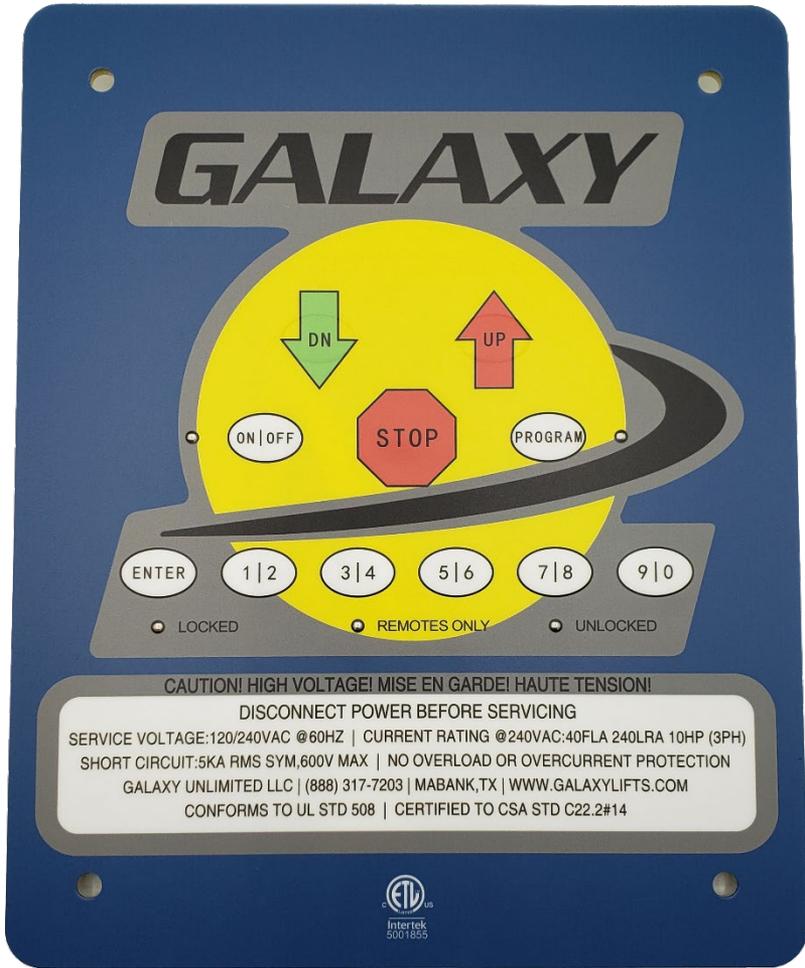




GX-1000  
Control Box  
Wiring &  
Programming  
Guide

## 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, the “2” button is not used; simply use the arrows to control your direction.

## Remote Programming

### 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.
  - o **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!



There are two modes that your lift can be set in, Momentary and latching.

**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.

**\*\*\* Upon initial order the control box will be in latching mode however it can be changed to momentary provided you cut the correct jumpers \*\*\***

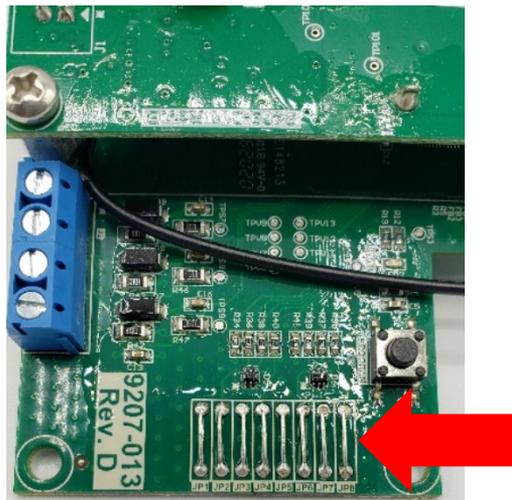
## Switching from 2-Stop to 3-Stop &

### Switching from Latching to Momentary

On the board there is a set of 8 jumpers that are used to determine how your lift will operate in terms of whether it is a 2-stop or a 3-stop. Another function of those jumpers is to determine if you want the lift to move in momentary or latching modes between those stops. Below is a table indicating which jumper to cut if you want to change the lift from one setting to the other.

| Jumper # | 1               | 2      | 3      | 4        | 5      | 6      | 7      | 8      |
|----------|-----------------|--------|--------|----------|--------|--------|--------|--------|
| Option   | Number of stops | FL1->3 | FL3->1 | NOT USED | FL1->2 | FL2->3 | FL3->2 | FL2->1 |
| Default  | 2               | L      | L      | NA       | L      | L      | L      | L      |
| Cut      | 3               | M      | M      | NA       | M      | M      | M      | M      |

For a 2-stop, to switch the lift from latching to momentary on the way up, but not on the way down, **cut jumper 5**. To change it in both directions, **cut jumpers 5 & 8**. Below is a picture of where to find those jumpers on the board.



## 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:

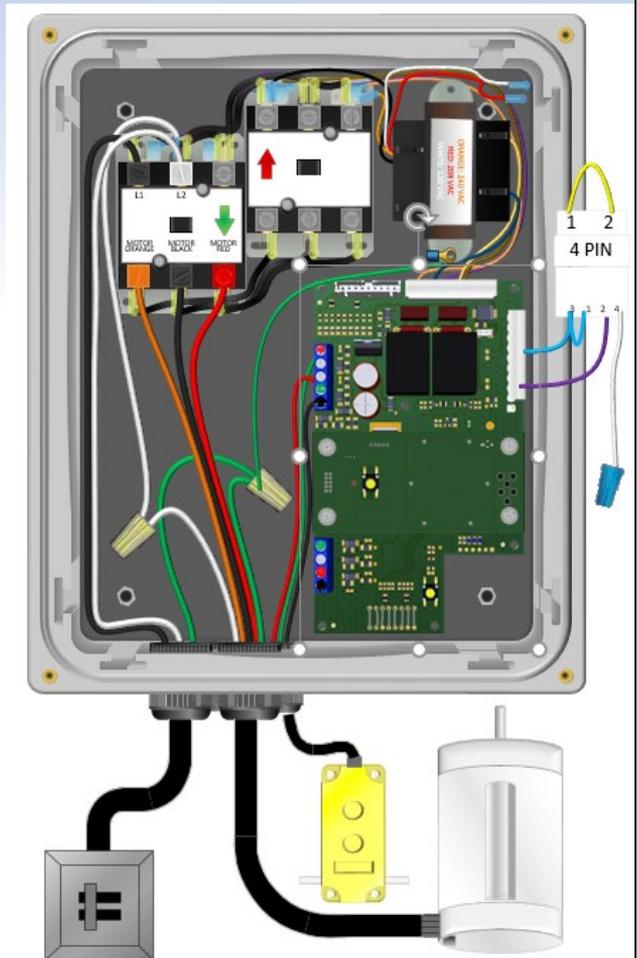
Black: T1

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

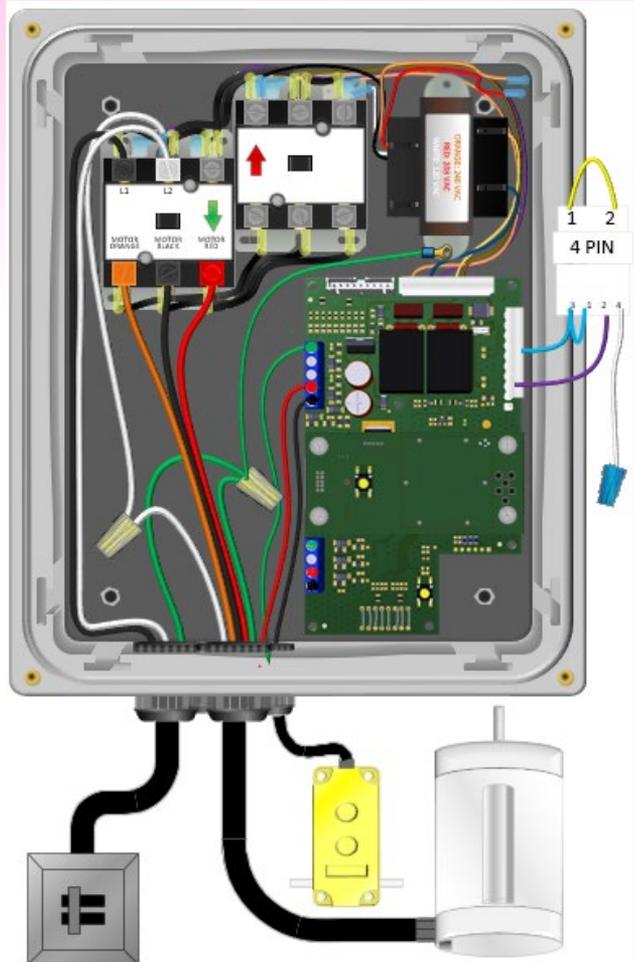
Orange: T2, T4

Red: T5

White: T8

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

The box is normally sent with the 240V Connector (Orange) from the transformer connected to the contactors. To switch it to 120V all you need to do is change that connector to the 120V Connector (white).



## Limit Switch Setup for GX-1000 Controllers

- 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 (four 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.

  - Red: Limit for the top stop. When disconnected from the black wire (the Common signal), the lift will not go up.
  - Green: Limit for the bottom stop. When disconnected from the black wire (the ground signal), the lift will not go down.
  - Black: Common signal wire. When disconnected, the lift will not move.
  - White: (3-stop only) Middle limit wire. To set you must be sending the lift from the top or bottom limit after each adjustment.
- Remove the cover of the limit switch by loosening the four large screws.



## Limit Switch Setup Continued

3. While observing cams of the limit switch, raise the lift approximately 1 ft. 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 adjust 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.
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.

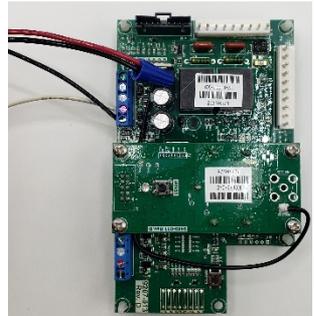


## Limit Switch Setup Continued

\*\* 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 and should have a green wire and a red wire to each 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.

The overlimit switch is a blue rocker switch used to stop the basket from traveling too high and causing damage to either lift parts or property. To wire the over limit you will have to simply intercept the red limit wire. The over limit switch comes with a 2-wire cable (black & white). Connect one (either color is fine) to the red wire from the limit switch and the other to the red panted terminal on the top 5 port wire terminal.



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.

## \*\* Additional Equipment Setup Section (Not Standard) \*\*

### Call Station

- 1) Disconnect service of the 110V or 220V to the Galaxy control box.
- 2) Remove the Gel Pad and then carefully unplug the ribbon cable from the circuit board.
- 3) Connect the wires from the call station to the bottom 4 wire terminal on the control board in the following pattern starting with the terminal closest to the bottom.
  - Call/Send Station (2 stop & 3 stop):
    - 2 Button: Black, Red, Not-Used, Green.
    - 3 Button: Black, Red, White, Green.
  - Call Station (1 button):
    - Upstairs application: Black, White, Not-Used, Not-Used
    - Downstairs application: Black, Not-Used, Not-used, White.
- 4) Re-install Gel Pad. Route the ribbon cable so that it does not kink sharply.
- 5) Reconnect power to the Galaxy control box and test!

### Interlock

The Interlock is installed at the deck gates or doors to prevent them from opening when the basket is not present. It will come with a latch, the control board attachment clip, and a length of cord. The unit will not recognize that there is an interlock until the proper changes have been made to the control board. To do that you will need to **cut Jumper 9**, which is located near the terminal where the attachment clip plugs in.

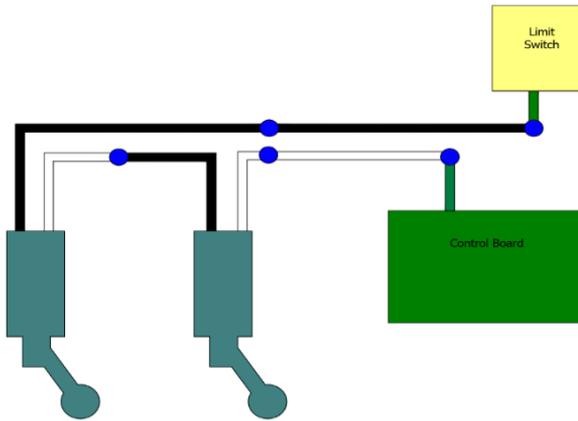
The terminals on each **interlock** are painted to correspond to the wire colors in the cord. The other end of the cord will simply plug into the attachment clip. To control when the interlock unlocks, you will



match the cam adjustment at the limit switch for the white wire (typically) so that it corresponds to the stop limit setting of the floor that the interlock is installed on.

### Pan Switch

The Pan Switch Assembly connects as shown. Mount each rocker approximately 6" from the edge of the unit on the subfloor beams. Then you will drill an 11/16" hole in the beam and install the cable gland as shown. Next, route travel wire from the switches, through the hole you drilled, up over the brace (midway point) and finally to the control box.



## **Galaxy Unlimited, LLC Remote Control Box Warranty**

This warranty is for the electrical components of the Remote Control Box which begins on the day of purchase from Galaxy Unlimited, LLC for a period of 1 year thereafter. During this period, Galaxy Unlimited, LLC will replace electrical components, without charge, for the components of the Remote Control Box, or any part or piece thereof, which exhibits a manufacturing defect or defect in craftsmanship. Defect is determined at the absolute and sole discretion of Galaxy Unlimited, LLC.

To submit an acceptable claim under this limited warranty, the Original Purchaser must provide the following information in writing to:

**Galaxy Unlimited, LLC  
6470 State Highway 198  
Mabank, TX 75156**

- Full Name and Address
- Serial Number of Unit
- Clear and specific description of the defect .
- Ship malfunctioning Remote Control Box to above address for confirmation/evaluation at the expense of the customer.

This limited warranty is valid only when such products are used under normal conditions of recommended use. This limited warranty does not cover replacement or repair of any part there of damaged by acts of God, abuse, accident, misuse, neglect, alteration, repair, disaster, overloading, negligence, unauthorized use, improper installation, improper testing, improper product selection, failure to follow maintenance recommendations, failure to follow instructions or warnings, or any other case beyond the control of Galaxy Unlimited, LLC.

**All warranties implied by law, including implied warranties of merchantability and fitness for a purpose, are disclaimed or, if a disclaimer is not permitted by applicable state law, are expressly limited to the durations of the coverage period set forth above.**