

# GREEN MACHINE



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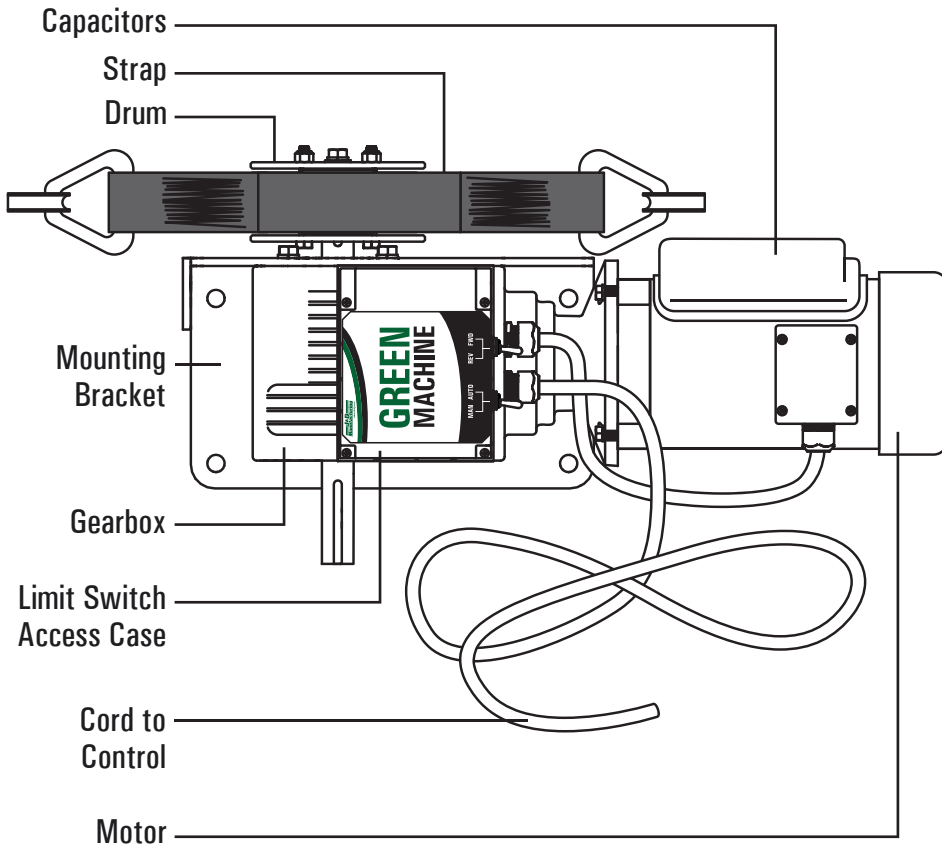
## WARRANTY

J&D Mfg. warrants all products are free from defects in materials and workmanship under normal use for the period of one year from date of purchase and our warranty does not cover normal or regular wear and tear. J&D Mfg can repair or replace at our option, any product or part of the product that is found to be defective. Our warranty applies to materials only and does not include return freight, delivery, loss or damage to personal property, cost of removal or installation, any incidental or consequential damages or labor. This warranty does not apply to products which are misused, abused, altered, improperly installed or subject to negligence. All warranties must be approved through our warranty department. The original purchaser must present a copy of the invoice for the defective product. One year is our standard warranty unless specified on our literature or in the installation instructions/user manuals.

## INSTALLATION

**Please read over ALL instructions carefully before you begin.**  
If you have any questions please call your local dealer, or contact J&D Manufacturing at  
**1-800-998-2398.**

# COMPONENT IDENTIFICATION



# INCLUDED TOOL

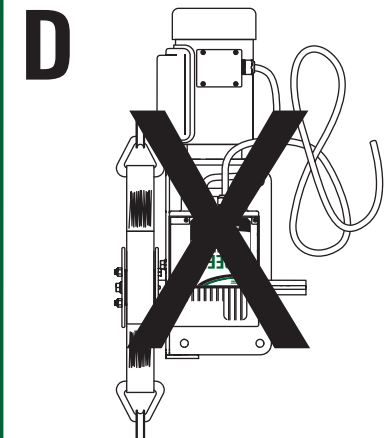
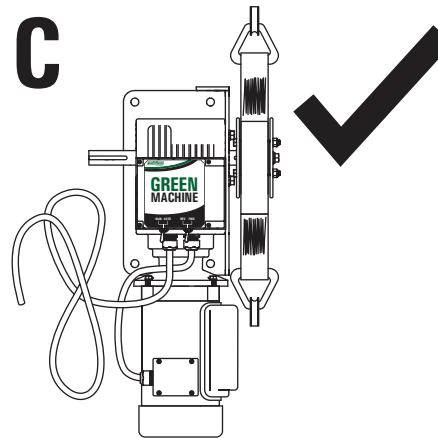
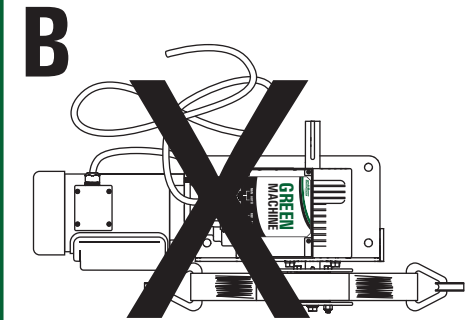
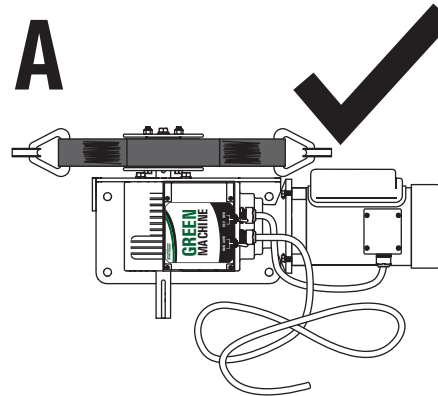
2mm Allen Wrench / Hex Key  
*(located in inside cover of limit switch access case)*



# INSTALLATION HARDWARE IS NOT PROVIDED

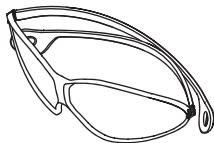
## Mounting Positions:

- A & C are acceptable mounting positions
- B & D are **NOT** acceptable mounting positions and will void warranty

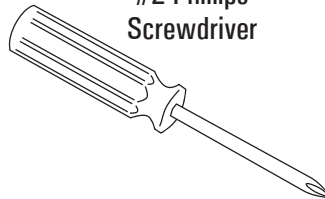


# RECOMMENDED TOOLS FOR INSTALLATION AND ASSEMBLY (NOT PROVIDED)

Safety Glasses



#2 Phillips Screwdriver

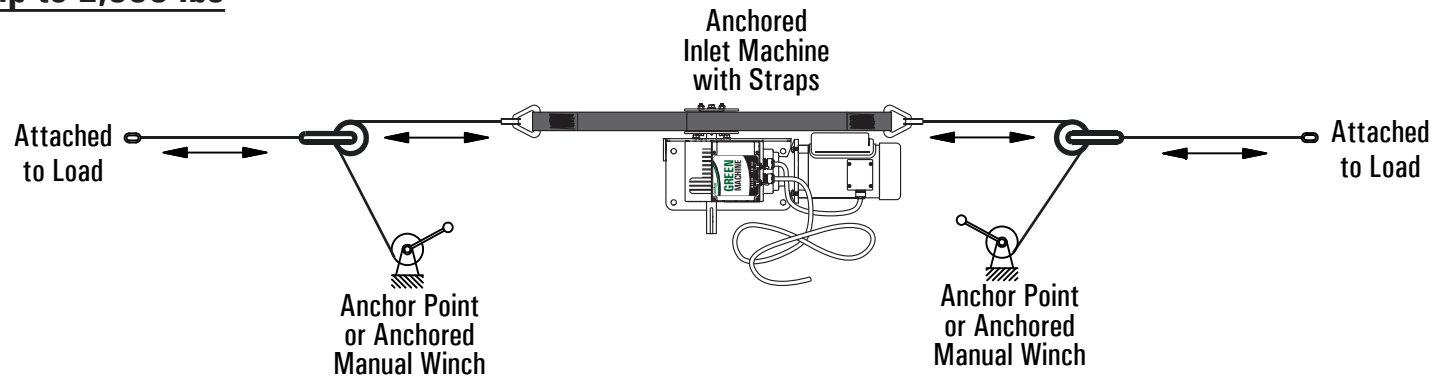


**ADDITIONAL TOOLS ARE REQUIRED SPECIFIC TO YOUR CHOSEN INSTALLATION HARDWARE AND BUILDING TYPE**

## RATIO CONFIGURATIONS

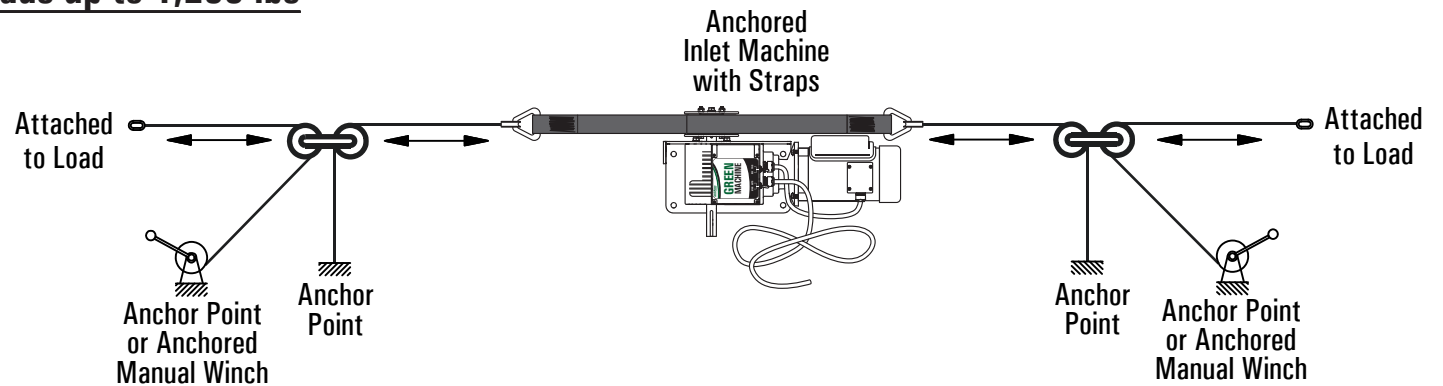
### 2:1 Ratio - Heavy Loads - Loads up to 2,500 lbs

Using this configuration, the ratio of motor gearbox cable to load cable travel is 2:1. The motor gearbox only sees 1/2 of the actual load and the load cables travel at 1/2 speed. This configuration is good for heavy loads. Please remember that for every foot of load cable traveled, the motor gearbox cable will be required to travel 2 feet.



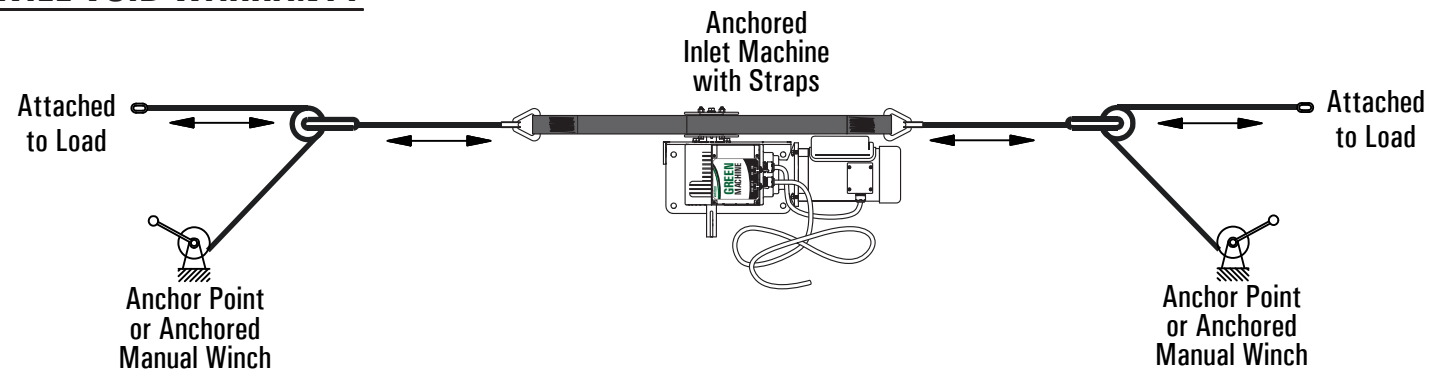
### 1:1 Ratio - Standard - Only for loads up to 1,250 lbs

Using this configuration, the ratio of motor gearbox cable to load cable travel is 1:1. There is no mechanical advantage and the motor gearbox will see the actual load. Both load and motor gearbox cables will also travel at the same speed.



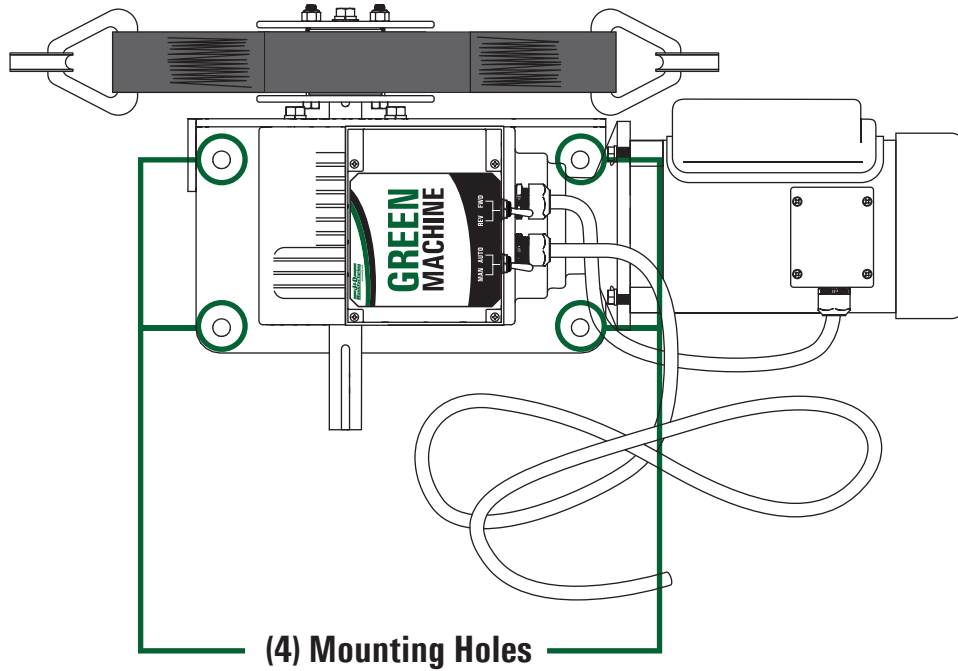
### 1:2 Ratio - NOT Recommended - WILL VOID WARRANTY

Using this configuration, the ratio of motor gearbox cable to load cable travel is 1:2. This is the least desirable configuration. This configuration can only accommodate 1/2 the load and the load cables will travel two times faster than the motor gearbox cables. This configuration also doubles the load on the motor gearbox and compromises the accuracy of the open and close stop positions.



## Securing Green Machine to Location:

- All 4 mounting holes in mounting bracket must be engaged to safely secure the Green Machine.
- Structure and hardware (not included) must be able to accommodate the weight of the Green machine (65 lbs) and the continued stress of your load.



1



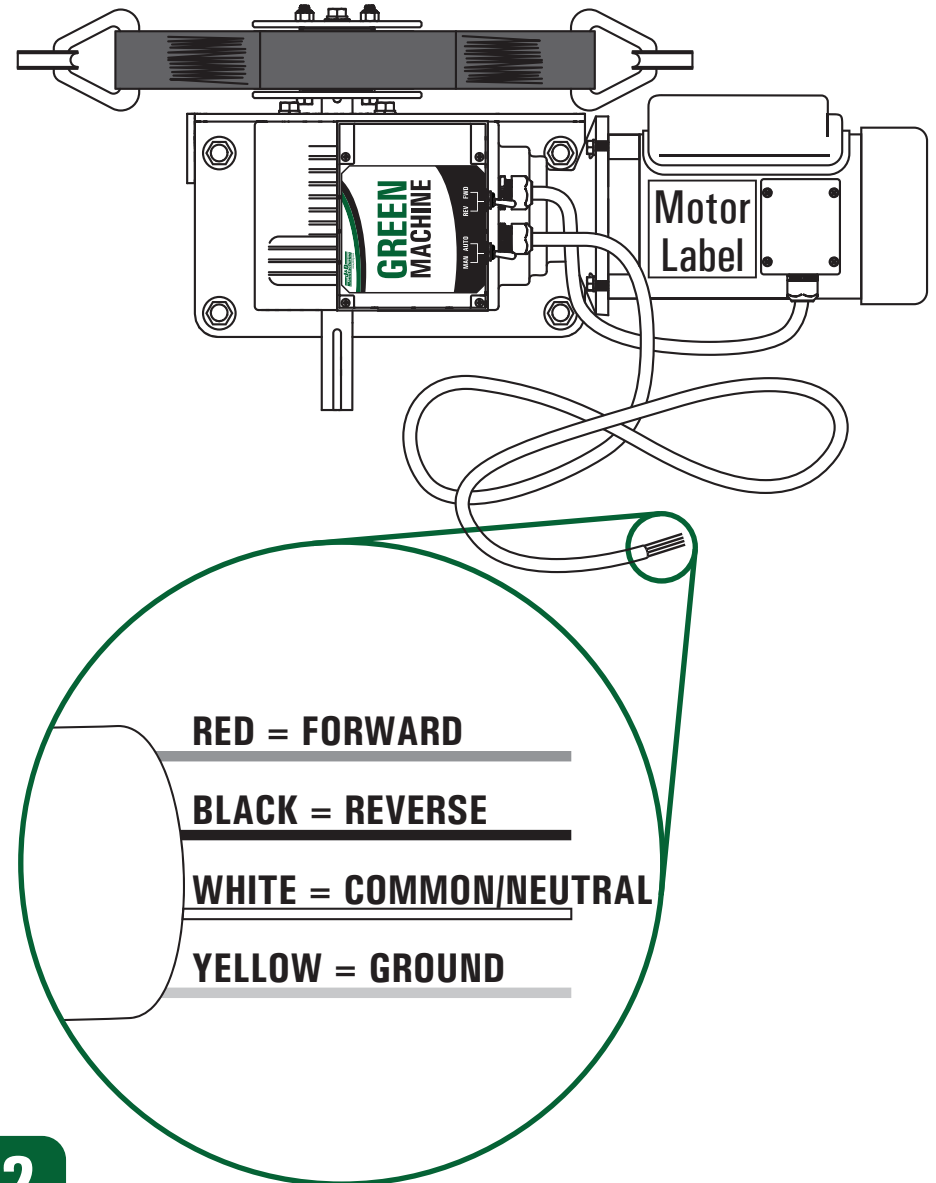
**DISCONNECT POWER**  
BEFORE INSTALLING OR SERVICING.



ALL ELECTRICAL WORK SHOULD BE COMPLETED BY QUALIFIED PERSONNEL  
AND MEET NATIONAL (NEC), REGIONAL AND LOCAL ELECTRIC CODES.

## Providing Power to Unit:

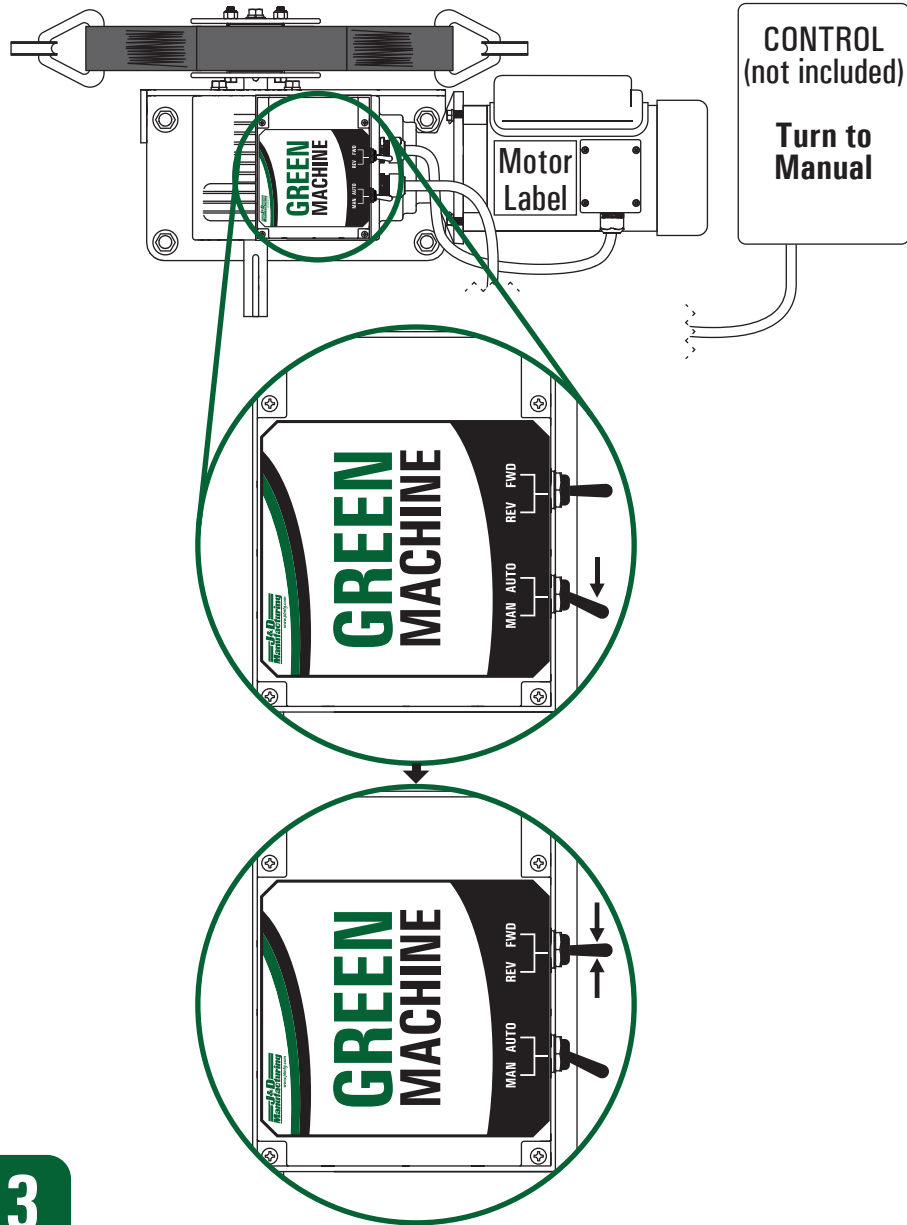
- Wiring should only be performed by a trained electrician to prevent injury or death.
- Review motor nameplate label to match supply voltage.
- Connect wires from pigtail to controller/power source (not included).



2

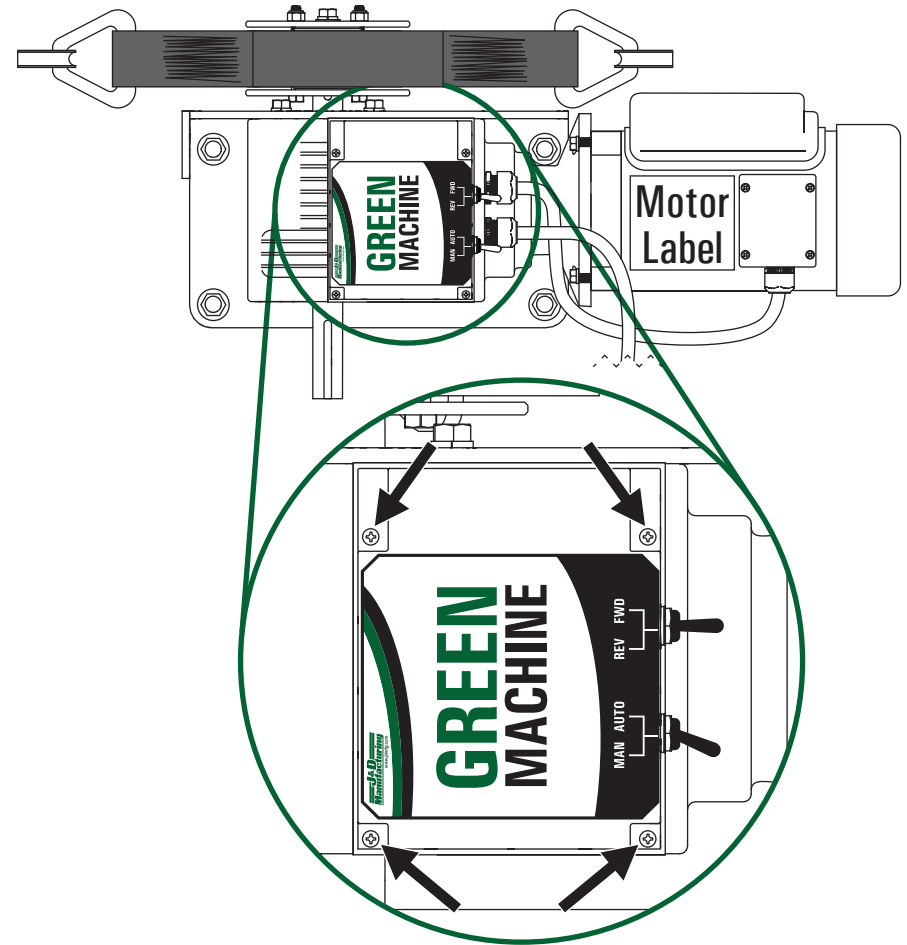
### Prepping for Setting Limit Switches:

- Provide power to control and turn control to manual.
- On the Green Machine flip MAN / AUTO switch to MAN.
- Toggle REV / FWD switch on Green Machine to activate unit rotating drum in either direction



### Opening Limit Switch Access Case:

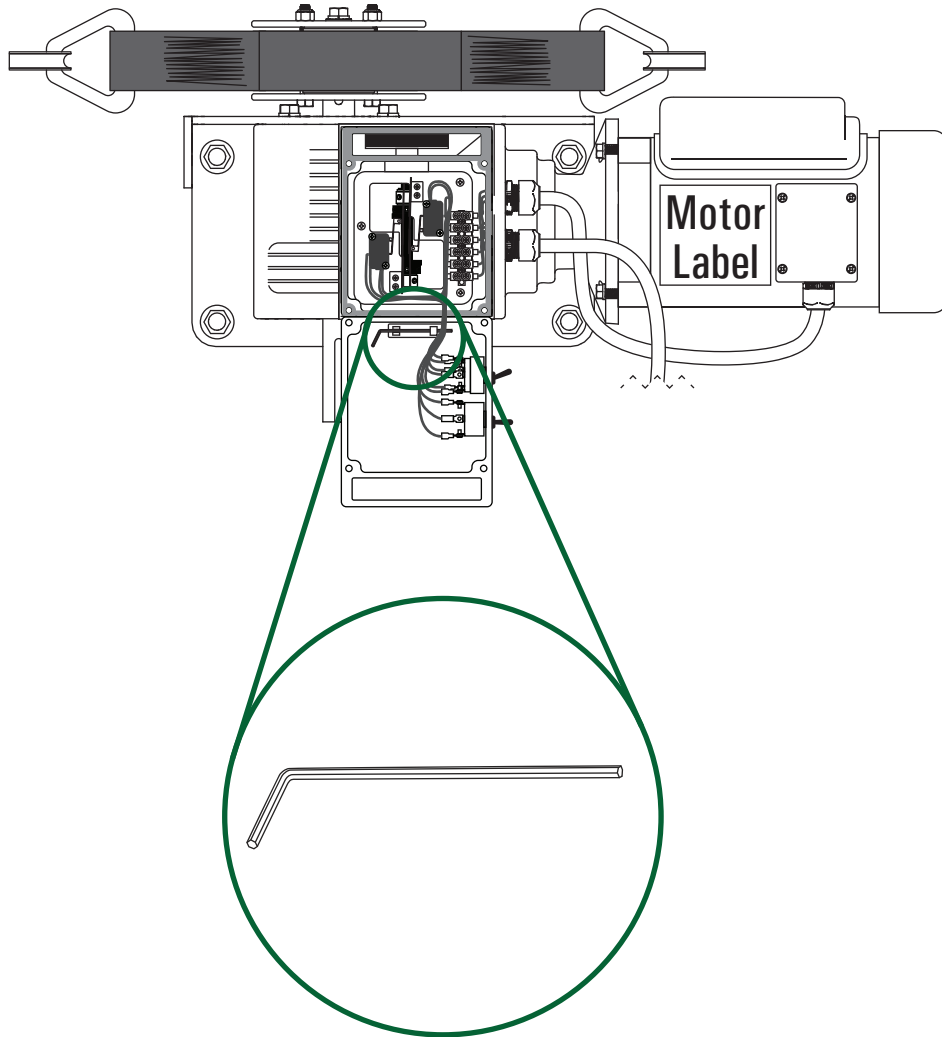
- Using #2 Phillips Screwdriver remove the (4) screws that secure the Limit Switch Access Case cover.





## Retrieve Allen Wrench:

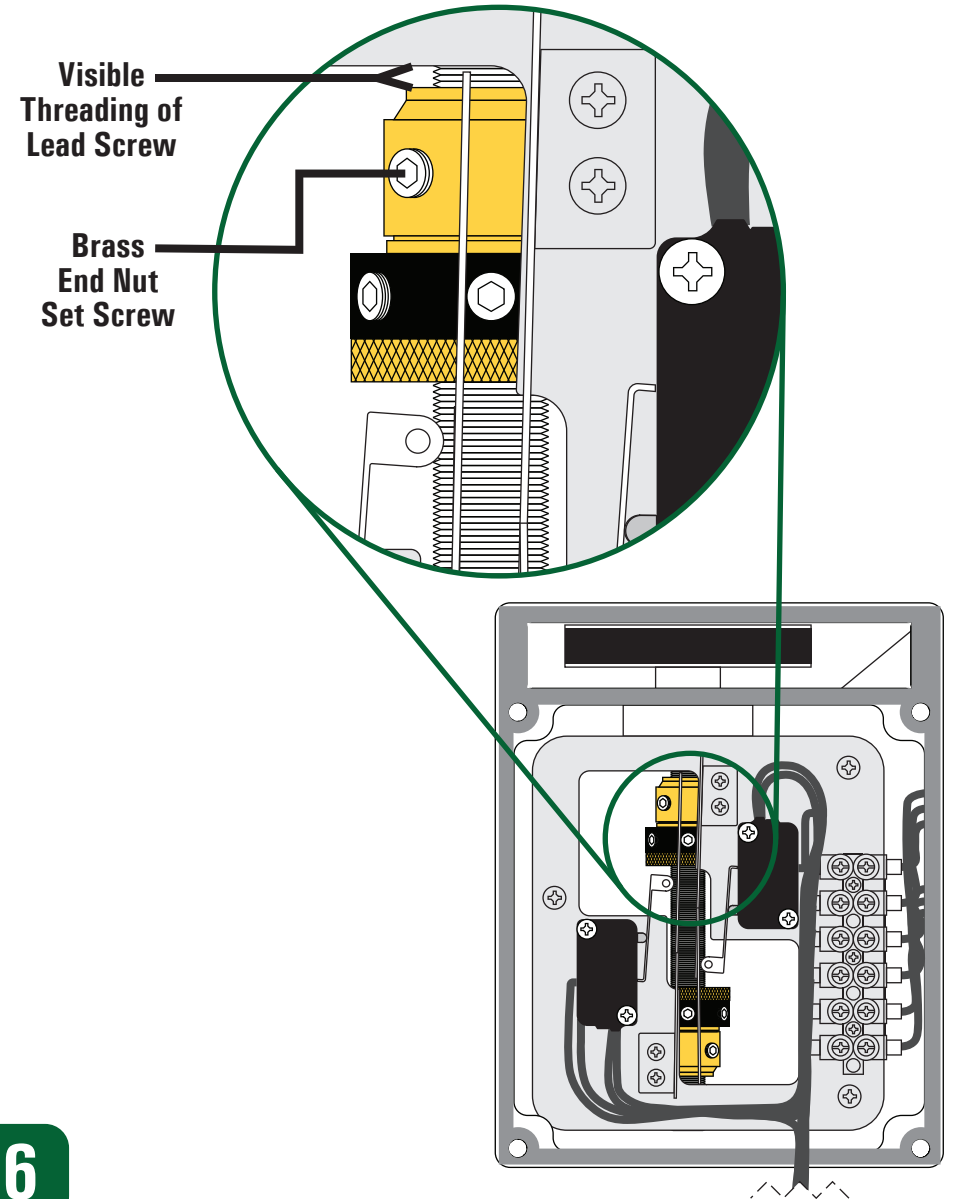
- Locate and remove for use the 2mm Allen Wrench / Hex Key from the bracket as shown below.
- This Allen Wrench / Hex Key will be used to loosen and tighten the set screws in the remaining steps.



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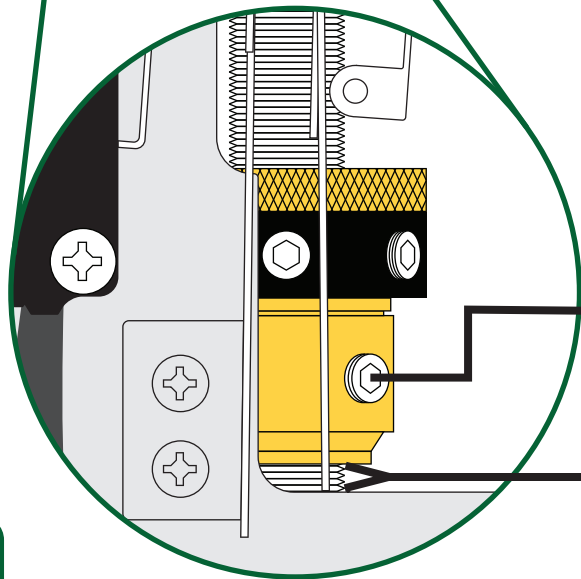
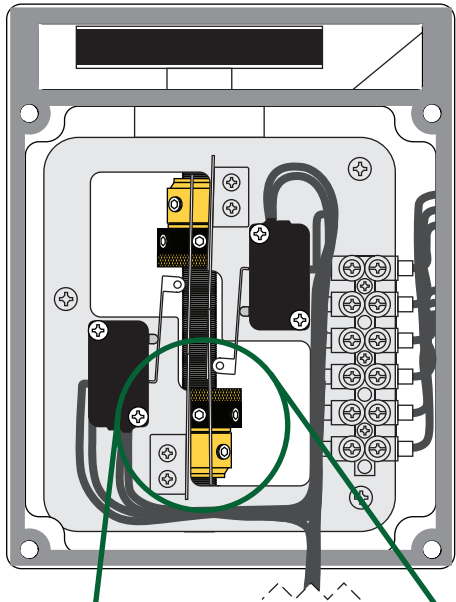
## Setting & Securing Brass End Nuts:

- Loosen the top Brass End Nut Set Screw
- Move Brass End Nut until some of the threading of the Lead Screw is visible above it (either rotate Brass End Nut manually or toggle the REV/FWD switch).
- Once the top Brass End Nut is properly positioned re-tighten the Brass End Nut Set Screw.



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- Loosen the bottom Brass End Nut Set Screw
- Move Brass End Nut until some of the threading of the Lead Screw is visible below it (either rotate Brass End Nut manually or toggle the REV/FWD switch).
- Once the bottom Brass End Nut is properly positioned re-tighten the Brass End Nut Set Screw.



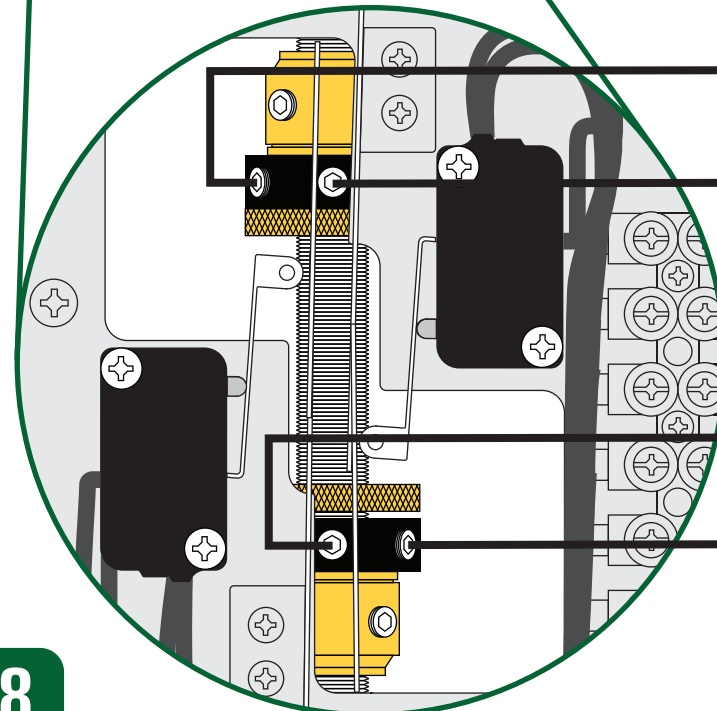
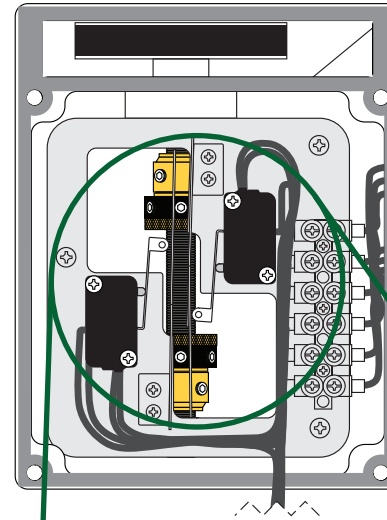
Brass End Nut Set Screw

Visible Threading of Lead Screw

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## Connecting Inlet System Cables to Green Machine:

- Loosen, but DO NOT REMOVE, both the Black Nut Trigger Post and Black Nut Set Screw on the top and bottom Black Nuts.



Black Nut Set Screw

Black Nut Trigger Post

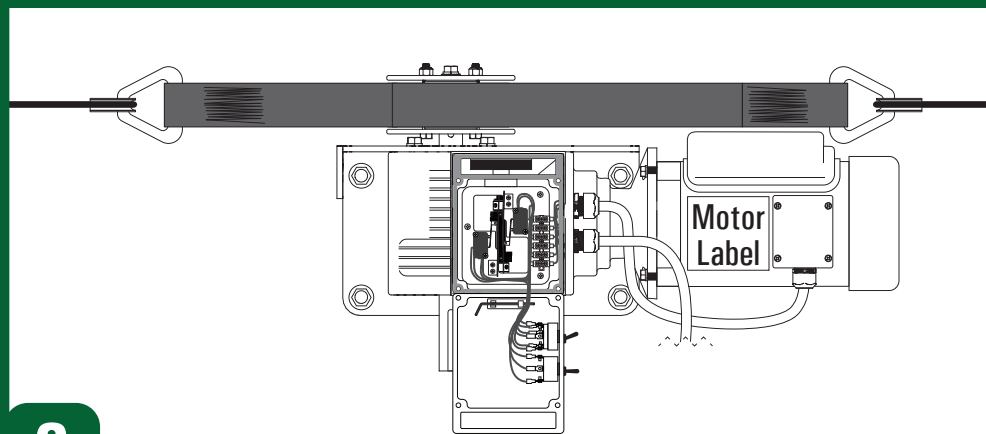
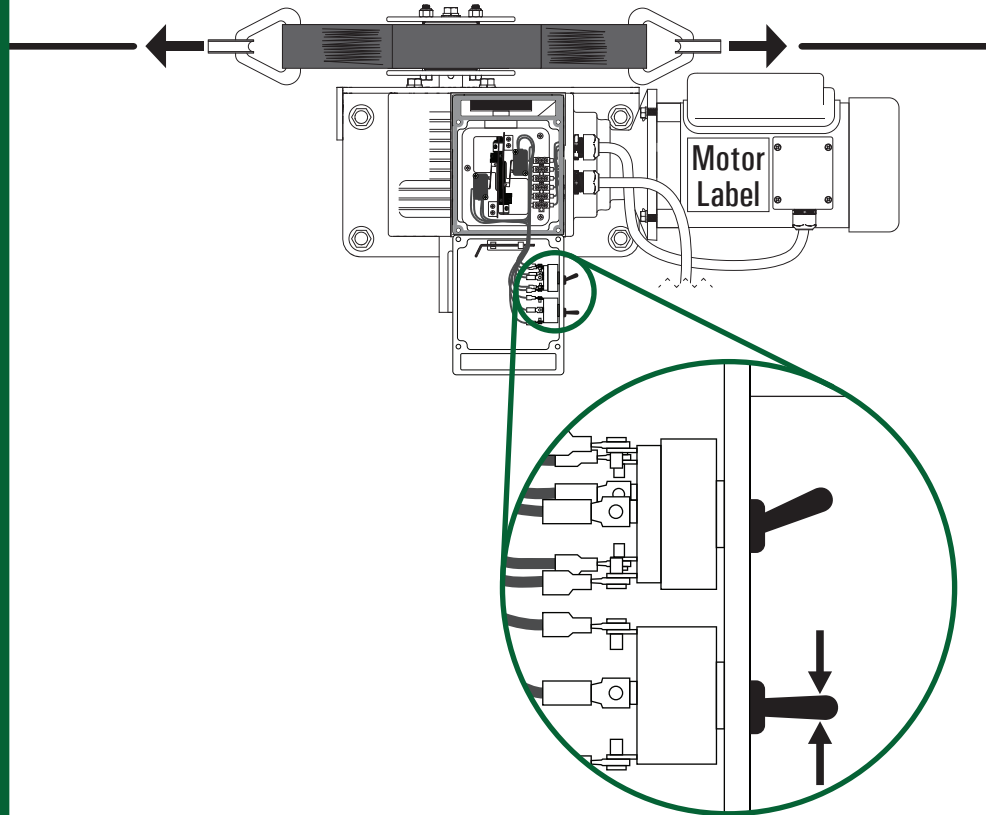
Black Nut Trigger Post

Black Nut Set Screw

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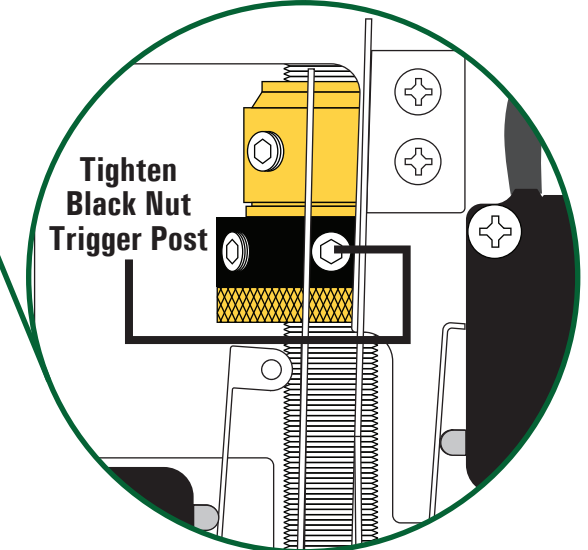
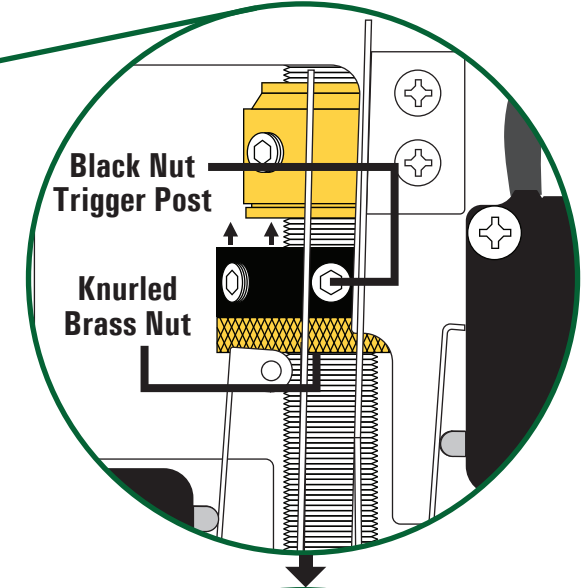
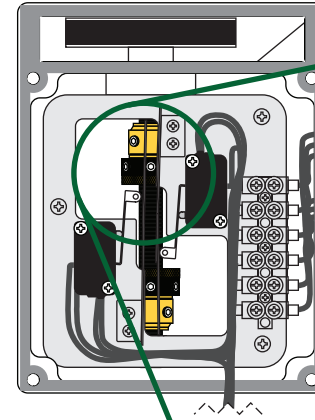
- Toggle REV / FWD switch on Green Machine to activate unit, rotate the drum and allow enough strap to unwind to connect inlet system cable/s.



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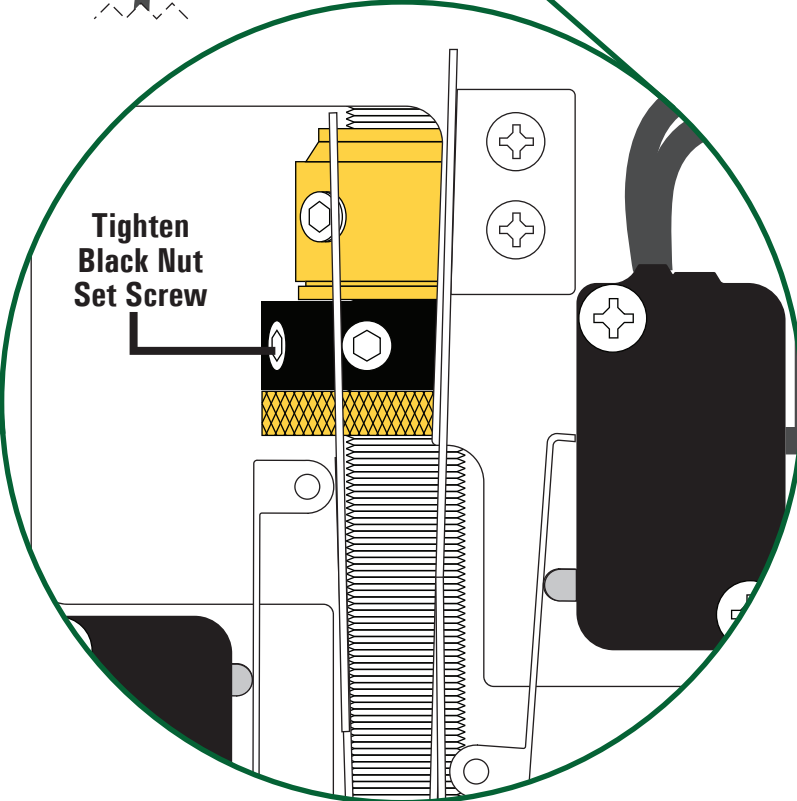
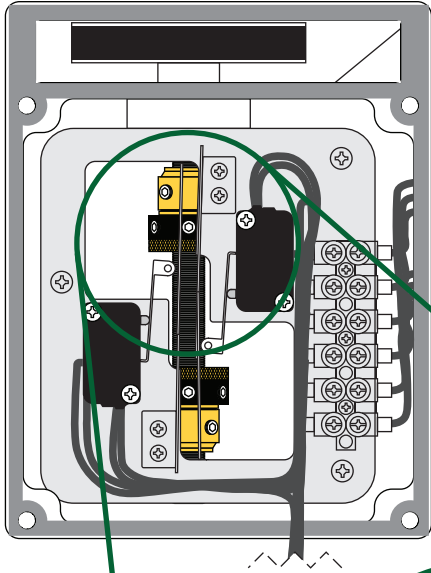
## Setting First Set-Point Location Limit Switch:

- Toggle REV / FWD Switch until your system is at the first set-point location, most commonly the fully open position.
- Rotate Knurled Brass Nut pushing the Black Nut tightly against the Brass End Nut.
- Tighten the Black Nut Trigger Post
- Toggle REV / FWD Switch to test the first set point. Adjust as needed.



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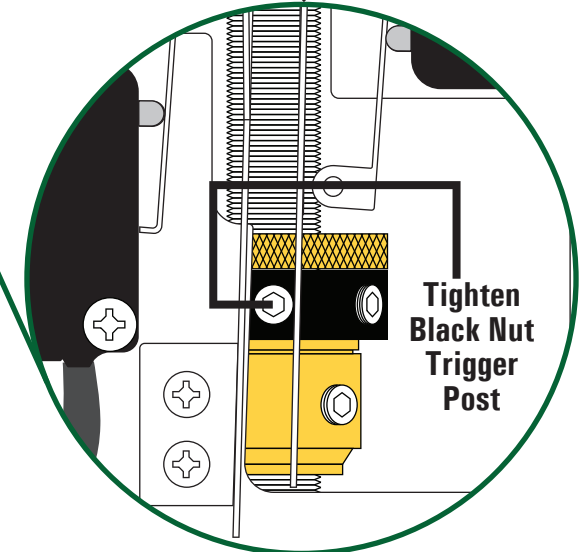
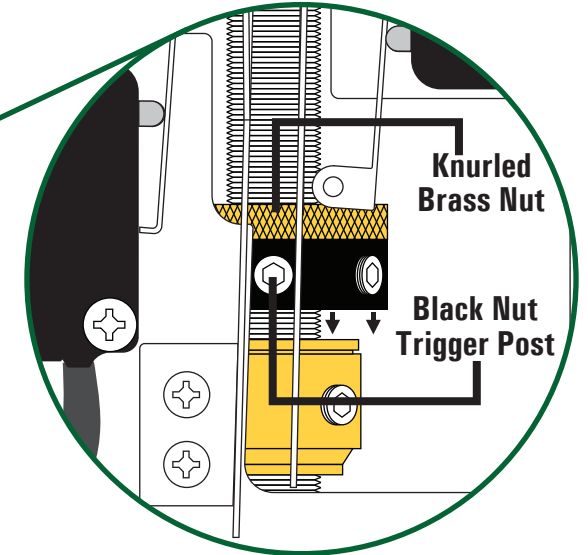
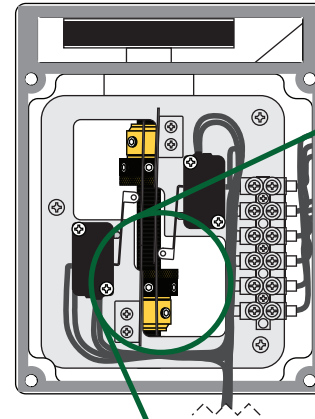
- Once the Black Nut Trigger Post is triggering the limit switch at the spot you want it to stop at, tighten the Black Nut Set Screw to further ensure a secure setting.



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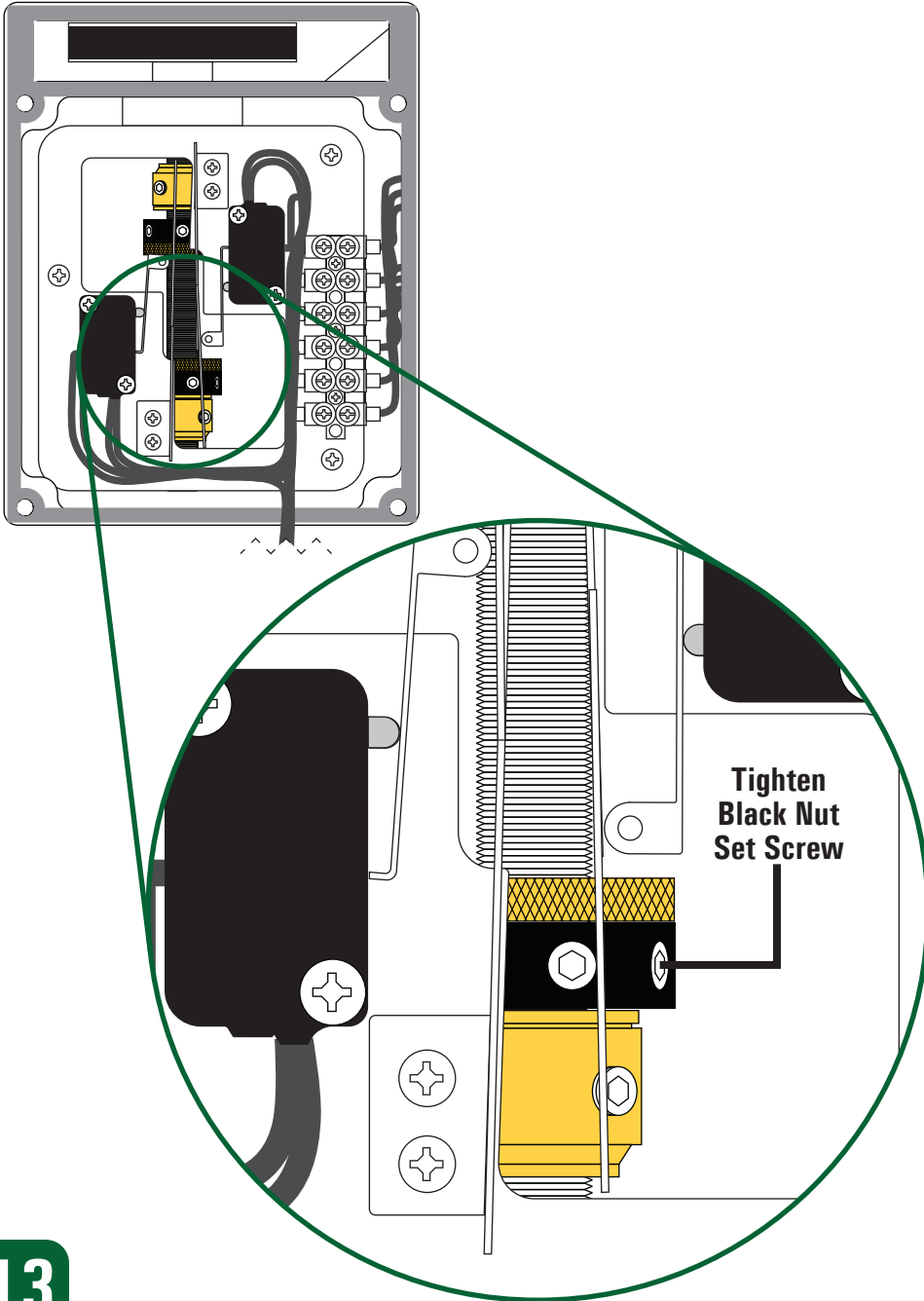
## Setting Second Set-Point Location Limit Switch:

- Toggle REV / FWD Switch until your system is at the second set-point location, most commonly the fully closed position.
- Rotate Knurled Brass Nut pushing the Black Nut tightly against the Brass End Nut.
- Tighten the Black Nut Trigger Post
- Toggle REV / FWD Switch to test the second set point



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- Once the Black Nut Trigger Post is triggering the limit switch at the spot you want it to stop at, tighten the Black Nut Set Screw to further ensure a secure setting.



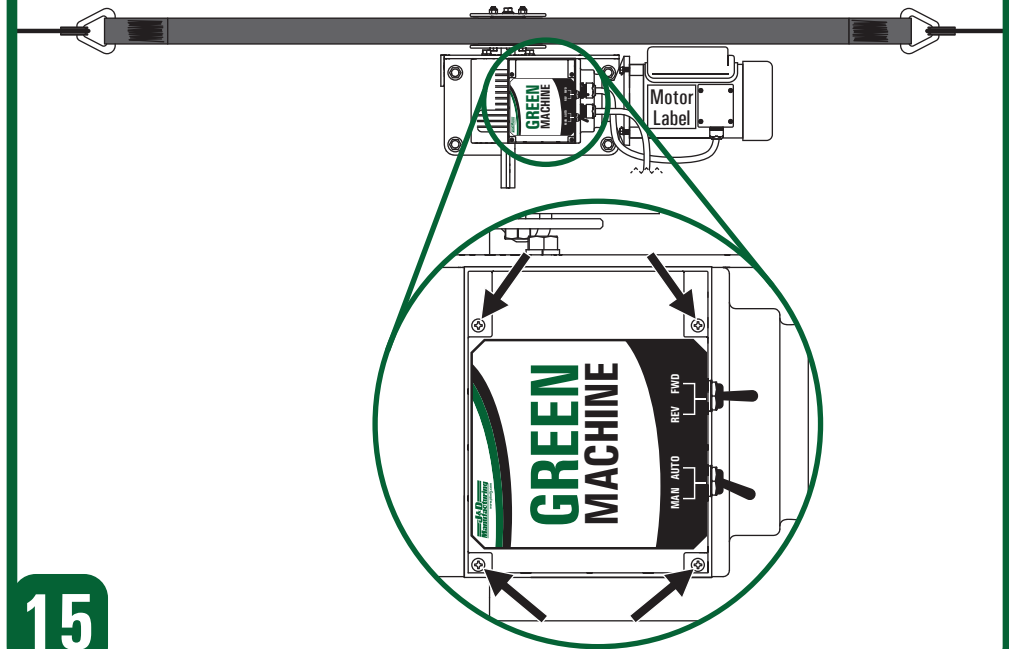
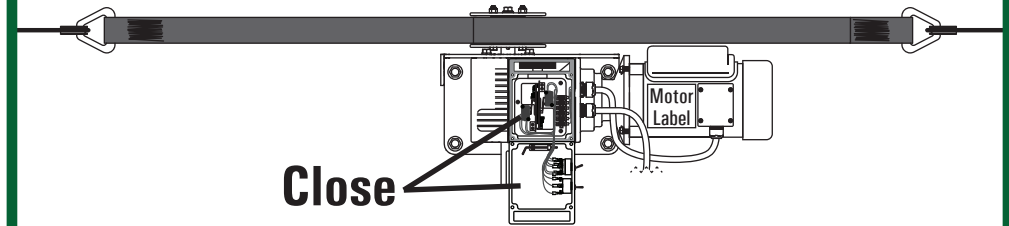
## Test Set-Point Locations:

- Toggle REV / FWD Switch to test each set-point.
- Fine adjustments may be needed. Make these adjustments by loosening the Black Nut Trigger Post and Black Nut Set Screw and moving the Knurled Brass Nut as needed.

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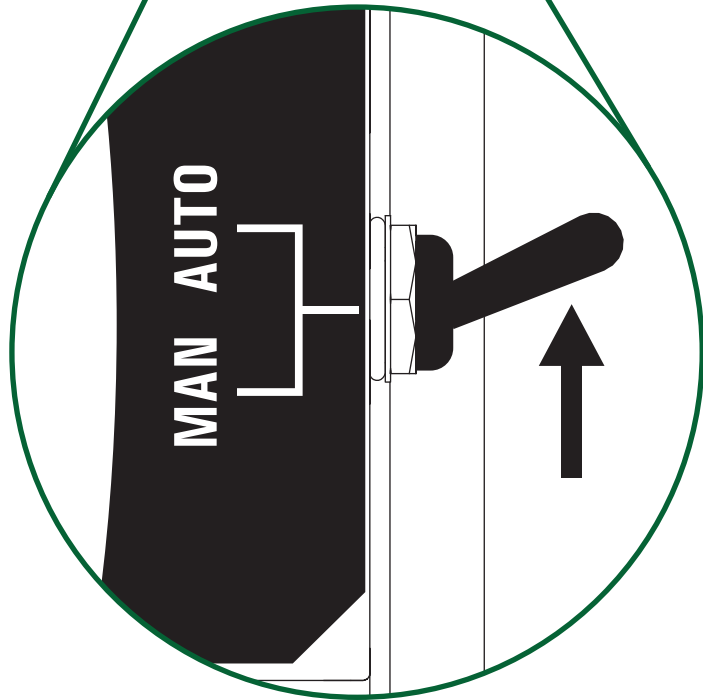
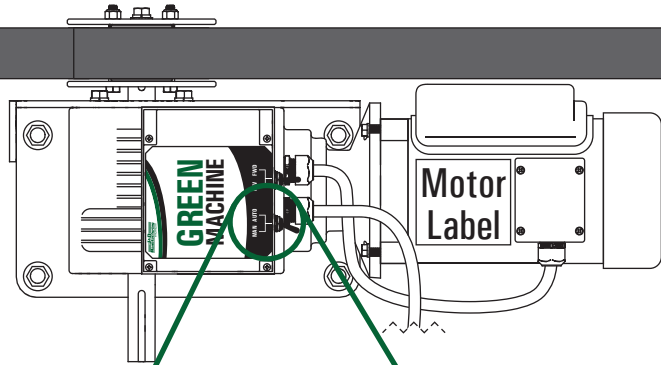
## Close Limit Switch Access Case:

- Once limit switches are set and tested re-secure the Limit Switch Access Case.
  - Align rubber gasket and close cover
  - Using #2 Phillips Screwdriver and the (4) screws removed in **Step 4** secure lid.



## Enabling Controlled Operation:

- To enable unit to be operated by control, the Green Machine MAN / AUTO switch needs to be flipped to AUTO.



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