

Assembly & Operator's Manual

LiftGator Gen II TruckGator
1300lbs Removable Liftgate



Visit our website at: www.LiftGator.com

WARNING:

Read the entirety of this manual before using the LiftGator. Failure to do so can result in serious injury, or death. SAVE THIS MANUAL

For questions or replacement parts, call (877) 791.2332



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Terms & Conditions:

Superior Solutions Mfg., Inc. is hereby referred to as **LIFTGATOR**. The purchaser, end-user, or installer is hereby referred to as **USER**.

Legal Disclaimer:

- **LIFTGATOR's** products must be assembled and maintained by a qualified professional as recommended by **LIFTGATOR**.
- System operation and assembly is at the **USER's** own risk. LIFTGATOR accepts no liability for damage of property or persons caused by its products, components, accessories, installation /assembly instructions or otherwise.
- LIFTGATOR accepts no responsibility for systems, products or components provided by other manufacturers for use with or around the LIFTGATOR product. For components other than LIFTGATOR's, follow the manufacturer's instructions for installation and operation.



LiftGator Warranty:

Your LiftGator liftgate is warranted to the original purchaser to be free from defects in material and workmanship for a period of one (1) year, except as herein limited, from the date of purchase. The obligations of Gator Liftgates, LCC (the Company) under this limited warranty shall be limited to repairing or replacing any part or parts which, in the opinion of the Company, shall be proved defective in materials or workmanship under normal use and service during the one-year-period commencing with the date of purchase. Paint is warranted to be free from defects in material and workmanship for a period of ninety (90) days from the date of purchase. Color Fade and color differences are not warranted. This Warranty does not cover any part or parts which have been damaged as a result of an accident, misuse, abuse, or which have been modified, altered or repaired by other than the Company. This warranty shall not apply if the lift gate has been subjected to loads in excess of its rated capacity. The remedies described herein are the sole remedies.

Limitations and Exclusions

1. Warranties are to the original owner and are non-transferable.
2. Equipment which has been modified, repaired, or altered in any way without the express written consent of the Company.
3. Unreasonable use (including failure to provide reasonable and necessary maintenance).
4. Equipment which is warranted separately by the respective manufacturers of said components.
5. Parts not supplied by the Company.
6. Parts which require replacement in the ordinary course of use due to normal wear.
7. Any lift gate after 90 days from the date of purchase if the lift gate is utilized as a rental unit or as part of a rental combination with rental equipment.
8. Damage to paint resulting from deterioration due to use or exposure, such as chipping, scratching or damage due to road salt, tar or pressure washing.
9. Labor costs will not be reimbursed.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND THE REMEDIES PROVIDED THEREIN ARE THE SOLE AND ONLY REMEDIES. THERE ARE NO WARRANTIES, EITHER EXPRESSED OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DENIED.

EXCEPT AS MAY BE PROHIBITED BY LAW, THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR DESCRIPTION INCLUDING BUT NOT LIMITED TO LOSS OF TIME, PROFIT, INCONVENIENCE, LOSS OF USE, TOWING FEES, TELEPHONE CALLS OR COST OF MEALS OR LODGING.

The limited warranty provided above, subject to the described limitations and exclusions, gives you specific legal rights, and you may also have other rights which vary from state to state.

LiftGator LLC
501 Oakwood Road, Watertown, SD 57201



General Safety Precautions & Warnings:

- Read the manual. Understand the entirety of this manual, all decals, and warnings before use. Failure to do so may result in serious injury or death.
- Keep children away. The LiftGator is an industrial product that is intended for use by adults only, no children shall be allowed in the work area.
- When dismantled from the vehicle, store in a dry area to inhibit rust.
- Check for damaged parts. Before using the LiftGator, thoroughly inspect all parts for damage, wear, alignments, binding, etc. If any part is damaged, discontinue use and seek assistance by a qualified technician.
- Only identical replacement parts shall be used during service. For parts and technical questions, call LiftGator. Any part that appears damaged should be repaired or replaced by a qualified technician.
- Do not operate under the influence of drugs or alcohol.
- A qualified technician shall perform all service and maintenance.
- Only use the LiftGator for its intended purposes, nothing else.

Decals:



LiftGator Safety Precautions & Warnings:

- The LiftGator is NOT intended for raising or lowering people.
- Liftgate hazards can result in crushing or falling.
- Never exceed the 1000-pound load capacity of the LiftGator.
- A class 3 hitch receiver or higher must be used in conjunction with the LiftGator.
- Always stay clear of the platform's path during lifting and lowering.
- Always drop the stabilizer legs completely to the ground and preload them before loading the lift. Be sure to lift and secure the stabilizer legs before driving the vehicle.
- The load shall always be placed as far forward as possible on the platform.
- Never lift objects that are hanging off the side of the platform. All unstable and rolling loads must be tied down before lifting and lowering with the LiftGator.
- Before dismounting, lower the platform to prevent likelihood of tip-over during transportation.
- Periodically clean all LiftGator parts of dirt and grime as well as lubricate necessary parts.
- Keep hands and feet clear of all potential pinch points.
- Discontinue use if the LiftGator shows signs of unusual noise, vibration, uneven lifting, or any sort of abnormal operation.
- All protective covers, guards, and safety devices must remain in place as intended by LiftGator.
- Always properly store and secure the LiftGator for transit. See 'General Operations' for details.
- Always secure cargo once in the vehicle's cargo bed.



Unboxing Your Gen II LiftGator

Tools required: 9/16" socket, number 2 Phillips screwdriver/bit, 7/16" nut driver (included with your LiftGator), 7/16" wrench.

1. Remove the plastic cap screws from the box using the Phillips screwdriver.
2. Remove the top box.
3. Pull the stapled box flaps from the bottom of the crate so that you can remove the bottom box from the crate.
4. Open the storage box lid to find a bag taped to the crossmember of the LiftGator. In that bag, will be the keys and the 7/16 driver.
5. Using the Phillips bit, remove the two screws holding the jack legs in place.
6. Pin the jack legs to the second hole.
7. Using the 9/16 socket, remove the nuts from the side plates where you will then put the jack legs in place.
8. Remove the skates from the storage box and install them to each foot on the jack legs.
9. Using the 7/16 driver, run the jack legs so that the skates are on the ground.
10. Using the Phillips bit, unscrew the brace that is holding the LiftGator hitch in place.
11. Using the 7/16 driver, raise the legs more so that the LiftGator lifts off the shipping crate.
12. You should then be able to move the LiftGator around and get it in place to install on a vehicle.



General Operation:

Pre-Operation Safety Check:

Before each use, check the LiftGator for any physical damage, loose hardware, crimped wire rope, and deformed components. If during operation any unusual noises or vibrations occur, stop operation immediately and contact LiftGator customer support.

LiftGator Installation:

Before installation of the LiftGator, it must be in the correct configuration. A skate must be fixed to the bottom of each stabilizer foot, and the platform folded and latched into the vertical position.

Depending on your truck (most common with Dodge), you may or may not need to adjust the angle of the LiftGator Lite prior to installation. For example: a stock 4x4 without a leveling kit, the hitch receiver might be at an angle that points upwards. This would require you to match the angle with your LiftGator for easy installation and removal.

If this applies to your truck, loosen the skate nut that is farthest from your truck. Place a few flat washers or any other item that can be used to raise the foot of the LiftGator. This will cause the LiftGator foot to be raised on one side, and the LiftGator hitch to point more towards the ground. Once you have that foot high enough, you can re-apply the skate nut.

If your hitch receiver points more downward, you can do the opposite of what we just described by loosening the knob closest to the vehicle, raising the front of the foot, and re-applying the skate nut.

If your truck has a leveling kit, you should be able to disregard this, and continue to step number 1.



1. Wheel your LiftGator up to your truck's hitch receiver. If you must raise or lower the LiftGator hitch, you can do so using the crank handle we sent, a 7/16" socket, or the 7/16" drill bit we sent on a power drill to get the LiftGator hitch even with your hitch receiver by raising or lowering the stabilizer legs.

WARNING: If transporting over uneven or tilted surfaces, be careful not to tip the LiftGator. Always keep the center of gravity low by lowering the platform before transporting.

2. Using the platform switch on the passenger side upright, raise or lower the folded platform so that the latch is about waist high. Unlatch the platform and unfold it so that it is roughly the same height as your tailgate.
3. Make sure that the LiftGator hitch lines up with your hitch receiver well by pushing the LiftGator into the hitch receiver and removing it a couple times. **Note:** Do any fine tuning to the stabilizer legs height during this step.
4. Once you feel like you have the LiftGator at the correct height, use a marker, tape, or something similar, to mark the height of the stabilizer legs. This will give you a quick reference to where your stabilizer legs need to be for easy installation and removal.
5. Roll the LiftGator into the hitch receiver and insert the hitch pin. **Note:** Clipped to the inside of the storage box will be a T-handle that you can use to easier place and remove the hitch pin.
6. Using the crank handle, or the drill bit, tighten the hitch clamp bolt. This can be found inside the storage box, right on top of the LiftGator hitch. **Note:** Be careful to not over tighten the bolt.
7. If you used the T-handle, you should now be able to unscrew the handle from the hitch pin and place the T-handle back in the storage box.
8. Open your tailgate slowly to make sure that it does not contact any part of the LiftGator. Also, you will want about ½" an inch to ¾" of an inch between the tailgate and the edge of the platform.



9. Raise both stabilizer legs as high as they can go using the hand crank, socket, or drill.
10. Remove the skates from the bottom of the stabilizer foot, and place in the storage box or off to the side for safe keeping.
11. Fold the platform up, and make sure it latches into place.
12. Use the platform switch to lower the platform so that view is not obstructed when driving.

LiftGator Removal:

1. To remove your LiftGator, raise the stabilizer legs (if they are not already) as high as they can go and put the skates back on.
2. Screw the T-handle into the hitch pin.
3. Loosen the hitch clamp bolt on the top of the hitch.
4. Remove the T-handle with the hitch pin connected and place it back in the storage box clips.
5. Using the hand crank, socket, or drill, lower the stabilizer legs so that the weight is off your truck's hitch, and the casters are securely on the ground. **Note:** This is where marking your stabilizer legs from the installation will help.
6. Grabbing in the lower center of the LiftGator's crossmember, or platform, pull the LiftGator out of your truck's hitch receiver.
7. Move the LiftGator to a, preferably, inside and weather protected place for safe keeping.



Lifting Operation:

1. Once the LiftGator is installed, lower the platform so that you can easily access the tailgate latch to open your tailgate.
2. Bring the platform all the way up and unlatch the platform. At this point the platform will probably be a few inches above your tailgate.
3. Using the hand crank, socket, or drill, lower the stabilizer legs to the ground **with skates DETACHED**. You should do this until you see the weight of the LiftGator being taken off your truck's hitch receiver.
4. Lower the platform all the way to the ground and load your cargo onto the platform.
5. Raise the platform so that it is even with your tailgate.

WARNING: Elevated objects run the risk of falling from the platform and causing serious injury, or even death.

6. Unload your cargo into the bed of your truck.
7. Close the tailgate and fold your platform back in to place making sure that it latches.
8. Raise the stabilizer legs as high as they can go, and make sure the clevis pins are in the drop legs.
9. Position the platform so that it is not obstructing your view and you are ready to drive or remove your LiftGator.

Lowering Operation:

1. Once LiftGator is installed, lower the platform so that you can easily access the tailgate latch to open your tailgate.
2. Bring the platform all the way up and unlatch the platform. At this point the platform will probably be a few inches above your tailgate.
3. Using the hand crank, socket, or drill, lower the stabilizer legs to the ground **with skates DETACHED**. You should do this until you see the weight of the LiftGator being taken off your truck's hitch receiver.



4. Lower the platform until it is even with your tailgate.
5. Load your cargo from the bed of the truck to the LiftGator platform.
6. Lower the platform all the way to the ground and unload your cargo.

WARNING: Elevated objects run the risk of falling from the platform and causing serious injury, or even death.

7. Close the tailgate and fold your platform back in to place making sure that it latches.
8. Raise the stabilizer legs as high as they can go, and make sure the clevis pins are in the drop legs.
9. Position the platform so that it is not obstructing your view and you are ready to drive or remove your LiftGator.

Maintenance Operations:

A qualified technician shall perform all service and maintenance to the LiftGator. For more information, please call LiftGator.

Monthly Procedures:

1. Check for damage to lifting structure such as bent/misaligned members or cracked welds possibly resulting from misuse.
2. Check that all pins, bolts, and fasteners are tight and secure.
3. Check for worn or damaged bearings, pivoting points, pulleys, and cables.
4. Check that all controls operate properly.
5. Check ALL electrical wires and connections. They must be tight and free of corrosion.
6. Check that the platform auto latch secures the platform in a safe transport position.
7. Check lubrication of all pulleys, cables, and winch – refer to “Lubrication Instructions”.



6 Month Procedures:

1. Perform all “Monthly Procedures.”
2. Check that all decals are in place and legible. Call LiftGator for decal ordering instructions.
3. Inspect Winch for wear and damage.

Charging Instructions:

1. Each unit we send out will have a Duracell charger included. There will be a red and black cable with a connection point alongside the 7-pin cable where you can plug in the Duracell charger.
2. We recommend that anytime the LiftGator is off a vehicle, it is stored inside, near an outlet, and plugged in so that the batteries will remain charged.
3. If the batteries read below 12.1v, please charge them to full before using.
4. Like any ATV or small battery machine, if your LiftGator is not used for an extended period, and has not been plugged in, you could see a drain on the batteries’ charge.



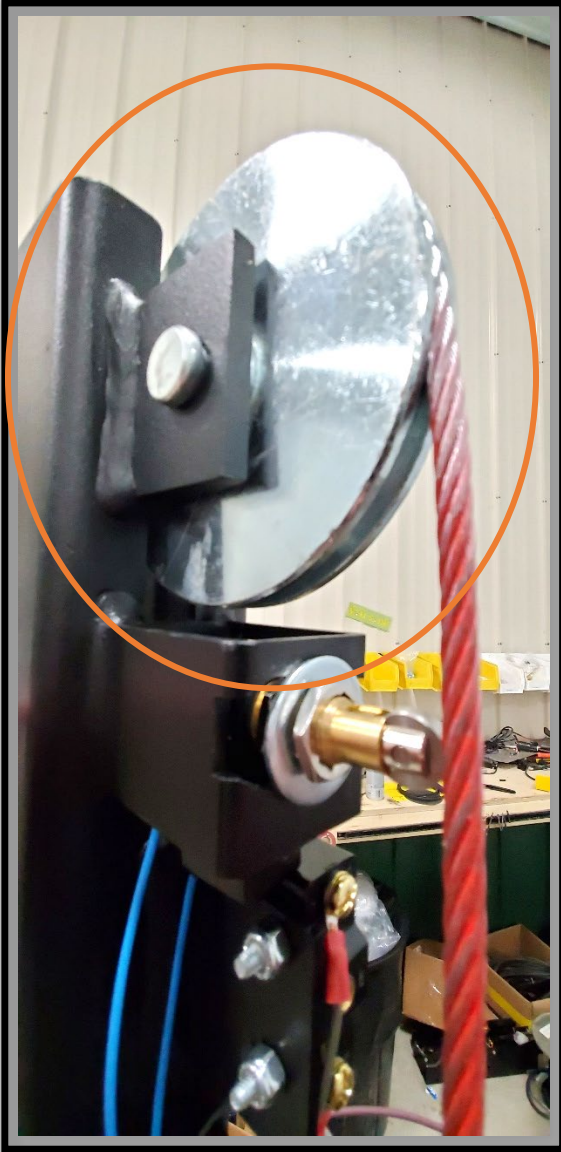
Lubrication Instructions:

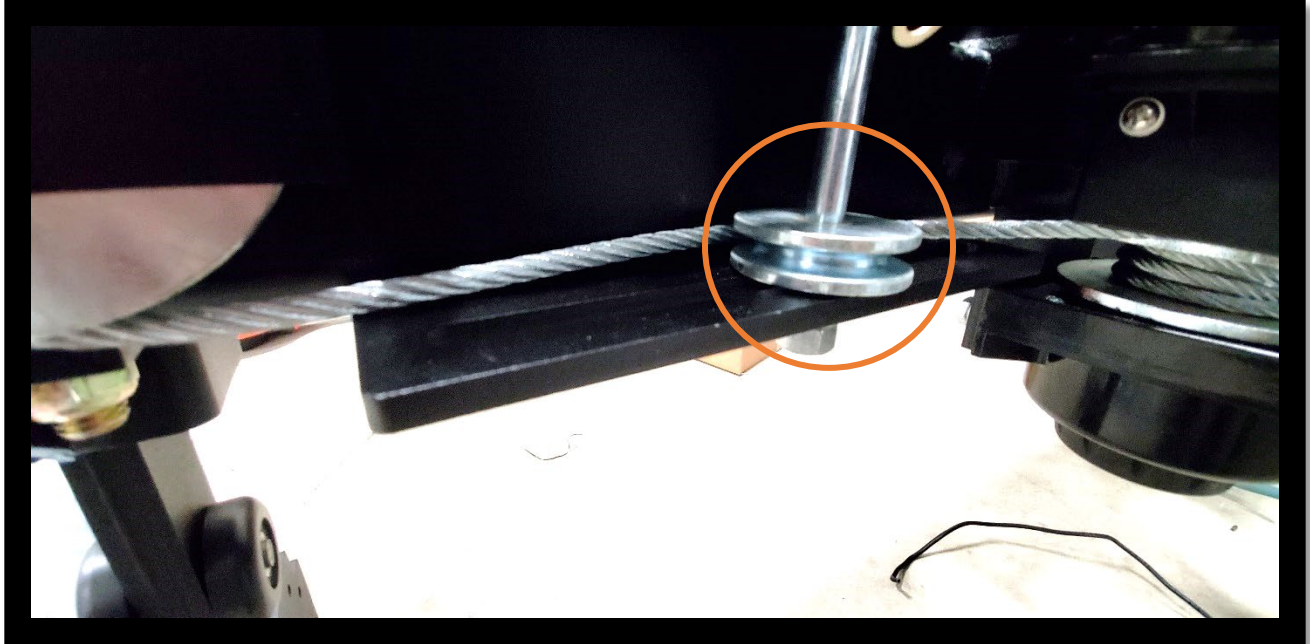
The LiftGator should be lubricated every 3 months. Using a lightweight machine oil or white lithium grease, lubricate all the pivoting and rubbing joints on the LiftGator, including:

- Front Flap and Kick Flap pivoting hinges.
- Pivot points between the two carries and platform center.
- Entire length of both wire ropes (white lithium grease).
 - Run the LiftGator through a full cycle (up and down) while lubricating the wire rope as it cycles through the upper pulleys, lower pulleys, and winch clamp.
- Upper pulleys, lower pulleys, and tensioner pulley pivot points.



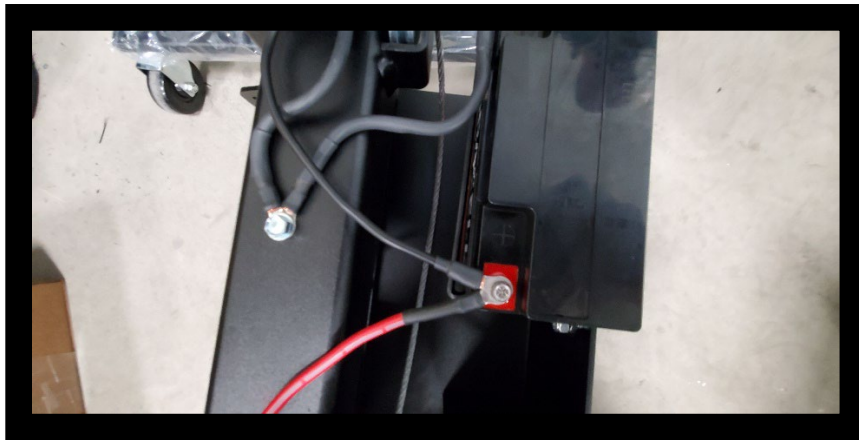
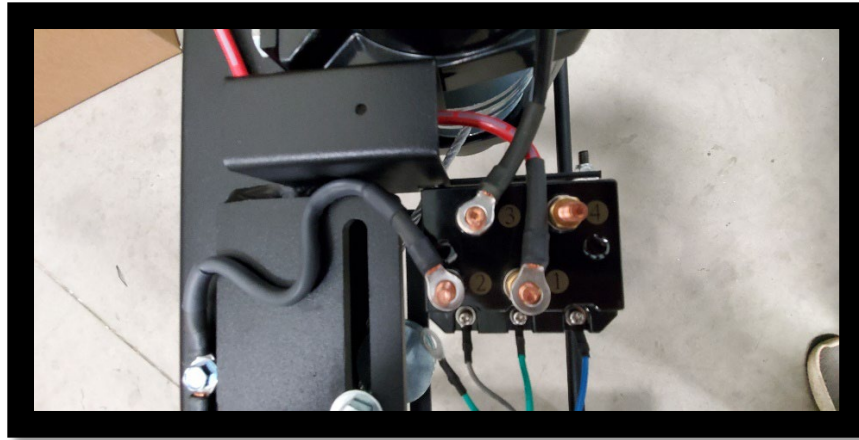
Lubrication Areas:





Connection Points:

Check all electrical connection points. If there is rust or corrosion DO NOT use the unit. Please contact LiftGator Service for new parts. Examples below:



Troubleshooting Potential Issues:

<u>Issue</u>	<u>What Might Be Wrong</u>	<u>Possible Fix</u>
Platform Switch Will Not Work	Poor Connection	Check to ensure the batteries are fully charged (13.1v), and that all the wiring connections are in good standing. If batteries are drained, need to charge them, or replace them. Image 1 for reference.
Platform Does Not Raise or Lower	Platform Winch Motor May Be In-operable. The Platform Being Used with Low Batteries Can Cause Damages the Winch Motor.	If the platform switch appears to be working, the batteries are fine, and your platform still will not raise or lower, check to ensure that enough voltage (at least 12.4v) is getting to the platform motor. Image 2 and 3 for reference.
Platform Works Intermittently	Bad Solenoid	Make sure that the connections and wiring going to the solenoid is intact and in good condition. Image 4 for reference.
Platform Will Not Go Down	Upper Slack Out Switch Not Engaged	Check to make sure that the upper slack out switch (directly below the pulley on the passenger side) is engaged correctly. Should have plastic guide on it to trigger switch. Image 5 for reference.
Platform Will Not Go Up	Lower Limit Switch Not Engaged	Check to make sure that the lower limit switch (faces inside of the upright tube) is engaging correctly. Image 6 for reference.

Images for Reference:

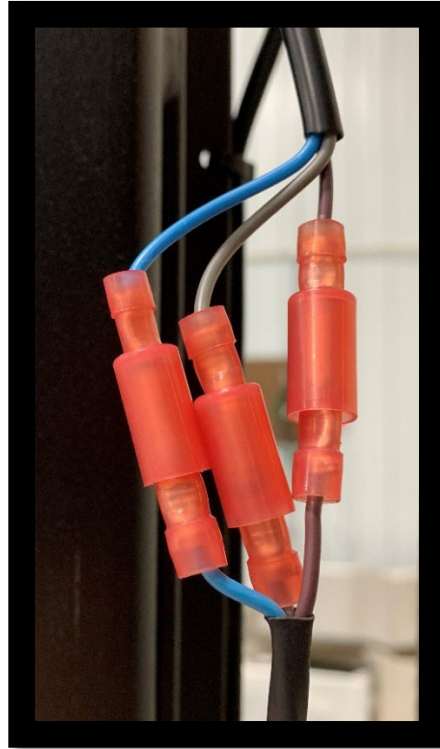


Image 1



Image 2



Image 3

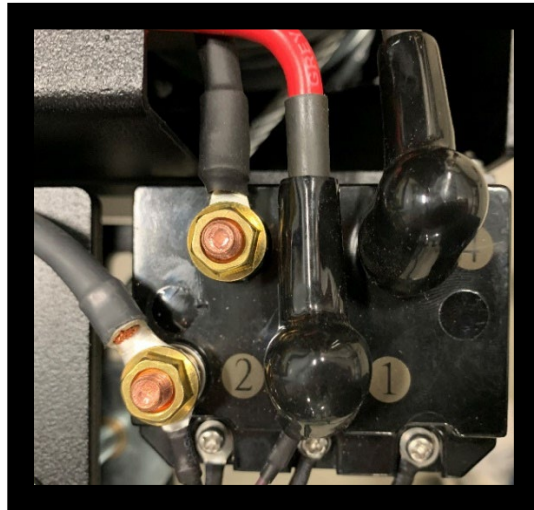


Image 4

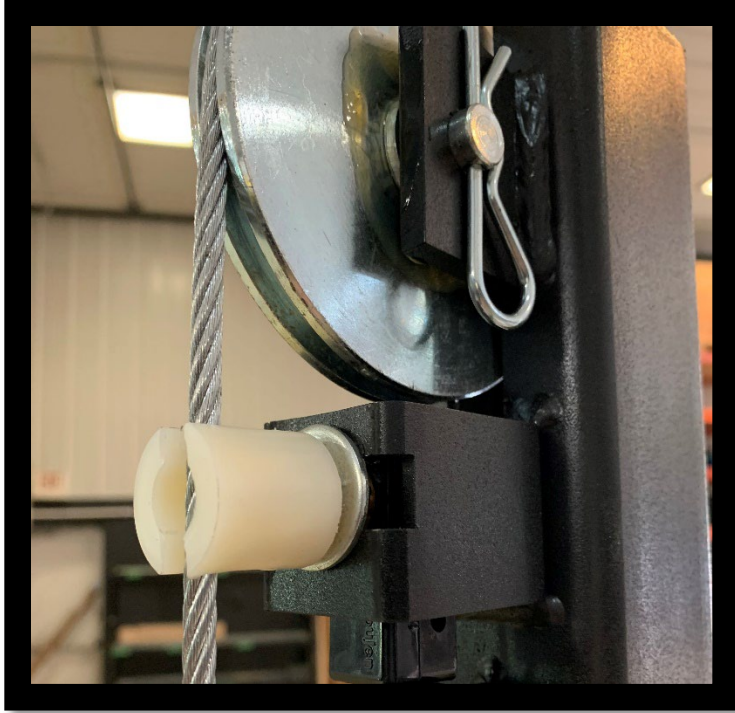


Image 5

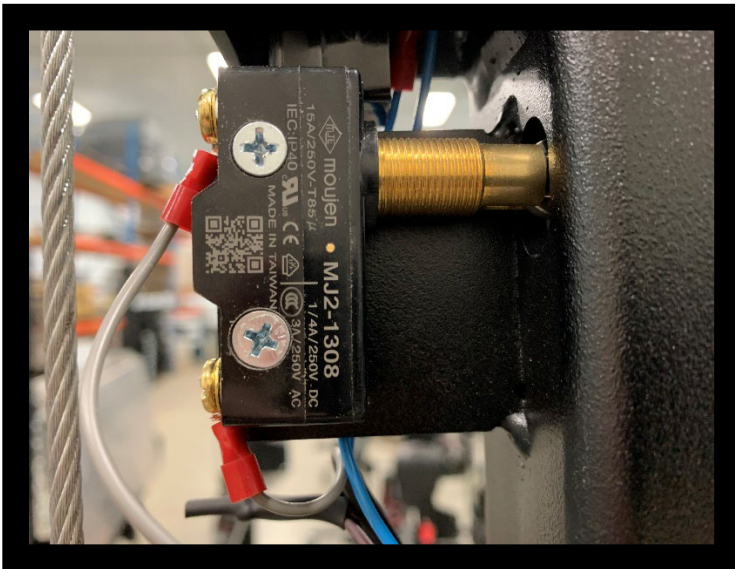


Image 6