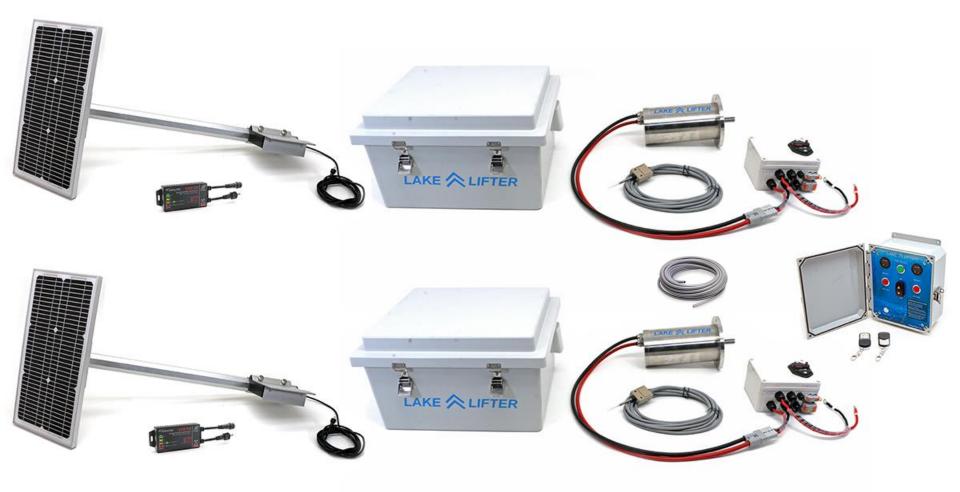


Instructions Wiring & System Diagrams



ELECTRONIC BRAKING NOTICE

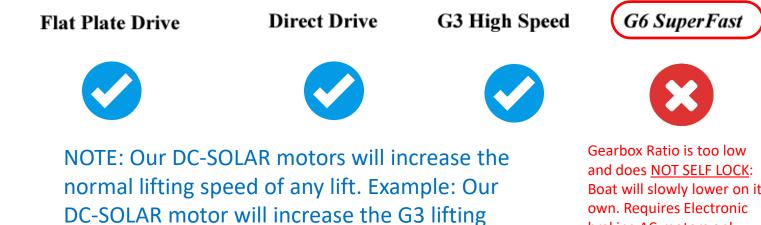
Compatibility Issue



NEPTUNE BRAND G6 SUPER FAST LIFT (GEARBOX ISSUE) **Neptune Boat Lifts**

speed to near G6 lifting speeds.

4-Post Lifts 4,500 lbs. 7,000 lbs. 10,000 lbs. 13,000 lbs. 16,000 lbs. 20,000 lbs. 24,000 lbs. 30,000 lbs.



Boat will slowly lower on its own. Requires Electronic braking AC-motors only: Does Not work with DC-SOLAR SYSTEM



IMPORTANT: BATTERIES ARE THE LAST CONNECTIONS MADE!

Signal wires will be LIVE if batteries are connected and will likely result in a short connection when you are working with and routing signal wires to the master control box.

Keep batteries disconnected while installing the system, running wires & connections.

DUAL MOTOR (LEFT / RIGHT) System Model: 2M-L/R







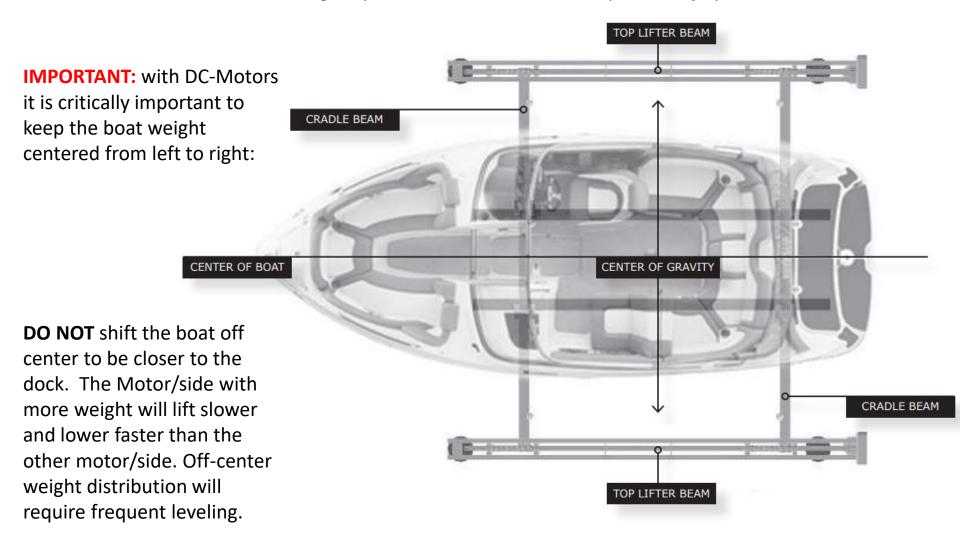








The weight of your boat **MUST BE EVENLY DISTRIBUTED ON THE BEAMS** to ensure your safety and longevity of your lift. Consult the boat manufacturer for lifting points and center of gravity on your boat. Inspect lifting cables for damage and make sure that they are spooled properly to prevent shock or impact loads from damaging your boat or lift. This could result in structural or mechanical damage to your lift or boat as well as cause personal injury or death.

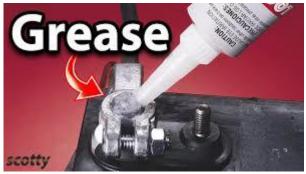


IMPORTANT: Electrical Connections



Electrical grease will protect and prolong electrical connections.

- Use dielectric grease to fill each motor and battery connector before connecting.
- Use dielectric grease on battery terminals.







IMPORTANT: Greasing Motor/Gearbox



EPOXY MOTOR



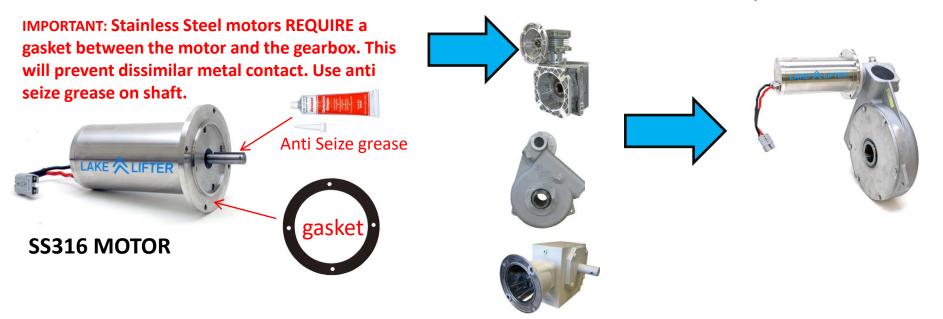
Install the motor on the boat hoist gear box: Gearbox style & type vary based on brand. The Lake Lifter motor is a 56C frame style which fits all boat lift enclosed style Gearboxes.

IMPORTANT: use grease on the motor face and shaft before installing. This will make future removal easier if necessary.



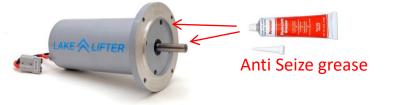


Example Installations



IMPORTANT: Greasing Motor/Gearbox





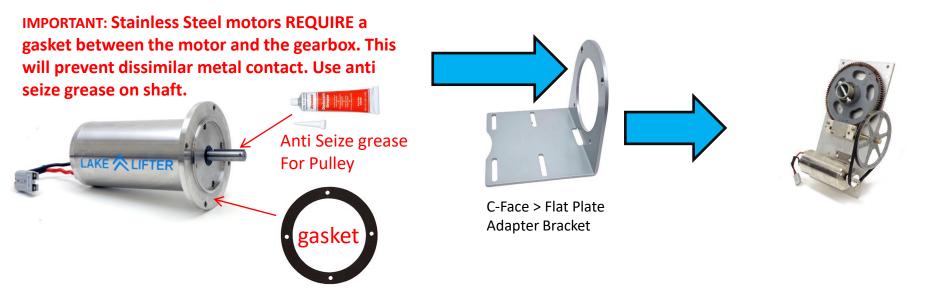


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C-Face > Flat Plate Adapter Bracket





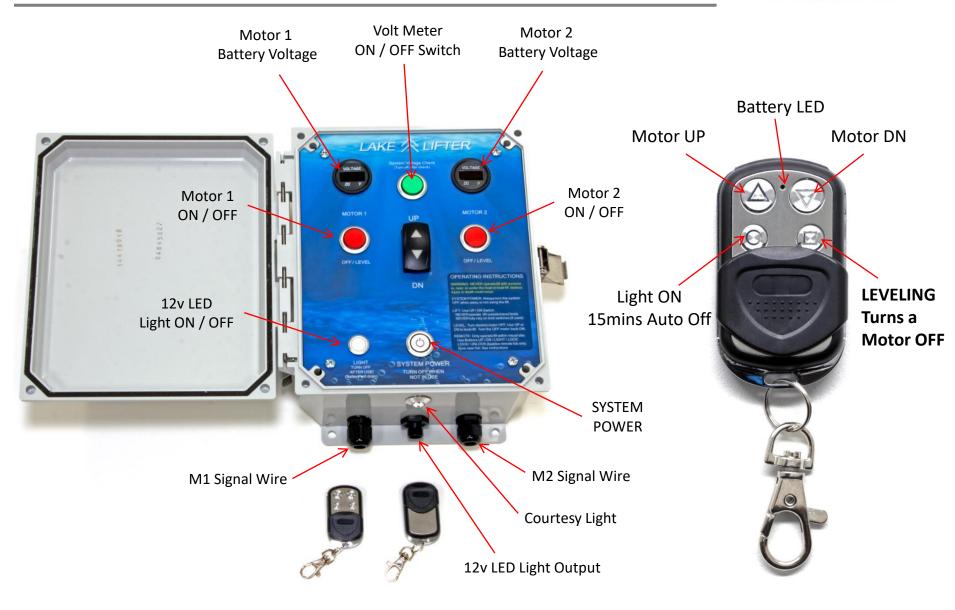
Master Control Box Overview





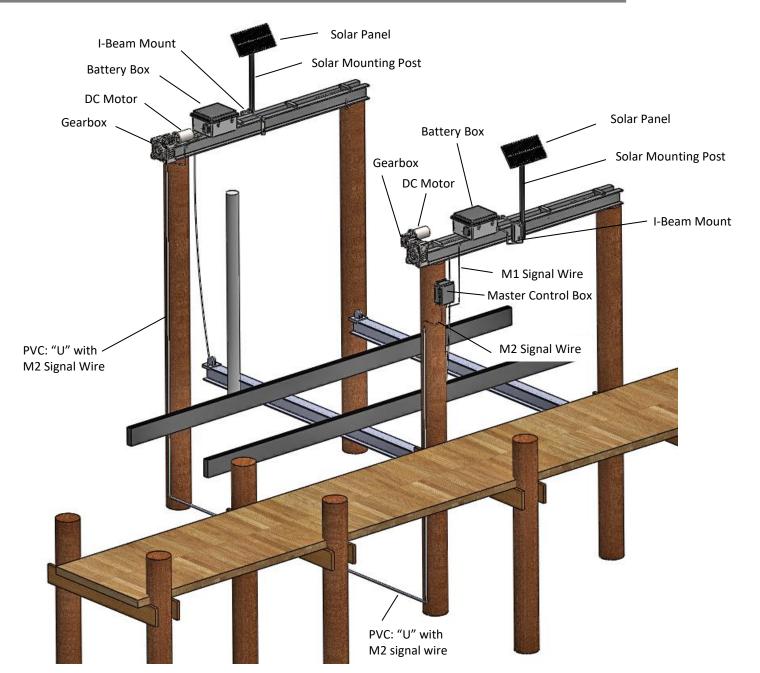
Control Box & Fob Switches & Buttons





Typical System Install & Layout



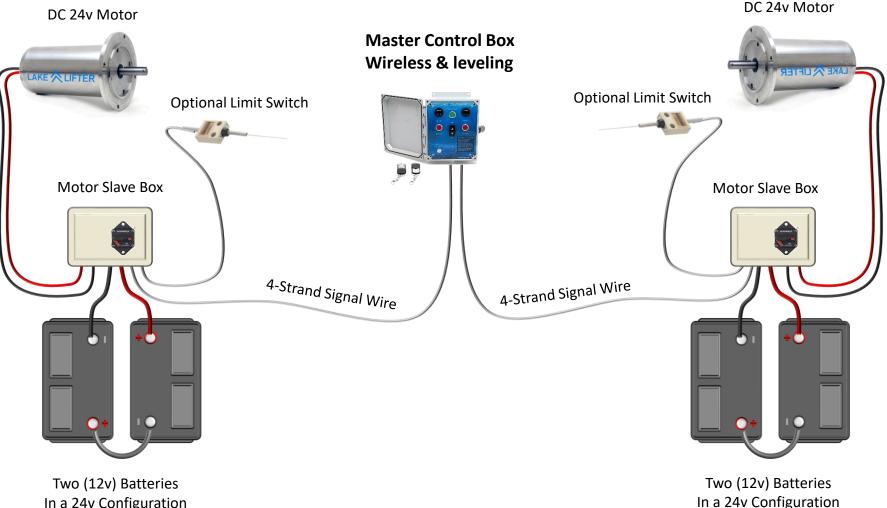






IMPORTANT: BATTERIES ARE THE LAST CONNECTIONS MADE!

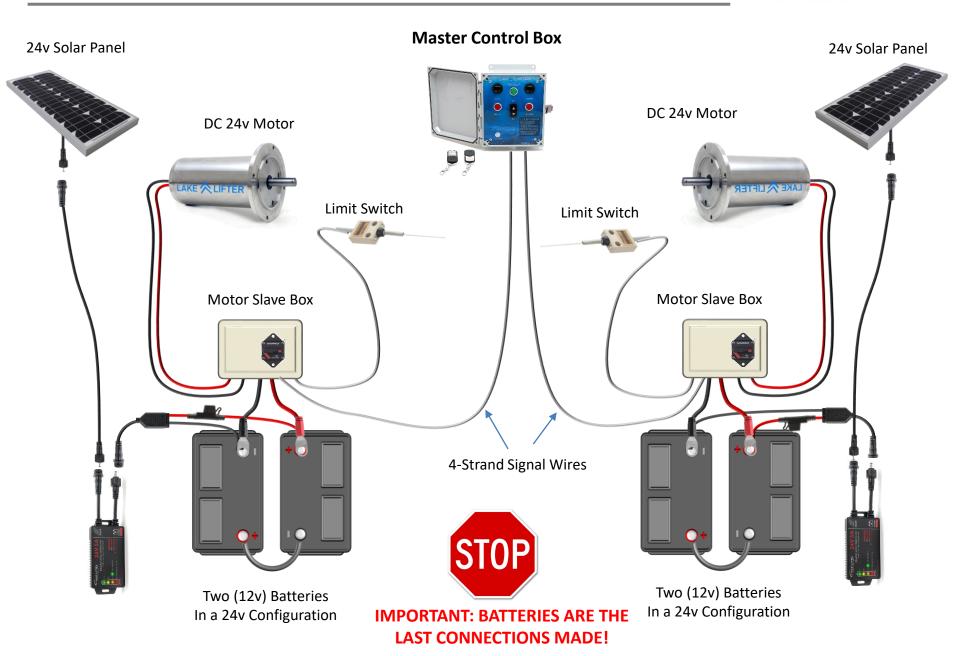
Signal wires will be LIVE if batteries are connected and will likely result in a short connection when you are working with and routing signal wires to the master control box. Keep batteries disconnected while installing the system, running wires & connections.



In a 24v Configuration

Motor & Solar Connection Diagram





Connecting signal wires in master control box



Cut the motor signal wires to the necessary length for each motor. Insert the signal wires through the cable glands and connect them to the circuit board as shown.



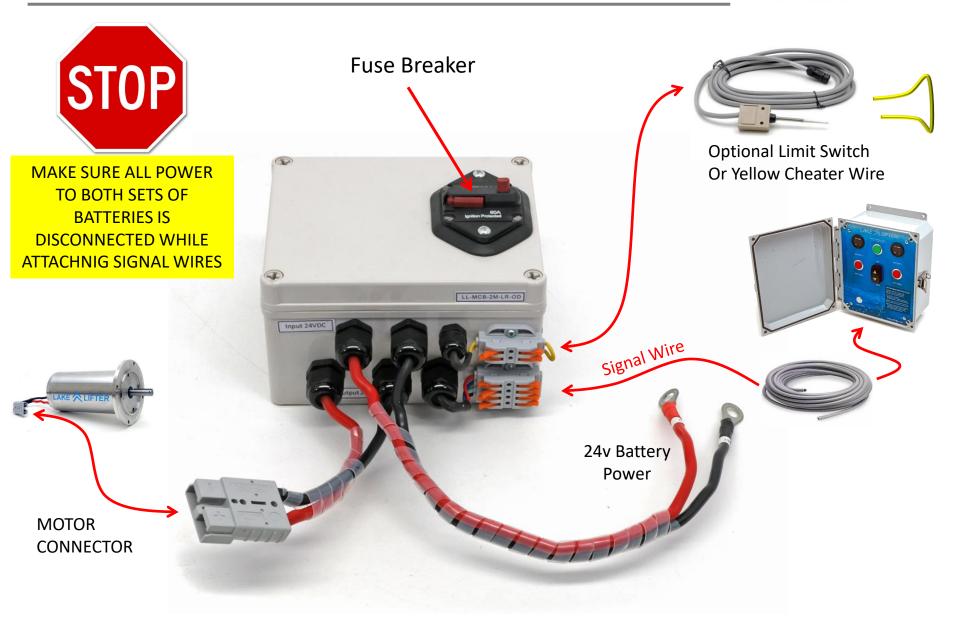
MAKE SURE ALL POWER TO BOTH SETS OF BATTERIES IS DISCONNECTED WHILE ATTACHNIG SIGNAL WIRES!

Motor Signal Wire

Motor Signal Wire

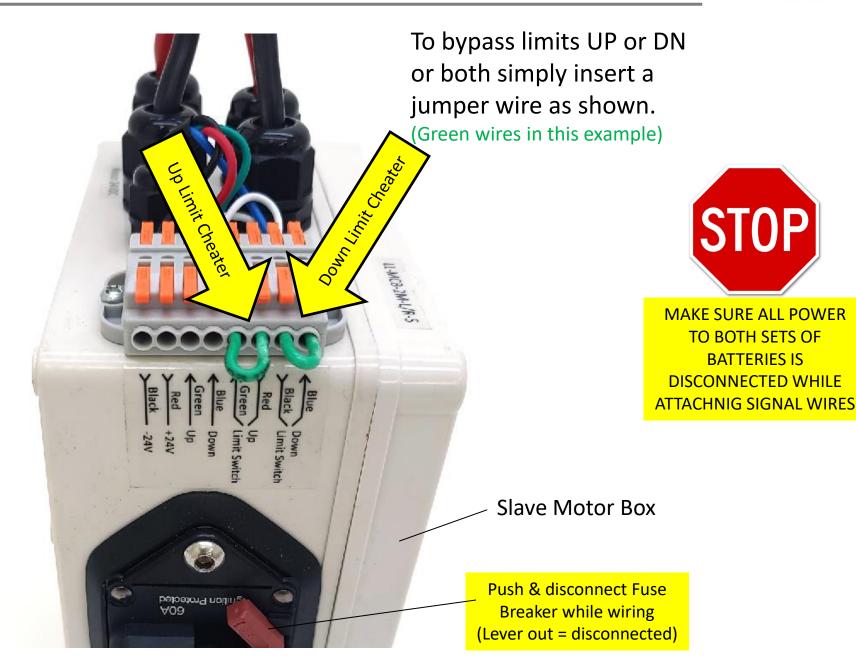
SLAVE MOTOR BOX





SLAVE MOTOR BOX – Excluding Limits







The lift beams will vary in size & shape. User is responsible for mounting the battery box securely to the beams. Self taping screws or bolts & nuts are recommended. (Not Provided). Consider the placement & position of the batteries so they are NOT resting on top of your mounting hardware!

Less than 4ft



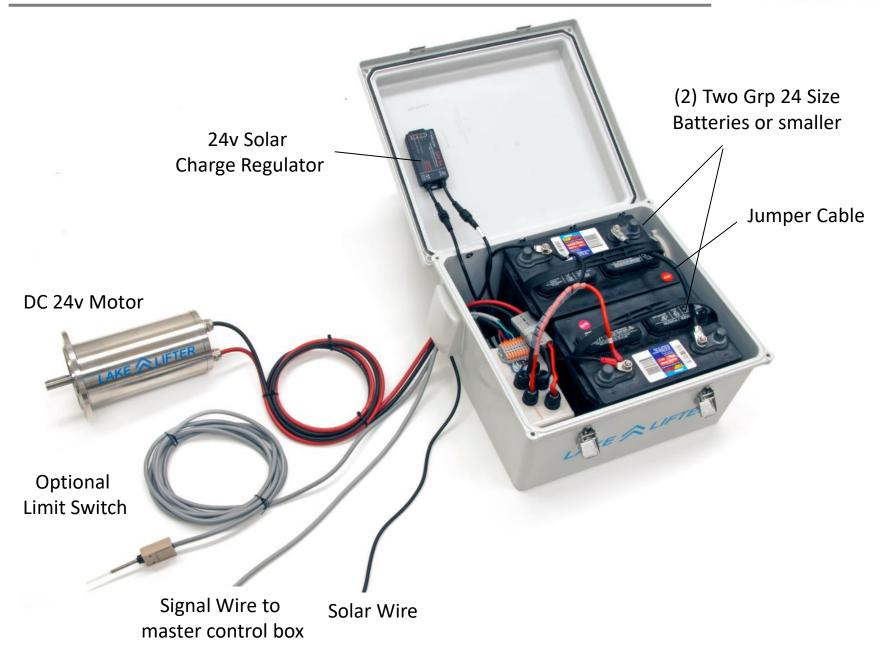
IMPORTANT: Mounting Holes & hardware should be positioned to the outermost areas of the box. This way the Batteries are not resting on top of the screws or bolts!

NOTE: Test fit batteries & slave box inside the box and mark 4locations to drill holes through the box for mounting hardware.

NOTE: The box features 4-predrilled drain holes in the outer most corners. DO NOT BLOCK or use these 4 holes for mounting. You must drill 4 separate mounting holes and use appropriate hardware to fit you lift beams correctly.

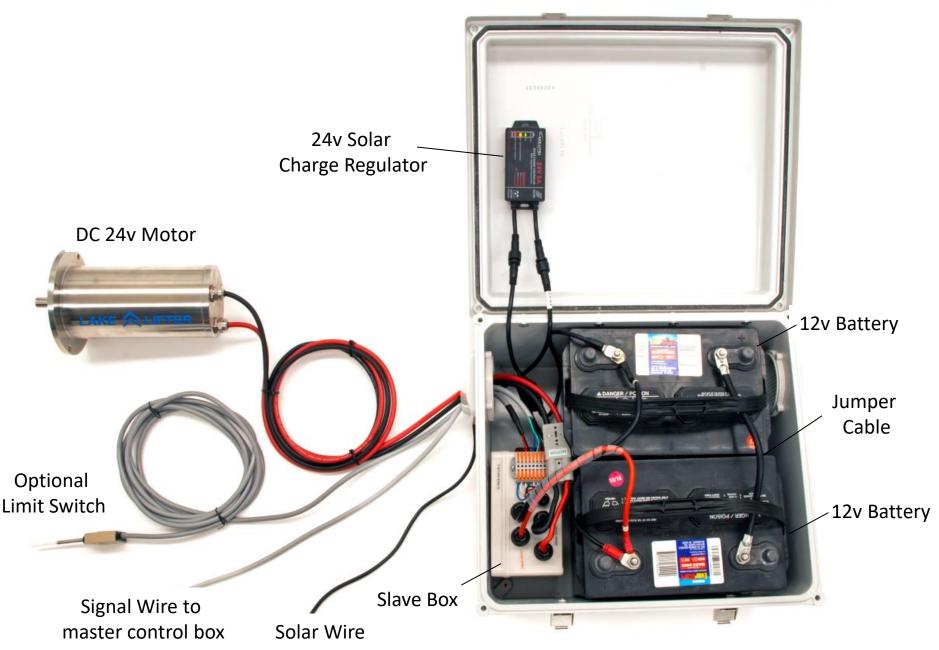
Battery Box with Slave Box & Solar Regulator





Battery Box with Slave Box & Solar Regulator





Reversing / Changing Motor Direction

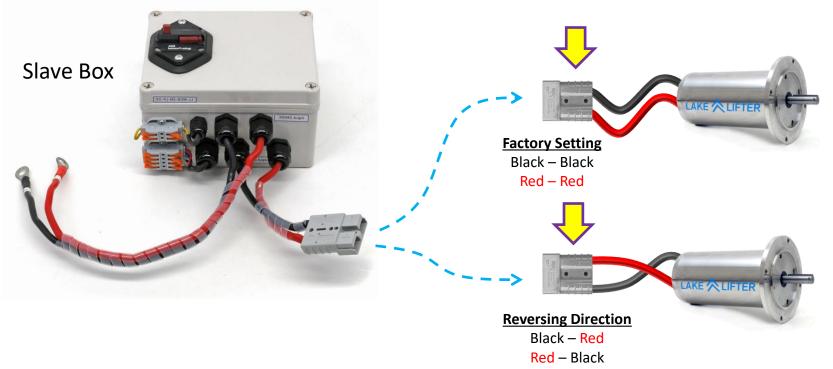


Depending on the cable wrapping direction you may need to change the operating direction of the motor from the factory setting.

IMPORTANT: this may only be done at the MOTOR connector



Use small thin object to push spring tab down and remove contacts from connector. Reverse Red/Back wires and re-insert into connector



Limit Switch Installation: Flat Plate Gearboxes





IMPORTANT: Install the limit switch in a location that will trip when the desired amount of cable has been spooled.

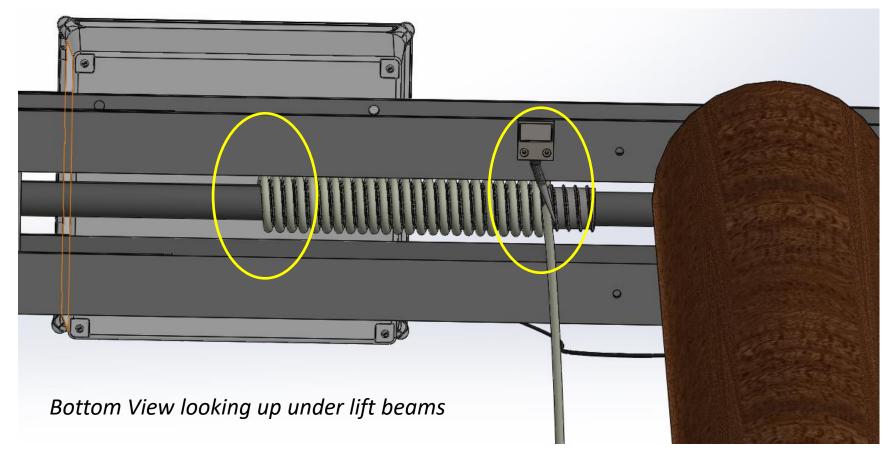
NOTE: Every boat lift configuration is different and it is the responsibility of the user to determine the best installation method and placement.



UPDATE: <u>DO NOT</u> install the limit switch where it will be tripped by the boat lift carriage. Continual non-stop movement of the carriage via wind will eventually wear out the limit switch. For longevity we recommend installing the limit switch where the cable is spooled.

IMPORTANT: NEVER rely on the limit switch. The limit switch is a last resort safety device. Operator should always pay close attention when operating the boat lift.





IMPORTANT: Install the limit switch in a location that will trip when the desired amount of cable has been spooled. Depending on the lift construction style (Walk over beams) or (Walk under beams) you may want to use the limit switch as an UP LIMIT or a DN LIMIT.

NOTE: Every boat lift configuration is different. User is responsible to determine the best installation and placement.

IMPORTANT: NEVER rely on the limit switch. The limit switch is a last resort safety device. Operator should always pay close attention when operating the boat lift.

Limit Switch Installation: I-Beam Lifts







Spring Limit Switch

WALK UNDER BEAMS STYLE LIFT

On this style lift the user walks UNDER the I-Beams to enter/exit the boat. The carriage of the boat is not lifted anywhere near the height of the I-Beams. For this reason many users may prefer to use the limit switch for the DN direction to stop the cable from slacking when the carriage is at the lowest point or worse, unraveling and winding UP in the wrong direction. With purchase of additional limit switches you may use one for both UP & DN limits.



WALK OVER BEAMS STYLE LIFT

On this style lift the user walks OVER the I-Beams to enter/exit the boat. The carriage of the boat is often lifted very near under the I-Beams. For this reason many users may prefer to use the limit switch for the UP direction to stop the carriage from hitting the I-Beams. With purchase of additional limit switches you may use one for both UP & DN limits.

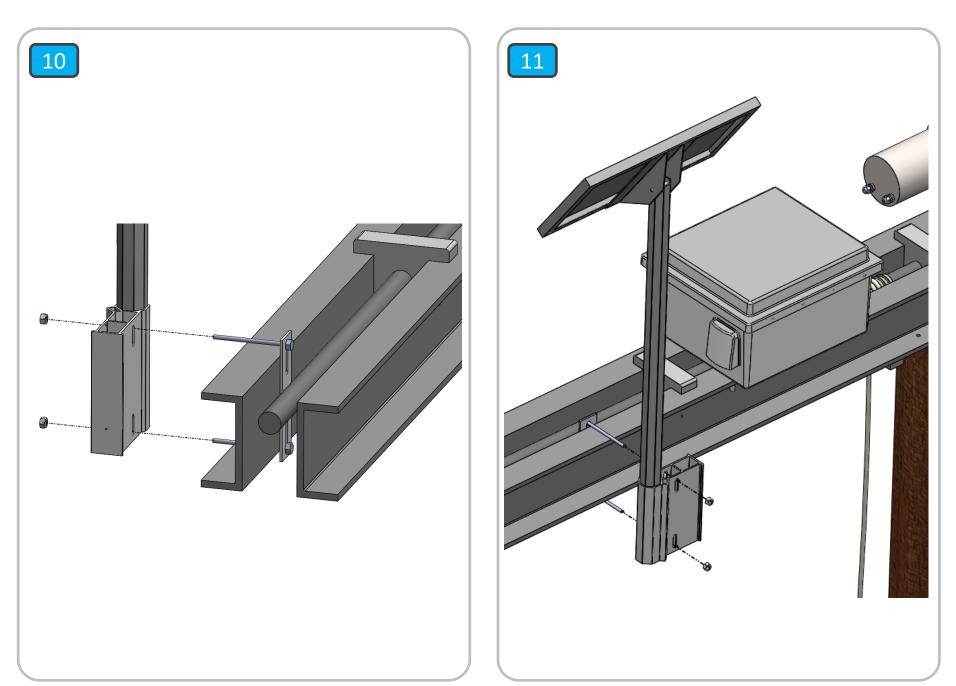
LAKE LITE – SOLAR PANEL MOUNTING KIT

Models: LL-SPMA-HD-XX 12" / 36" / 48" / 72"



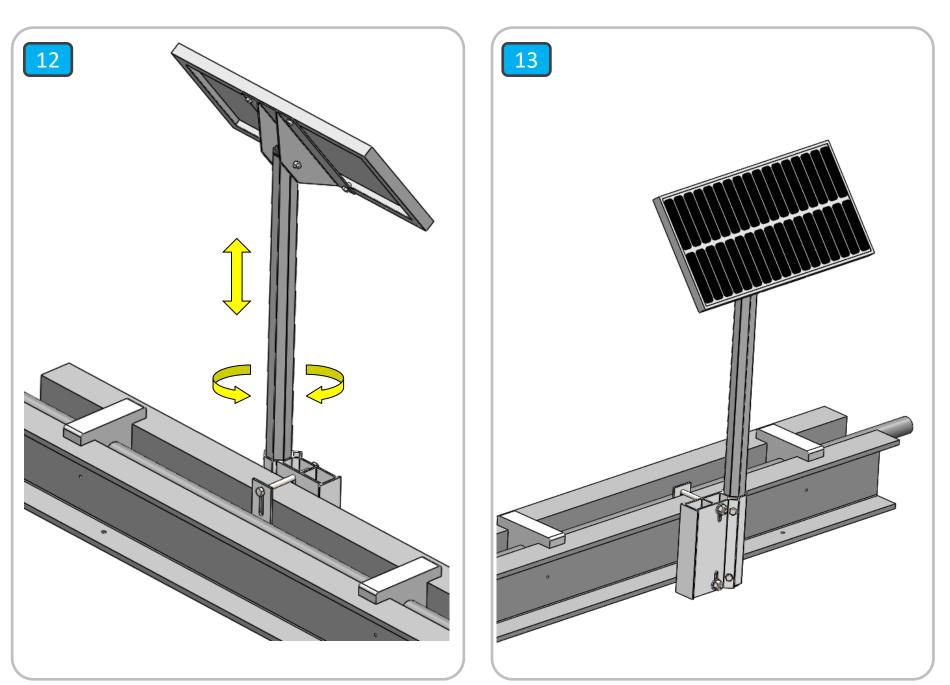
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LAKE LITE – SOLAR PANEL MOUNTING KIT

Models: LL-SPMA-HD-XX 12" / 36" / 48" / 72"



UPDATES FOR LEGACY SYSTEMS

UPDATE SURGE PROTECTION NOTICE

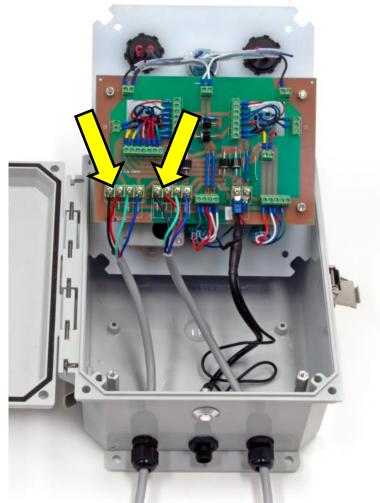
To protect your system from unintended operation due to electrical surges, static, & nearby lighting strikes you <u>MUST</u> install two surge protectors as shown below:

Install the surge protectors between the positive & negative terminals of both **M1** and **M2** inside the master control panel. Failure to install these will void the control panel warranty. DO NOT DELAY! *Note: Disconnect battery power before installing.*

NOTE: For best protection always turn the system OFF while not in use for extended periods of time.

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L/R-CBP01







Surge protectors