



DC POWERED BOAT LIFT MOTORS

Wiring & System Diagrams

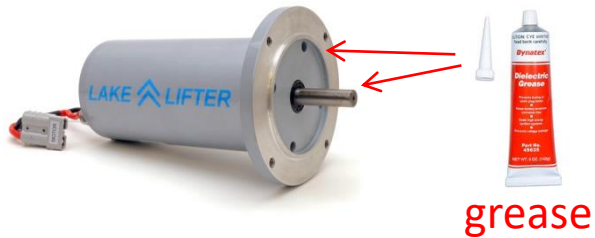
IMPORTANT: Electrical Connections

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.

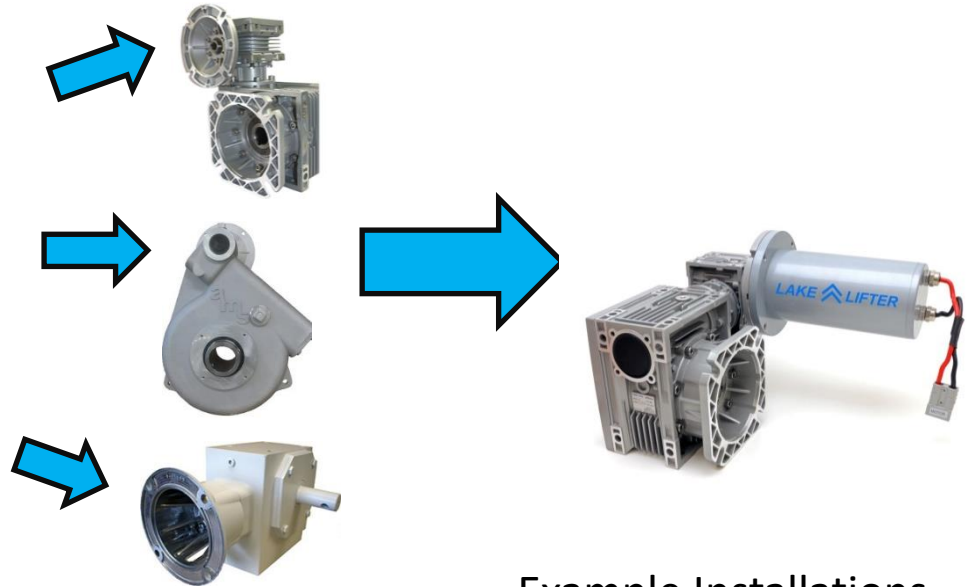


IMPORTANT: Greasing Motor/Gearbox



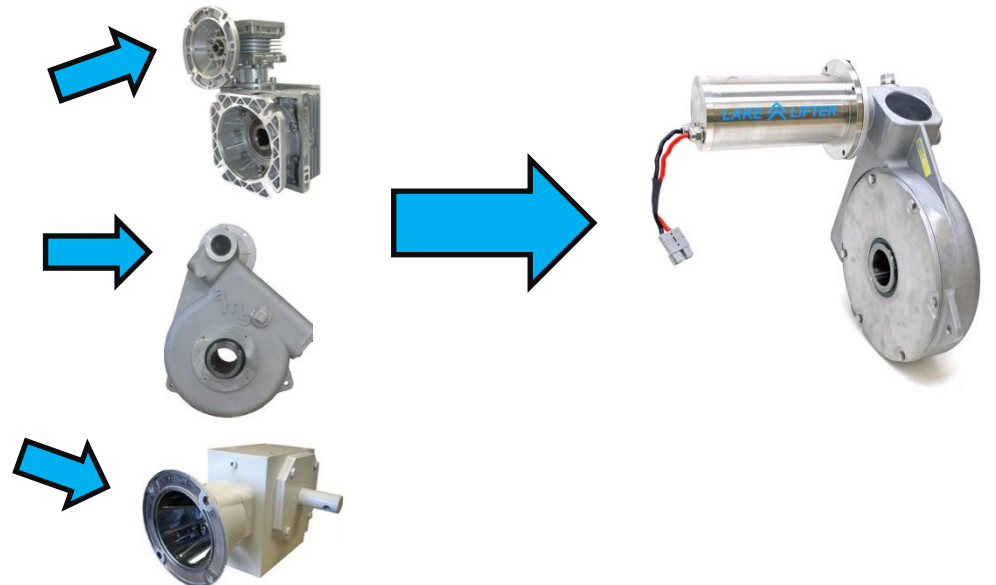
Install the motor on the boat hoist gear box: Gearbox style & type vary based on brand. The Lake Lifter motor is a 56C frame style which fits all boat lift enclosed style Gearboxes.

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

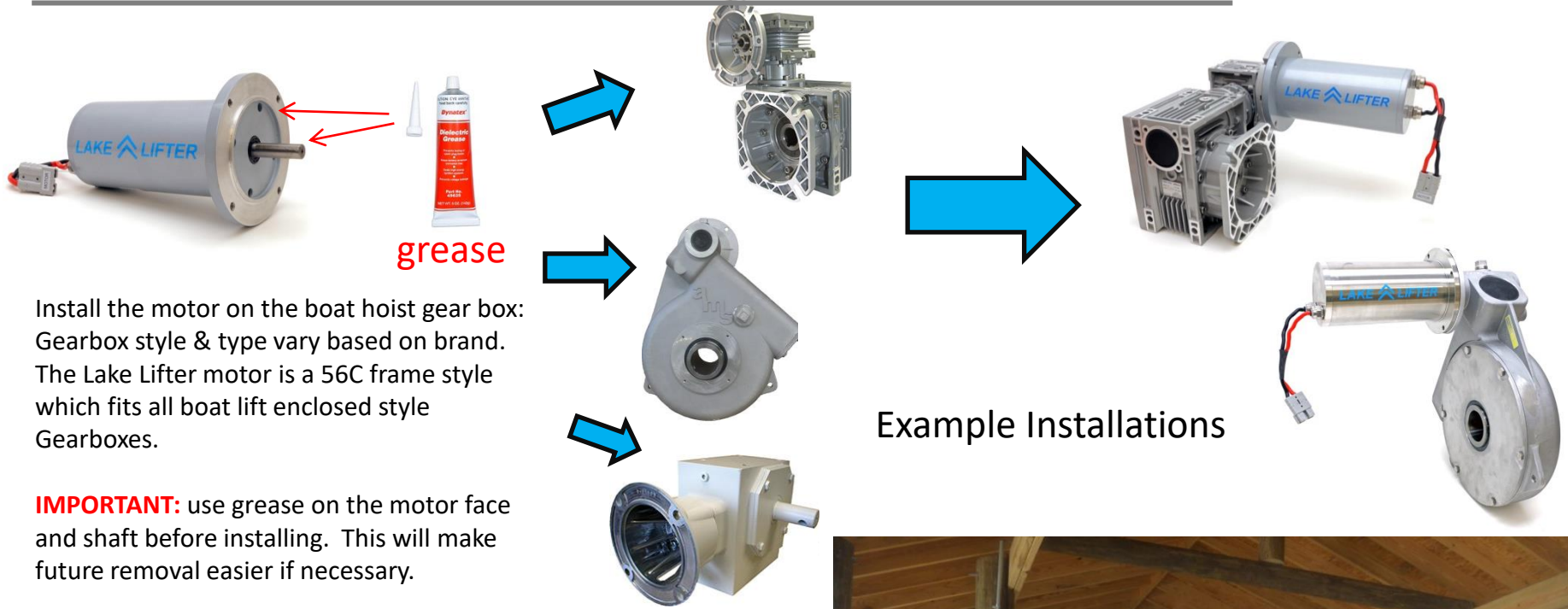


Example Installations

IMPORTANT: For Stainless Steel motor make sure to use the motor gasket between the motor and the gearbox. This will prevent dissimilar metal contact.



IMPORTANT: Greasing Motor/Gearbox



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.

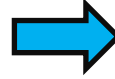
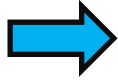
IMPORTANT: use grease on the motor face
and shaft before installing. This will make
future removal easier if necessary.



Install both batteries, control box,
battery connectors, and excess wiring
in the fiberglass battery box



Example Installation



Install the motor on the boat hoist

Example Installation



Install both batteries, control box, battery connectors, and excess wiring in the fiberglass battery box



Example Installation

NOTE: Limit Switch & Cheater

The Motor will NOT operate in the UP direction without the limit switch or the limit switch cheater plugged into the control box



Limit Switch

OR



Cheater



Wireless Key Fob & Wall Switch

Switch cover may be removed and flipped for wire exit bottom or wire exit top

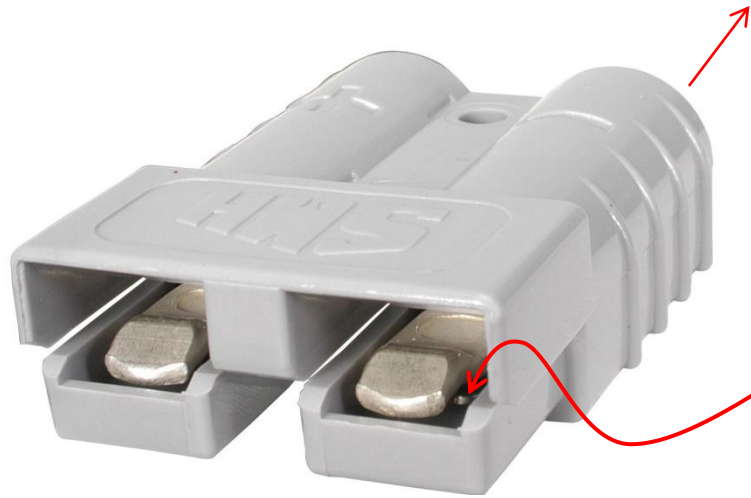
UP/DN directions may also be reversed by switching the wires inside



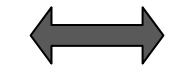
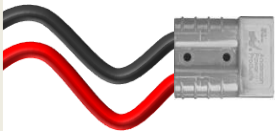
Reversing Motor Direction

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

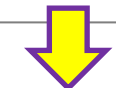
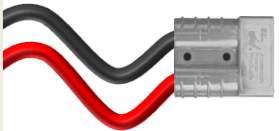
IMPORTANT: this may only be done at the MOTOR connector



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

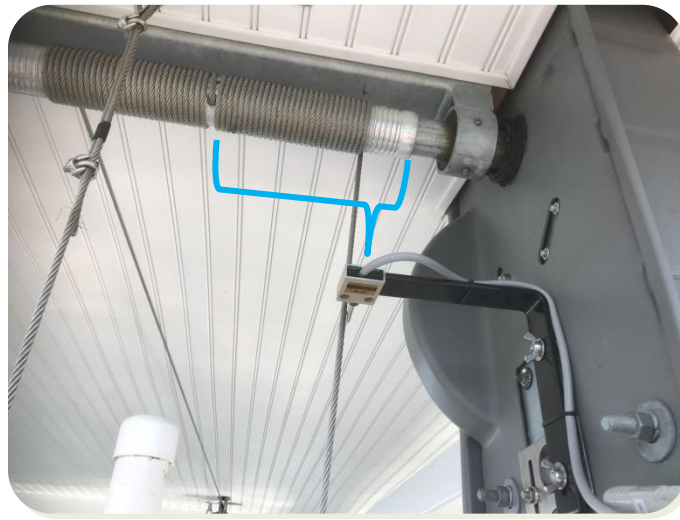


Factory Setting
Black – Black
Red – Red



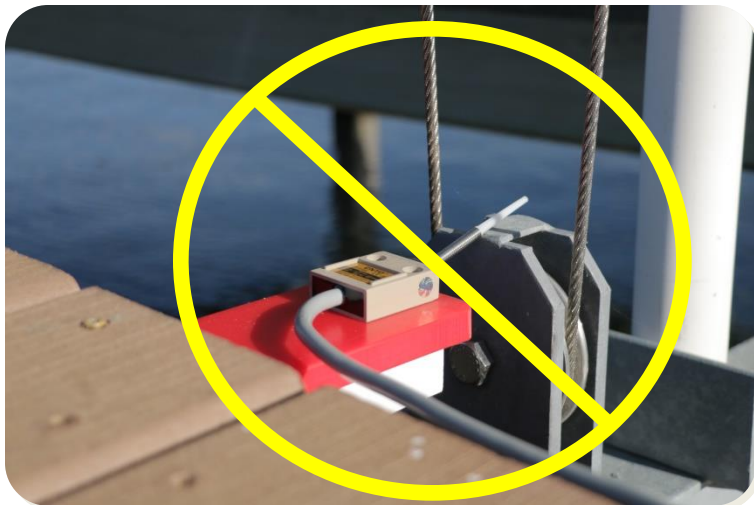
Reversing Direction
Black – Red
Red – Black

Limit Switch Installation



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

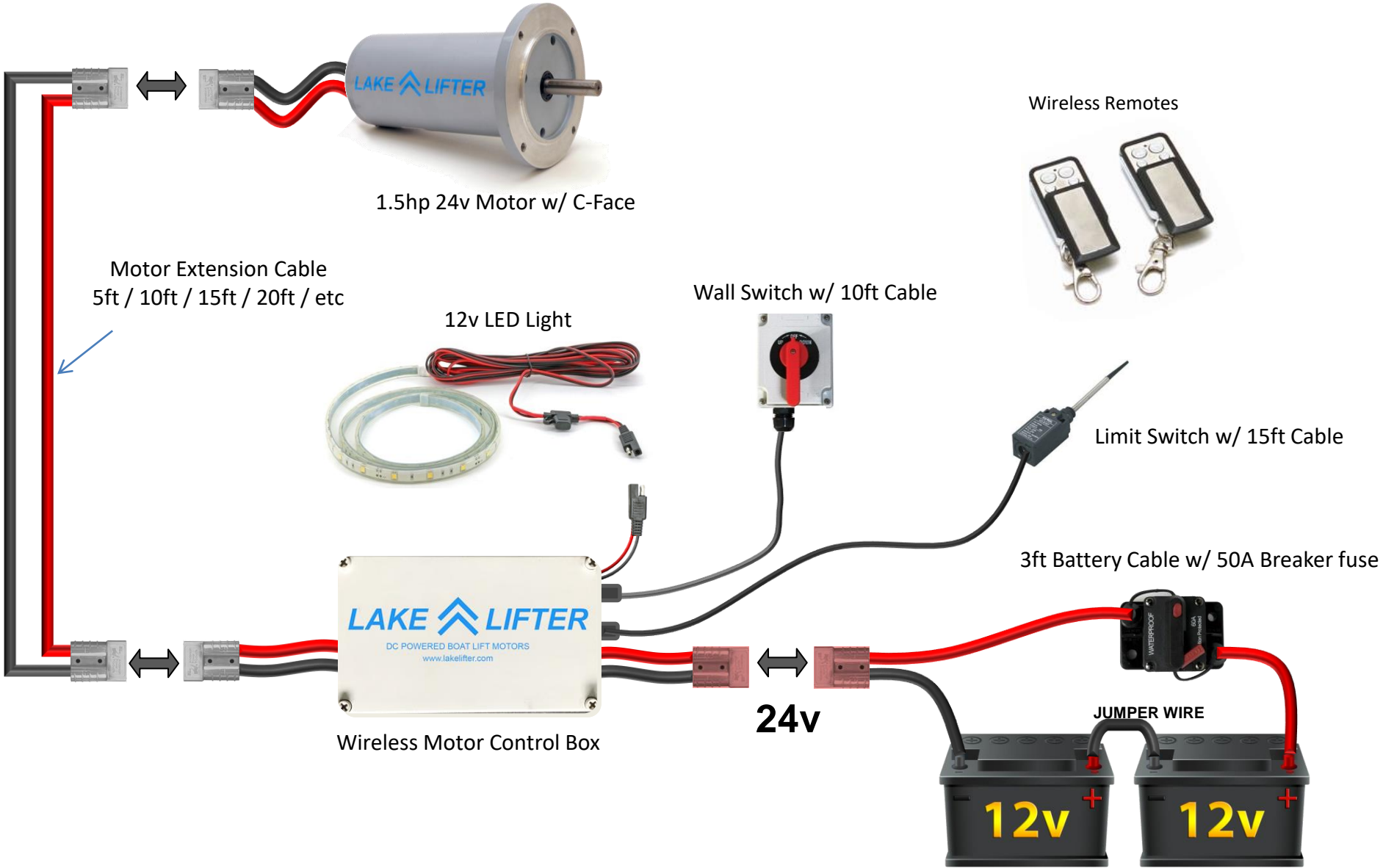
NOTE: Every boat lift configuration is different, and it is the responsibility of the user to determine the best installation method and placement.



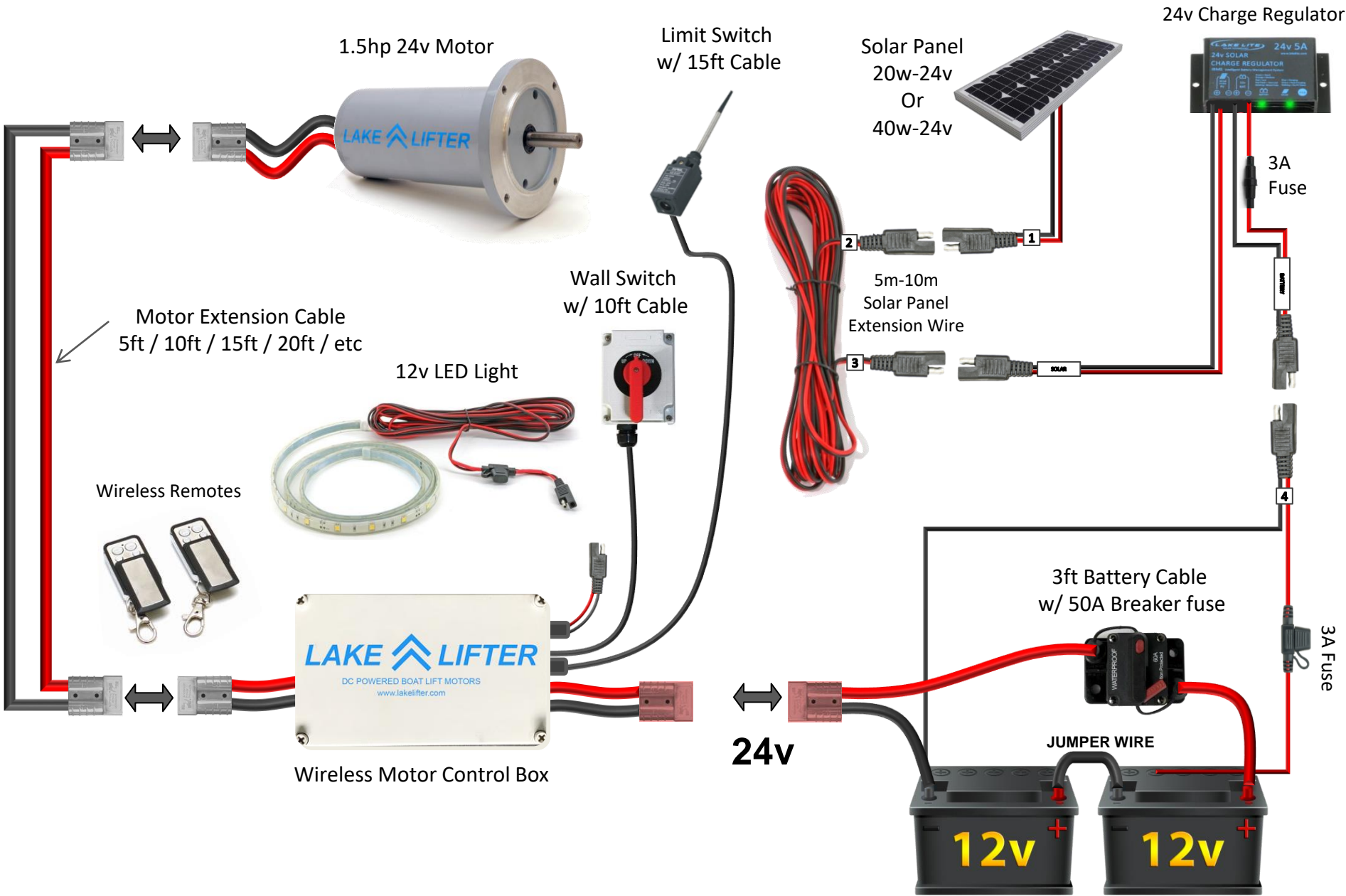
UPDATE: DO NOT install the limit switch where it will be tripped by the boat lift carriage. Continual non-stop movement of the carriage via wind will eventually wear out the limit switch. For longevity we recommend installing the limit switch where the cable is spooled.

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.

MOTOR SYSTEM DIAGRAM



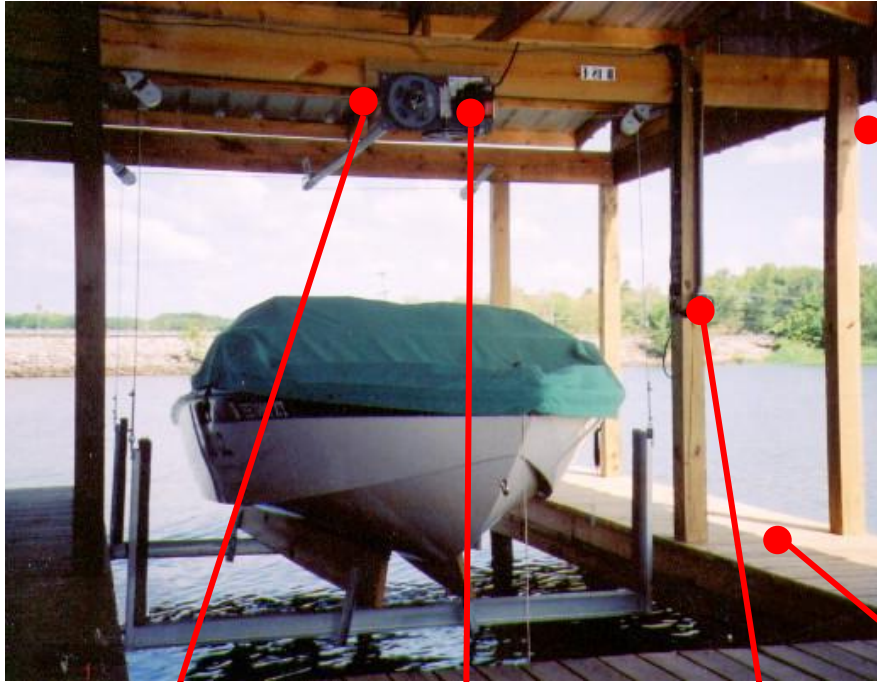
COMPLETE SYSTEM DIAGRAM



SYSTEM OVERVIEW

LAKE LIFTER

DC POWERED BOAT LIFT MOTORS



Solar Charging Kit (Roof or post mount)



Two 12v Batteries not included

Wireless Control Box, 2 Key Fobs, Charge Regulator
Two Battery Indicators, Jumper Cable, Battery Box



Limit Switch
(Optional)



DC 24v Motor



Wall Switch
(Optional)

SYSTEM OVERVIEW

LAKE LIFTER

DC POWERED BOAT LIFT MOTORS



Solar Charging Kit (Roof or post mount)



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Limit Switch



DC 24v Motor



Wall Switch (Optional)

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