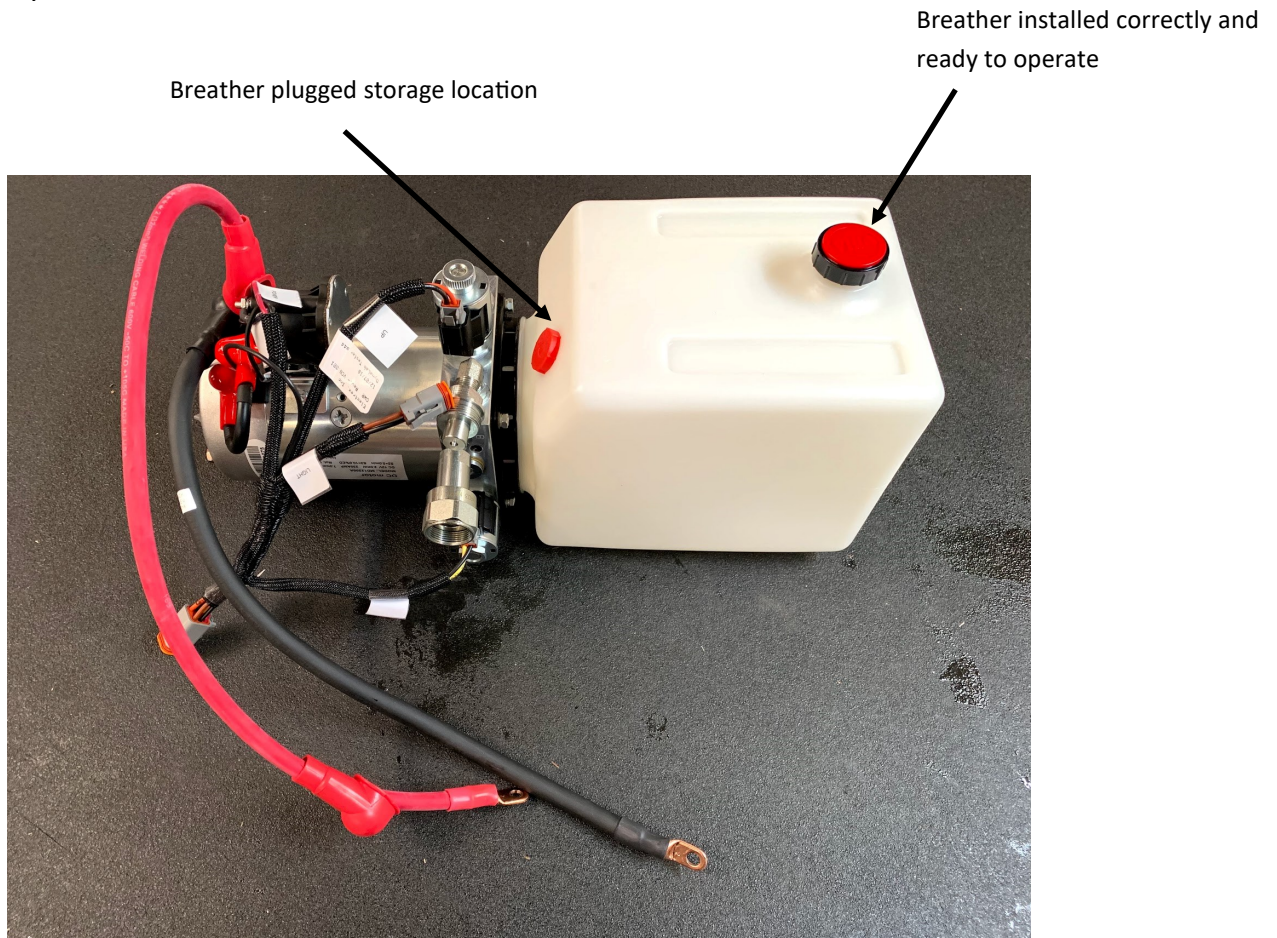


Hydraulic Power Pack Operating Manual

Start-Up Instructions:

Step One:

Each Hydraulic Power Unit is shipped filled with and ready to operate. However they are shipped with the reservoir breather removed to avoid spilling during shipping. The unit has a sealed plug in the breather hole and needs to be swapped out before operating unit. Operating unit with the plug installed will damage the Hydraulic Power unit and lift.



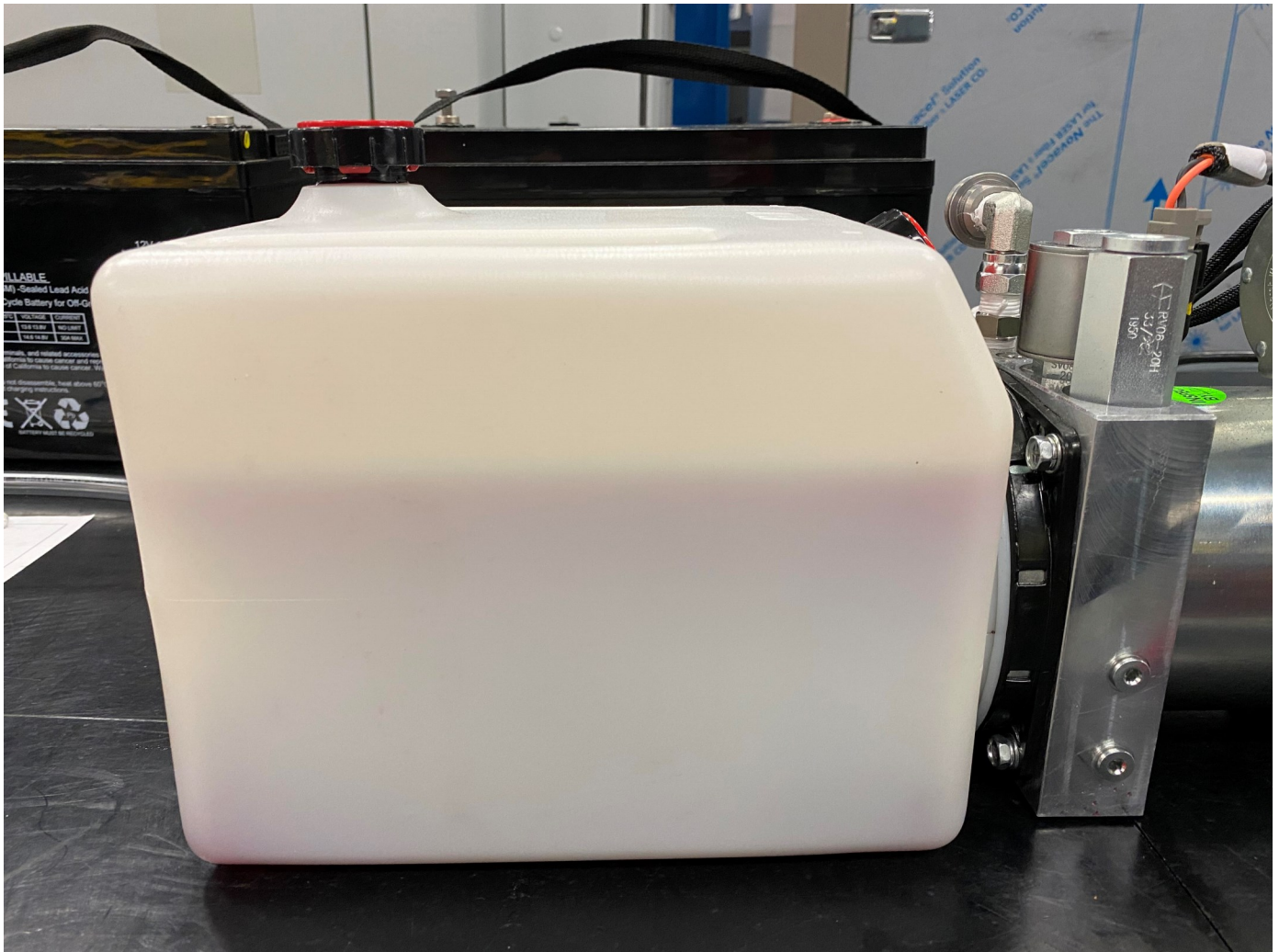
Start-Up Instructions:

Step Two

Check Oil Level before starting unit

- The hydraulic power unit will be shipped with the proper amount of oil already in the reservoir. The level will be about 1-1/2" from the top. This is the level required for the lift to be in the lowered position. When the lift is in the raised position, the oil will be about 2" from the bottom of the reservoir.

As Shipped—Lift in the Down Position



Start-Up Instructions:

Step Three

Install Beaver hose adapter

- Inside the box you will find the beaver hose adapter and 2" lock rings. Install as shown and feed cylinder hose kit through this adapter.

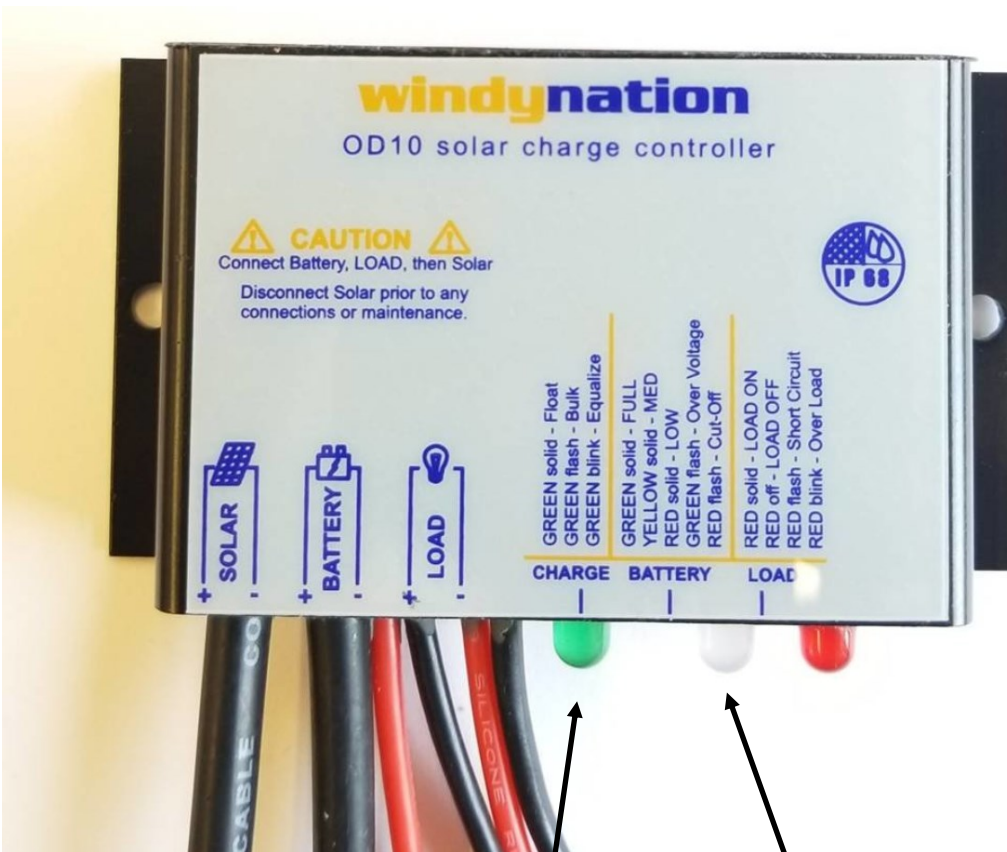


Beaver Hose adapter installed correctly

Solar Panel Instructions:

Location

- Make sure the solar panel has an unobstructed view of the sun. any shading on the solar panel will decrease the charging ability



Battery Level Indicator

- Green = Completely charged
- Yellow = Medium Charge
- Red = Low Battery

Light turns green when charging

Solar Panel Instructions:

Remote Solar Panel

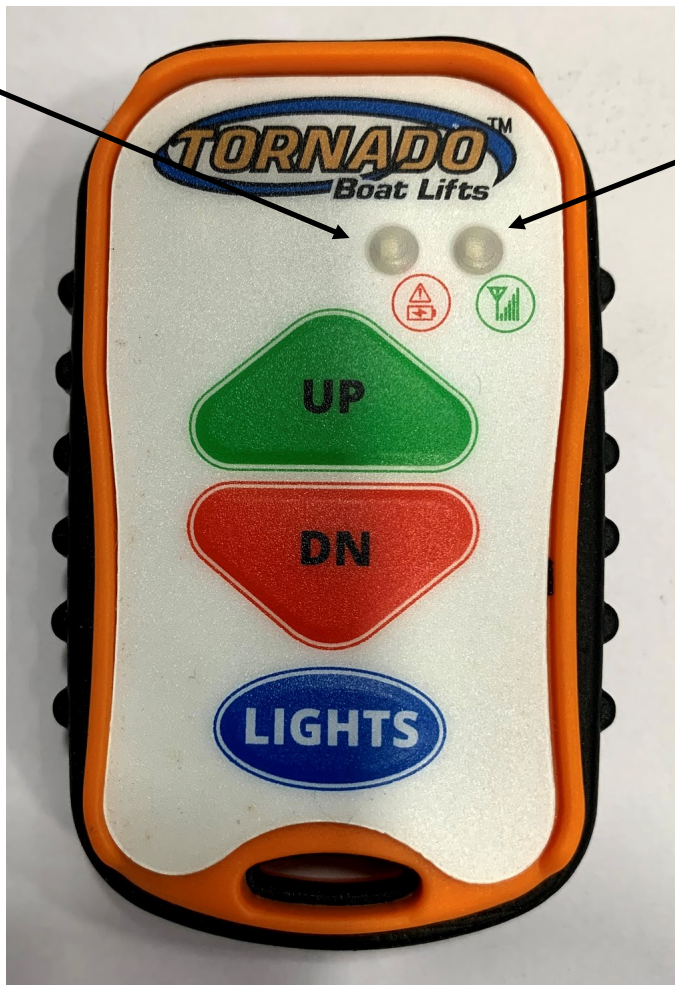
- Remote Solar Panels can be ordered from Golden Boat Lifts in 30w and 100w power levels. We offer both a Pole Mount and roof mount varieties.

Remote Controls:

Waking the transmitter

- The transmitter normally will be in the off state. This means no flashing lights on the transmitter. To wake the unit just hit any button. Nothing will operate when waking. Once the transmitter is awake all functions will operate as normal. The transmitter will turn off into sleep mode after 30 seconds. Follow the same instructions to wake the remote again. This function saves on battery life of the transmitter

Remote Battery indicator light. Flashes Red when battery needs to be replaced.



Wake/Signal Light

- Flashing Green = Wake
- Flashing Red = Unit out of range

Remote Controls:

Using the remote

- Up Button—This button will raise the lift
- Down Button—This will Lower the Lift
- Light—This will turn on an accessory light if equipped for a 5 minute duration.



Attention !!

The remote has a built in safety feature that will limit the range of the remote and make the lift not function properly if both remotes are in the "Wake" state. The wake state is when both transmitters are both awake at the same time. Both units will be flashing green in this state. Wait 30 seconds for the remote to enter the sleep mode and wake and operate one transmitter ONLY.

Remote Controls:

Pairing a remote

- Transmitters come already paired from the factory. However if you need to pair or clone a remote, please follow these instructions. If you have two remotes they will both need to be paired together.

Step One

Turn the power button on the receiver to the off position

Step Two

Make sure the transmitter is in the off or sleep mode (No lights flashing)

Step Three

Hold the “UP” and “Light” buttons on the transmitters at the same time until the Signal and Battery level lights start flashing alternately red and green.

Note: If you have two remotes they will both need to be paired at the same time to both operate. To do this put the first remote in the pairing mode then do the same thing on the second remote (Flashing Red and Green) This need to be together , then move to step four

Step Four

With the lights flashing red and green alternately on the transmitter, Turn the Receiver power switch to the “ON” position. Once they are paired the transmitter will stop flashing red and green and will change to just flashing green.

Battery Replacement

- The battery can replaced if the battery level light is flashing red. Please use a CR2032 Battery. Use a small Allen wrench to open the transmitter.

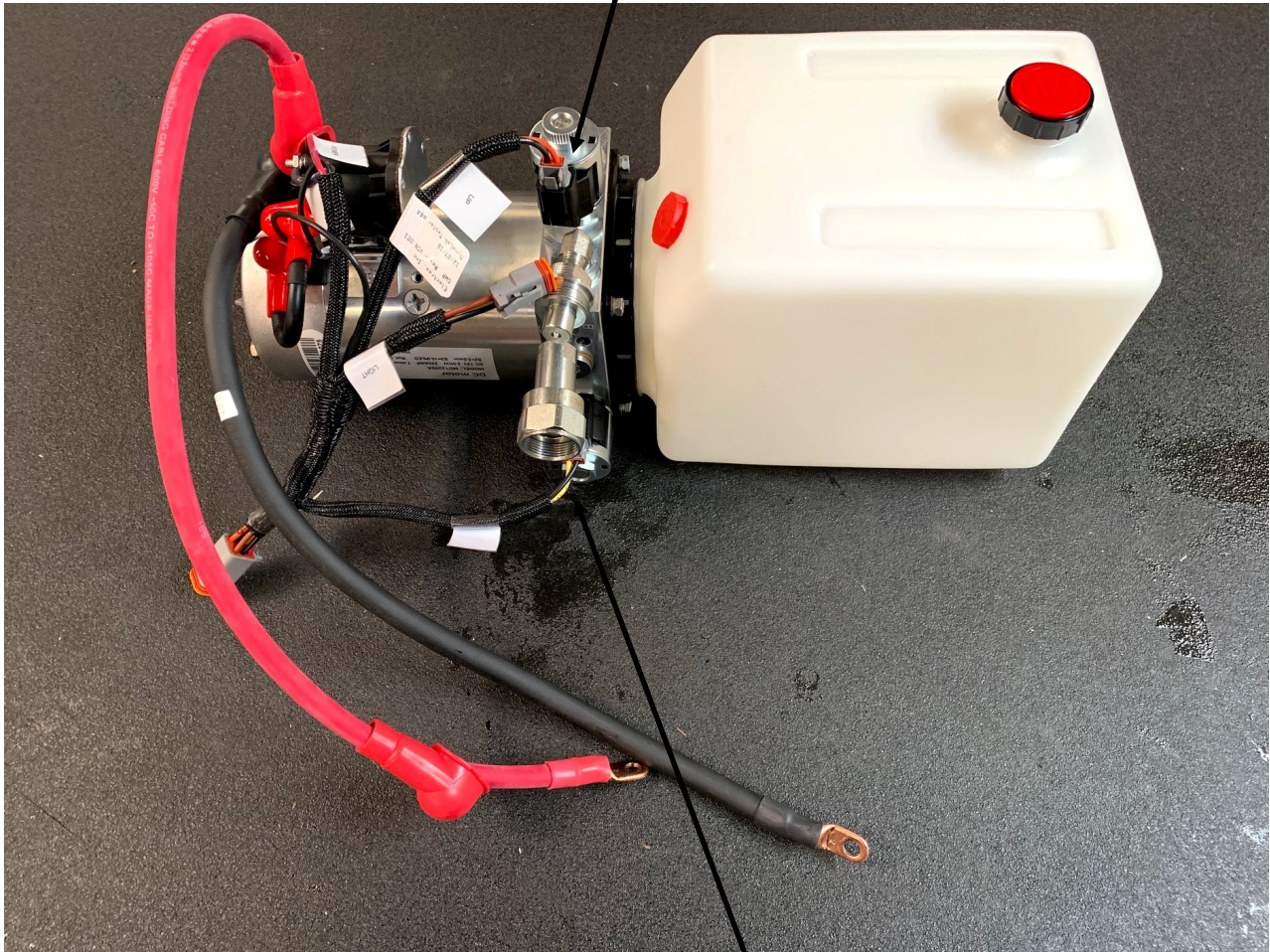


Electrical:

Proper wiring locations

- The Up and Down Solenoids have different wire colors to identify the proper wire location. The Up valve is on the side of the unit and has Yellow and Black wires. The Down solenoid has Orange and Black Wires.

"DOWN" valve location



"UP" Valve Location

Electrical:

Fuse Location

- The Hydraulic Power unit comes equipped with a fuse to protect the unit. It uses a 15a Mini Fuse.

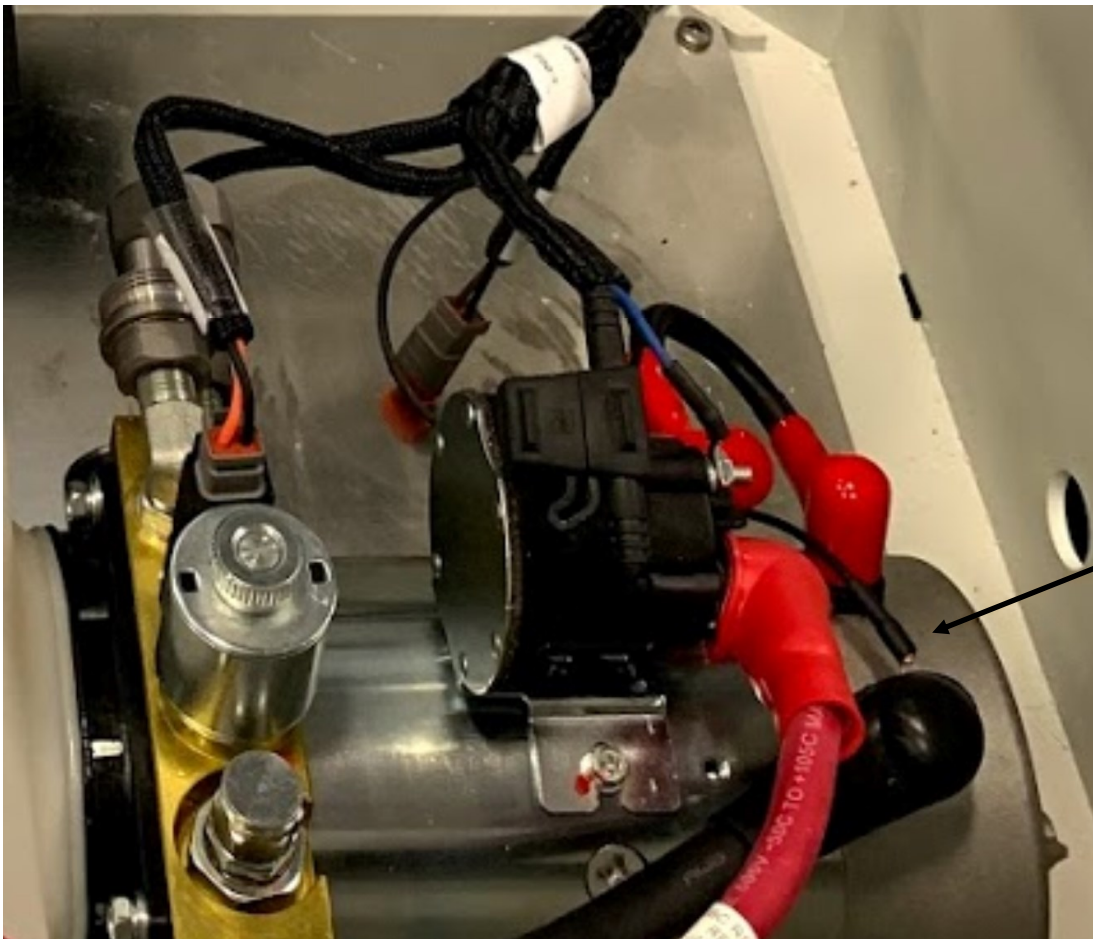
Fuse Location



Electrical:

Grounding

- All electrical components are grounded through a single Black ground wire. This wire must be attached to the grounding lug on the motor and free of corrosion.



Ground Wire and Lug

Plumbing:

Proper Quick Connect locations

- The Hydraulic Power unit comes with Quick Disconnect installed and can be mated with the proper hose kit. The Top fitting on the Power Unit will be the “Male” side and this is plumbed to the “Rod” side of the Cylinder. The quick disconnect on the bottom will be “Female” and will be plumbed to the base end of the Cylinder.

Male Coupling (Rod Side of the Cylinder)



Female Coupling (Base of Cylinder)

Leaks: Unit should be free of leaks, However please tighten and fittings if you notice a leak.

Maintenance:

Checking the Fluid level

- You may need to add fluid from time to time. If needed fill as directed

Lift in the Up Position—Fluid should be about 1-1/2" to 2" from the bottom and will appear low. This is the normal oil level for this lift position.

Lift in the Down Position— Fluid should be about 1-1/2" to 2" from the top.

Caution: Only added oil when the lift is in the down position! You risk overflowing the reservoir if filled in any other position. Please use the proper oil type recommended by Golden Boat Lifts.

Changing the Oil

- The oil should be changed every 2 years to insure proper unit life. The inlet suction strainer should also be cleaned at the same time. You will need to drain the oil and remove the reservoir to gain access to the strainer.

Battery Maintenance

- Check the battery cables and connections for corrosion. If corrosion is present remove corrosion with a wire brush until clean and reapply Dielectric grease or corrosion protection.

Clean the Solar Panel

- Use a mild cleaner to remove any dirt or grime from the solar panel. This will increase the charging ability and extend the battery life. This should be done as needed.

Troubleshooting:

Lift won't lift Boat out of the water or stuck in the fully down position

- The lift will operate but not completely lift the boat out of the water. In this case the boat may be overloaded and the relief valve needs to be adjusted. Remove relief cap and make the following adjustments.

Step One: Remove Relief Valve cap and lock nut

Step Two: Turn relief out CCW one full turn

Step Three: Hold Up Button down and Turn Relief valve adjustment CW until it lifts
Lifts the Boat out of the water. Tighten Lock Nut and re-install cap

Step Four: Test lift for Proper operation

Lift Won't Raise

- Check the "UP" wiring connection (Yellow/Black wires) to see if it is loose. Also check to make sure it is being energized. Hit the up button and see if it is magnetizing by putting a metal object on the end of it to see it sticks while being energized. Check to make sure couplings are tight.

Lift Won't Lower

- Check the "DOWN" wiring connection (Orange/Black wires) to see if it is loose. Also check to make sure it is being energized. Hit the down button and see if it is magnetizing by putting a metal object on the end of it to see it sticks while being energized. Make sure couplings are tight.

Lift Won't Raise or Lower

- Check wiring like the above two statements
- Check Battery Voltage
- If motor does not come on and nothing happens—Check the fuse
- If motor does not come on but makes a clicking sound—Check battery voltage
- If the motor comes on but won't lift or lower—Check to make sure the couplings are tight

Troubleshooting:

Lift is slower then usual

- Check to make sure couplings are tight
- Make sure suction strainer is clean
- Check Battery voltage

Battery is draining too quickly

- Make sure the Solar panel is not dirty or shaded. Clean Panel or install a remote Solar panel where good sun light is available

Setting the relief valve

- Step One: Remove Relief Valve cap and lock nut
- Step Two: Turn relief out CCW one full turn
- Step Three: Hold Up Button down and Turn Relief valve adjustment CW until it lifts
Lifts the Boat out of the water. Tighten Lock Nut and re-install cap
- Step Four: Test lift for Proper operation

Changing the Flow Control

- The lifts are equipped with a lowering speed control. This can be increased by changing the flow control. The flow control can be purchased through Golden Boat Lifts.

Remove Flow Control access plug with Allen Wrench

Remove flow Control with standard Screw Driver

Replace Flow control

Re-install Access Plug

Test speed

Flow Control

Access Plug



Troubleshooting:

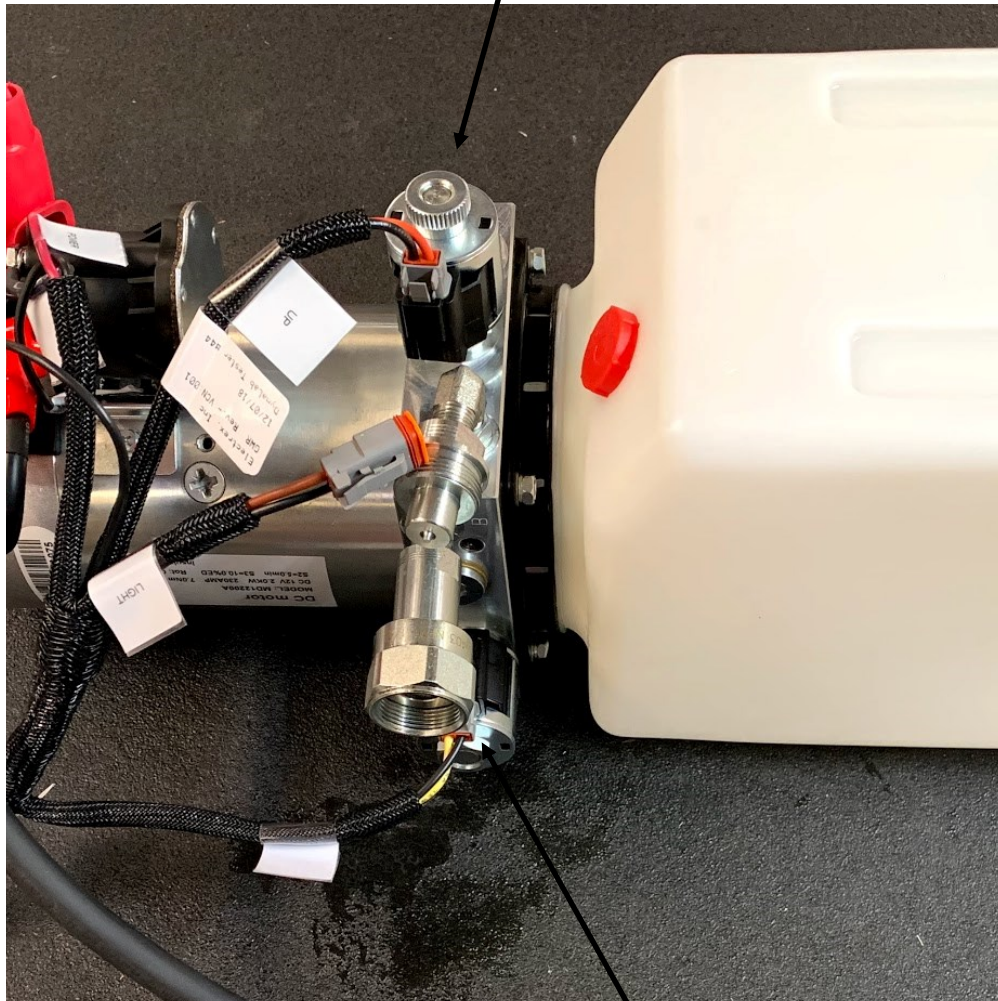
Lift Operates Backwards

- Check for proper wiring connections

Yellow and Black wires to the Solenoid valve on the side

Orange and Black wires to the solenoid valve on top

“DOWN” valve location (Orange/Black Wires)



“UP” Valve Location (Yellow/Black Wires)

Troubleshooting:

Lift Operates Backwards

- Check for proper Plumbing Connections

Top Coupling on Power Unit should be the Male QD and is plumbed to the Rod end of the cylinder

Bottom Coupling on the Power Unit should be the Female QD and is plumbed to the Base End

Male Coupling (Rod Side of the Cylinder)



Female Coupling (Base of Cylinder)

Spare Parts:

The following are spare parts available for purchase

Description	Part Number
Starter Solenoid	684-1261-212
Hydraulic Valve Coils	4303612
Motor	5316-22
Suction Strainer	FS03B
Shipping Plug	PVP04
Fittings	Consult Factory
Couplings	QC6000-14M-NPT-1/4"-ZN (Male) QC6000-14F-NPT-1/4"-ZN (Female)
Flow Control	RPCV-02-10
Breather Cap	FC-04N
Wiring Harness	9445009
Battery Cables	Red: 9445012 Black: 9445013