



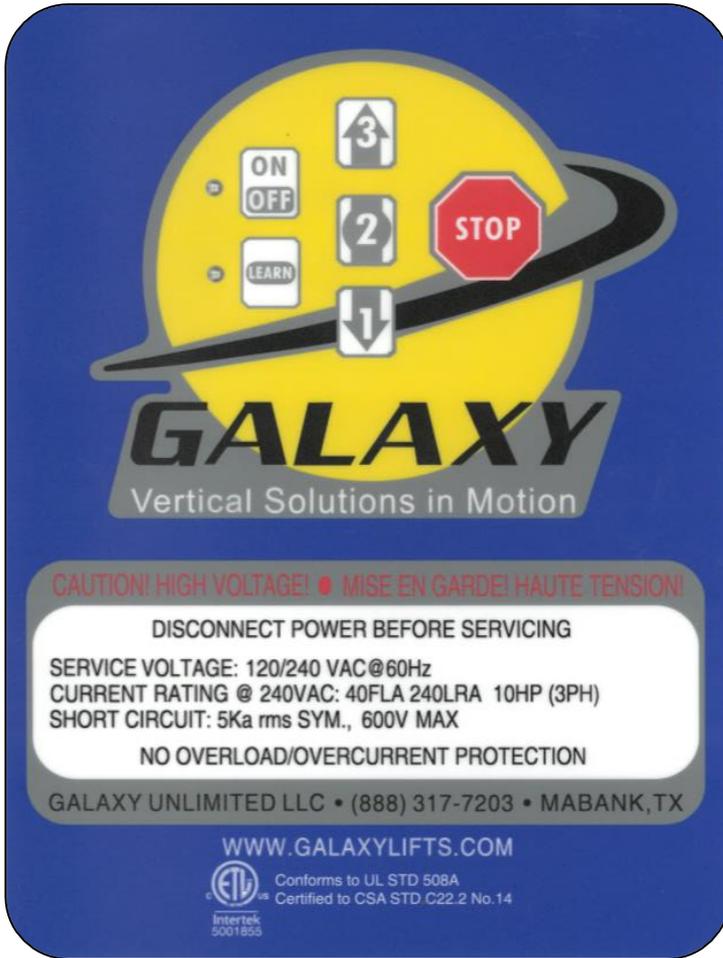
GALAXY

Vertical Solutions in Motion

Control Box Wiring Guide

For Normally Closed Limits G8 and Up

Gel Pad Buttons and Functions



The Gel Pad is the Primary control center for your lift. Here you can turn your unit off and on, send the unit to its levels or stop travel in any direction. The remotes are also programmed from the Gel Pad.

On 2-stop Lifts, or lifts for marine applications the “2” button is not used; simply use the arrows to control your direction.

Remote Functions and Programming

Your remote and Gel Pad can be programmed for either Momentary or Latching Modes.

Momentary: You must hold the button down for the lift to move

Latching: Press and release the button and the lift will travel until you stop it, or it reaches its limit.

***** For marine and other applications where limits are not used the controller must be used only in momentary mode. It is unsafe to operate these units in latching mode; it is also against NEC code! *****



Momentary

You MUST move quickly during this process!

Please read through instructions thoroughly before starting. The control board will exit the programming mode after 7 seconds of inactivity; you may have to practice the steps a few times before programming your remote successfully.

1. Have all remotes present
2. Press and hold the learn button on the gel pad until the green LED beside the button lights up (approximately 3 seconds)
3. Press either the up or down button on your remote, you will see a corresponding flash from the learn LED
 - **Additional Remotes:** Repeat this step with each remote
4. Give the learn mode about 10 seconds to expire, you will see a rapid flash from the Learn LED
5. Now test the remote(s) to see if the programming was successful!

Latching

You MUST move quickly during this process!

Please read through instructions thoroughly before starting. The control board will exit the programming mode after 7 seconds of inactivity; you may have to practice the steps a few times before programming your remote successfully.

1. Have all remotes present
2. Press and hold the learn button on the gel pad until the Green LED beside the button lights up (approximately 3 seconds)
3. Press either the up or down button on your remote, you will see a corresponding flash from the learn LED
 - **Additional Remotes:** Repeat this step with each remote
4. Press either up or down on the remote again
 - **Additional Remotes:** No further actions required on this step
5. You should see a corresponding flash on the learn LED that is **quicker** this time
6. Give the learn mode about 10 seconds to expire, you will see a rapid flash from the Learn LED
7. Now test the remote(s) to see if the programming was successful!



240 Volt Standard Lift Wiring

This diagram is only for 60Hz 240VAC. Verify line in voltage before connecting. If you are not sure of the operation and/or installation of this unit, contact an electrician or contact our office. Galaxy Unlimited, LLC is not responsible for incorrect field wiring, damages to equipment or harm to anyone or anything. Incorrect field wiring will void warranty.

Motor Wiring:

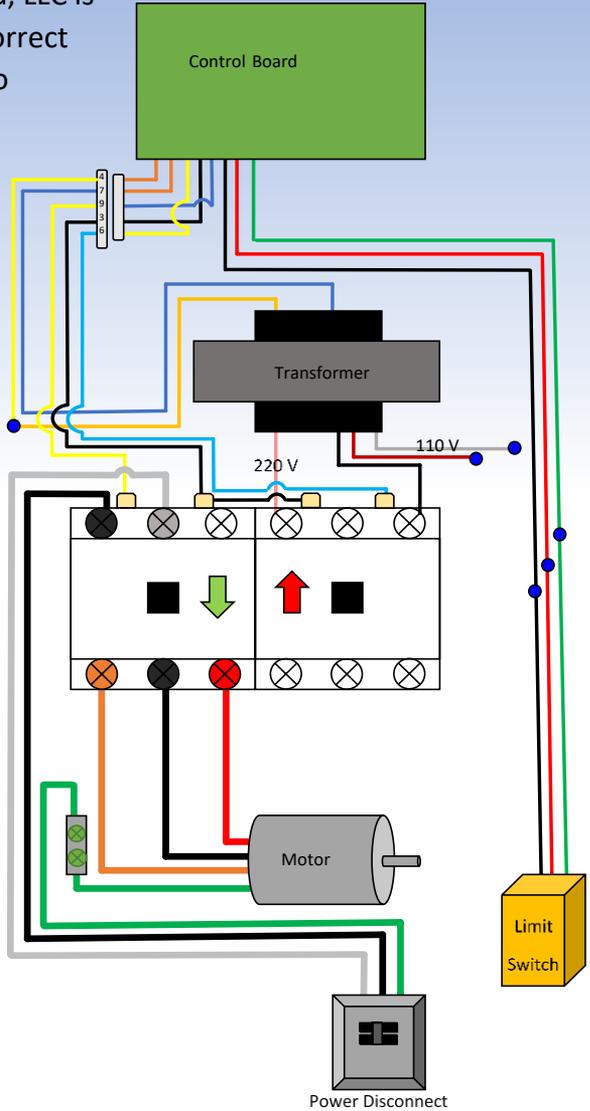
Black: T1

Orange: T4

Red: T5

Join: T2, T3, T8

*If up and down are reversed for your application, swap **Motor Orange** and **Motor Black** in the control box.



120 Volt Standard Lift Wiring

This diagram is only for 60Hz 120VAC. Verify line in voltage before connecting. If you are not sure of the operation and/or installation of this unit, contact an electrician or contact our office. Galaxy Unlimited, LLC is not responsible for incorrect field wiring, damages to equipment or harm to anyone or anything. Incorrect field wiring will void warranty.

Motor Wiring:

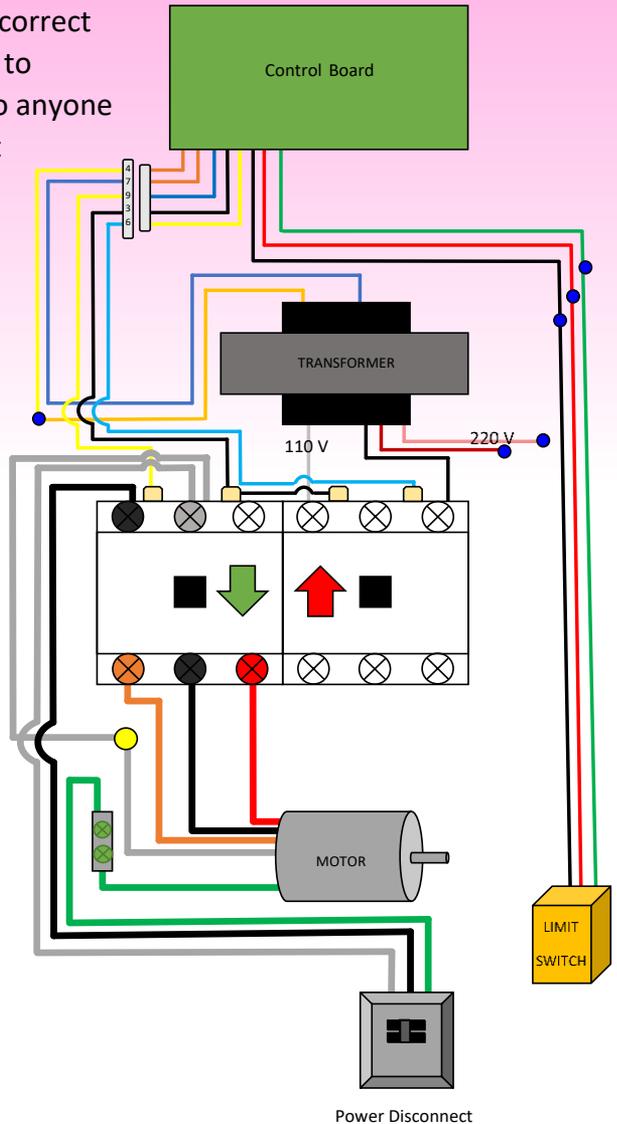
Black: T1, T3

Orange: T2, T4

Red: T5

White: T8

*If up and down are reversed for your application, swap **Motor Orange** and **Motor Black** in the control box.



Limit Switch Setup for NC-G8 and above controllers.

1. The limit switch wires from the control board come tied together, this bypasses the limits. At this stage the lift will not stop automatically, you will have to stop the lift with the remote, gel pad or by killing power. Verify that the lift does indeed go up and down with the remote



and gel pad. On a 2-stop these are the three wires (five for 3-stop) with wire nuts coming off the control board. Separate these wires. Then, connect these wires to your limit switch cord, color to color. The necessary blue wire nuts will be in the bag with the control box mounting hardware.

- a. Red: Limit for the top stop. When disconnected from the black wire, the lift will not go up.
- b. Green: Limit for the bottom stop. When disconnected from the black wire, the lift will not go down.
- c. Black: Common signal wire. When disconnected, the lift will not move.
- d. Blue: (3-stop only) Middle limit going up. To set you must be sending the lift from the bottom limit after each adjustment.
- e. White: (3-stop only) Middle limit going down. To set you must be sending the lift from the top limit after each adjustment.

Limit Switch Setup Continued

2. Remove the cover of the limit switch by loosening the four large screws.
3. While observing cams of the limit switch raise the lift a foot or so and take note of the direction that the cams are rotating. It is good practice to mark this direction of rotation; an example is shown to the right.
4. Loosen the 5/8" retainer nut before adjusting the limits; also shown to the right.
5. The small flathead screws that surround the retainer nut are used to adjust the limits.
 - a. Colors correspond to the wire colors.
 - b. It is best to make adjustments while looking at how the cam engages the black roller on the microswitch.
 - c. The top and bottom limits will hit on opposite sides of their microswitches based on cam rotation.
 - d. 1/8th turn on the adjustment screw is about 6-8 inches of travel
 - e. On each test of adjustment run the lift a few feet away from the limit and then back to the limit.
 - f. **3-stop:** Set top and bottom limits before attempting to set the middle stop, you also must start from one of the outer limits on each test of your middle adjustments.
 - g. If the lift touches the ground during this process you will need to rewrap the lifting cables.



Limit Switch Setup Continued

6. Whenever limits are set tighten the retainer nut
7. Check to see that the lift stops in the correct place.
8. If needed, fine tuning adjustments may be made after loosening the retainer nut slightly. Be sure to retighten when done!
9. Re-install the limit switch cover.

** You can verify that the wiring at the limit switch makes sense for your application:

- There are three rows of terminals
- On each cam the terminal closest to the cams will be for Normally Closed limits. Whenever the cam engages the switch the circuit is disconnected from the common. It is used for your stops, should have a green wire and a red wire each to a separate cam. (3-stop: also, blue and white)
- The next row down is for Normally Open limits. Whenever the cam engages the switch the circuit is connected to the common. This is only used for interlocks (if equipped), a cam per interlock is used aside from special cases. Typically, a white wire for the first interlock (if 3-stop: red with black stripe) then blue if there is a second interlock (if 3-stop: red with black stripe)
- The bottom row is the common. Typically, a black wire is jumped to all the cams that are used. On units with interlock(s) there will be an orange wire going to the associated cams.

Failure to follow these instructions will void all warranties to equipment as written or implied. Galaxy Unlimited LLC will assume no responsibility to damages that were a result of improper installation or user error. **WARNING:** Failure to tighten the retainer nut could allow the limit switch adjustments to change, causing the LIFT TO NOT STOP. This could possibly cause damage to the limit switch, lift, and/or the entire system.