



# LUMA

## MAINTENANCE AND TROUBLESHOOTING GUIDE

Part No. 001567, Rev. 000  
22-m04-2025

## Standard notations

The following notations may be used throughout this guide to emphasize important safety information, mechanical concerns, and other important information. Please review and follow all of these messages.



### **DANGER**

Danger messages indicate an imminently hazardous situation, which, if not avoided, results in death or serious injury. All danger messages feature a standard ISO safety alert symbol followed by the signal word *Danger* in capitalized black lettering on a red background.



### **WARNING**

Warning messages indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury. All warning messages feature a standard ISO safety alert symbol followed by the signal word *Warning* in capitalized black lettering on a dark yellow background.



### **CAUTION**

Caution messages indicate a potentially hazardous situation, which, if not avoided, could result in death or serious injury. All caution messages feature a standard ISO safety alert symbol followed by the signal word *Caution* in capitalized black lettering on a yellow background.

### **CAUTION**

Caution messages that do not include the ISO safety alert symbol indicate a potentially hazardous situation for the machine only, which, if not avoided, could result in damage to the machine. All caution messages include the signal word *CAUTION* in capitalized black lettering on a yellow background.

### **NOTE**

Note messages provide information, such as reminders, general information about a previous statement, or additional guidelines that do not fit into the flow of the preceding text. All note messages include the signal word *Note* in capitalized white lettering on a blue background.

## Hazards and cautions



### **ELECTRICAL SHOCK HAZARD**

Do not connect or disconnect wiring while the power is on. Failure to comply will result in death or serious injury. Before servicing, disconnect all power to the equipment. The internal Capacitor remains charged even after the power supply is turned off. The Charge indicator LED extinguishes when the DC bus voltage is below 50 V DC. To prevent electric shock, wait at least five minutes after all indicators are OFF and measure the DC bus voltage level to confirm safe level.



### **WARNING**

#### **SUDDEN MOVEMENT HAZARD**

System may start unexpectedly upon application of power, resulting in Death or serious injury. Clear all personnel from the drive, motor, and machine area before applying power. Secure covers, couplings, shaft keys, and machine loads before applying power to the drive. Unpredictable equipment operation may result in death or serious injury.



### **ELECTRICAL SHOCK HAZARD**

Do not attempt to modify or alter the variable frequency drive in any way not explained in the drive unit manual. Failure to comply could result in death or serious injury. Savaria is not responsible for any modifications of the product made by the user. Do not allow unqualified personnel to use equipment. Failure to comply could result in death or serious injury. Maintenance, inspection, and replacement of parts must be performed only by authorized personnel familiar with installation, adjustment, and maintenance. Do not remove covers or touch circuit boards while the power is on. Failure to comply could result in death or serious injury.



### **WARNING**

#### **FIRE HAZARD**

Do not use an improper voltage source. Failure to comply could result in death or serious injury by fire. Verify that the rated voltage matches the voltage of the incoming power supply before applying power.



### **WARNING**

#### **CRUSH HAZARD**

Never connect or disconnect the motor from the controller while the controller is outputting voltage. Improper equipment sequencing could result in damage to the controller.



### **WARNING**

Make sure the building ground is connected to the controller ground bus before turning the disconnect on. Improper or no ground can result in shocking hazard and unsafe operation.

Follow the instruction steps to ensure your safety during Eclipse maintenance and troubleshooting. Failure to follow instructions renders the Limited Warranty null and void. In addition, any party installing the product who deviates from the installation instructions agrees to indemnify, save, and hold harmless the manufacturer from any and all loss, liability, or damage that may occur as a result of the deviation.

**Disclaimer**

Savaria Concord Lifts, Inc. disclaims liability for any personal injury or property damage resulting from the operation of a product that has been modified from the original Savaria design. No person or company is authorized to change the design of this product without written authorization by Savaria.

**NOTE**

**When replacing parts, use genuine Savaria parts only.**

**Revision history of this guide**

- May 8, 2025 – Initial release

**List of steps in this guide**

The following table lists all the steps found in this guide.

| Step                             | Page              |
|----------------------------------|-------------------|
| <a href="#">Rope Replacement</a> | <a href="#">4</a> |

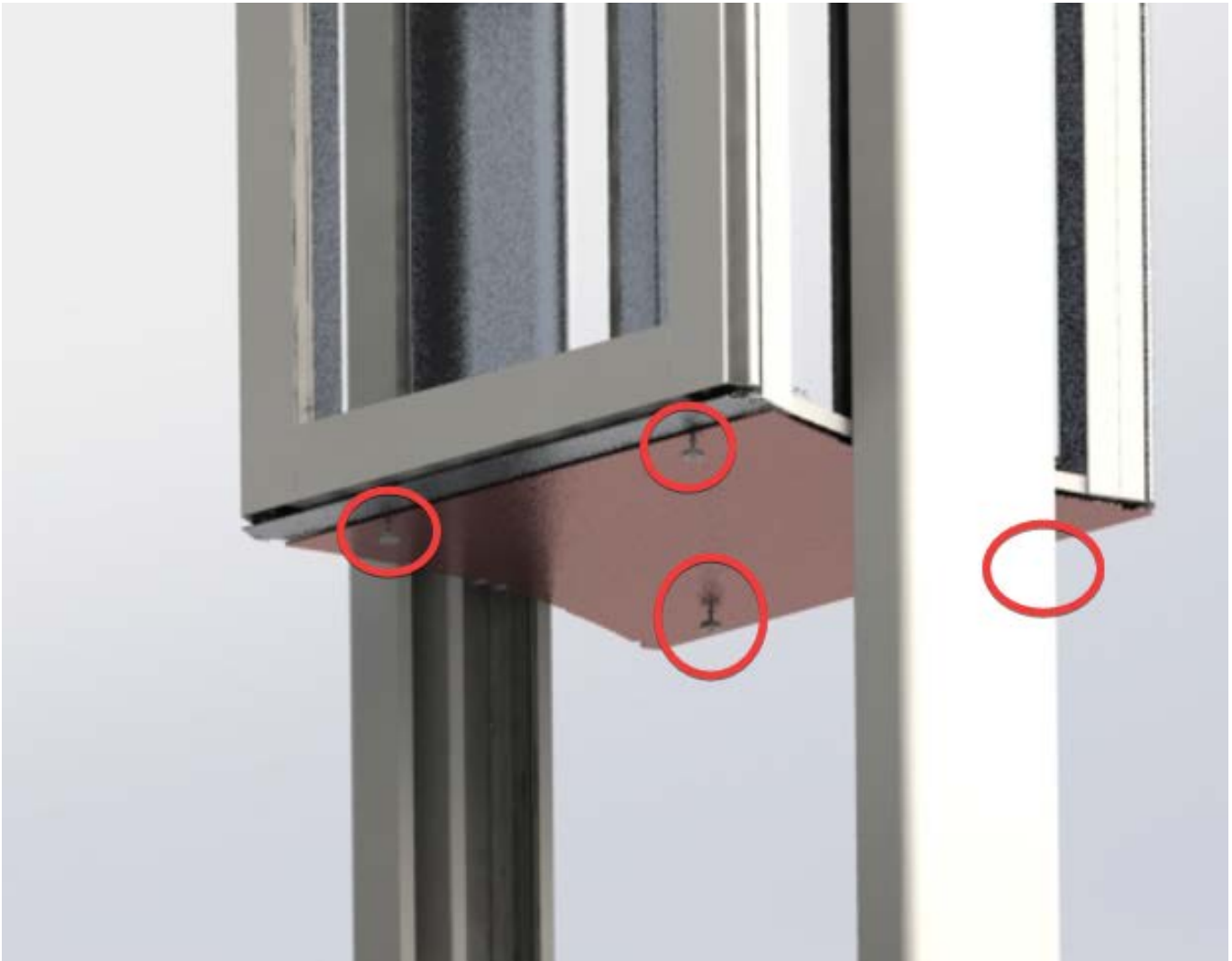
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## Rope Replacement

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- 1 Install the Floor Levelers on the CAB.

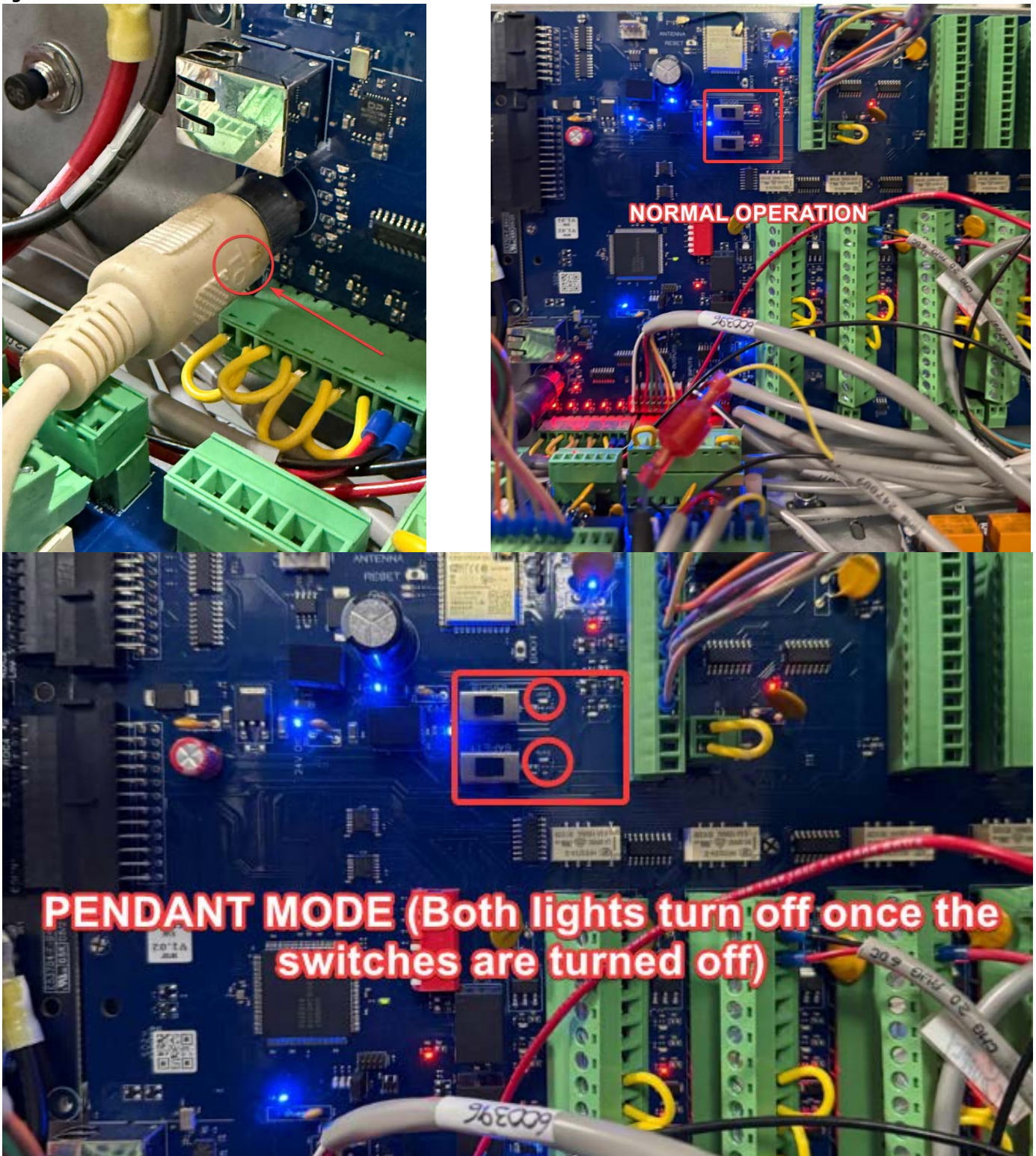
Figure 1



- 2 Bring down the lift to the lower landing, and make sure it's rested against the floor.

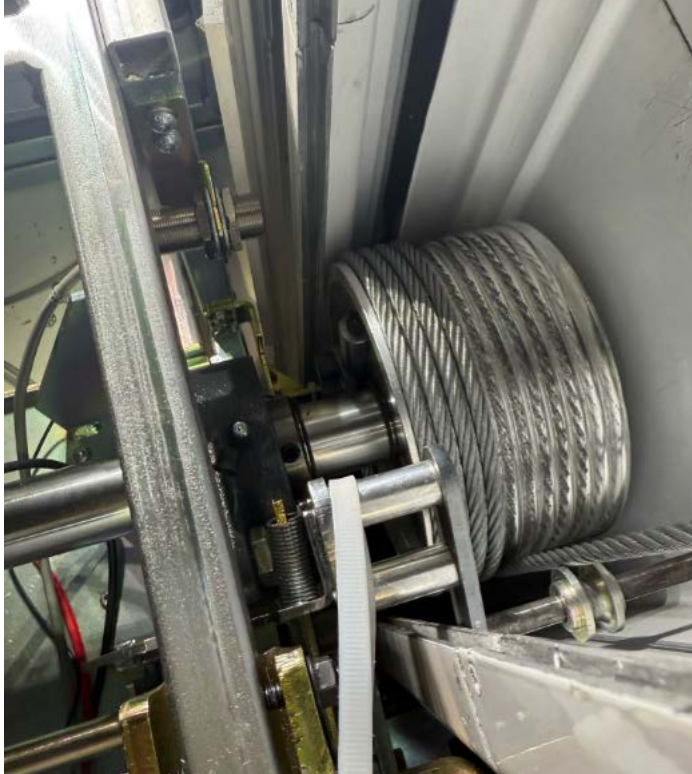
3 Plug in the Pendant, and turn off both safety switches to activate "Engineer Mode"

Figure 2



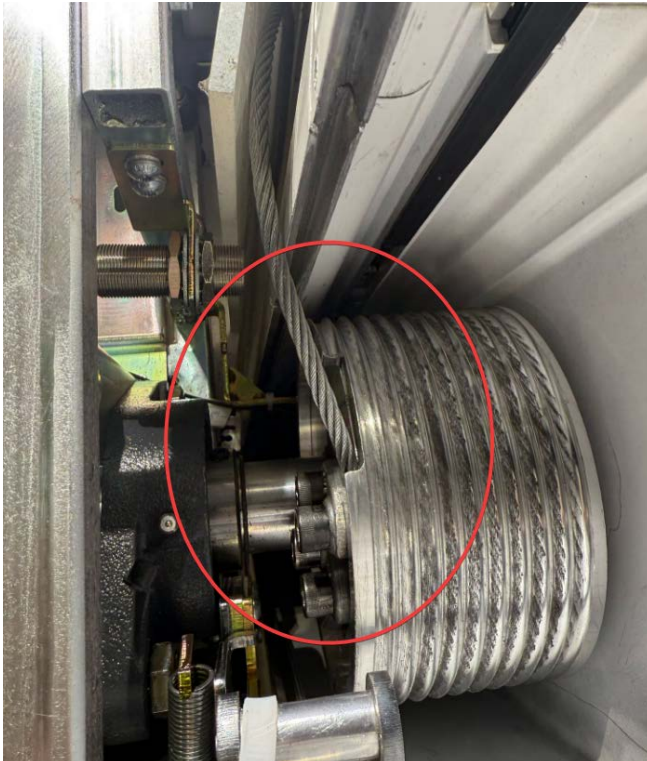
- 4 Remove the rear roller assemblies from both sides of the drive box. Then, compress the slack rope lever assembly and secure it in the compressed position using zip ties.

**Figure 3**



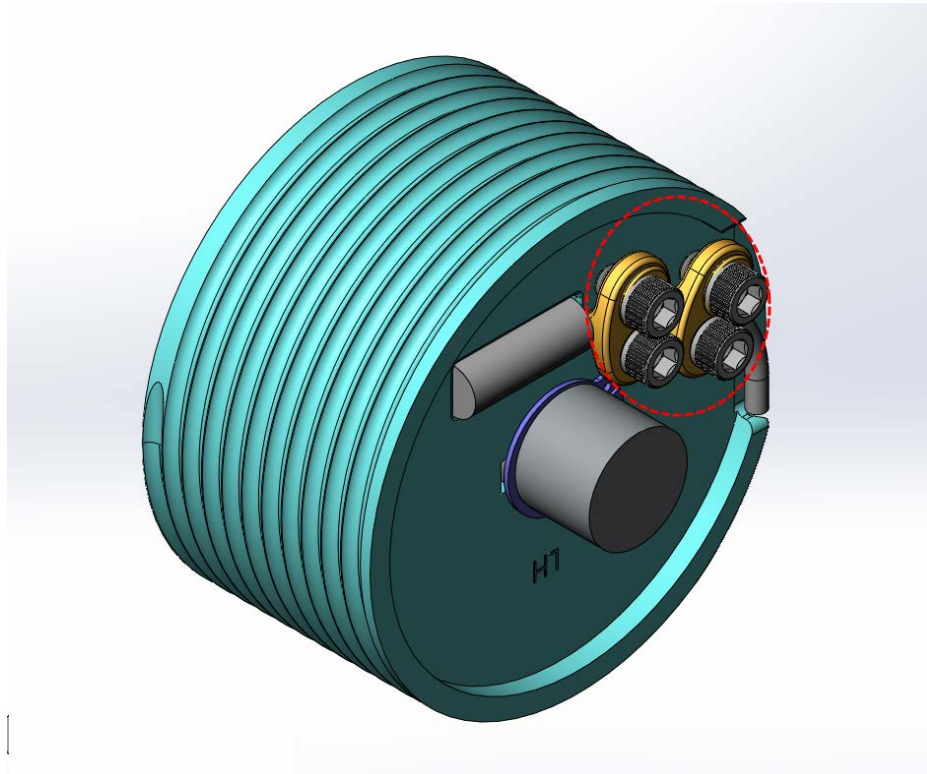
- 5 Using the pendant continue running the lift downward until the ropes are fully unwound from the drum. At this point, rotate the drum in the forward or reverse direction as needed to access the screws securing the rope ends. As space is restricted, use a **short Allen key**

**Figure 4**



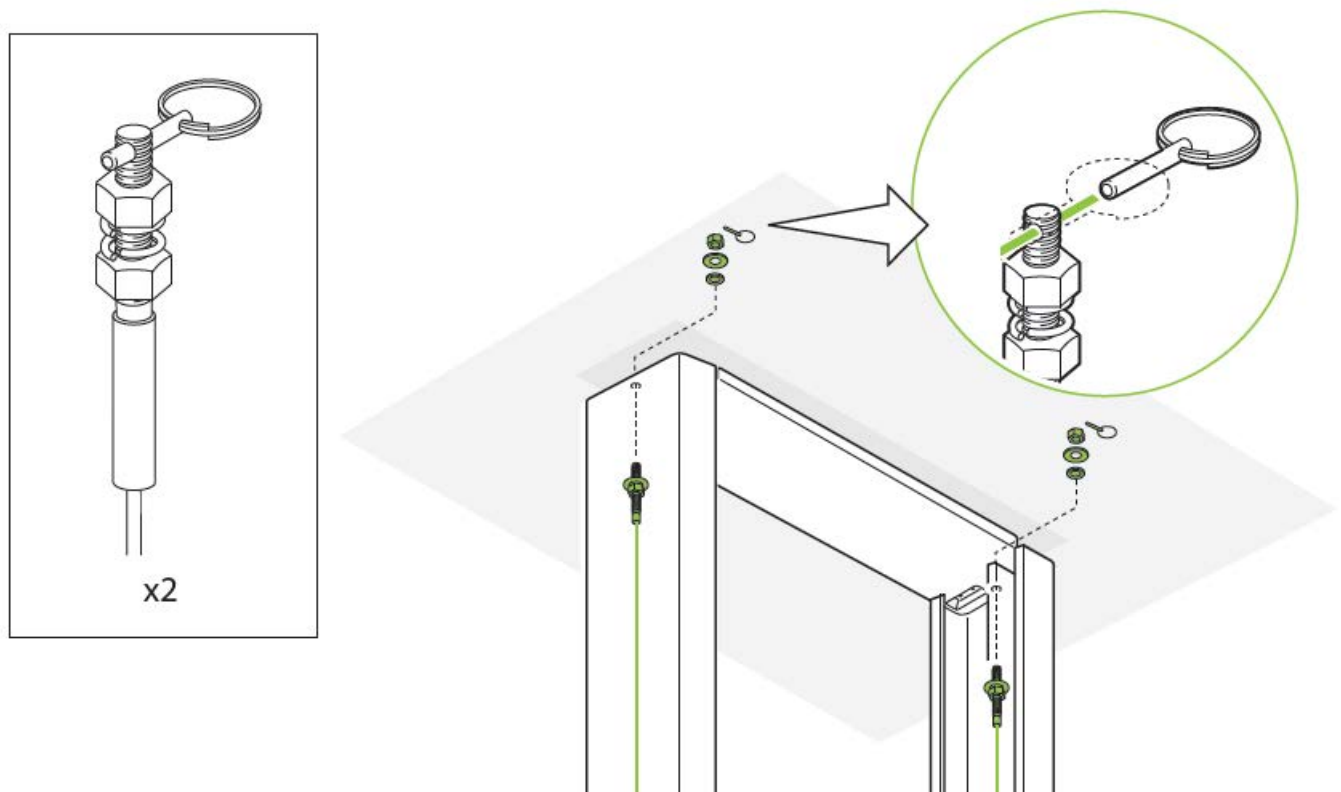
- 6 Remove the first two screws along with the corresponding plate from the drum. Then, proceed to remove the second plate. Alternatively, you may choose to remove one screw and loosen the other to pivot the plate, allowing the rope to be released. Once all four screws are removed and the rope is free, repeat the same procedure on the opposite side.

**Figure 5**



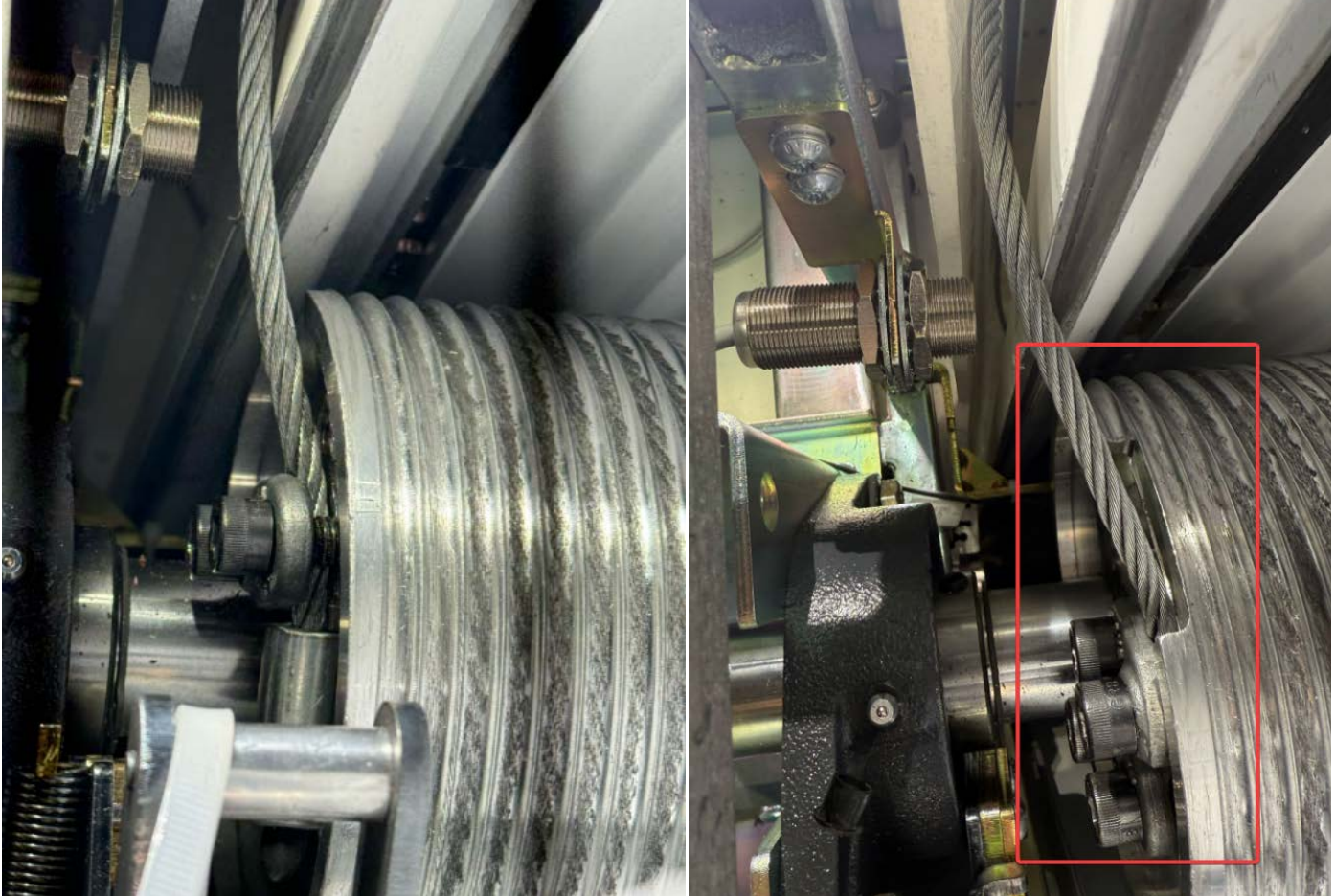
- 7 Remove the quick-release pin, then remove the nut to fully detach the ropes from the ceiling plate.

**Figure 6**



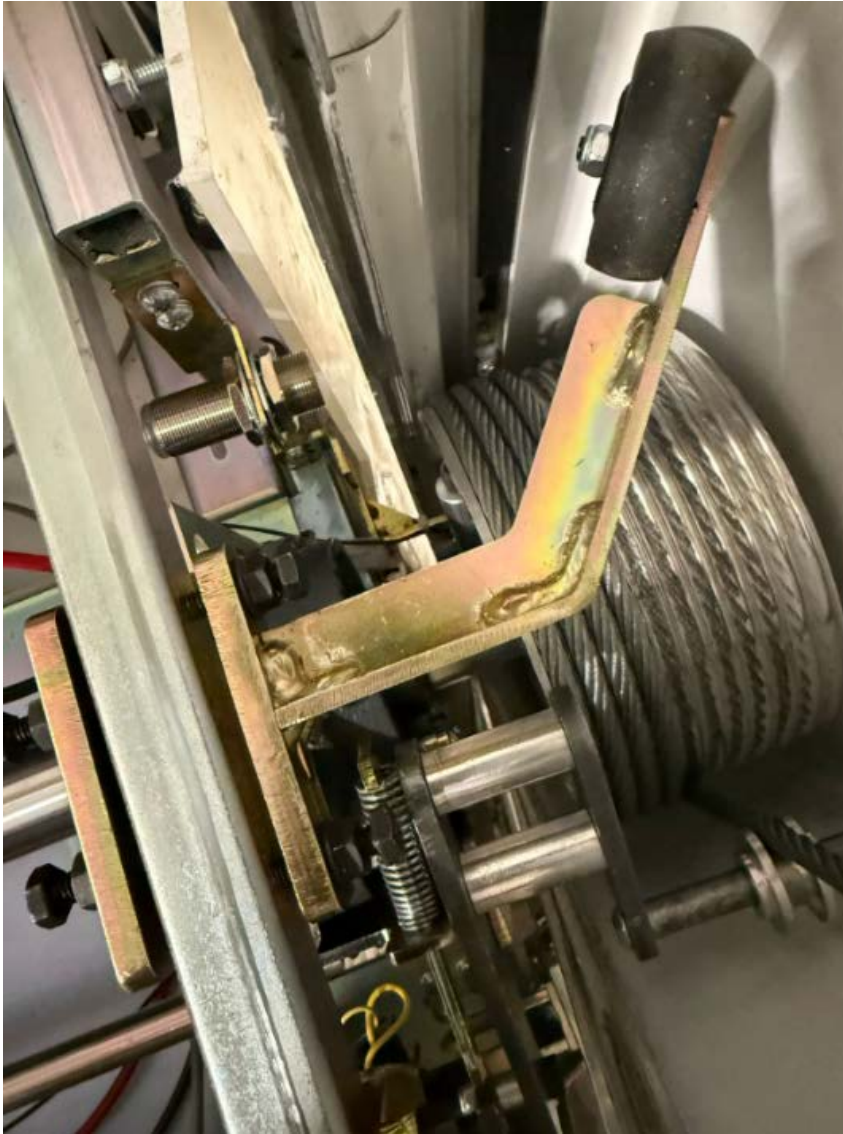
- 8 Install the new ropes onto the ceiling plate on both sides. Ensure that the nuts are properly tightened, and the quick-release pin is securely inserted.
- 9 Insert the rope wedge into the drum pocket on the corresponding side. Pass the rope through the first rope-holding plate and secure it using both screws. Then, guide the rope through the second plate and tighten the screws to secure it in place. Apply a medium-strength thread locker (e.g., Loctite) to all screws during installation. Repeat this procedure on the opposite side. **Note: All screws must be torque-tightened to 33 Nm.**

Figure 7



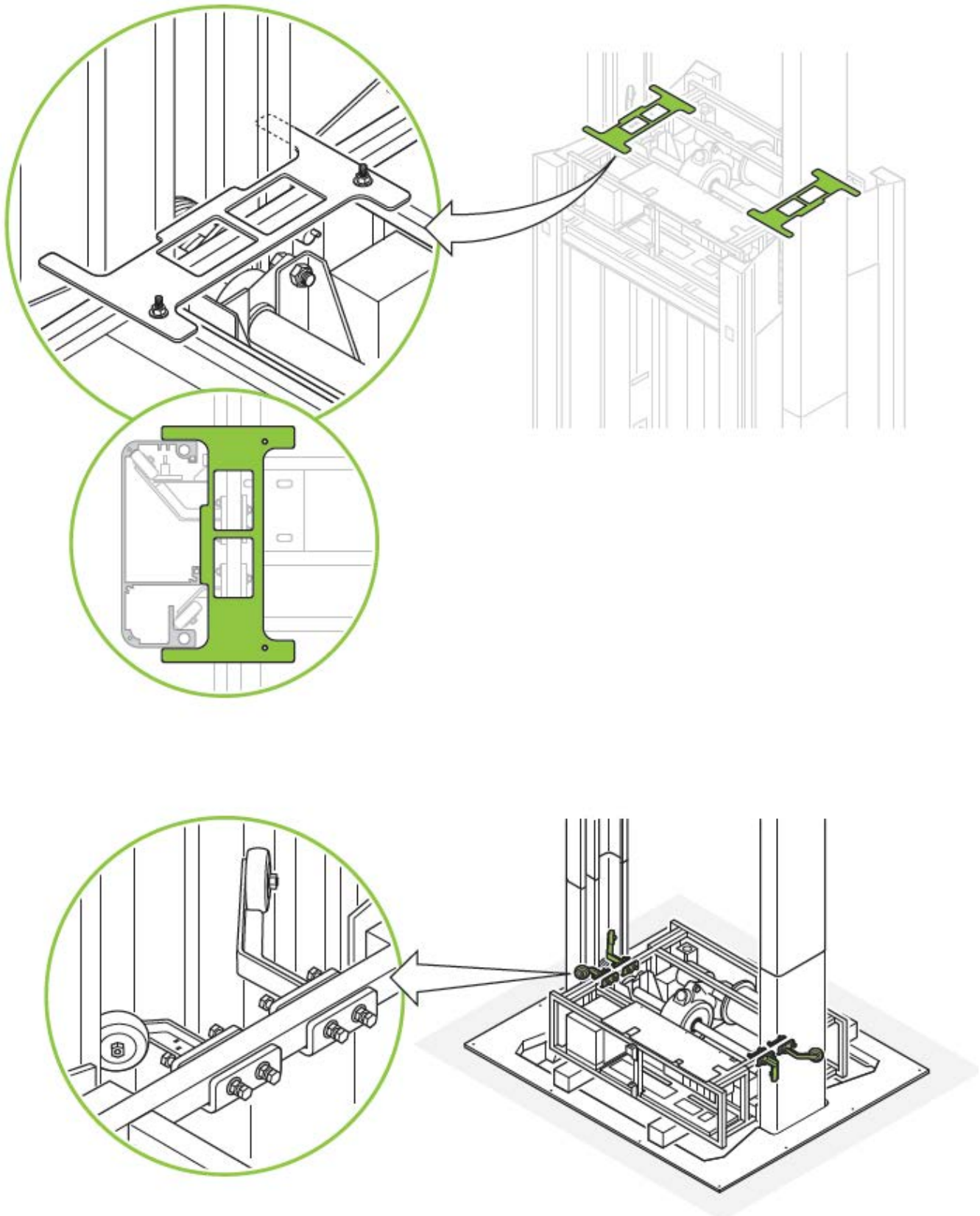
- 10 Once the screws are securely tightened, begin winding the ropes back onto the drum. Ensure the ropes follow the grooves properly without skipping. **Maintaining slight tension on the rope during winding will help prevent misalignment.** Continue winding until the excess rope is taken up and the cab is lifted off the ground and fully suspended. At this point, remove the zip tie securing the slack rope lever assembly and properly engage the lever with the rope and pulley.

Figure 8



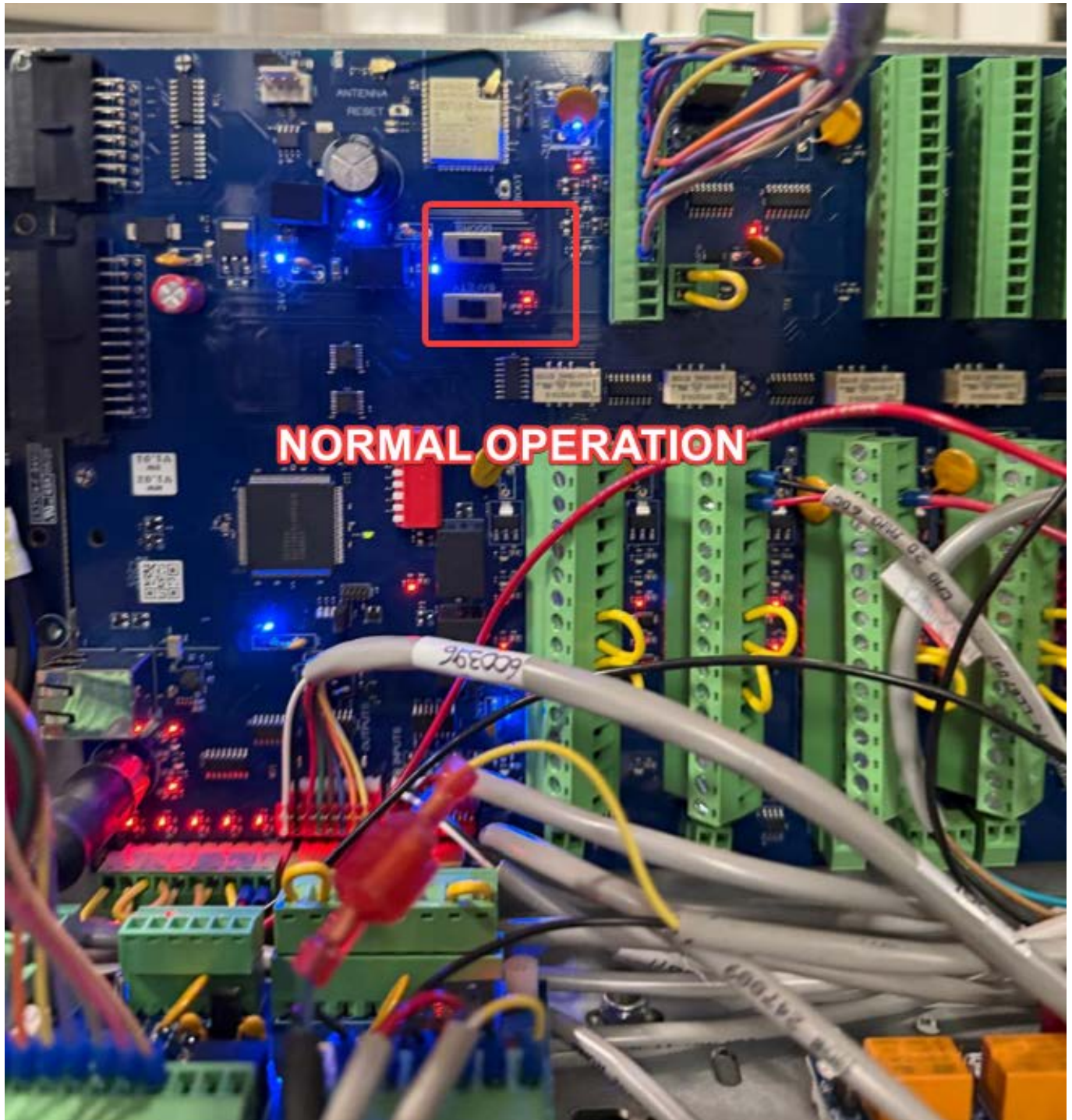
- 11 Using the Top Roller Jig, align and reinstall the rear roller assembly that was previously removed to allow access. Ensure the assembly is properly positioned and secured before proceeding.

**Figure 9**



- 12 Disconnect the pendant from the controller and turn on both safety switches. Also, remove the floor levelers that were initially installed in the cab.

Figure 10



# **LUMA MAINTENANCE AND TROUBLESHOOTING GUIDE**

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