

Solo 3

Indoor

375 External

Installation Instructions



INSTALLERS: Please leave this manual with the owner.





Scan the QR code to view the SI warranty for this product.



Please use this QR Code to access the updated installation instructions and related documents.

Technical Support: 512.832.6939
Hours of Support: 7:30am – 5pm CST

screeninnovations.com
screensupport@screeninnovations.com

TABLE OF CONTENTS

Parts in the Box4

Spacer Blocks (Optional)5

Installation – Solo 3 375 External – Indoor6 – 12

Power Options8 – 11

 AC, Low Voltage (DC), and Control – Wiring.....8

 Setting Up Wired Screen Using Moab 9-10

 Wire Considerations.....11

Releasing the Weight Bar Brackets 13

References 14

Servicing Solo 3 375 External – Indoor.....15-23


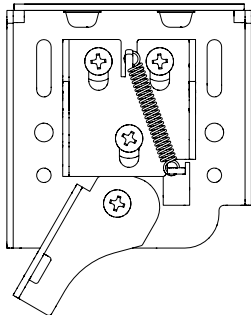
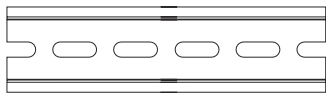
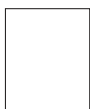
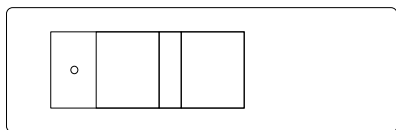
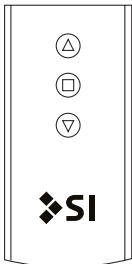
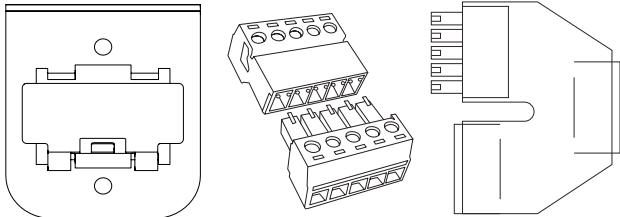
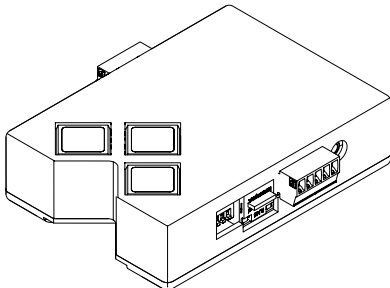
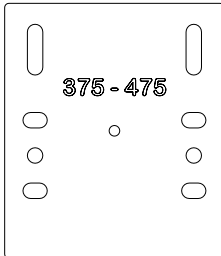
 Inspecting the Roll.....15-16

 Tube Removal.....17-18

 Tube Installation19-22

 Wireless Sleep Mode 23

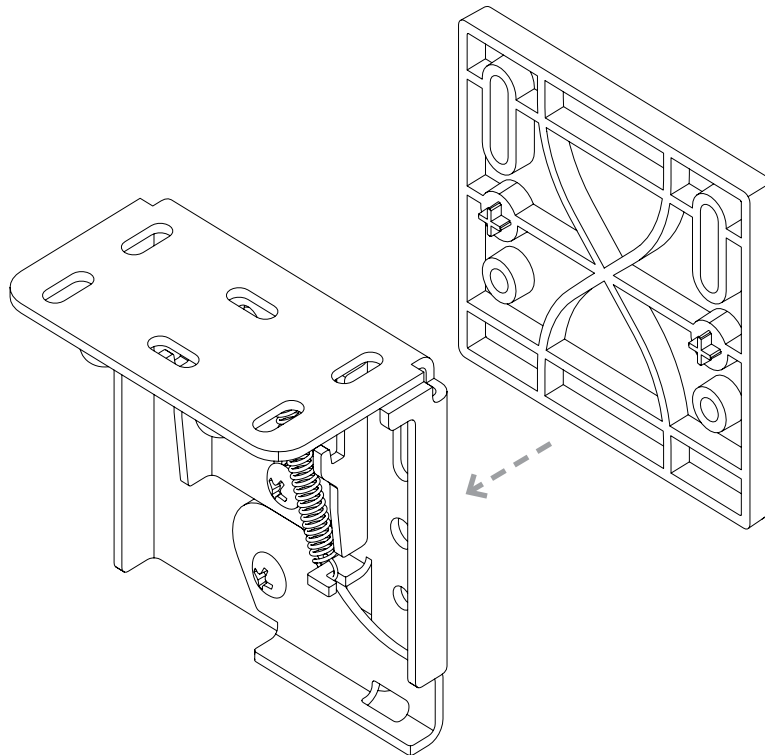
PARTS IN THE BOX

<div>Screen</div> <div></div> <div>375 Box</div>		<div>Wall Brackets</div> <div></div>
<div>Din Rail (AC – 485 screens only)</div> <div></div>	<div>RJ45 Coupler (AC – 485 screens only)</div> <div></div>	
<div>RF Remote (1 per RTF screen)</div> <div></div> <div>Included remotes' form factor may vary, however functionality and performance is consistent.</div>	<div>IR Remote</div> <div></div>	<div>Terminal Blocks, Bracket, and DUOCoup (per low voltage and/or 485)</div> <div></div>
<div>Moab Control Board (1 per 485 screen)</div> <div></div> <div>Included in the box with hardwired control screens only</div>		<div>Spacer Blocks (Optional – 4 per screen)</div> <div></div>
<div>Note: Use appropriate fasteners based on structure on-site</div>		

SPACER BLOCKS (OPTIONAL)

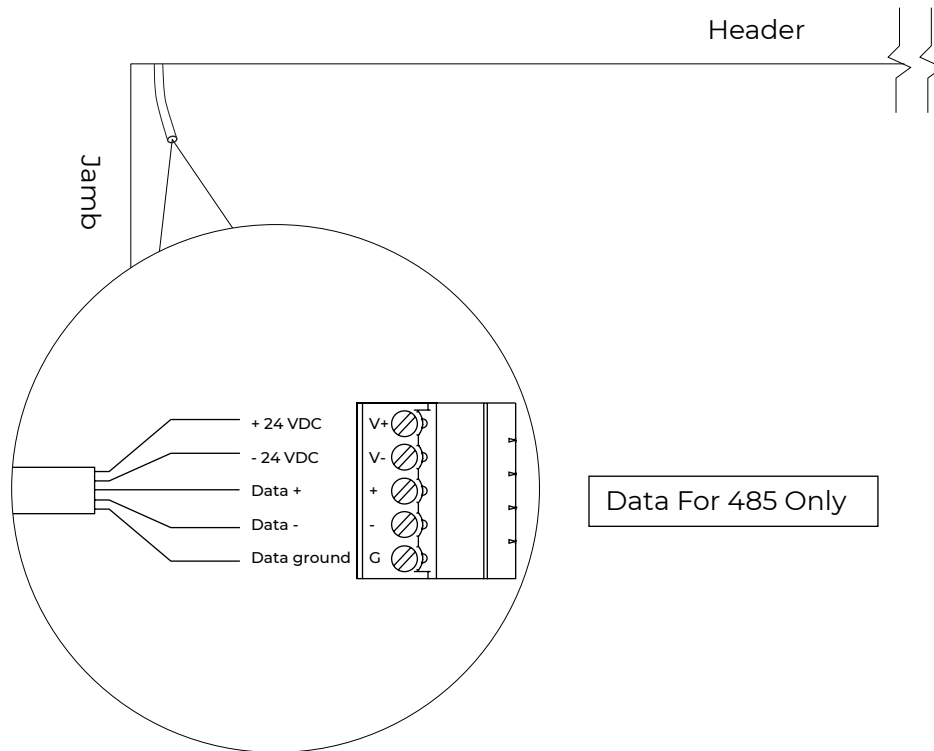
Spacer Blocks – Used to clear an obstruction in the screen or screen material path.
Before installing, connect spacer blocks to screen brackets.

NOTE: Do not use more than four (4) spacer blocks per bracket.



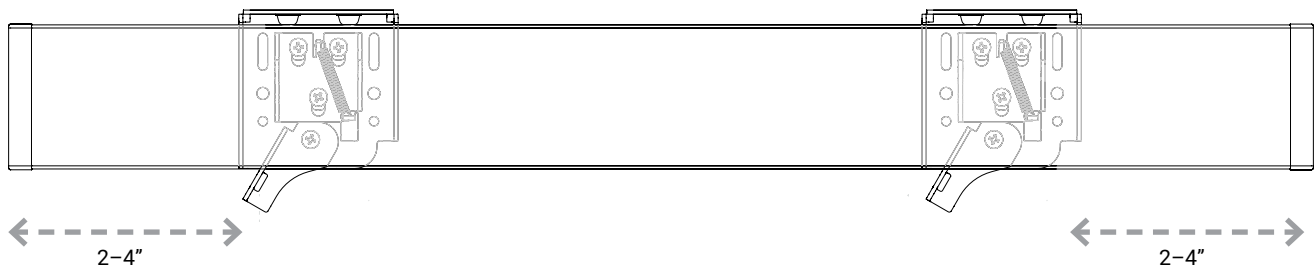
INSTALLATION – SOLO 3 375 EXTERNAL – INDOOR

1. Terminate pre-wire with the supplied terminal block.



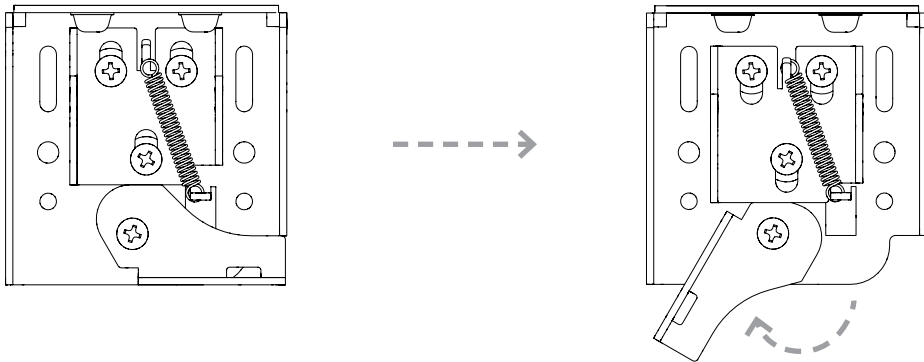
2. The recommended position for the box bracket is 2–4" from the end caps.

NOTE: Installing the wall brackets as close to the end of the cassette as possible ensures better stability of the screen.

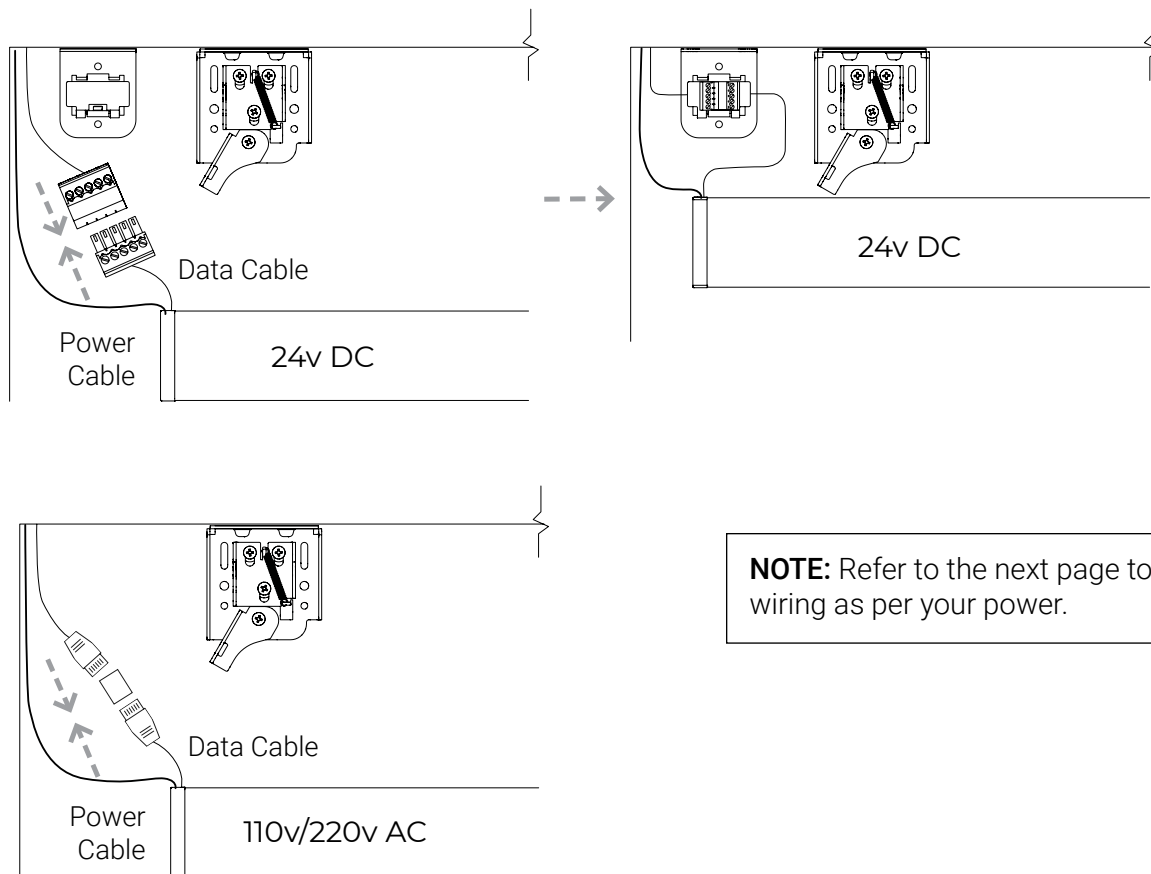


INSTALLATION – SOLO 3 375 EXTERNAL – INDOOR

3. To install the screen, start with the wall bracket lever pointed down in the unlocked position.



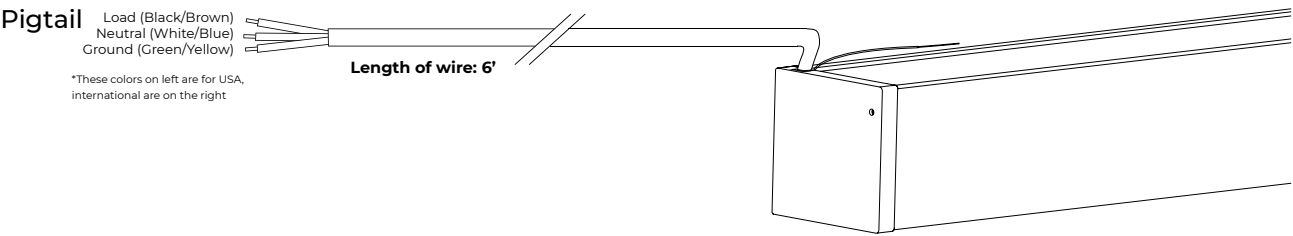
4. Ensure the terminal blocks are plugged in and installed in the brackets.



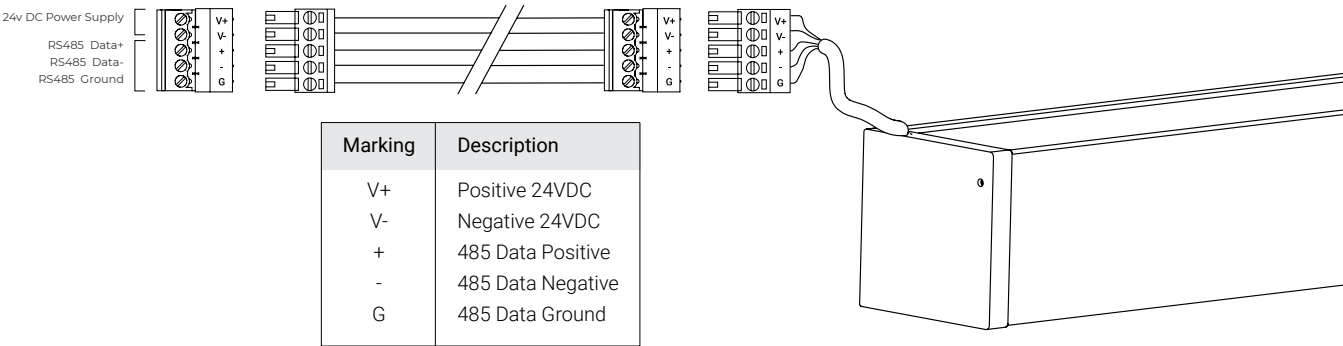
NOTE: Refer to the next page to see the wiring as per your power.

AC, LOW VOLTAGE (DC), AND CONTROL – WIRING

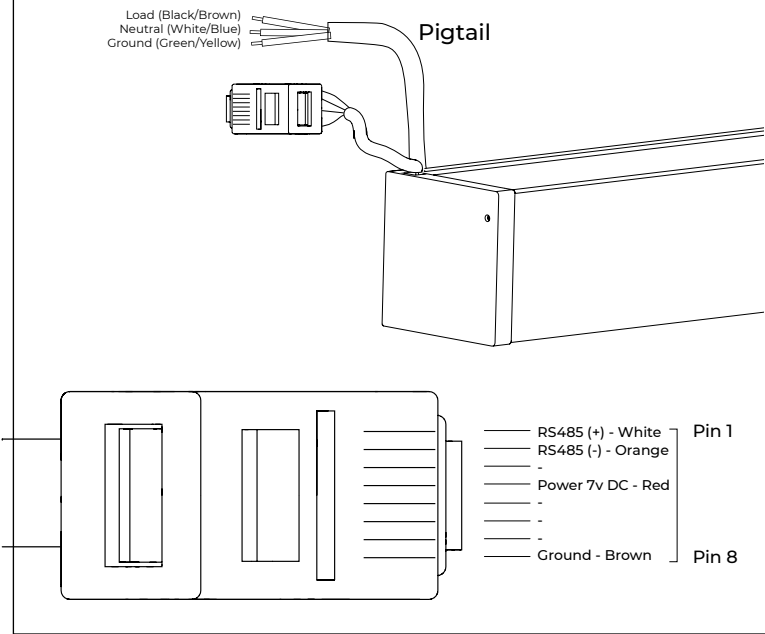
AC Wiring (AC Motor – Wireless Control)



DC Wiring (DC Motor – Wired Control)

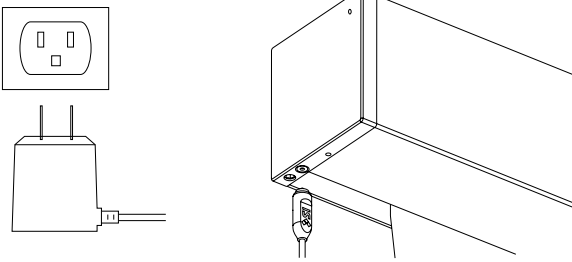


DC Wiring (110 or 220v) AC (Motor – Wired Control)

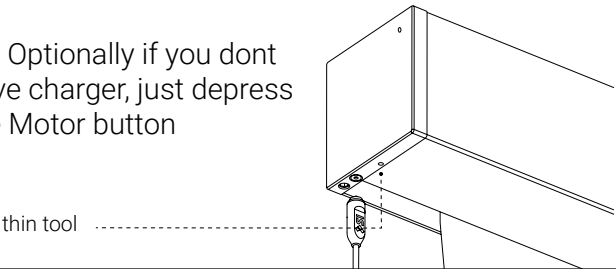


DC Wiring (24v) DC (Motor – Wireless Control)

1a. Connect charger (Preferred)



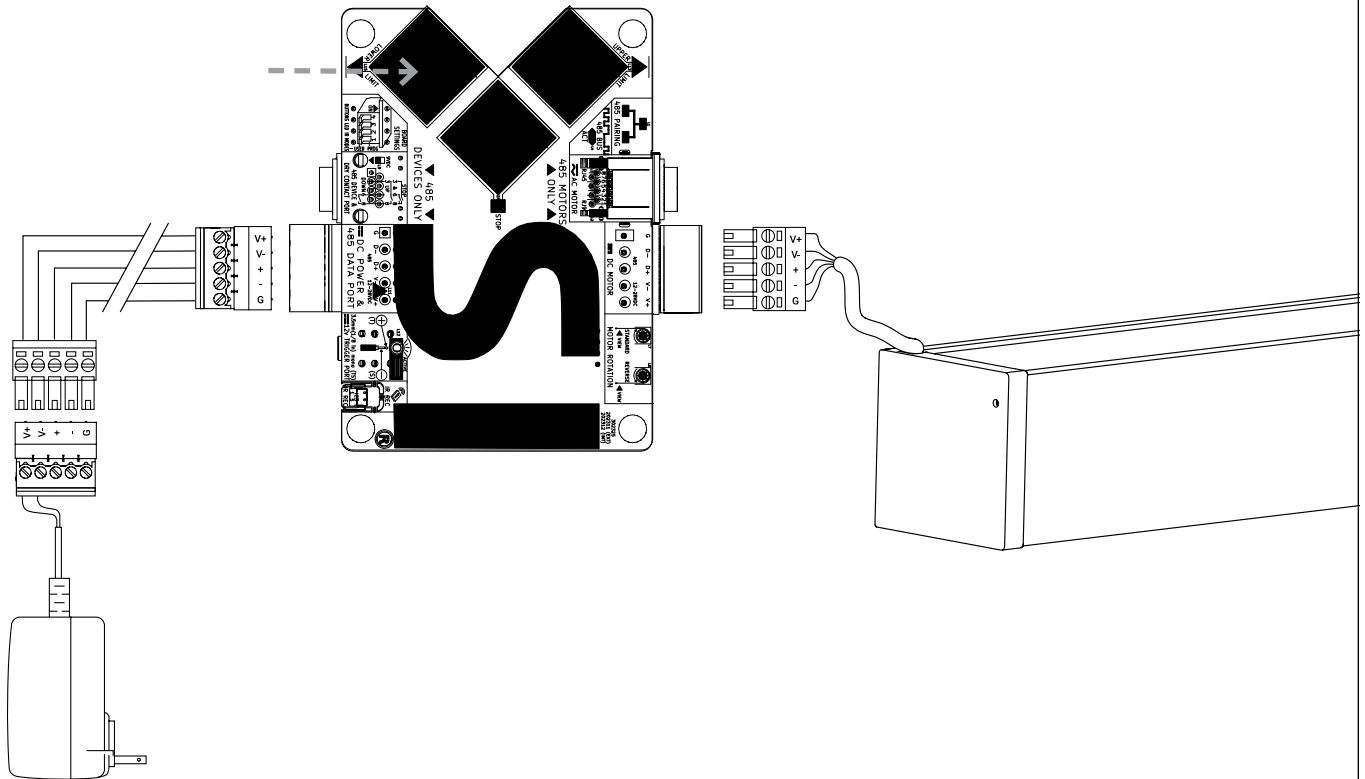
1b. Optionally if you dont have charger, just depress the Motor button



SETTING UP WIRED SCREEN USING MOAB

5. If the screen is wired with wired communication or 485 control, it will include a motor control board, Moab. This control board allows for setting limits and/or controlling the screen. Typically, this board is located in the head end/equipment location. See the wiring chart on *page 11* to determine maximum wire length.

DC Wire Diagram Illustrating Inital Setup



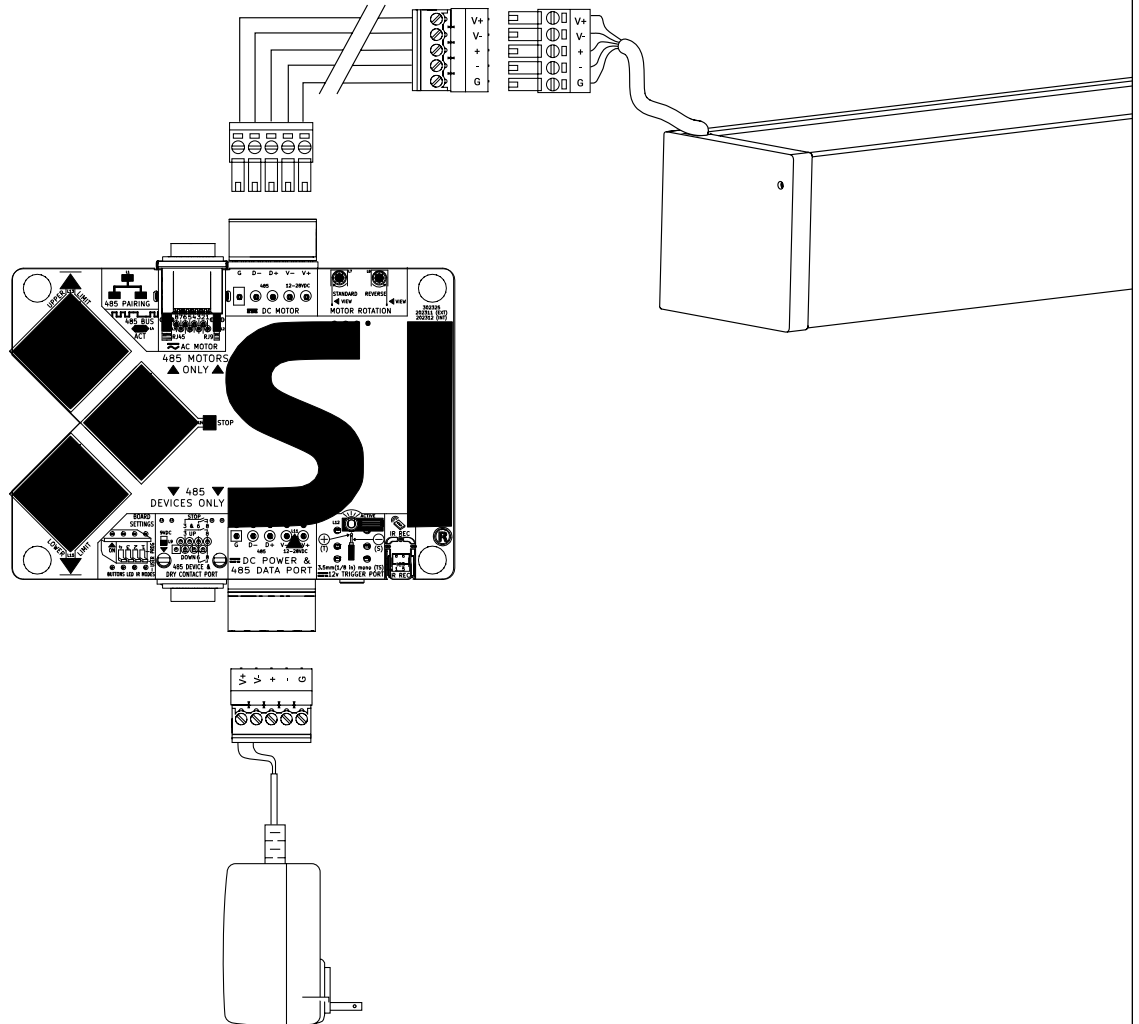
6. Upper and lower limits are already factory-set. Once all connections are made including the power supply, you may now adjust the lower limits using the Moab control board.



Scan the QR code for complete details on how to install and program using Moab.

SETTING UP WIRED SCREEN USING MOAB

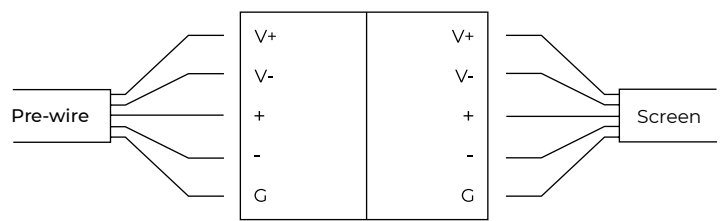
7. Once all adjustments are made and finalized, the Moab may now be placed in a convenient location for the install. Third party control such as Dry Contact closures, 12v Triggers, Serial Connections, and Infrared may now be integrated with Moab.



Scan the QR code for complete pinout and third party integration details using Moab.

WIRE CONSIDERATIONS

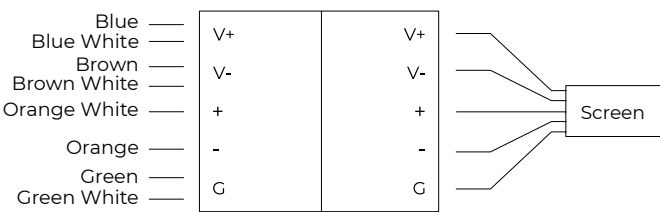
24v DC – Using 5 Conductor Wire



Wire Gauge (AWG)	Maximum Supported Wire Length (ft)
14	250
16	150
18	100

24v DC – Using UTP Wire

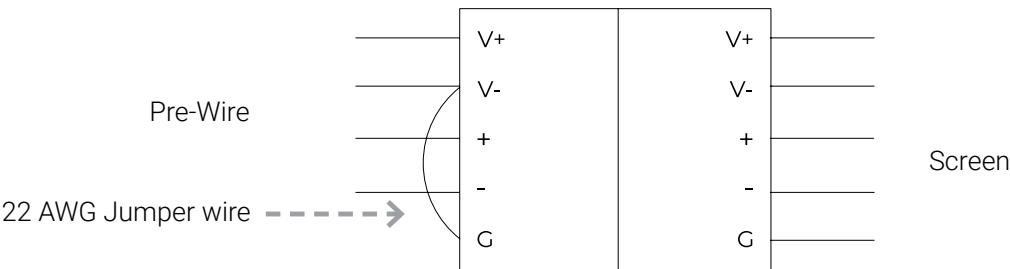
Wire between Janus terminal block face and the motor only.



Wire Gauge (AWG)	Supported Wire Length (ft)
24 w/o Spike	100 (375 Screen)
24 w/ Spike	150 (375 Screen)

TERMINATION FOR 4 – CONDUCTOR THIRD PARTY CABLE

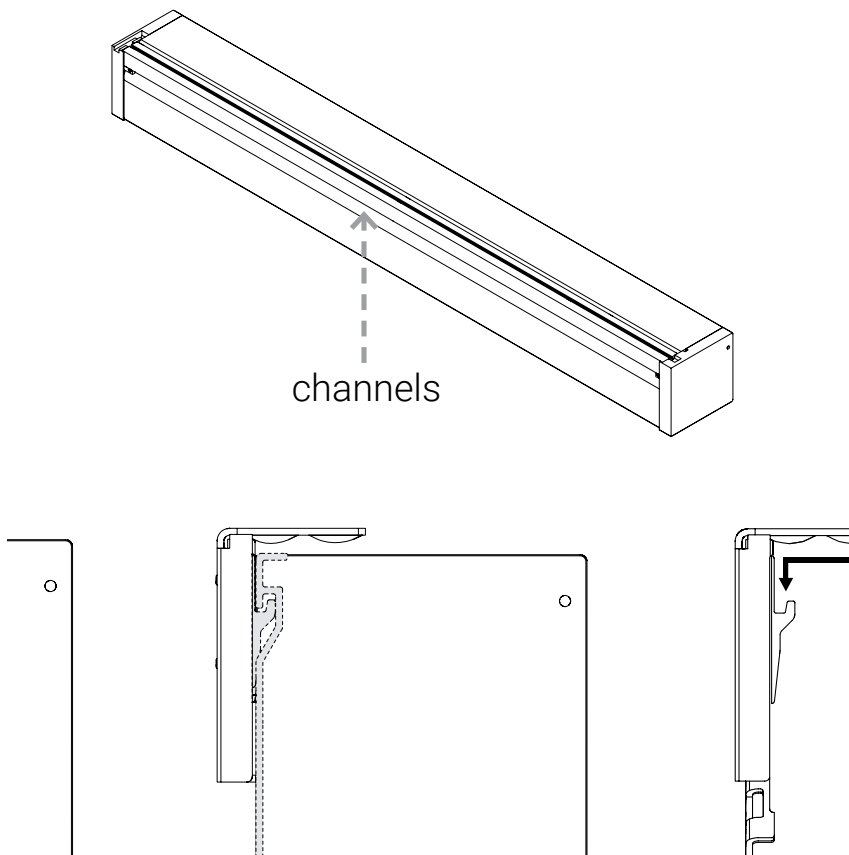
If the pre-wire does not have a third insulated data conductor for the 485 ground, terminate the wire as shown below; use the same termination on both ends.



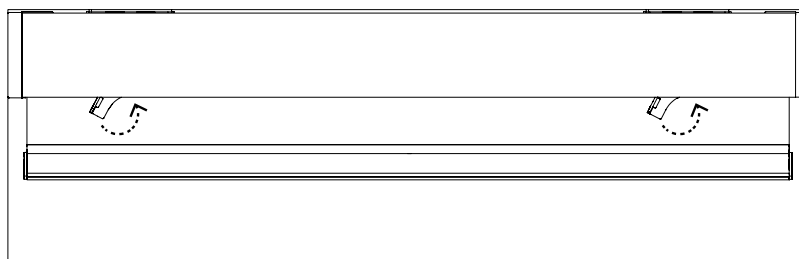
INSTALLATION – SOLO 3 375 EXTERNAL– INDOOR

To finish installation, continue with the steps below.

8. Locating the channel running along the back of the screen, hook the channel onto the wall brackets.

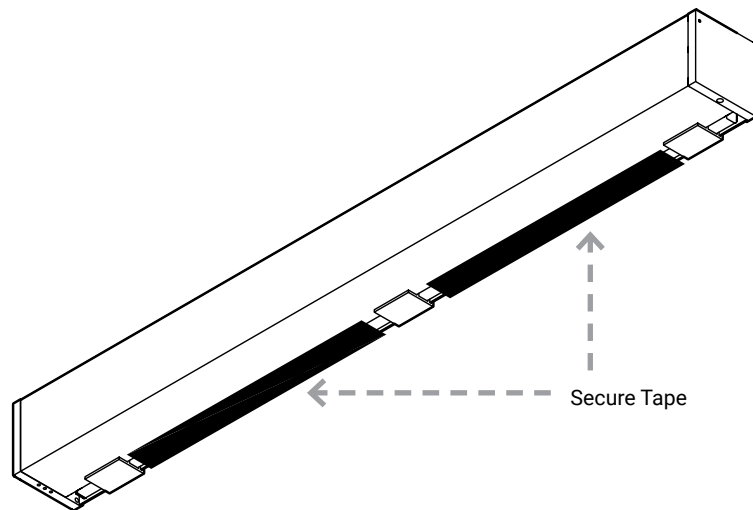


9. Reaching under the cassette, move levers up into the locked position, keeping the screen secure.
For leveling instructions, see *page 19*.

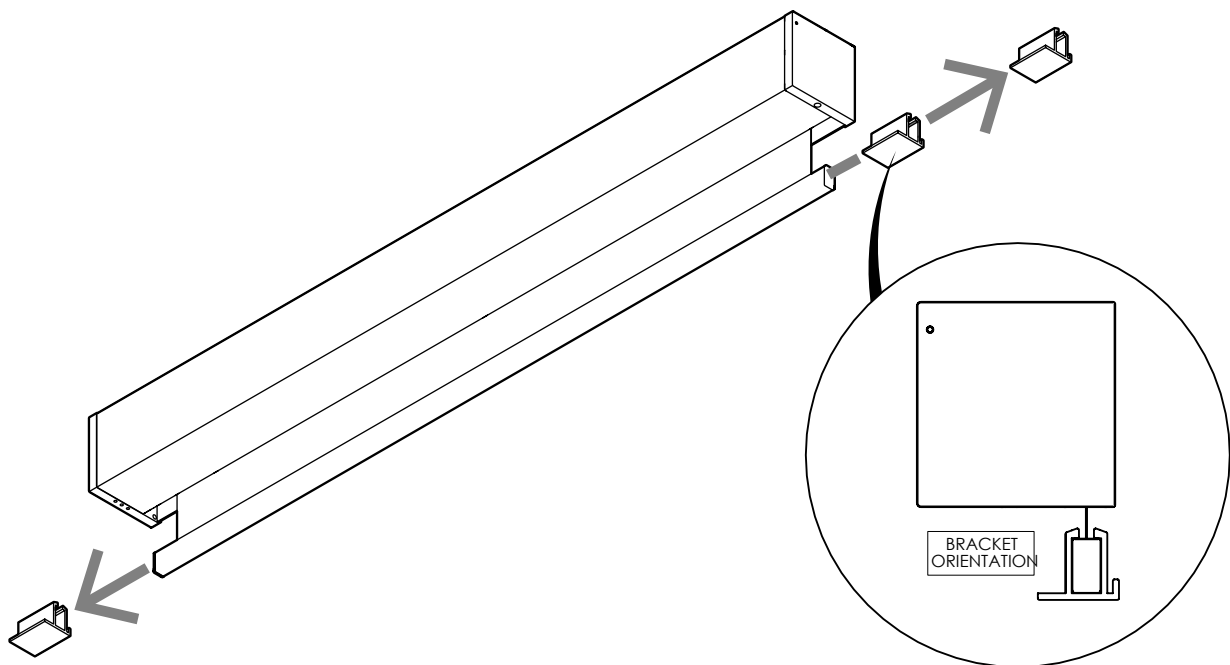


RELEASING THE WEIGHT BAR BRACKETS

1. Remove the Secure tape.



2. Lower the screen using the Moab. Now slide the brackets off the weight bar as shown.



COMMISSIONING GUIDE REFERENCE

Moab Quick Start Guide (contains 485 instructions only):

Scan the QR code, alternately use the link below to access

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/moab-quick-start-guide.pdf>



Note: to get more detailed instructions refer to the Moab installation instructions below.

Moab Installation Instructions (contains 485 detailed instructions):

Scan the QR code, alternately use the link below to access

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/moab-installation-instructions.pdf>



Quick Motor Commissioning Guide for all motor types (contains 485, RTS, Zigbee instructions):

Scan the QR code, alternately use the link below to access

<https://files.screeninnovations.com/Downloads/Programming+Guides/quick-motor-commissioning-guide.pdf>



CONTROLS GUIDE REFERENCE

With your screen order, you shall receive one of the below mentioned Controls Guides which will walk you through integrating with control system.

TRO.Y Installation Instructions (RS232, IP Control, third party Control system):

Scan the QR code, alternately use this link to access

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/troy-installation-instructions.pdf>



LinkPro Z Installation Instructions (IP Control, third party Control system):

Scan the QR code, alternately use this link to access

<https://files.screeninnovations.com/Downloads/Installation+Instructions/Connectivity/LinkProZ-installation-instructions.pdf>



Scan this QR Code to access the updated installation instructions and related documents.

Technical Support: 512.832.6939

Hours of Support: 7:30am - 5pm CST

screeninnovations.com

screensupport@screeninnovations.com

SERVICING SOLO 3 375 – INSPECTING THE ROLL

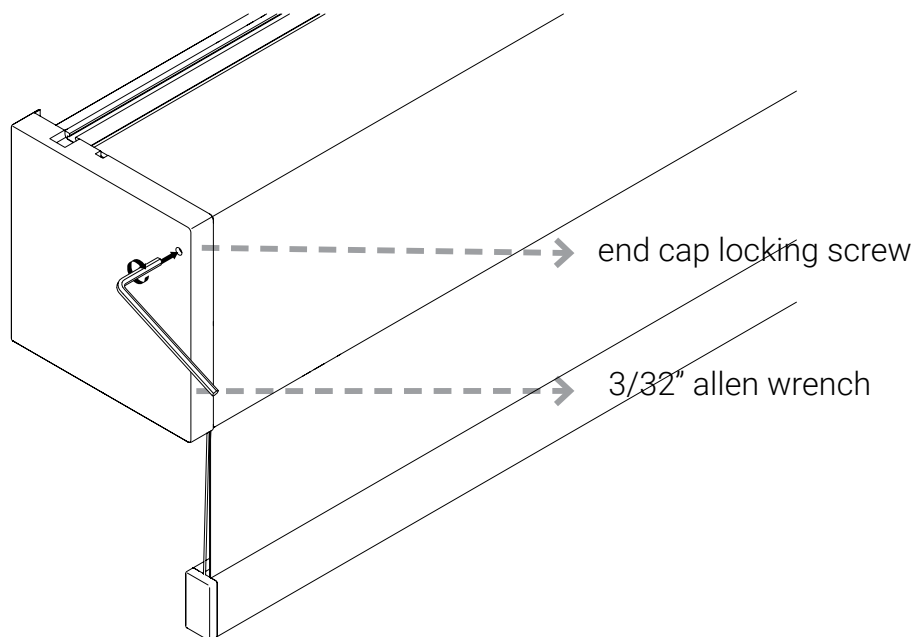
By removing the cover during installation, inspection of the roll and screen material are possible.

SERVICING NOTES:

- Depending on the mounting, removal and reinstallation of the screen may be required to access the end cap locking screw.
- Before removing the tube, ensure all wireless battery screens are put to sleep. See *page 22*.
- A best practice is to remove the screen from the brackets to minimize risk to the screen during servicing; place the screen on a clean, flat surface.
- Beware of obstructions when removing cover; if there is an obstruction, unlatch the levers, disconnect wiring, and remove screen off the brackets to service, laying on a clean, flat surface.

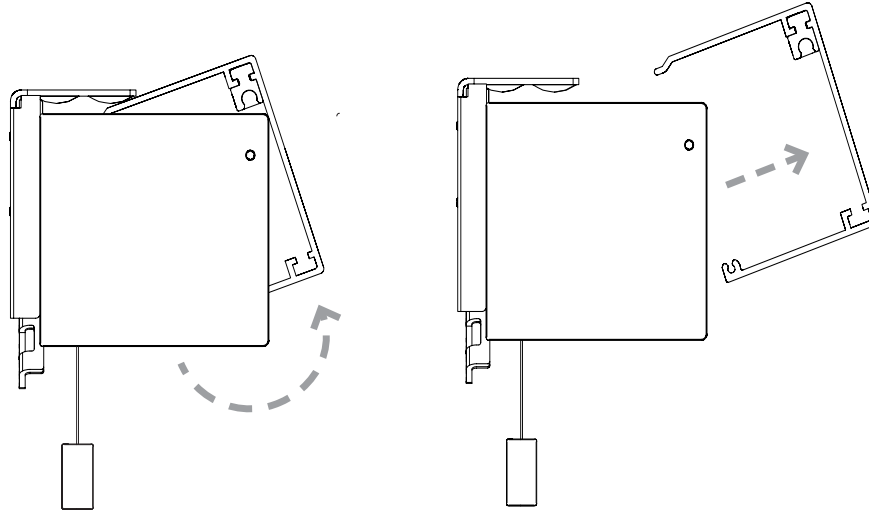
- 1a. To service the Solo 3, begin by loosening the end cap-locking screw on each end cap.
- 1b. To unlatch the cassette face to access the motor and screen material, hold the end caps level and push upwards on each side of the cassette face. Unless two installers are available to each unlatch one side of the cassette face, unlatching one side at a time is recommended.

The cassette face can be felt and heard disconnecting from the locking screw.

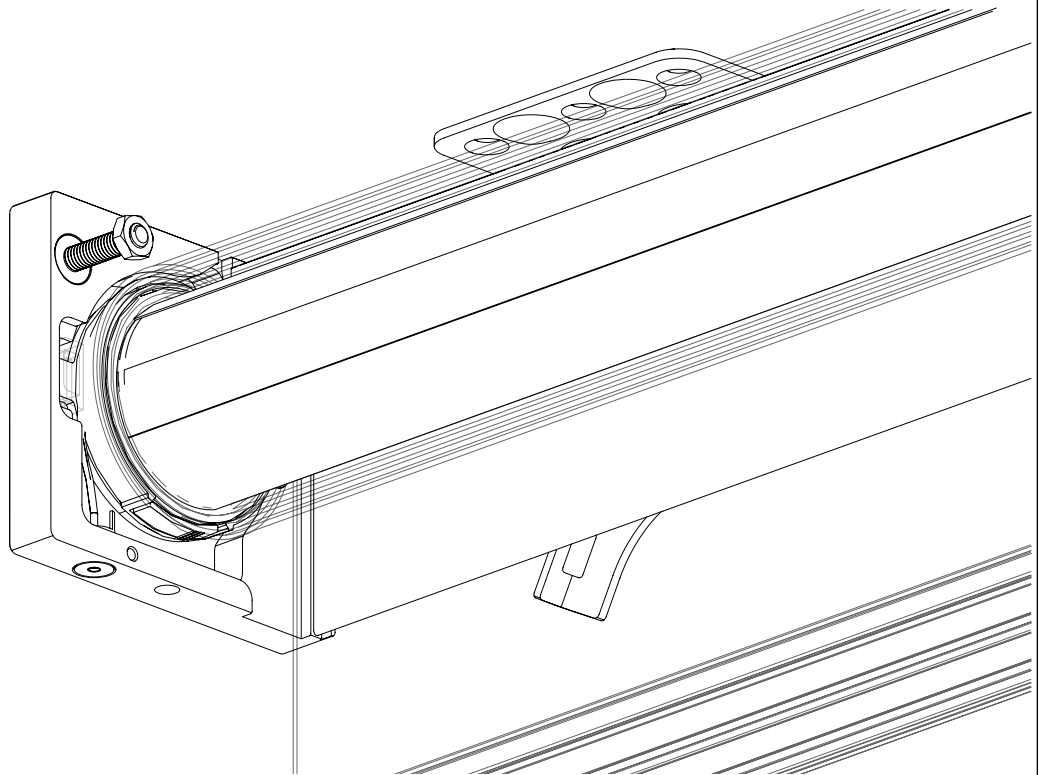


SERVICING SOLO 3 375 – INSPECTING THE ROLL

2. Drop the screen to lower limit to reduce the diameter of the roll, lessening the chance of screen material interference when removing the cover. To remove the cover, pull the cover towards yourself, rotating upwards slightly.

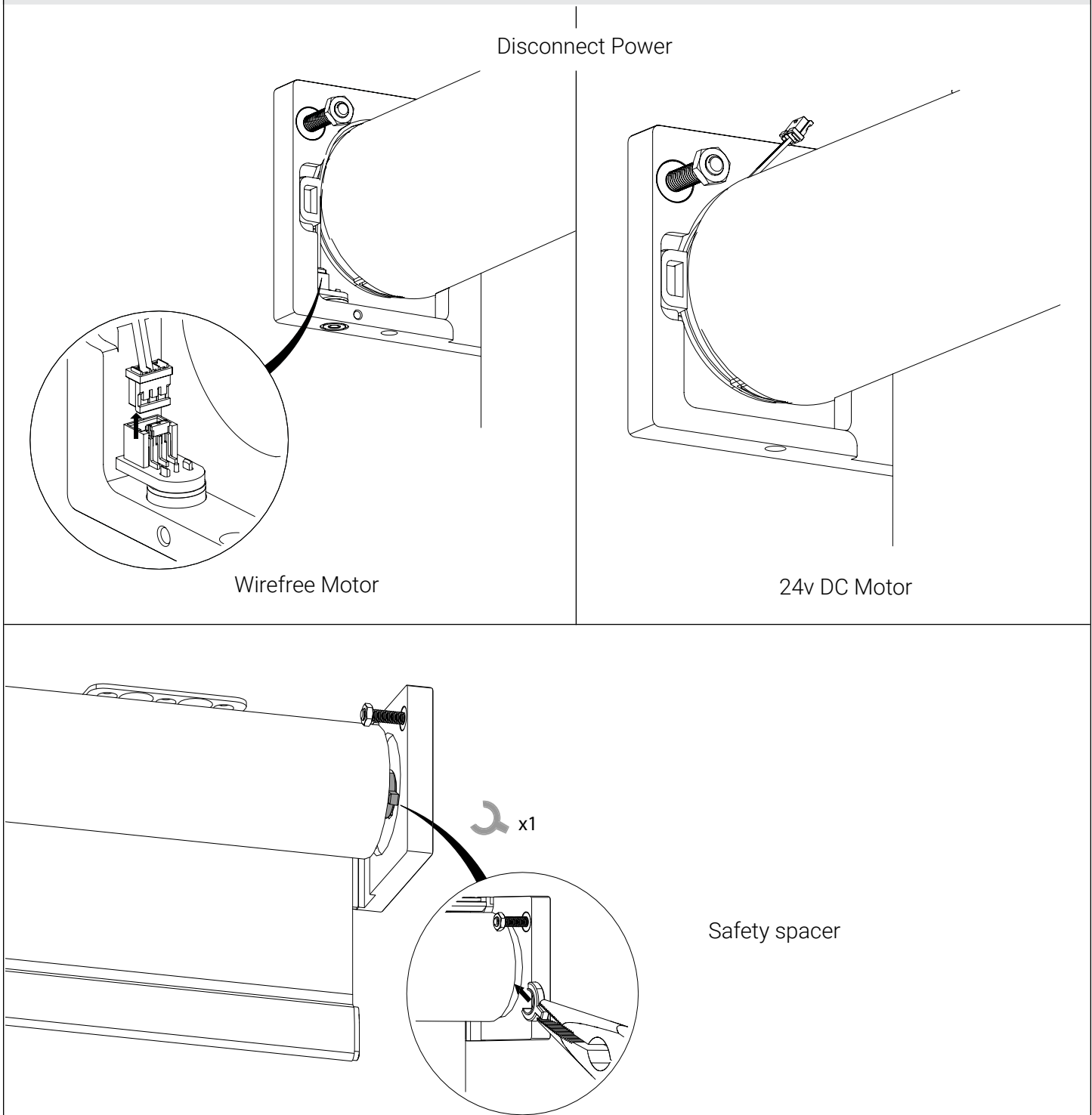


Inspection of the roll and access to the motor and screen material are now available with the cover removed.



SERVICING SOLO 3 375 – TUBE REMOVAL

1. Disconnect power pulling the cable to the side of the roll, then disconnect the safety spacer with needle-nose pliers as shown below.

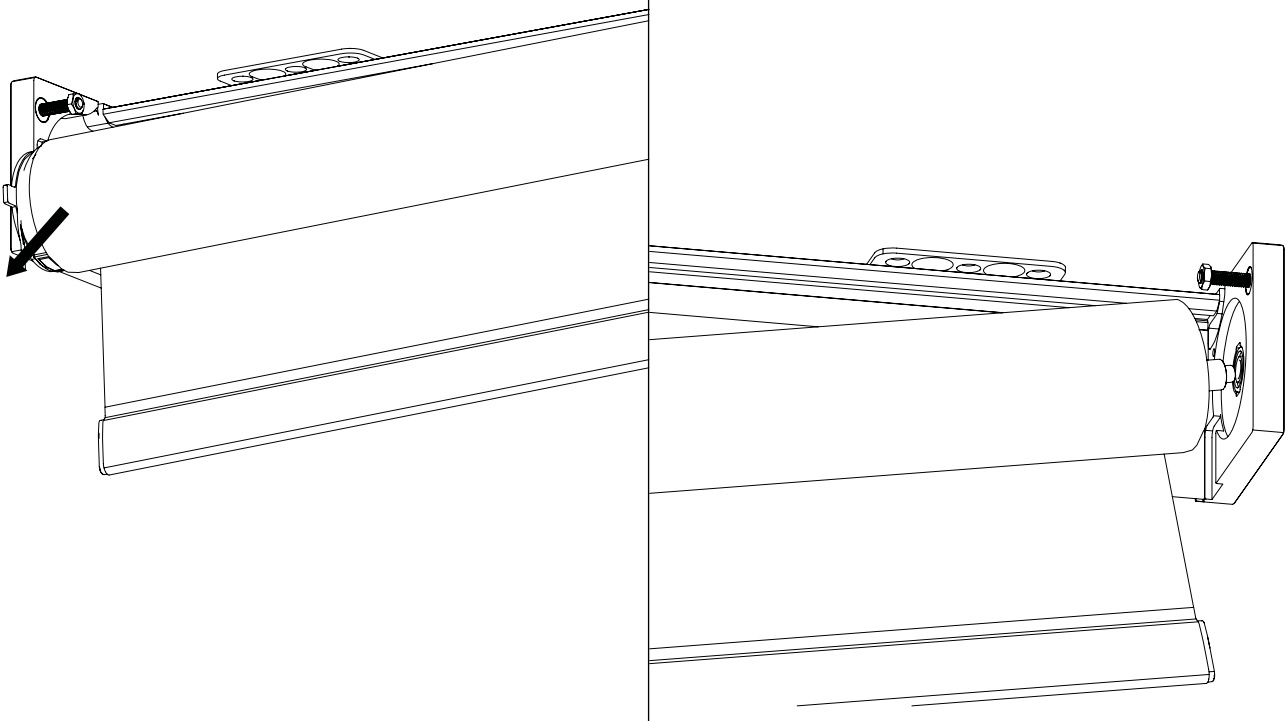
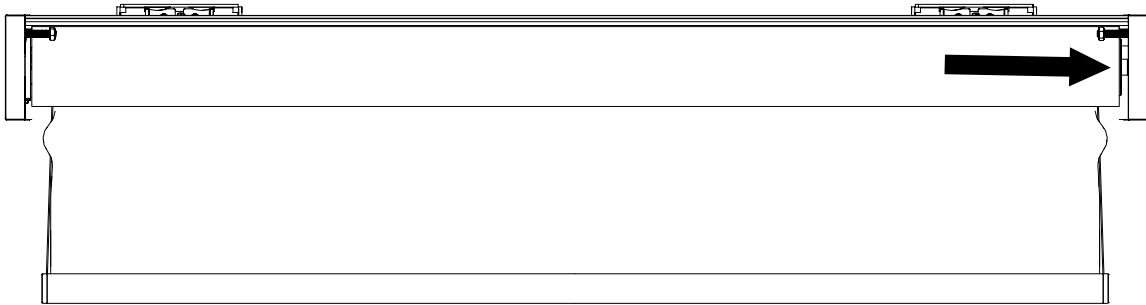


NOTE: Retain the safety spacer for reinstallation after service completion.

SERVICING SOLO 3 375 – TUBE REMOVAL

2. To remove the material tube from the cassette, locate the motor side of the material tube; push toward the opposite, idler side. The idler spring will depress and disengage, allowing disengagement of the motor (connector) side from the end caps. Once the motor side clears the end cap, pull the tube assembly away from the idler to complete removal.

NOTE: At least two people are required to safely perform tube removal.



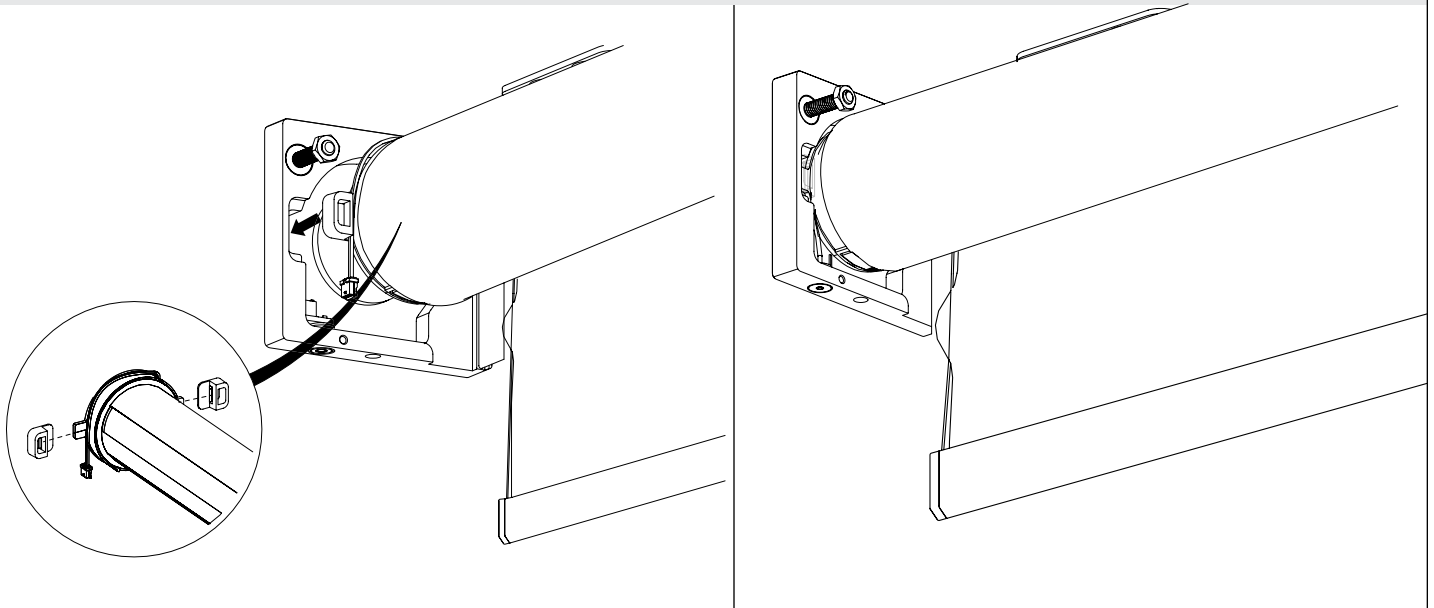
NOTE: The screen system is now ready for any service.

If any concerns on swapping the motors or material tube arise, call SI Screen Support at 512.832.6939 or email screensupport@screeninnovations.com

SERVICING SOLO 3 375 – TUBE INSTALLATION

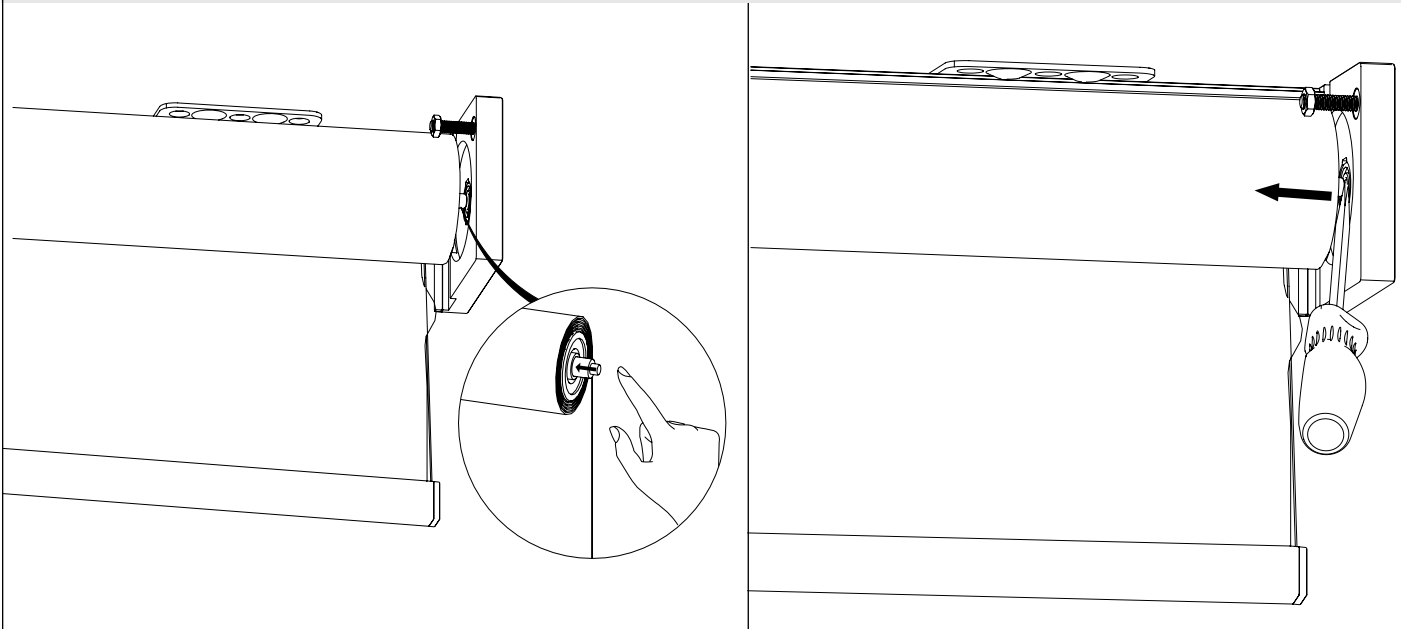
Once servicing is complete, reinstall the material roll by seating the motor head into the motor end cap.

1. To ensure correct fit of the motor head, pay particular attention that the rubber noise isolators are fully seated in their corresponding end cap recesses.



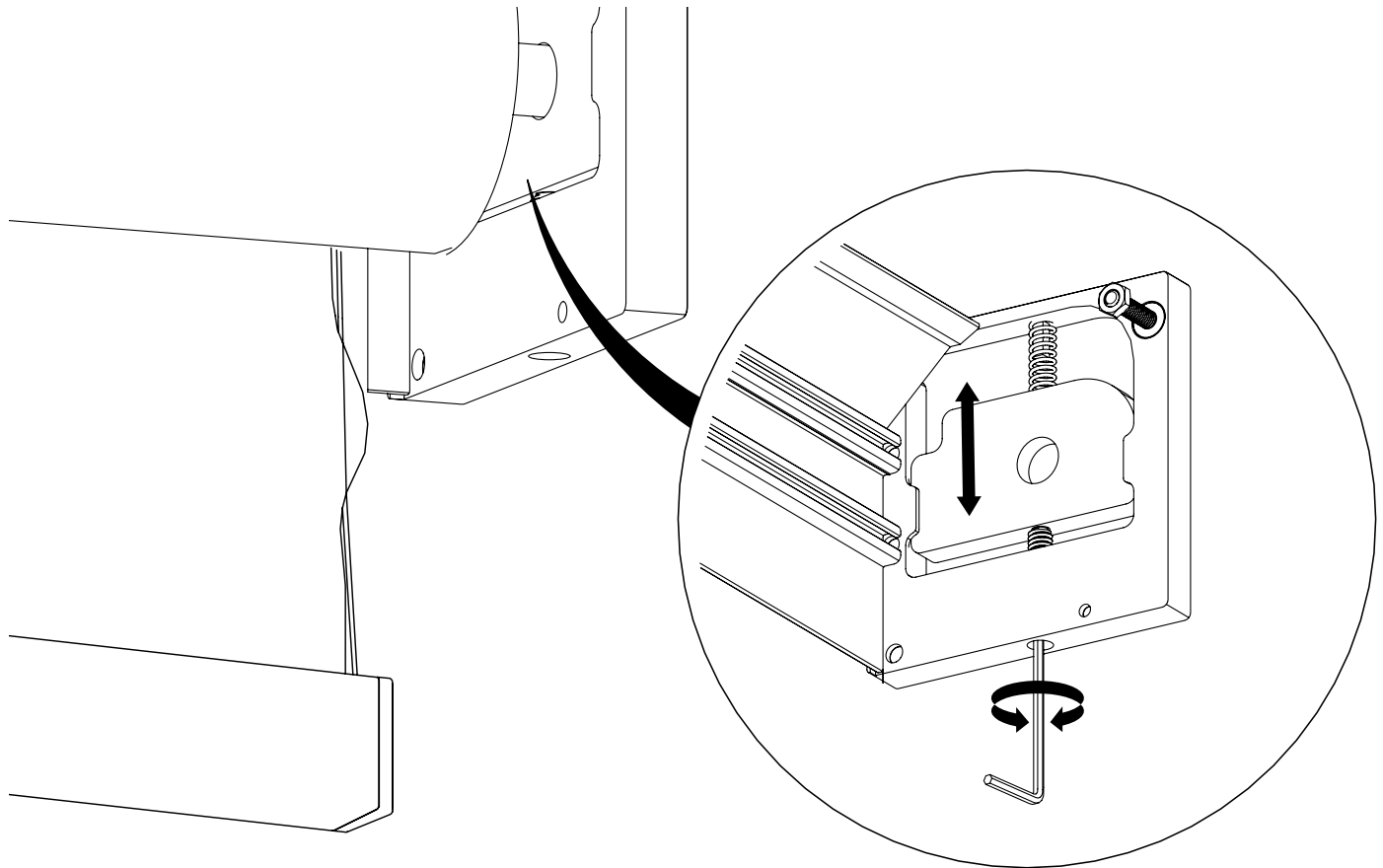
2. Fully depress the spring-loaded idler; pivot the tube until the idler is in-line with the idler bearing. The idler can be released once it has cleared the edge of the end cap.

NOTE: Reverse roll screen end caps have additional channels; should the idler engage one of these channels, use a screw driver to depress the idler and shift into the correct bearing.



SERVICING SOLO 3 375 – TUBE INSTALLATION

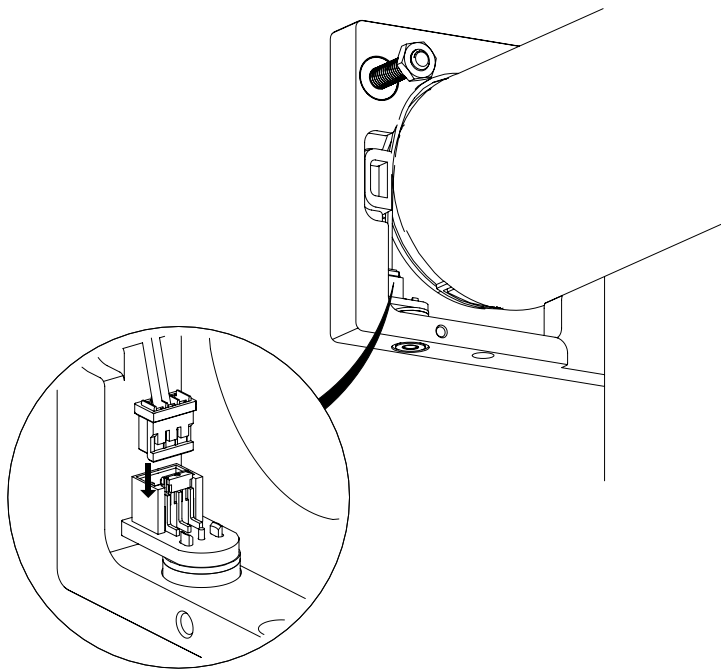
3. To level Solo 3 375 models, note that the idler bearing is positioned on a spring loaded plate that moves up and down. To level this model, set the plate to the appropriate position and tighten using the hole at the bottom of the end cap.



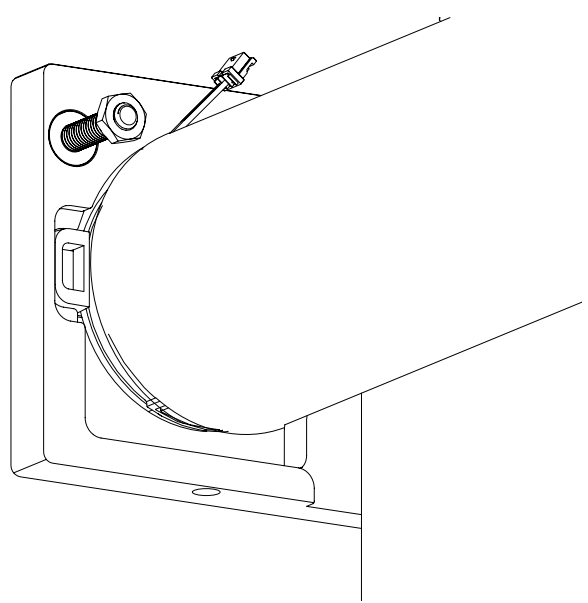
SERVICING SOLO 3 375 – TUBE INSTALLATION

4. Reconnect power and the safety spacer with needle-nose pliers, as seen below.

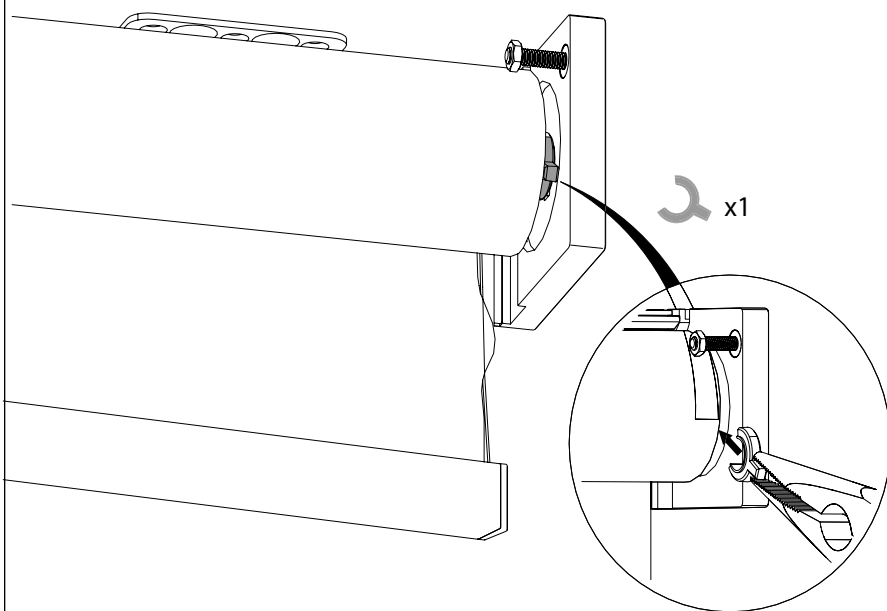
Reconnect Power



Wirefree Motor



24v DC Motor

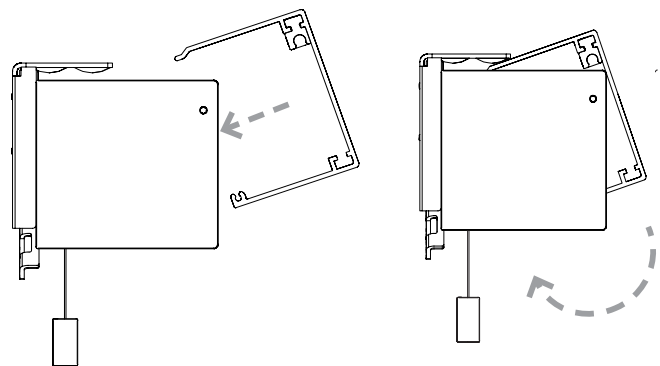
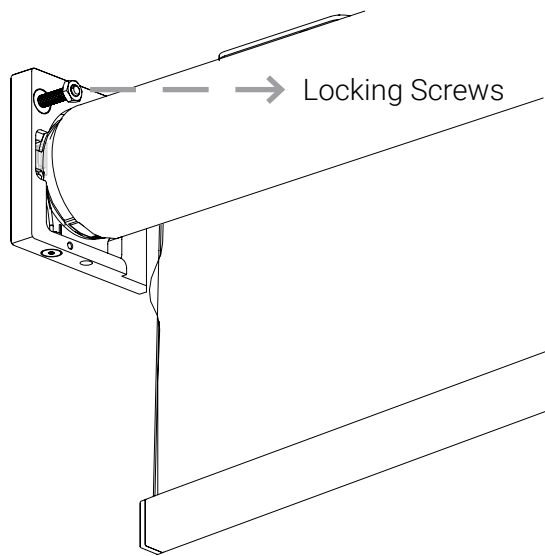


Safety spacer

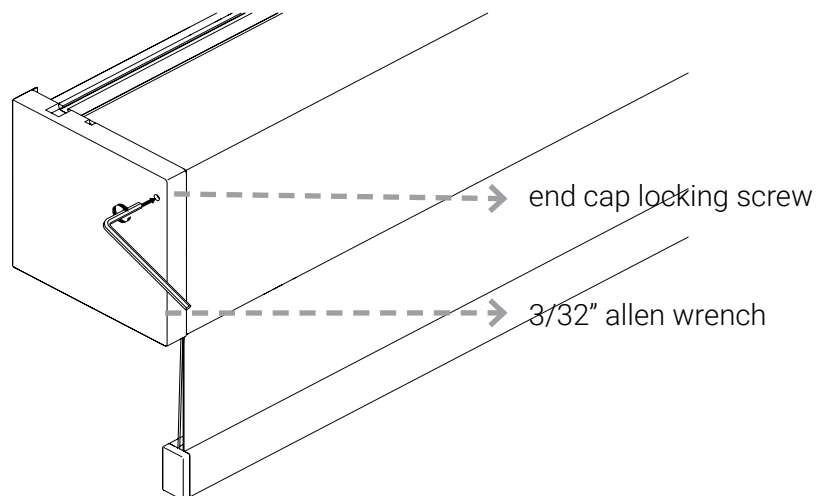
SERVICING SOLO 3 375 – TUBE INSTALLATION

- 5a. Shift brackets into the latched position to ensure stability.
- 5b. Ensure the locking screw nut is fully disengaged, allowing for cassette engagement.
- 5c. Reinsert the cover by positioning straight-on, then rotating downwards to engage with the locking screws.

NOTE: The locking screws will “click” once they have engaged and the cassette face will align with the end cap.



- 6. Tighten the locking screws until snug, closing any gap between the end cap and the cassette, locking the cover in place.



- 7. To reinstall the screen, refer to *page 6: INSTALLATION*.

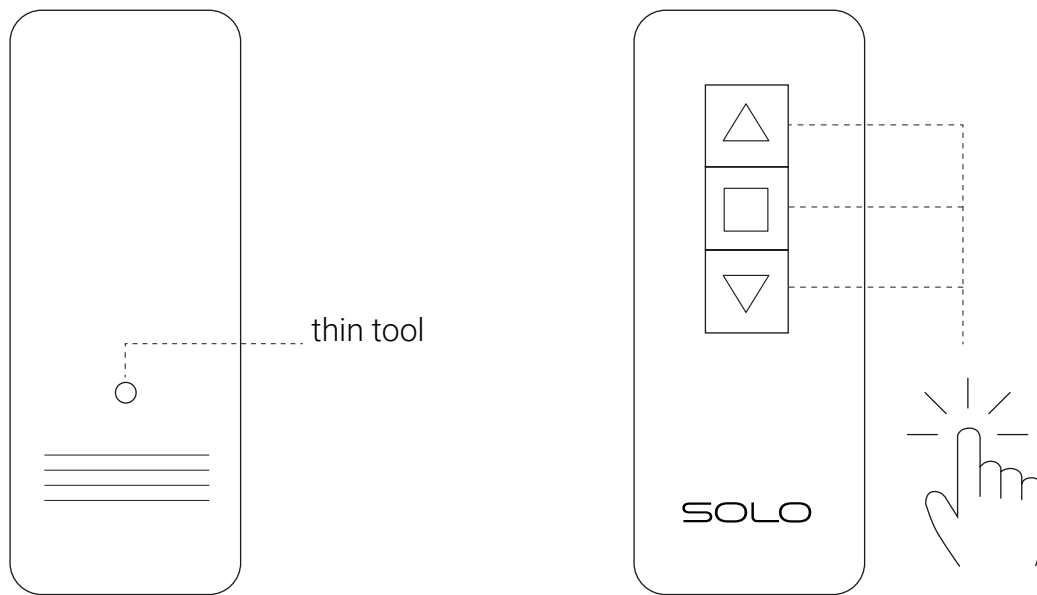
SERVICING SOLO 3 375 – WIRELESS SLEEP MODE

For Wireless Power

Before storing, servicing, or transporting, deactivate the motor by putting it in sleep mode to ensure the screen does not deploy or get damaged.

RTS

1. **“Delivery” or Sleep Mode:** Use a thin tool to hold the button on the back of the remote until the screen jogs once. Press and hold the UP, STOP, and DOWN buttons at the same time until the screen jogs again. The motor is now asleep.



RTS

1. **Wake-up Mode:** Prior to use, wake the screen from sleep.

- a. Plug the charger into the wall, connecting the charging cable to the charger and magnetic charging port on the cassette. The screen will jog up and down once to signal that the motor is now awake.
- b. In case the charger does not wake up the screen, use a thin tool to briefly press the motor button through the small hole just in front of charging port. The screen will jog once to indicate it is awake.



Screen Innovations

9715-B Burnet Rd, Suite 400 Austin, TX 78758

512.832.6939

www.screeninnovations.com