

# DC-SOLAR BLOWER CONTROL BOX

***SAFER, FASTER, STRONGER***

Requires 2pcs 12v Batteries (not provided)

Battery Size: 12v-55A AGM Batteries also known as "Wheel chair batteries" or Size 22NF



# DC-SOLAR BLOWER CONTROL BOX

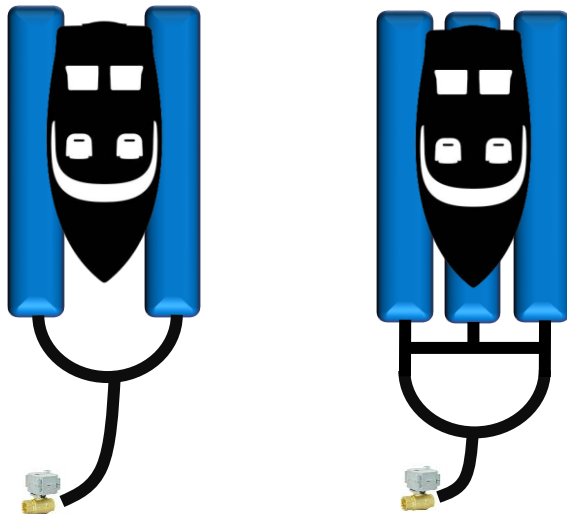


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## Typical Hose Connection Diagram



# Important Warranty Information



Connecting the battery power cables backwards will lead to instant & permanent damage to the motor driver unit without warning.

Warranty Voided: Replacement @ user expense



# IMPORTANT



Make sure the fuse breaker is disconnected as shown before connecting wires to battery:

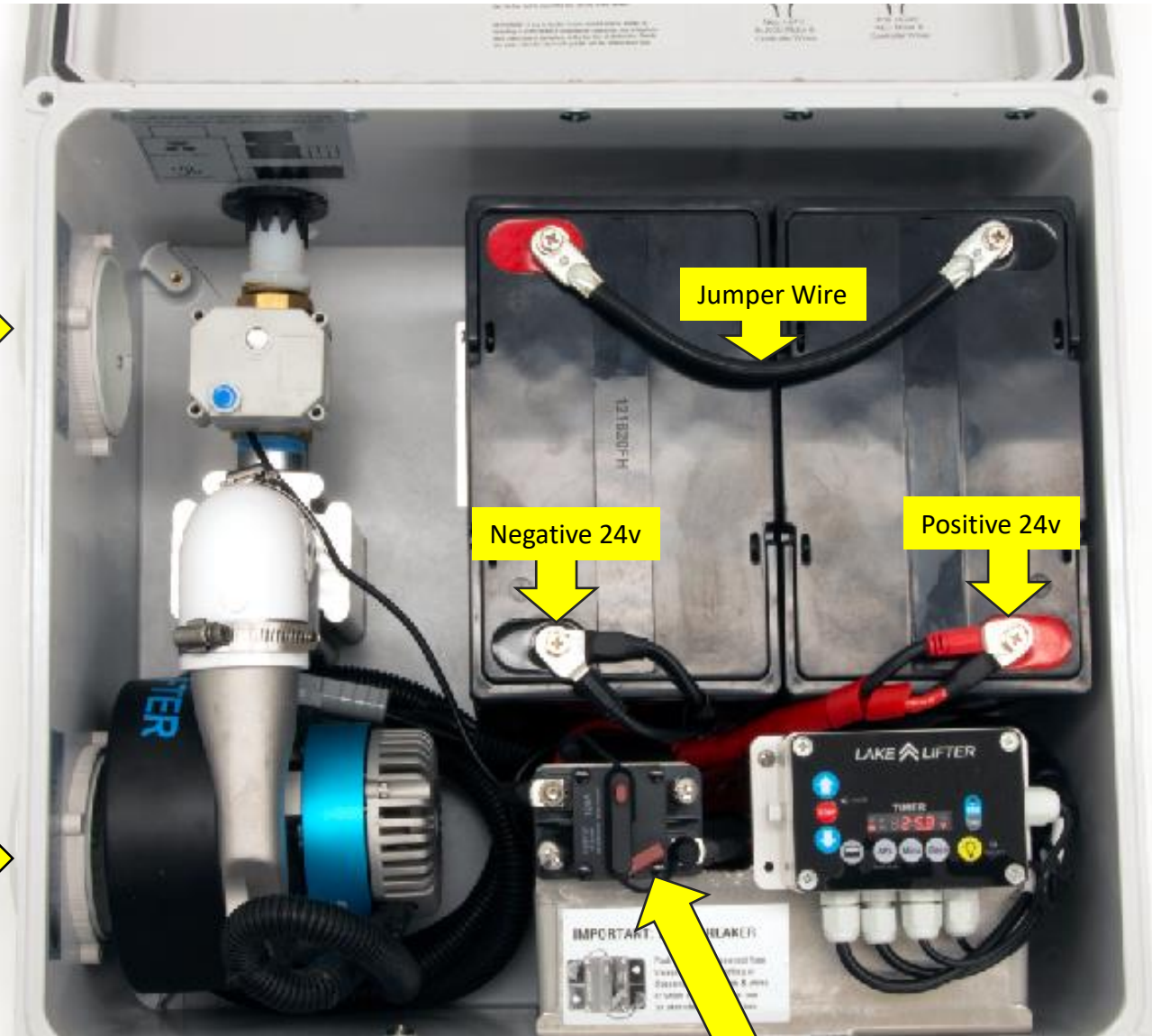
Please pay attention to your connections. Double check all wiring before turning the fuse breaker on!

# Box Feet & Stick on Spacers

1. Install all 4 box feet as shown: These will elevate the box to allow for any drainage.
2. Install two stick on spacers as shown. (prevents box sag over time due to battery weight)



# Battery Connections & Layout



Open vent for solar & LED light wires

Jumper Wire

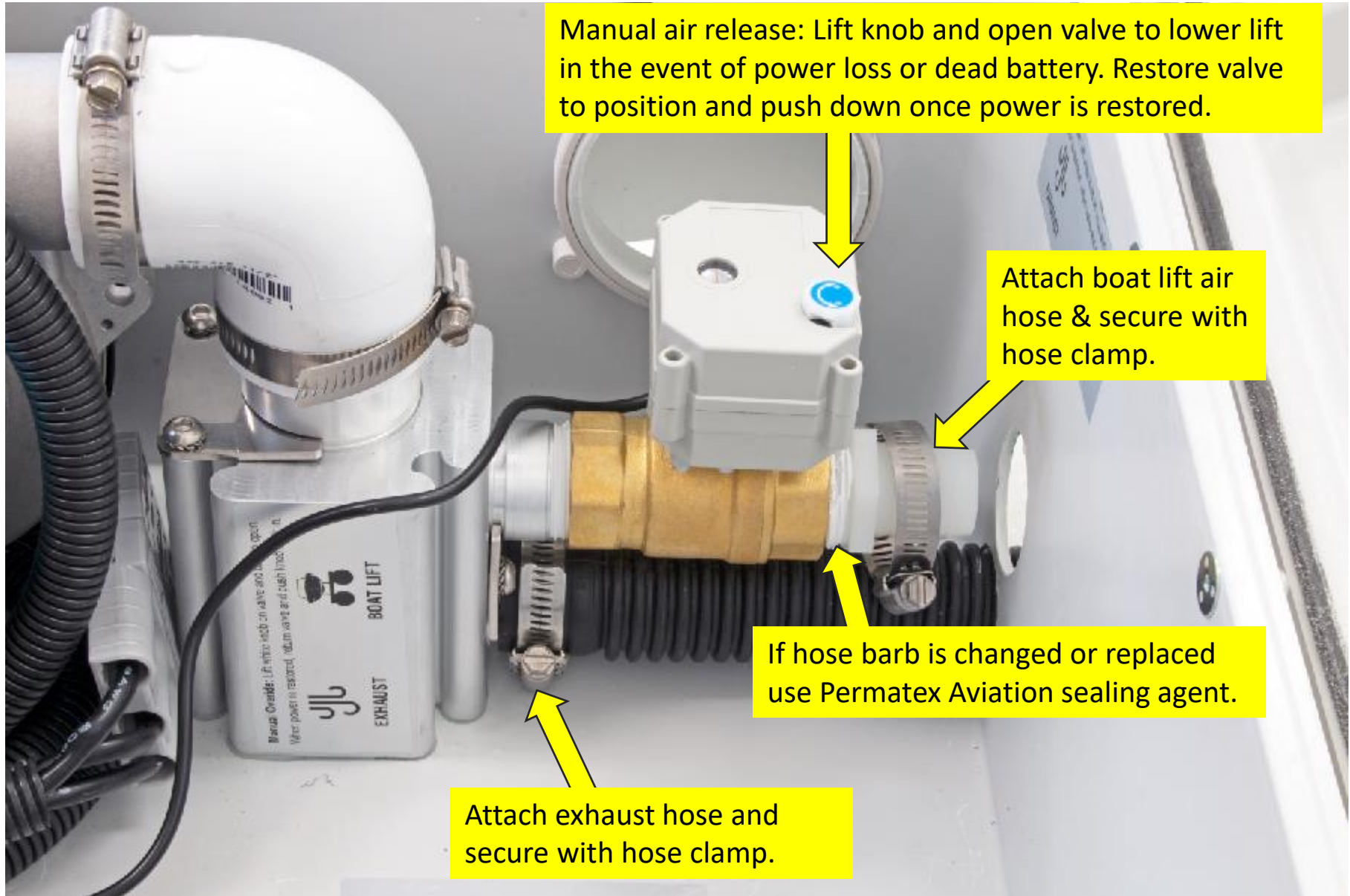
Negative 24v

Positive 24v

Vent with protective mesh

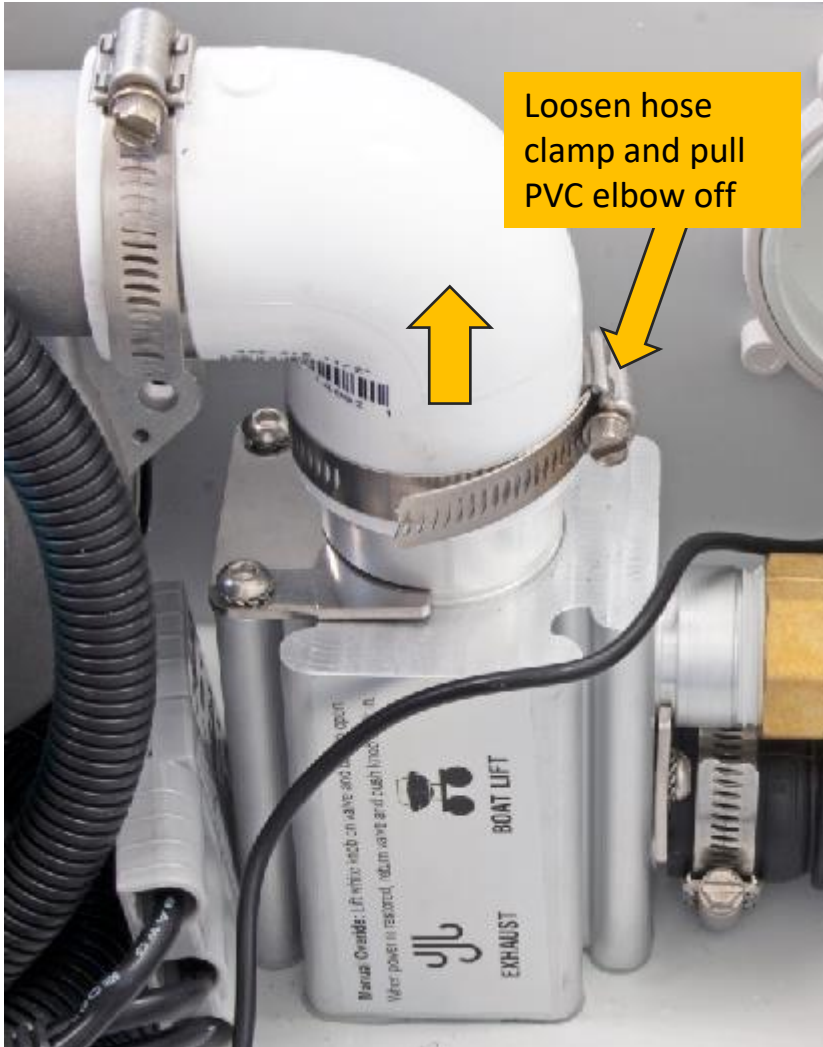
**IMPORTANT:** Make sure fuse breaker is **OFF** when connecting/disconnecting wires.

# Hose & Valve Connections



# Seasonal Maintenance Check

**SERVICE NOTICE:** Seasonal Check: Remove the PVC elbow and spray a small amount of WD-40 or WD-40 silicone lubricant into the check valve. Ensure the spring & valve are free of debris and obstruction.



Ensure spring action plunger is moving smoothly and free of dirt and debris



# Button Function & Programming



**UP** = Motor turns ON & valve OPENS to lift boat.  
Motor & valve will turn OFF when timer is finished.



**STOP** = PAUSES current operation & CLOSES valve.  
UP or DN arrow will flash indicating paused direction.  
Continue in same direction & operation will continue.  
Change direction & timer starts full in new direction.  
After 15 mins inactivity system is cleared and reset  
Hold STOP for 3s to clear or reset any operation.



**DN** = Valve OPENS to lower boat:  
Valve will CLOSE when timer is finished.



**LIGHT** : Turns on LED light output: Default auto off timer is set to 15:00mins. To adjust light Auto-Off timer HOLD light button until timer flashes: Use Mins & Secs button to adjust as needed.



**SELECT:** Press to select the UP/DN timer you wish to program. The UP/DN arrows will illuminate to indicate which timer is ready for programming.  
HOLD the SEL button, when timer starts flashing it is now ready to program with the Mins & Secs buttons.



**Mins:** Increases the time by 1:00 minute intervals  
1:00, 2:00, 3:00 ..... 20:00 >>> 0:00, 1:00, 2:00 ...



**Secs:** Increases the time by 0:05 second intervals  
:05, :10, :15 ..... :55 >>> :00, :05, :10, :15 ...



**BAT:** Displays Battery Level & Voltage  
Press again to return to Lifting/Lowering Timer



**FOB SYNC:** To sync a new key fob press sync button then press any button on the key fob. To un sync a fob hold the SYNC button for 3-5 seconds

## Quick Programming Guide

Press SEL button to toggle between ALL of the UP & DN timers.

The UP/DN arrows will illuminate to indicate which timer is ready.

Hold SEL button until the clock flashes. > Use Mins/Sec buttons to set time.

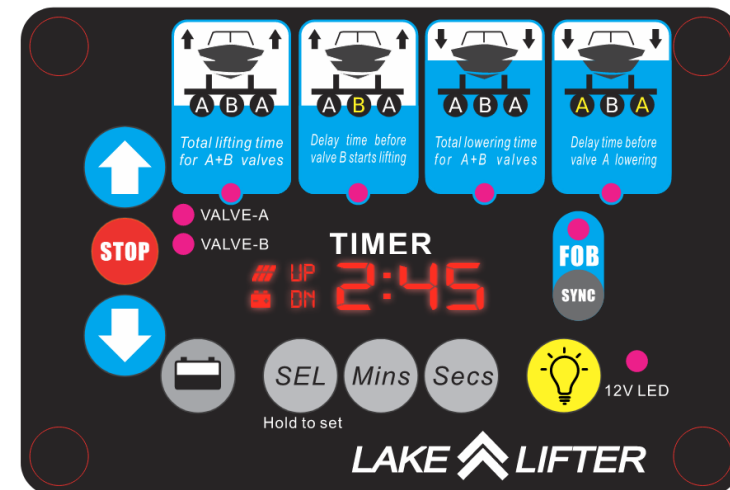
Hold SEL or wait until clock stops flashing and time is now programmed.

Press SEL button to move to next timer & program all timers as desired.

### NOTE / SUGGESTIONS:

Add 15-30s additional UP time to accommodate varying weight conditions

Add 1:00-3:00m additional DN time to accommodate varying weight conditions.





# 3-Tank Programming (Left-To-Right)

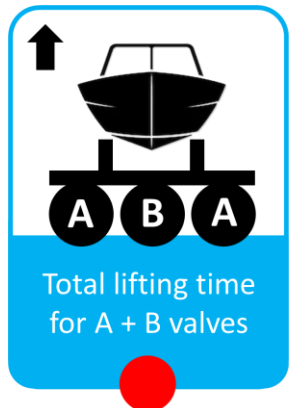
The 3-Tank controller is designed to help keep your boat lift level during lifting & lowering.

**LIFTING:** process will start filling the outside tanks first to keep the lift stable left to right while rising. After the desired offset time, the center tank will join and start filling.

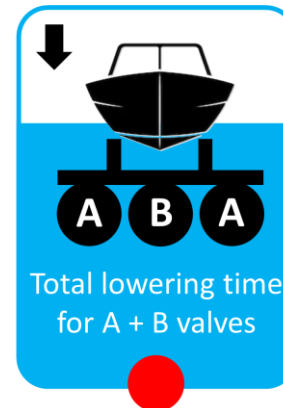
**LOWERING:** process will release air from the center tank first to keep the lift stable left to right on the outside tanks. After the desired offset time, the outside tanks will join by releasing air.

**NOTE:** depending on the stability of the lift & dock the offset time of each lift may vary: Narrow lifts with taller boats may require longer offset times than shorter boats on wider lift setups. Each lift and boat has a different setup. It is best to error on the side of caution and keep a slightly longer off-set time until you are comfortable with the timers & operation.

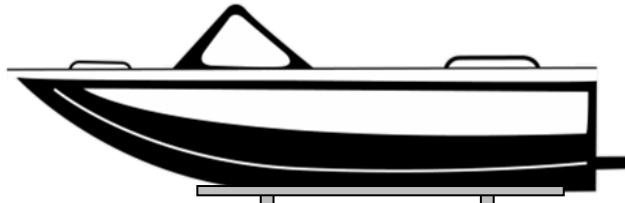
## LIFTING TIMERS



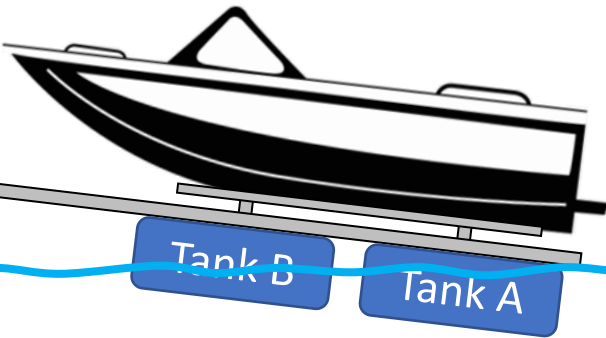
## LOWERING TIMERS



# 2-Tank Programming (Front-To-Back)



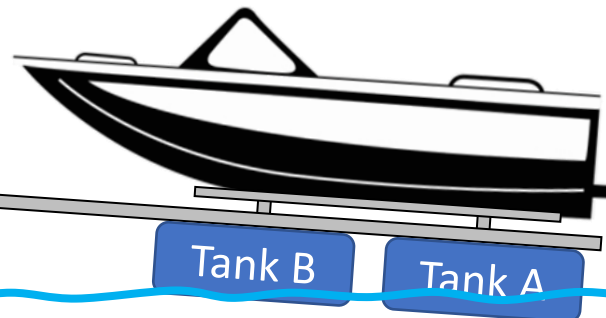
Example Front Style  
Boat lift with front  
& rear tanks:



**PROBLEM ISSUE WITH:** (Both tanks tied together)  
Naturally, the air will flow to the tank with the LEAST resistance/weight. This may cause the lift to remain at high tilt angle longer than necessary.

**PROBLEM LIFTING:** the front tank B will naturally fill first followed by rear tank A.

**PROBLEM LOWERING:** the rear tank A will naturally lower first until front tank B follows.



**SOLUTION:** (Separating front & rear tank hoses)  
The rear tank A is filled first (partially or fully) before filling the front tank B.

**LIFTING:** the rear tank A will start filling first helping to correct the angle of the boat quickly. After desired time offset front tank B will start lifting as well.

**LOWERING:** The front tank B will start to release air lowering first. After desired time offset rear tank A will start lowering as well.

# Controller Features

**Solar Icon**  
Indicates solar panel is charging:  
NOTE: will not display at nighttime

**Battery Icon**  
Indicates battery is connected

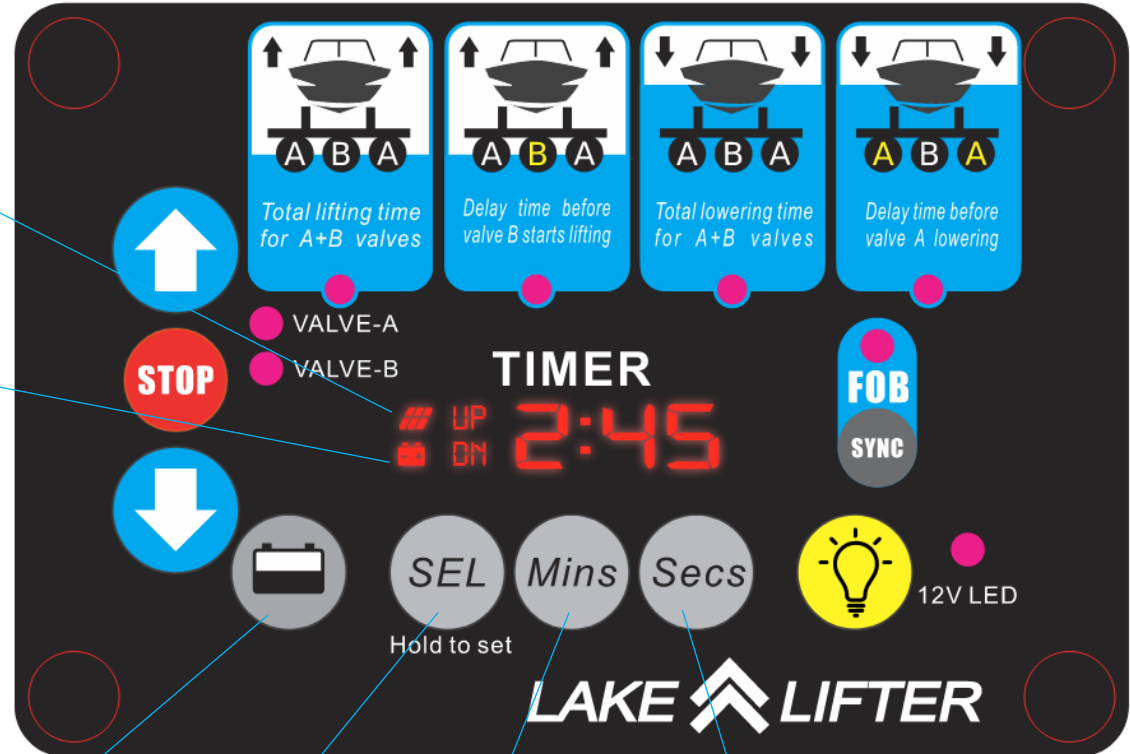
**Battery Info:**  
% Percentage  
V Voltage

**SEL**

Short Press: Toggles between UP/DN timers  
Long Press: Enter program timer mode (flashing)  
Long Press Again = Set timer, or wait until timer stops flashing.

## LIFTING TIMERS

## LOWERING TIMERS



**Mins**

Increases timers by 1:00  
UP to 20:00 then returns to 0

**Secs**

Increases timers by 0:05  
UP to 00:55 then returns to 0