Solo 3

Indoor
575 / 675 Flush

Installation Instructions

⚠ **INSTALLERS: PLEASE LEAVE THIS MANUAL WITH THE OWNER.**

◆SI.

❖SI.

 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.

TABLE OF CONTENTS

OPERATING AND CARE OF YOUR SCREEN

- Operation of the screen systems should only be performed by responsible parties.

- Always check the path of the Solo 3 screen before operating to ensure that the path is clear of furniture or obstacles that could prevent full operation. Monitor the Solo 3 screen for smooth operation through its entire range. Operating a Solo 3 screen unattended may lead to damage from obstructions or other causes.

- Fabric maintenance and cleaning– Solo 3 screen fabric is subject to debris under normal use or in storage, requiring occasional maintenance and cleaning. While fading and wear over time are normal, debris could accelerate this wear. Screen fabrics can be cleaned with water and a mild soap. Scrubbing with a bristle brush or pad is not recommended.

BEFORE PROCEEDING

⚠ **For best results, read the instructions in their entirety before proceeding with assembly. Actions contrary to the instructions invalidate the warranty and may result in serious damage and/or injury.**
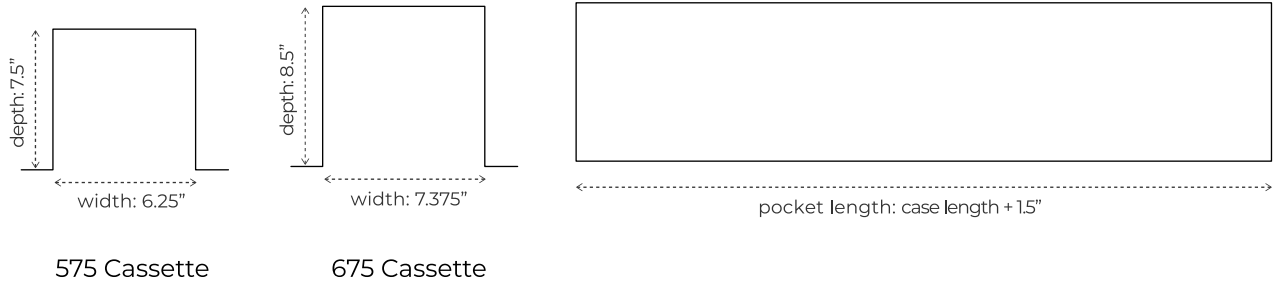
Preparing for Installation:

It is crucial that all installations are planned out carefully before specifying a screen order and assembly. Before installation, Bracket/Mounting method and Assembly Installation method must be identified.

- Do not use a knife to cut foam or wrapping, as this may damage the shade including, but not limited to, the casette, fabric tube, and material roll.

- The tube may shift within the cassette during shipping; open the cassette with care.

- Unpacking the box – lay cassette, fabric tube, and material roll on a soft, clean surface during the installation process. When removing from the box, ensure the assembly is kept horizontal to prevent damage.

- Screen Innovations recommends METHOD 2 (removal of the material roll before installation) when installing the Solo 3 screen for better control and safety of the material inside. When removing material from the cassette, use at least two people to lay material down on a clean, flat surface, such as a blanket or sheet.

- When utilizing either method, especially METHOD 1, make certain there are enough installers/ hoisting equipment to safely lift the cassette (and/or material) onto the brackets. Brackets must be level and in-line with one another before attempting to lift cassette onto brackets. Use safe lifting and rigging techniques.

CONSIDERATIONS

Cut a rectangle pocket in the drywall or grid on the drop ceiling to accommodate the cassette size. Refer to the following drawing for dimesions.

Pocket Dimensions

depth: 7.5"

width: 6.25"

575 Cassette

depth: 8.5"

width: 7.375"

675 Cassette

pocket length: case length + 1.5"

PARTS IN THE BOX – SOLO 3 INDOOR 575/675 – FLUSH

Screen

Case Assembly

Mounting Options

Zipnut (Drywall) Ceiling Mount

Drop Ceiling Mount

Horizontal Flanges (2)

End Flanges (2)

Door

Pigtail Wire

Red Straps

Flange Secure Clips (10)

RJ45 Coupler
(AC – 485 screens only)

RF Remote
(1 per RTS screen)

IR Remote

Included remotes' form factor may vary, however functionality and performance is consistent.

DUOCoup
(for low voltage 485)

Moab Control Board
(1 per 485 screen)

Included in the box with hardwired control screens only

Note: Mounting Screws not included

INSTALLATION METHODS

BRACKET INSTALLATION METHODS

When installing brackets and mounting the cassette/assembly, make sure to follow the complimentary instructions once readying the cassette for mounting. For example, the Bracket Method 1 – Drywall Mount instructions accompany the Mounting Method 1 – Drywall Mount instructions. Ensure matching instructions are followed.

1	Method 1 – Drywall Mount – page 6
2	Method 2 – Drop Ceiling Mount – page 7

ASSEMBLY INSTALLATION METHODS

Before installation, determine your installation method according to your product order and installation preferences. The Solo 3 Indoor 575/675 Flush may be installed with or without the material/fabric tube. Method 1 details the removal and reinsertion of the material roll as well as installation of the cassette, while Method 2 outlines installation of the assembled unit. When using Method 2, ensure use of the accompanying Method 2: Material Only installation instructions.
SI recommends Method 2— removing the material tube— if the screen is larger than 130."

1	Method 1 – Assembled – page 9
2	Method 2 – Disassembled (Cassette ONLY) – page 9

MOUNTING METHODS

The Solo 3 Indoor 575/675 Flush may be mounted in drywall or drop ceiling.

|	
1	Method 1 – Drywall Mount – page 13
2	Method 2 – Drop Ceiling Mount – page 14

BRACKET INSTALLATION

- Method 1 – Drywall Mount – *page 6*
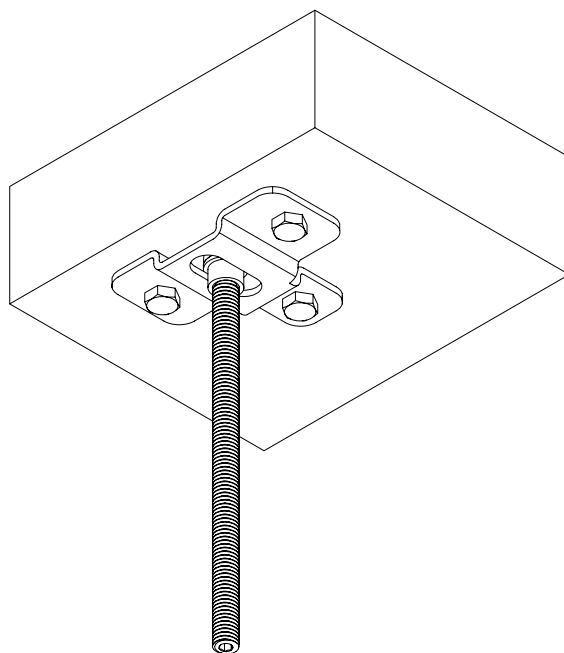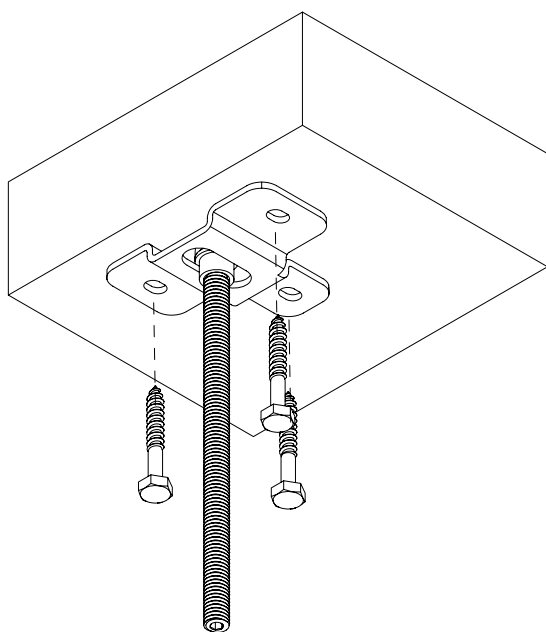
- Method 2 – Drop Ceiling Mount – *page 7*

BRACKET INSTALLATION – **METHOD 1** – DRYWALL

1 Put the zipnuts together as shown below, then place back inside the cassette on both sides.

NOTE: Each cassette includes the zipnuts preinstalled.

Zipnut Lead Screw

Nylon Sleeve Bearing

Ceiling Mounting Plate
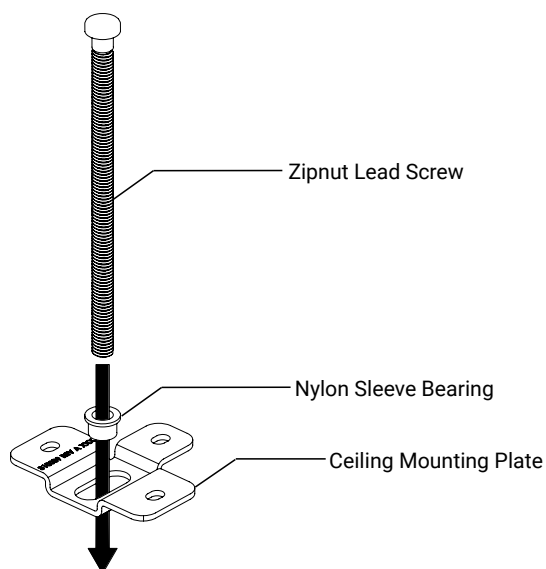
2 Install brackets centre blocking at the end caps. Secure blocking by screwing in place. With lag bolts, screw the sheet metal brackets into the blocking with lead screws installed.

BRACKET INSTALLATION – **METHOD 2 –** DROP CEILING

1   All thread through the ceiling using two rods on each side of the cassette.

2   Use the swivel bar to mount the cassette at an angle as needed. Place the plastic sleeves on the bolt to mount, then insert the all thread rods through the swivel bar and secure with nuts.

Screw

Washer

Drop Ceiling Bar
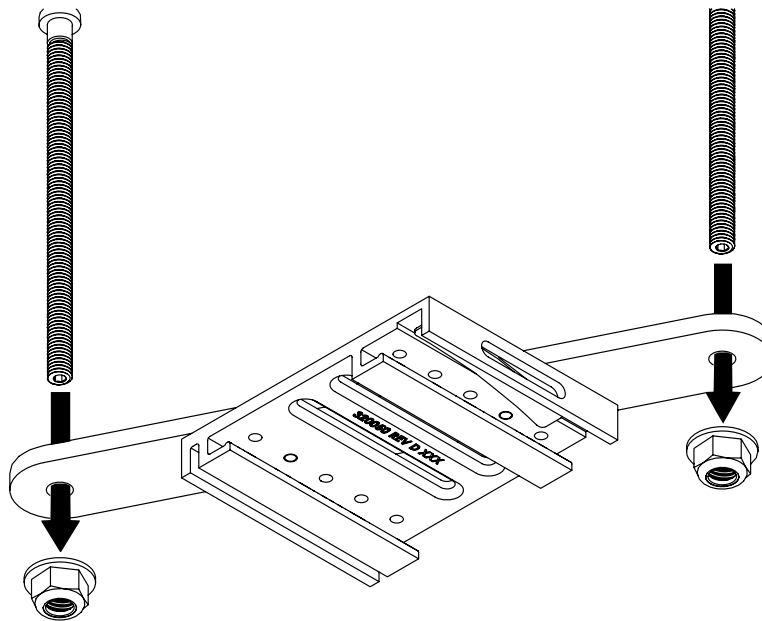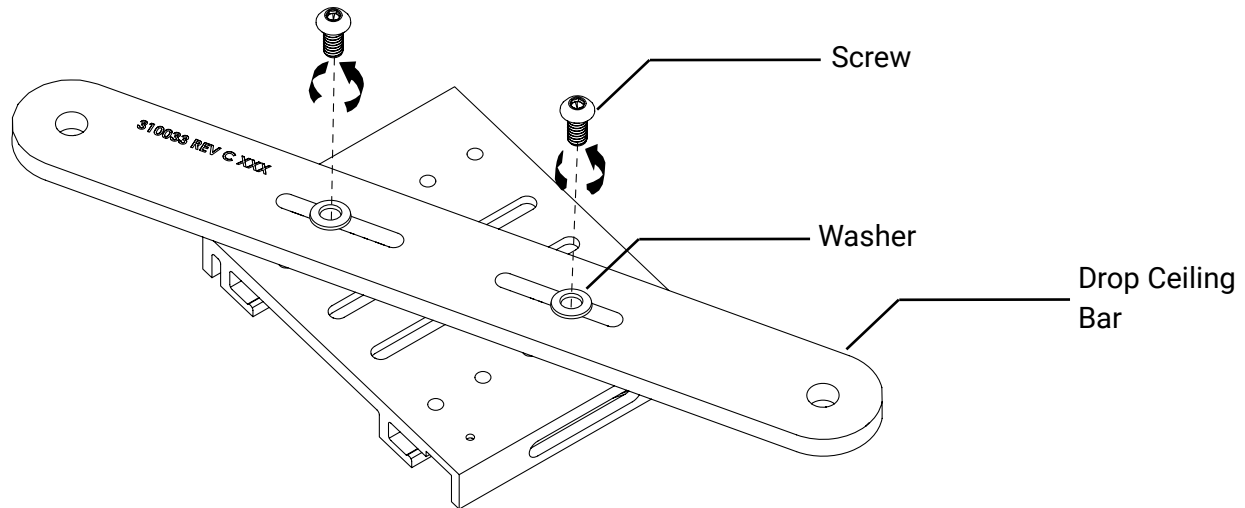
ASSEMBLY INSTALLATION

Before installation, determine your installation method according to your product order and installation preferences. The Solo 3 Indoor 575/675 Flush may be installed with or without the material/fabric tube. Method 1 installation consists of mounting of the assembled unit, while Method 2 details the removal and reinsertion of the material roll as well as installation of the cassette. When using Method 2, ensure use of the accompanying Method 2: Material Only installation instructions.
SI recommends Method 2— removing the material tube— for screens larger than 130."

ASSEMBLY INSTALLATION – **METHOD 1** – ASSEMBLED

> NOTE: This method outlines installation of the cassette with the material tube preinstalled inside.
>
> To remove the material tube, see page 11.
>
> To complete installation, see page 23 for installing final touches.

ASSEMBLY INSTALLATION – **METHOD 2** – DISASSEMBLED (CASSETTE ONLY)

> NOTE: This method outlines installation of the cassette without the material tube preinstalled inside. After completing installation of the material roll, see page 23 for installing final touches.
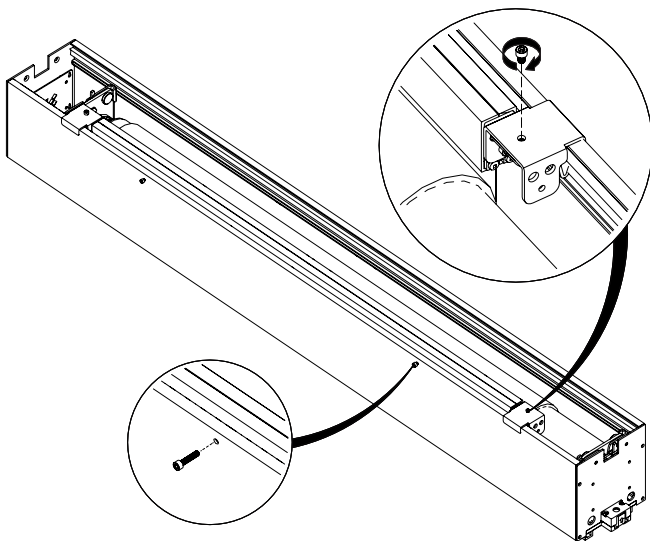
| **1** Unscrew the screws from the weight bar clip (red).	**2** Remove attached screws from the bracket. Set the screws aside. Remove clips where attached to the cassette.
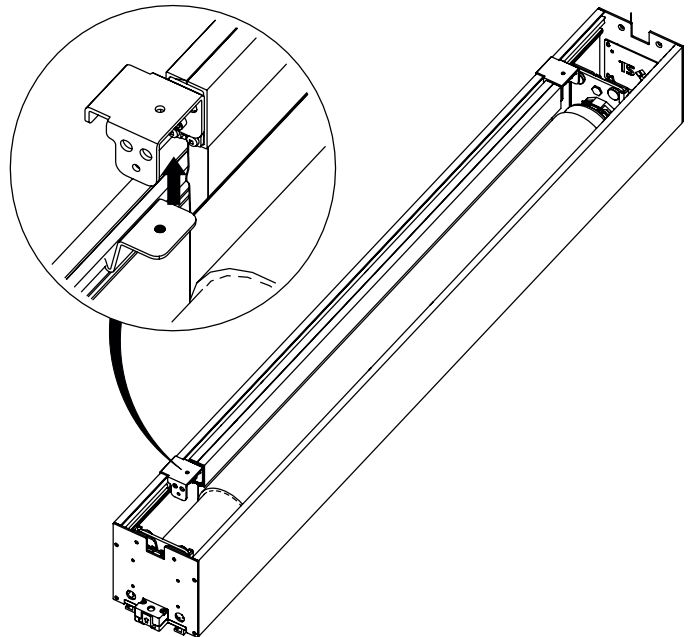
ASSEMBLY INSTALLATION – **METHOD 2** – DISASSEMBLED

3 Unscrew the weight bar clip from the weight bar, taking care not to bend the material.

NOTE: It is recommended to remove the clip fully once the material roll is installed into the cassette after mounting.
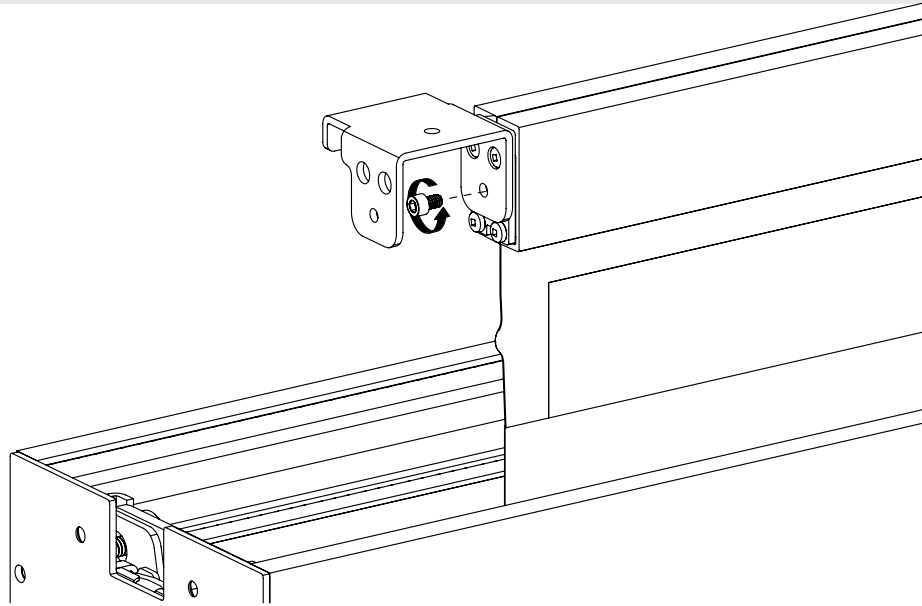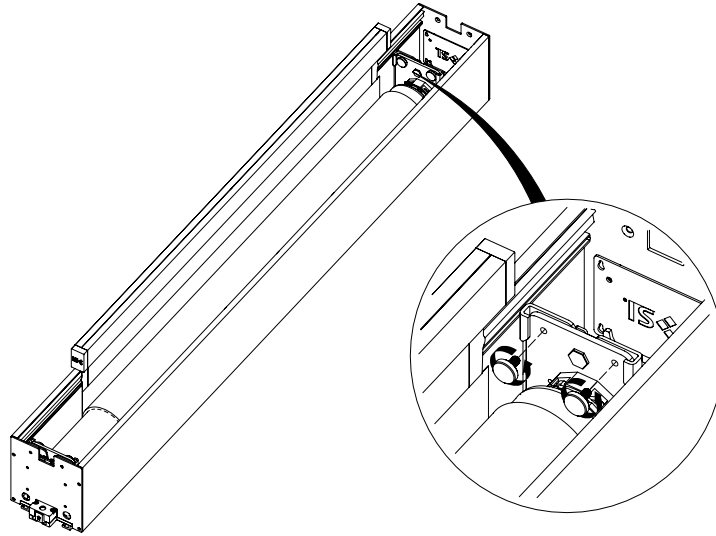
4 Attach the magnetic endcap to the weight bar, keeping the material from bending.

NOTE: It is recommended to wait to attached the end caps after the material roll is inserted into the cassette after mounting.
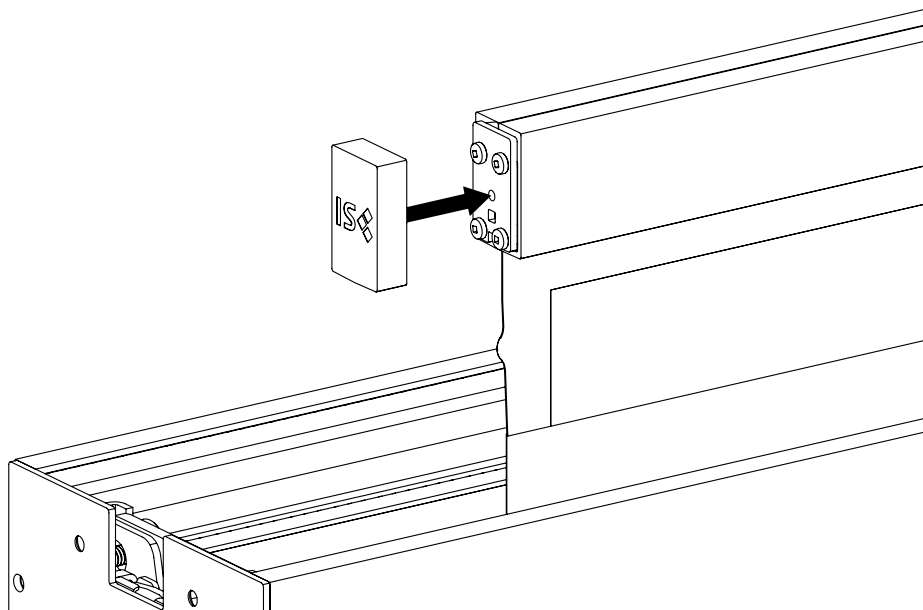
5 Undo the silver safety screws, then press the latch as shown.

6 Using the red straps, loop the straps under the material roll, being careful to avoid the material and any obstructions. With the help of the straps on both ends, slowly pull out material roll and set it aside on a clean, soft surface.

⚠ To avoid scratching the screen material, use packaging foam to carefully pick up the material from the floor.
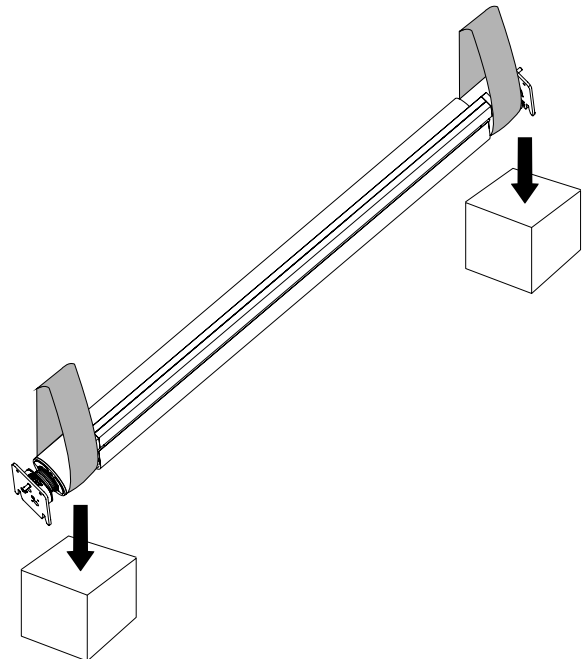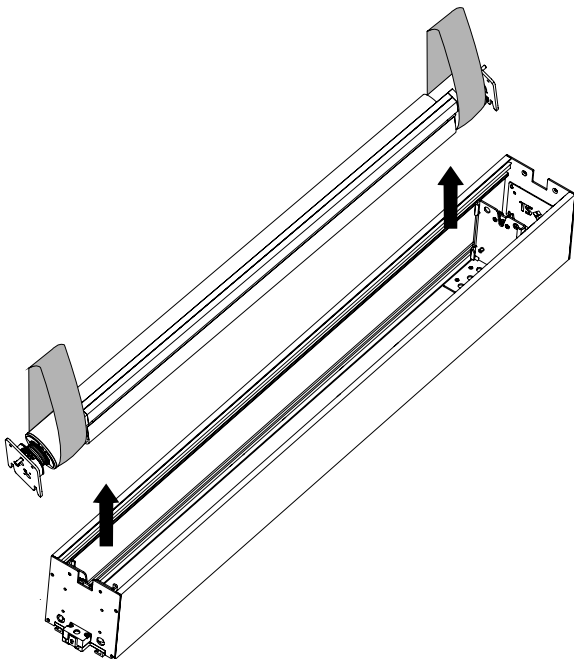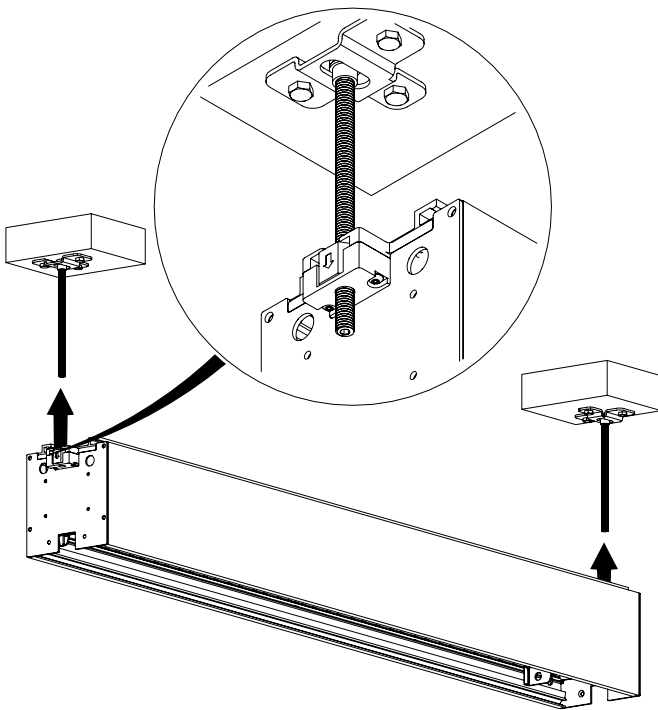
MOUNTING INSTALLATION

MOUNTING – **METHOD 1** – DRYWALL

The zip nut on each side of the cassette allows the ³⁄₈ x 16 all-thread rod to insert and lock like a zip tie; line the zipnut up with the lead screws and rachet upwards to zip halfway. Ensure the cassette is completely level.

Assembly Method 1: Assembled

To remove the weight bar clip, follow steps on *page 16.*

NOTE: To remove the material tube prior to installing the cassette for ease of installation, follow steps on *page 9-11* (Assembly Method 2).
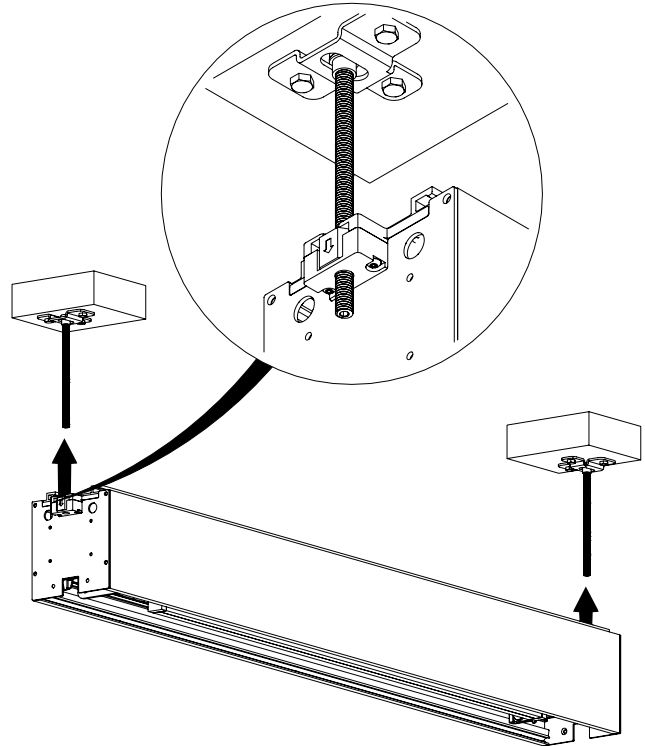
Assembly Method 2: Disassembled

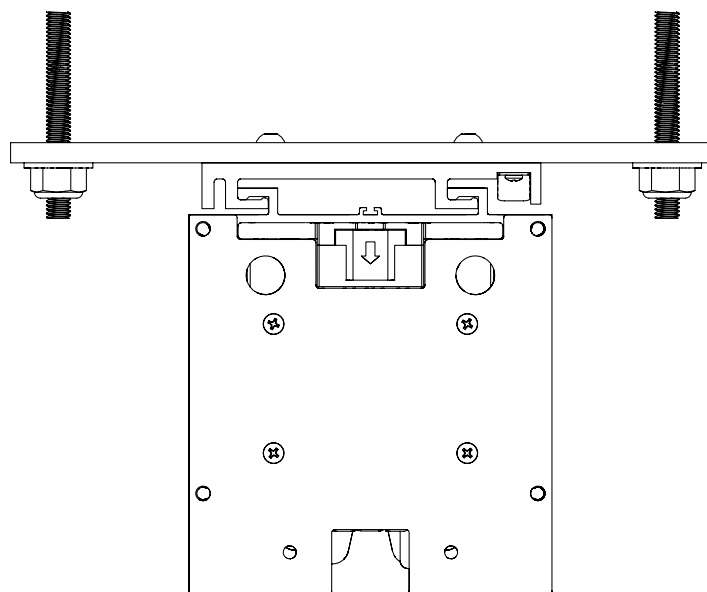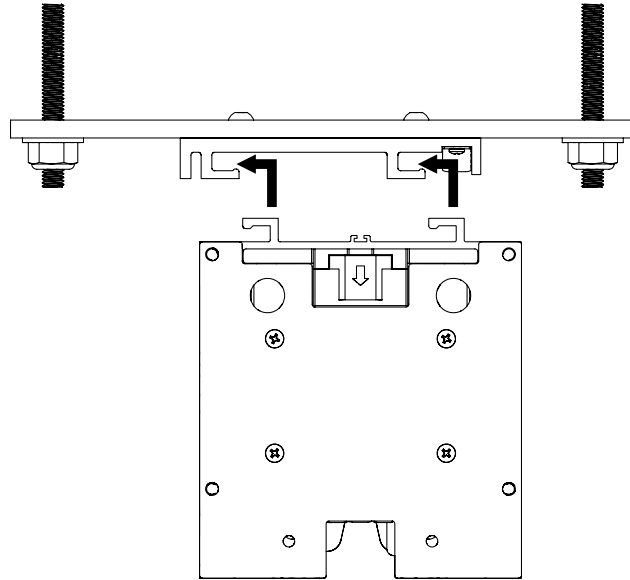To reinstall material, skip to *page 18.*

In cases where the cassette is ordered ahead of the material roll, refer to the Method 2: Material Only instructions for installing the material roll.

MOUNTING – **METHOD 2** – DROP CEILING

NOTE: This step accompanies Assembly Method 1: Assembled.

To remove the material tube (Assembly Method 2), follow steps on *page 9-11*.
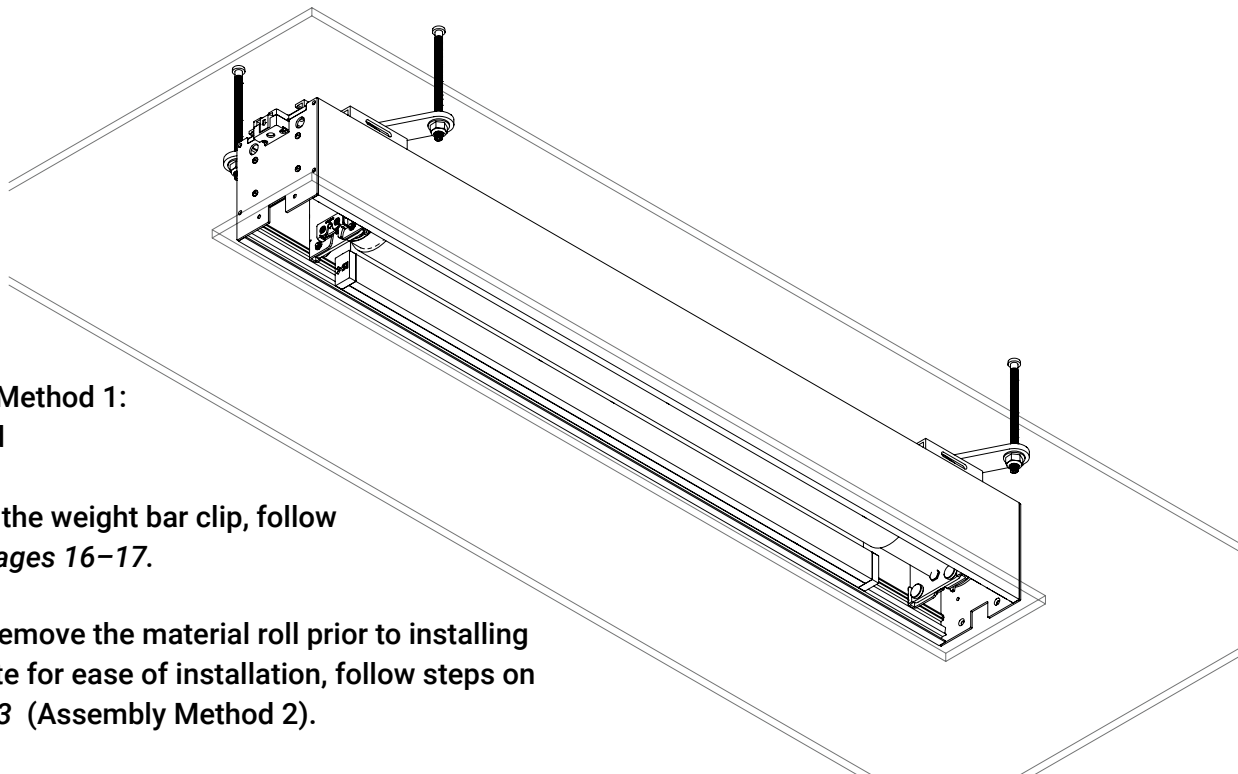
1 Lift the case straight up and hook onto the brackets attached to the swivel bar. Once the brackets engage, the cassette will "click" into place.
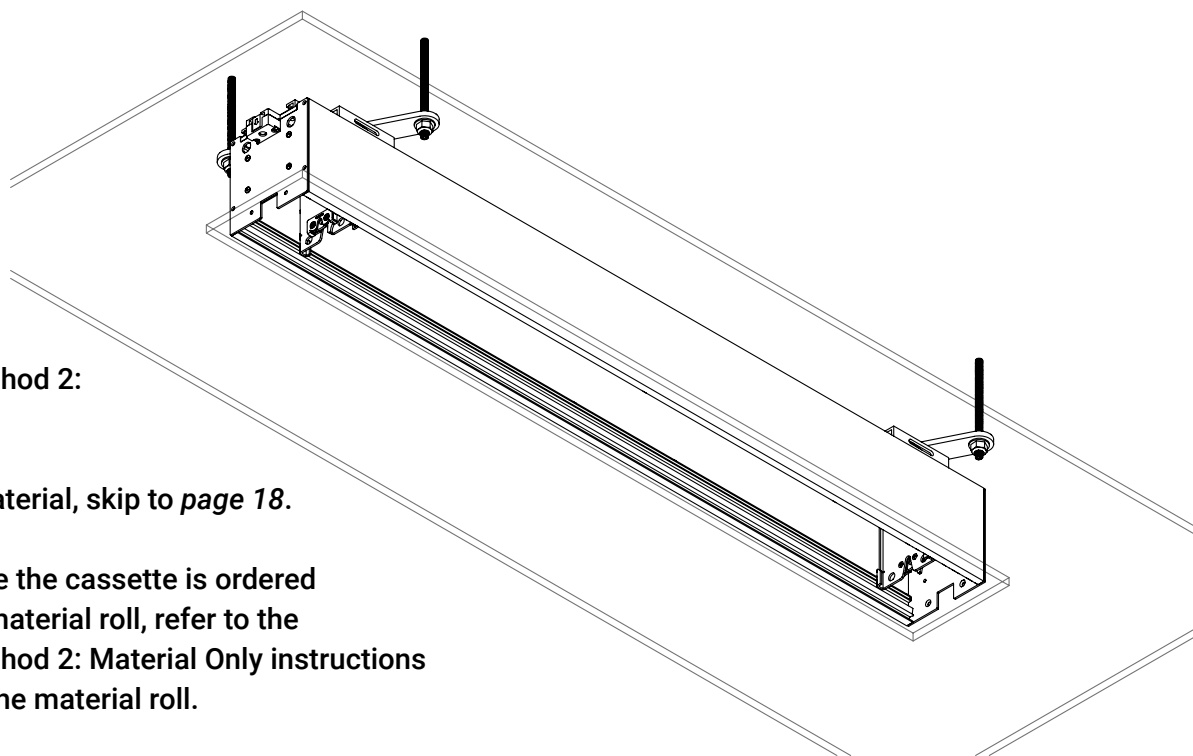
MOUNTING – METHOD 2 – DROP CEILING

4 With the cassette assembly level and brackets engaged, it is now ready for finishing steps.

Assembly Method 1: Assembled

To remove the weight bar clip, follow steps on *pages 16–17*.

NOTE: To remove the material roll prior to installing the cassette for ease of installation, follow steps on *page 10–13* (Assembly Method 2).

Assembly Method 2: Disassembled

To reinstall material, skip to *page 18*.

In cases where the cassette is ordered ahead of the material roll, refer to the Assembly Method 2: Material Only instructions for installing the material roll.

MOUNTING – **METHOD 2** – WEIGHT BAR

NOTE: To reinstall the material tube into the cassette, skip to *page 18*.

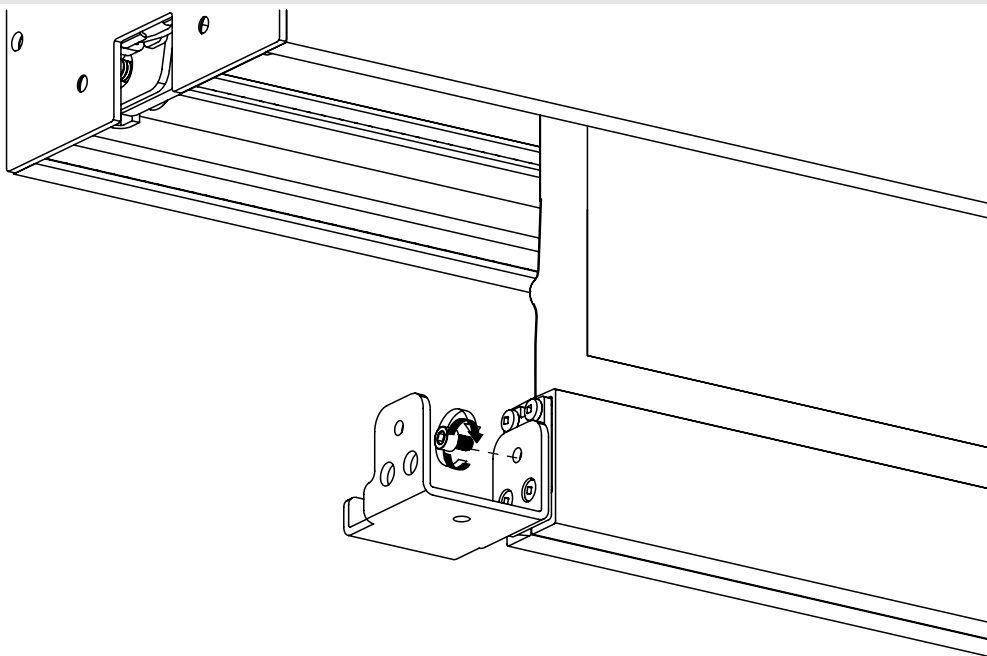**1** Unscrew the screws from the weight bar clip (red).
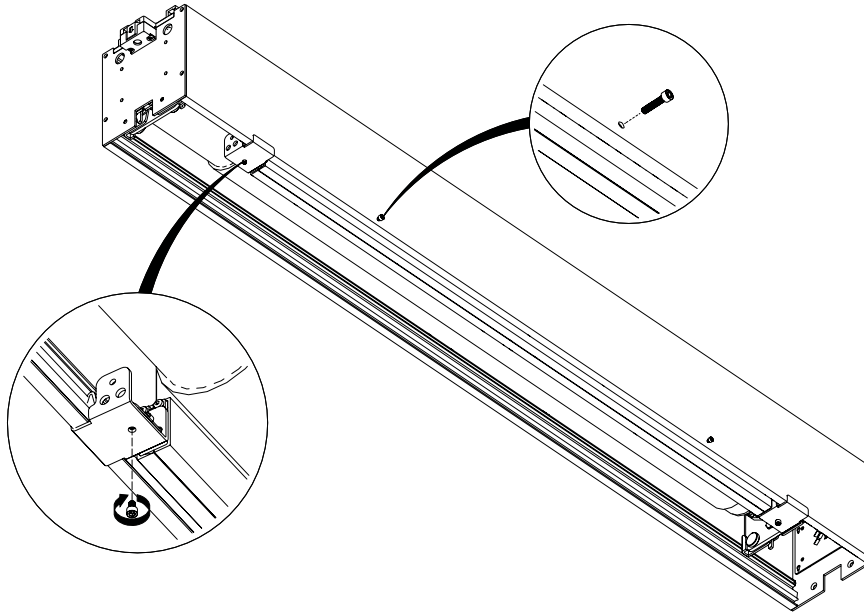
2 Remove attached screws from the bracket. Set the screws aside. Remove clips where attached to the cassette.
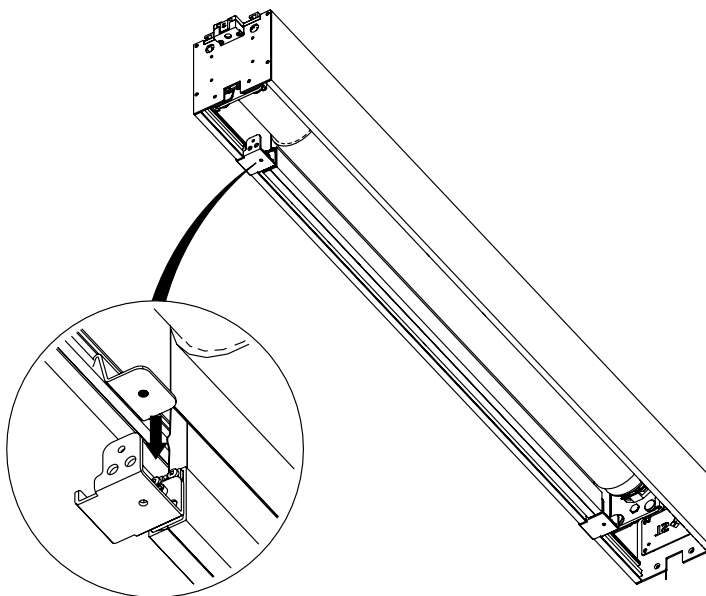
MOUNTING INSTALLATION − **METHOD 2** − WEIGHT BAR

3 Unscrew the weight bar clip from the weight bar.

4 Attach the magnetic endcap to the weight bar.
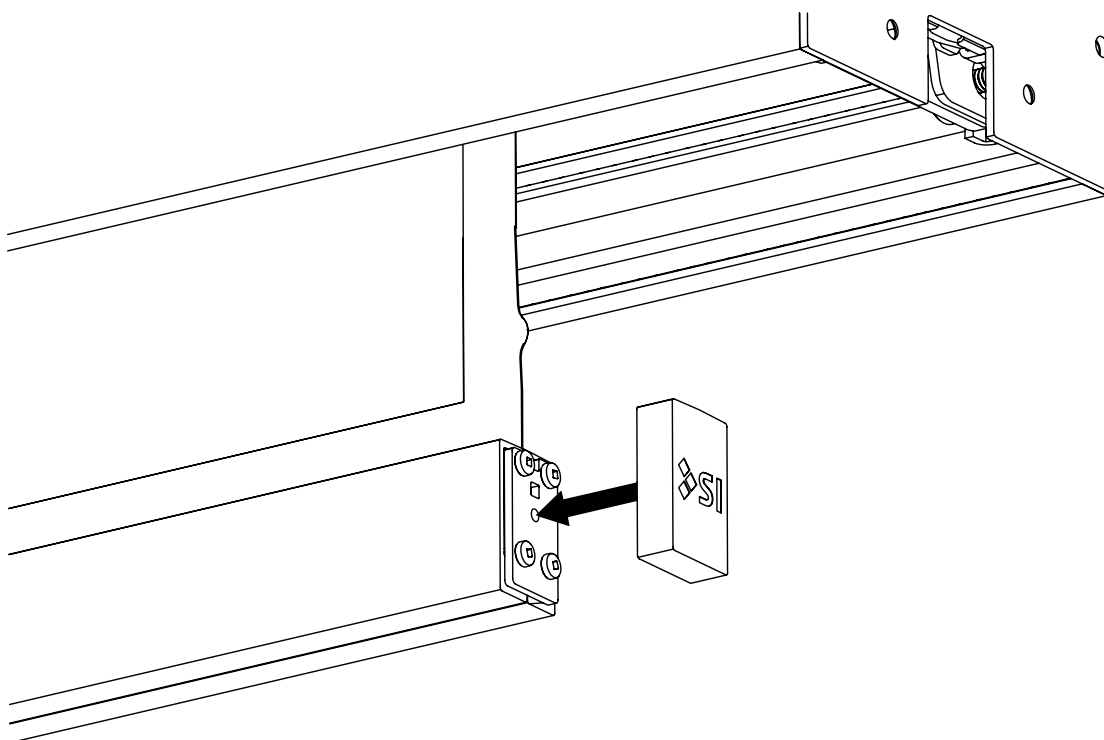
REINSTALLING MATERIAL TUBE (METHOD 2)

NOTE: Follow these steps for Assembly Method 2: Disassembled.
If using Assembly Method 1, skip to *page 23* for Finishing Touches.

1 Slide the material roll with mounting plates on each end into the cassette. Each end will "click" into place as the brackets engage.
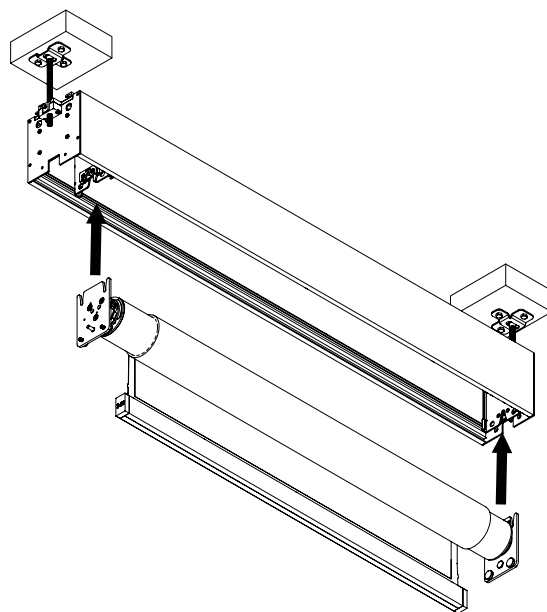
2 Fasten the silver safety screws on the mounting plates to secure the material roll.

INSTALLING/ REMOVING MOAB - 485 SCREENS

Connect Moab included in your Accessory box

Note1: Before installing/removing Moab, ensure all power is disconnected.
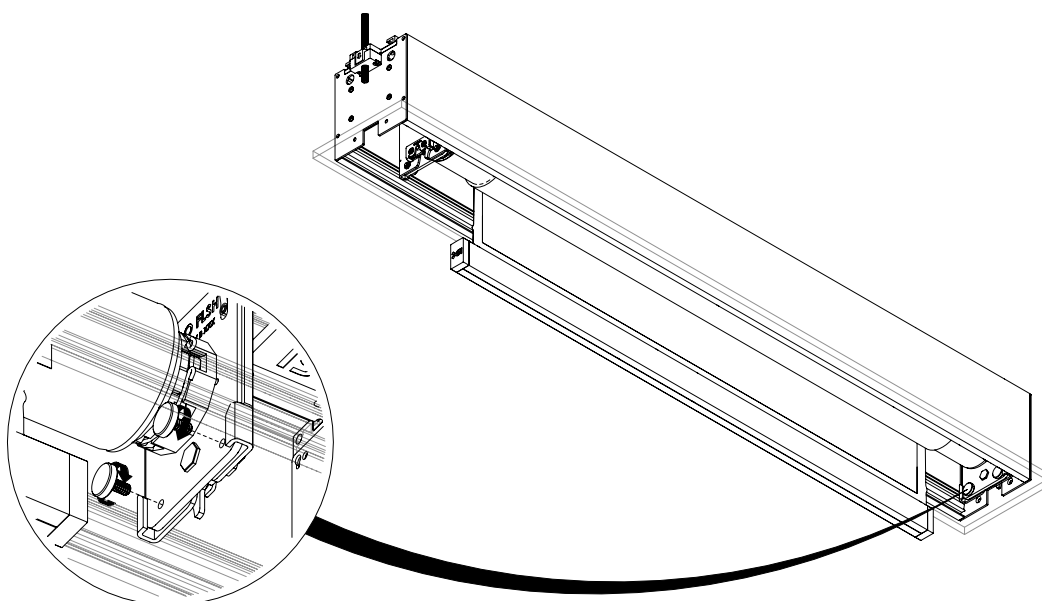
Note2: **For internal moab installation**, remove the enclosure using the slot on the right side just above the Din Rail feature, with a large flathead screw driver, gently pry the bottom away from the top.

1 The Moab board can be placed or removed from the internal PCB mounting plate by gently moving the entire board **up to remove** and **down to re-attach** the 4 standoffs. The reattachment will provide a tactical "click" feel and snap in place.

2 Depending on your motor configuration(110/220v or 24vDC), make the communication and power connections by following the steps on next 3 pages.
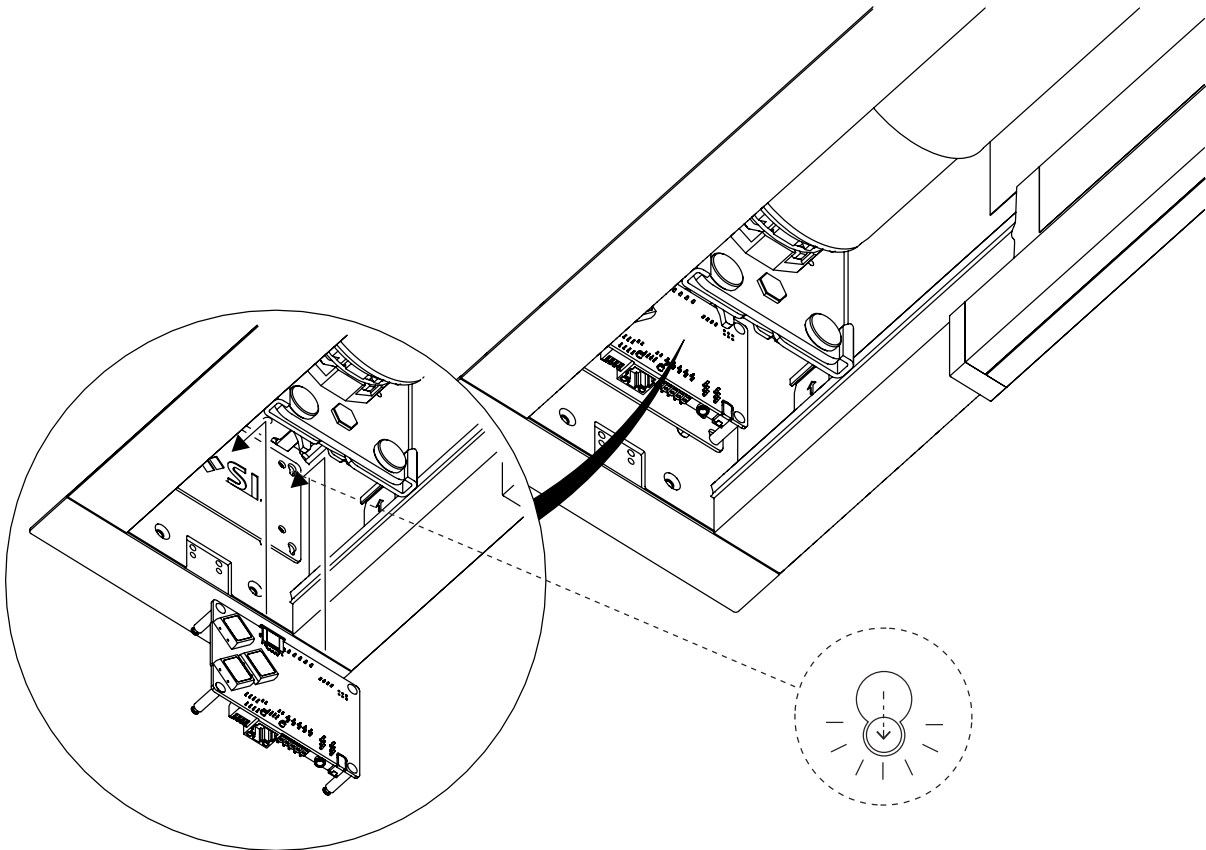
NOTE: If permanently removing/relocating Moab, refer to the *External Wiring* section of the Moab instructions by scanning this QR code.

INTERNAL CASSETTE WIRING

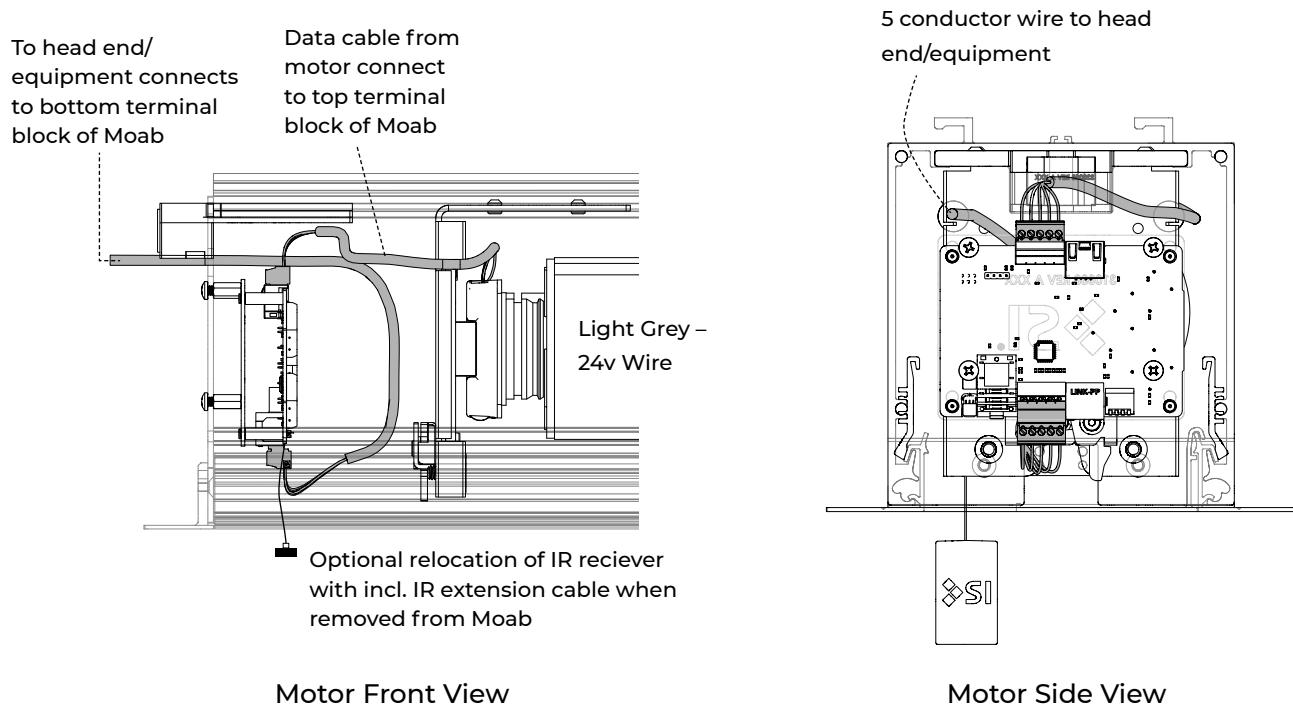NOTE: All Bracket, Assembly, and Mounting methods include Wiring as a part of installation.
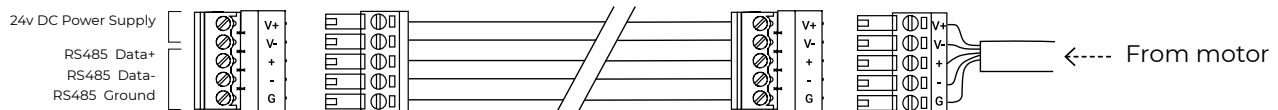
- 24V DC
- 110/220V AC

INTERNAL CASSETTE WIRING – 24V DC

NOTE: Determine the wiring type of your project; for 110/220v AC, refer to the following page.

1. Terminate the wires with the provided terminal block/ RJ45 as shown below.

To head end/ equipment connects to bottom terminal block of Moab

Data cable from motor connect to top terminal block of Moab

5 conductor wire to head end/equipment

Light Grey – 24v Wire

Optional relocation of IR reciever with incl. IR extension cable when removed from Moab

Motor Front View

Motor Side View

Detailed Low Voltage Power and 485 Control Wiring (DC Motor)

24v DC Power Supply

RS485 Data+
RS485 Data-
RS485 Ground
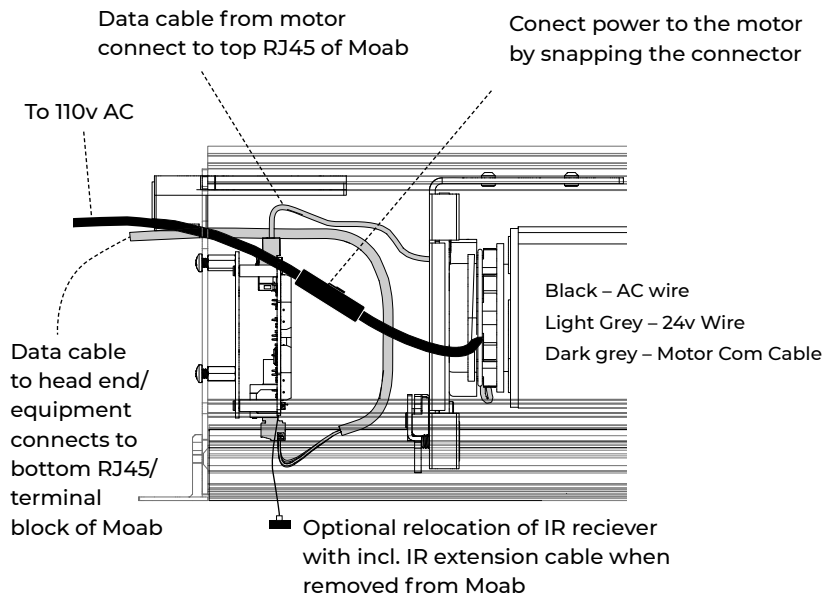
V+
V-
+
-
G

V+
V-
+
-
G

V+
V-
+
-
G

<----- From motor

Scan this QR code to review your wiring to determine the maximum length of the wire on the three (3) options as shown, or use this link:

https://si-website-files.s3.amazonaws.com/Downloads/Programming+Guides/ Shade/wire-topologies.pdf
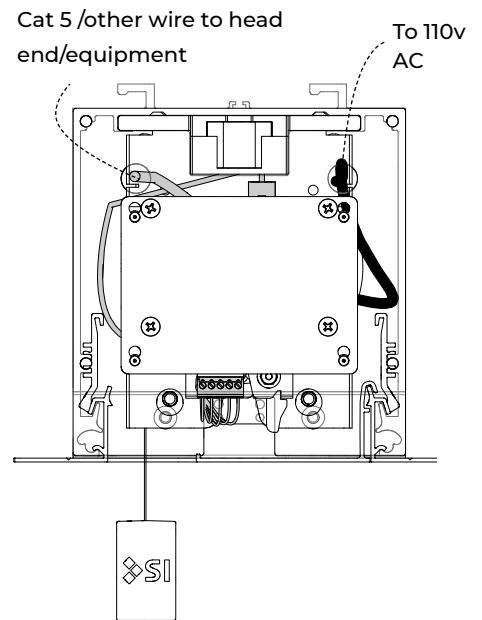
INTERNAL CASSETTE WIRING – 110V/220V AC

1. Terminate the wires with the provided terminal block/ RJ45 as shown below.

2. Make sure an appropriate junction box or power receptacle is located within 5ft of the installation location.

⚠ **The installer must follow all local electrical codes when connecting 110v AC power. A certified electrician is required to connect pigtail power.**
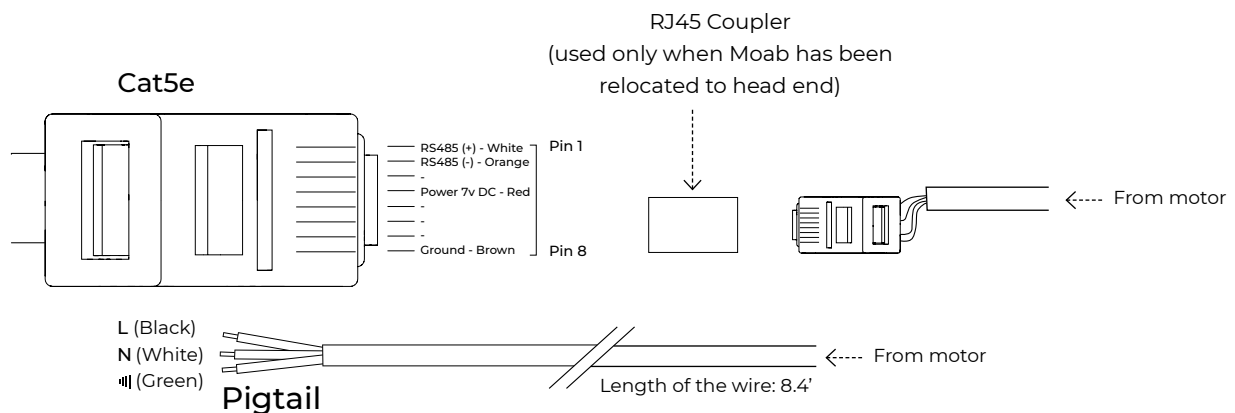
Data cable from motor connect to top RJ45 of Moab

Conect power to the motor by snapping the connector

Cat 5 /other wire to head end/equipment

To 110v AC

To 110v AC

Data cable to head end/ equipment connects to bottom RJ45/ terminal block of Moab

Black – AC wire
Light Grey – 24v Wire
Dark grey – Motor Com Cable

Optional relocation of IR reciever with incl. IR extension cable when removed from Moab

Motor Front View

Motor Side View

Detailed AC Pinouts

RJ45 Coupler
(used only when Moab has been relocated to head end)

Cat5e

RS485 (+) - White — Pin 1
RS485 (-) - Orange
-
Power 7v DC - Red
-
-
-
Ground - Brown — Pin 8

From motor

L (Black)
N (White)
�⏚ (Green)

Pigtail

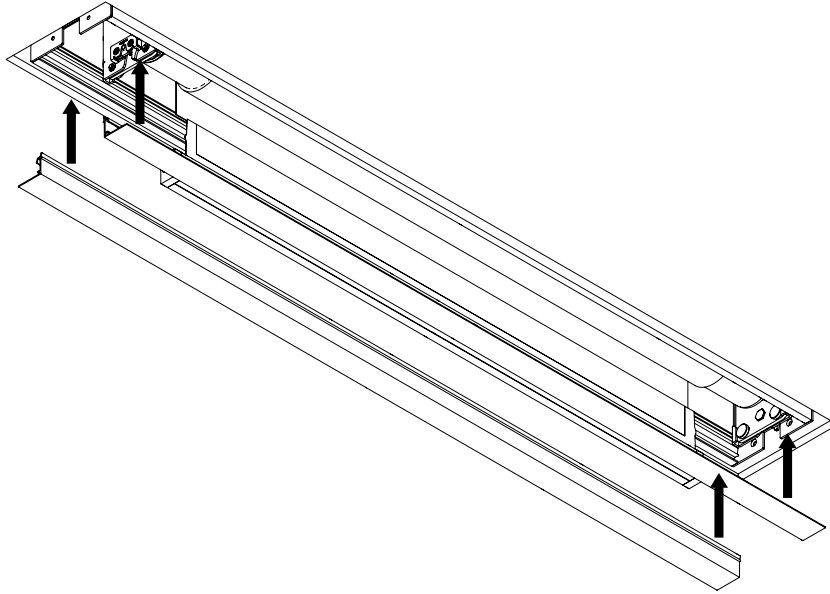Length of the wire: 8.4'

From motor

INSTALLATION – FINISHING TOUCHES

NOTE: All Bracket, Assembly, and Mounting methods include Finishing Touches to complete installation.

- Flanges
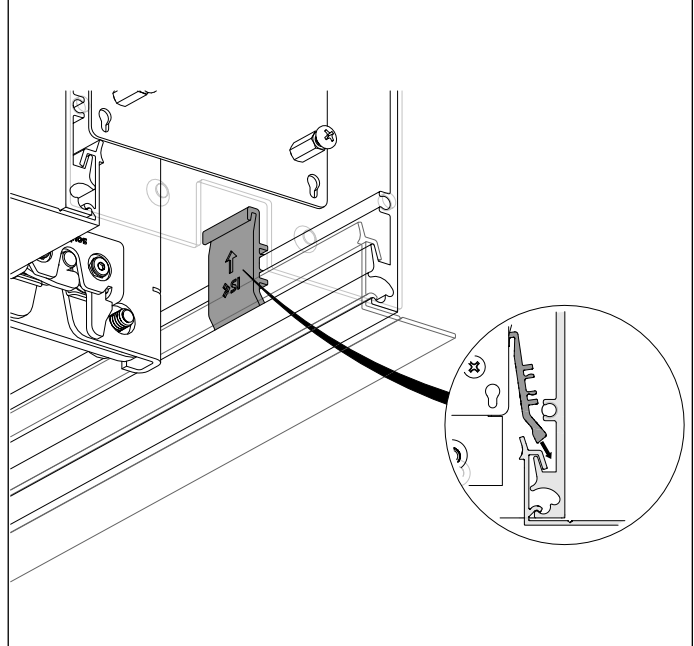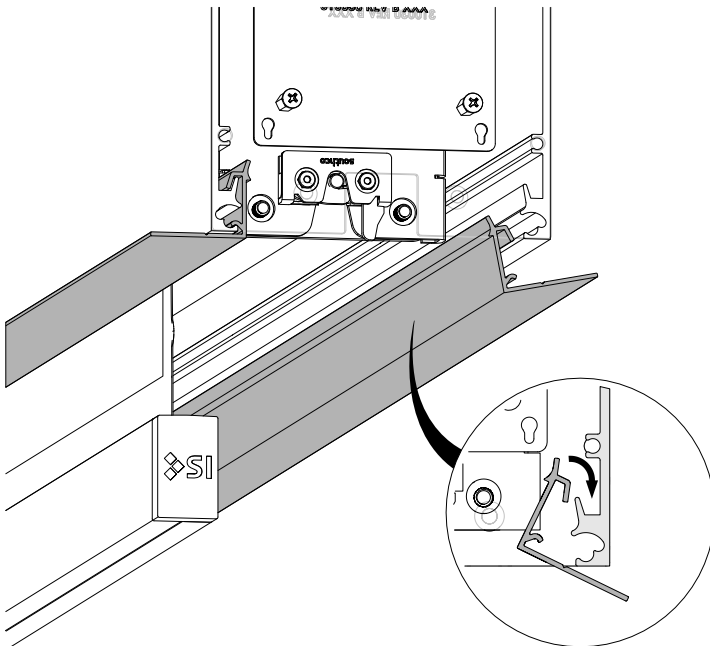- Fascia Door

INSTALLATION – **FINISHING TOUCHES** – FLANGES
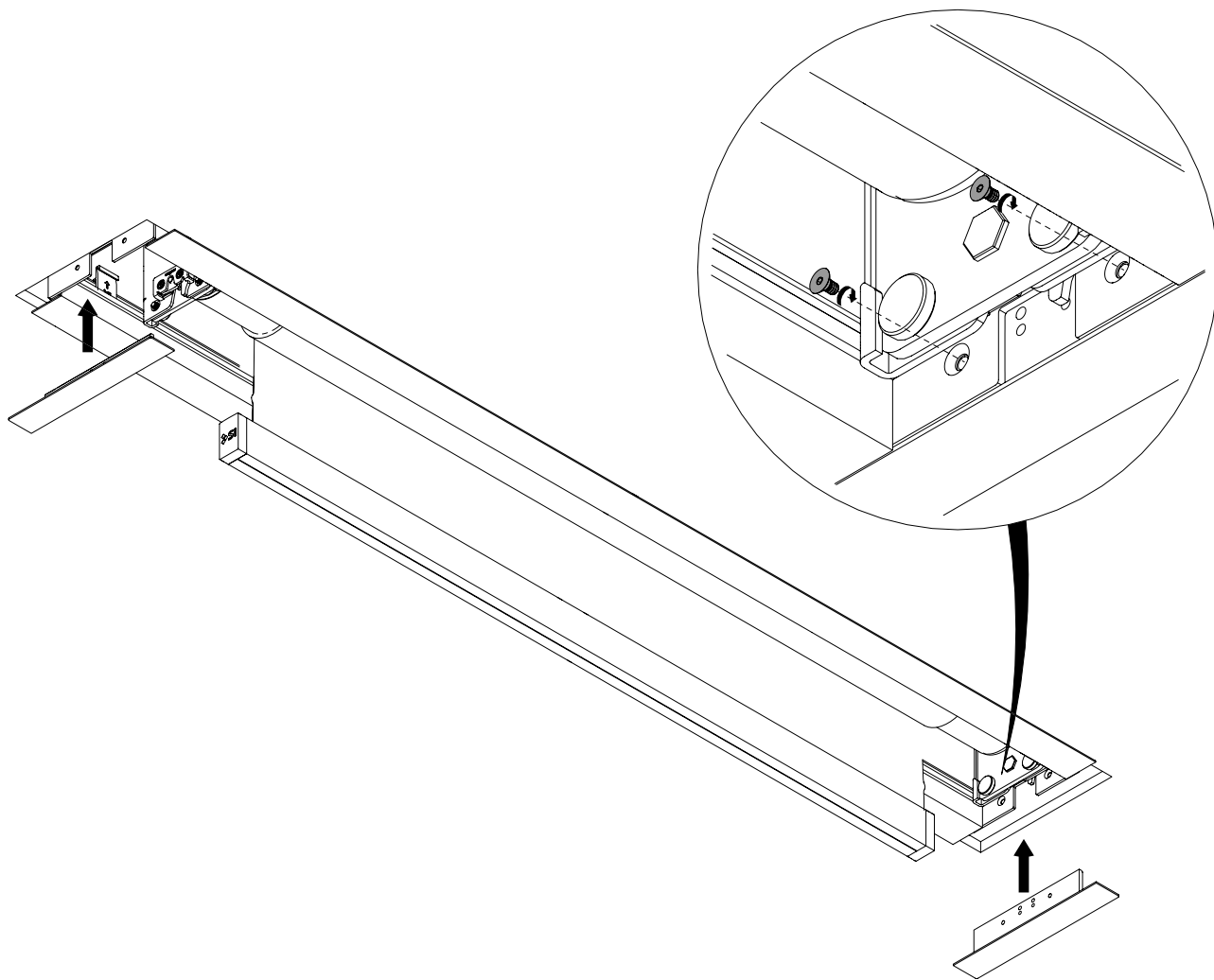
1 Rotate flanges into the cassette.

2 Hook flanges into the cassette. Ensure the flanges are secure by inserting the flange clips as shown.

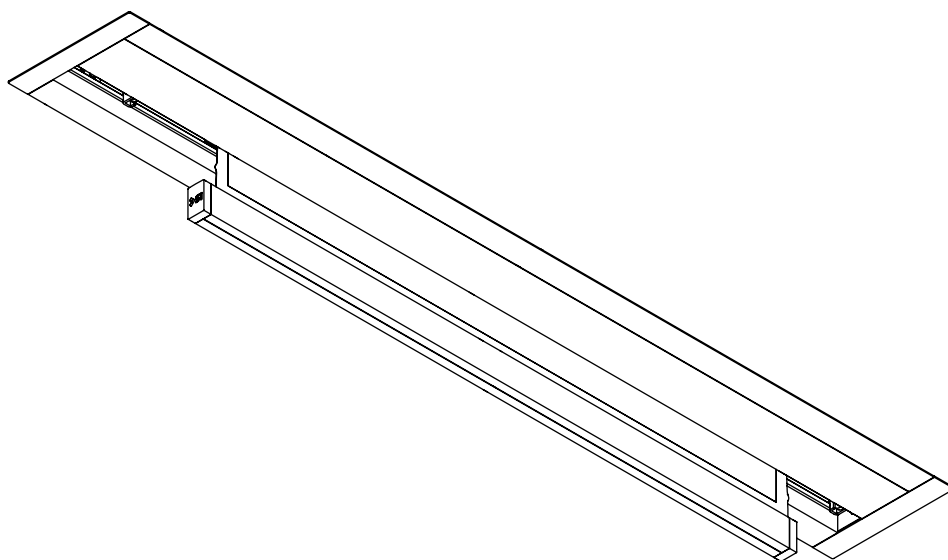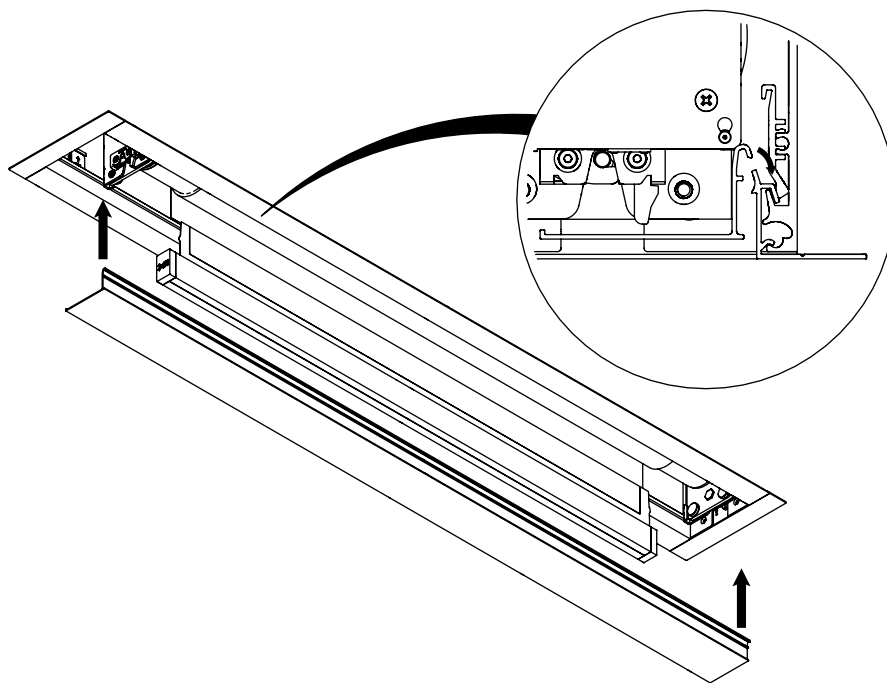# INSTALLATION – **FINISHING TOUCHES** – FLANGES

3 Place end (short) flanges into the cassette and screw in to secure.

INSTALLATION – **FINISHING TOUCHES** – FASCIA DOOR

4 Set the door into the cassette; the door will hook in by gravity.

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/IR 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-
commisioning-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

NOTES

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____

Screen Innovations

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

512.832.6939

www.screeninnovations.com