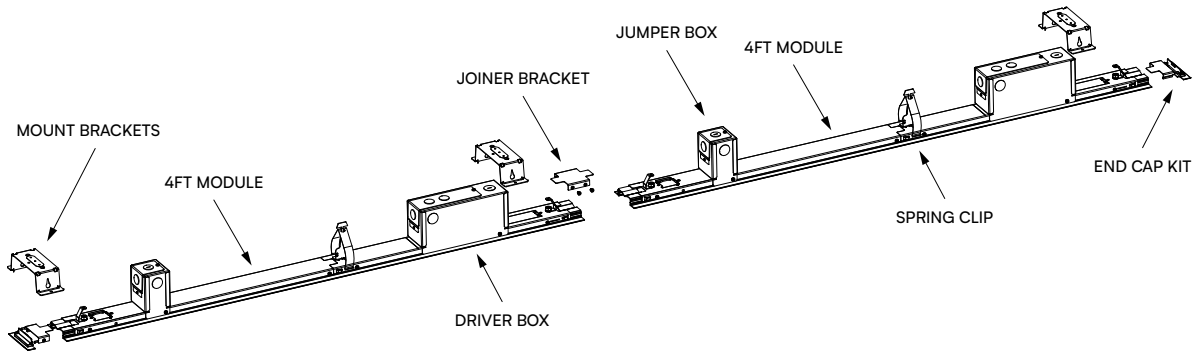
Exposed Flange Trim (CT)

System Overview

Two 4ft Fixtures – Continuous Run

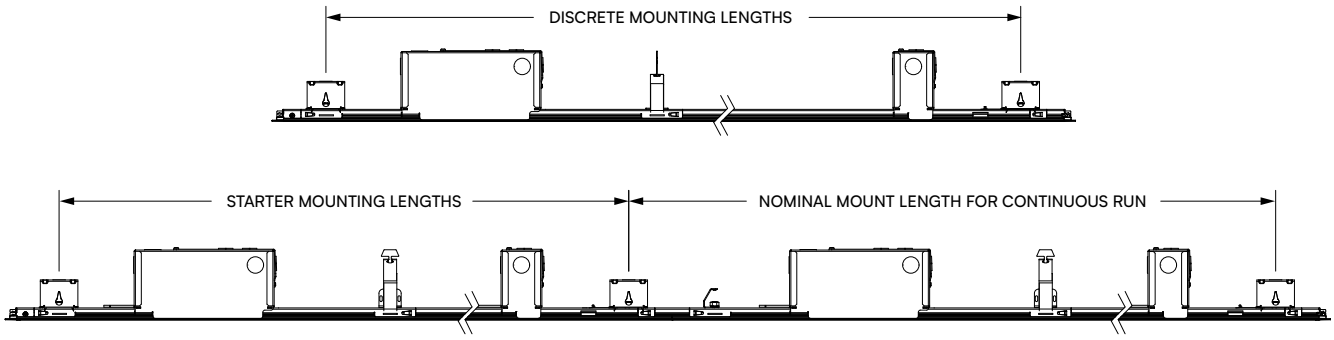


Discrete + Starter + Continuous Run Mounting Lengths

NOTE: Mounting dimensions are driven by suspension wire grippers fastened to the fixture.

Discrete + Starter Mounting Length (in)	18.7*	43.0	55.0	67.0	79.0	91.0
Discrete + Starter Mounting Length (mm)	475*	1092.2	1397	1701.8	2006.6	2311.4
Nominal Mounting Length Continuous Run (ft)	3.0*	4.0	5.0	6.0	7.0	8.0

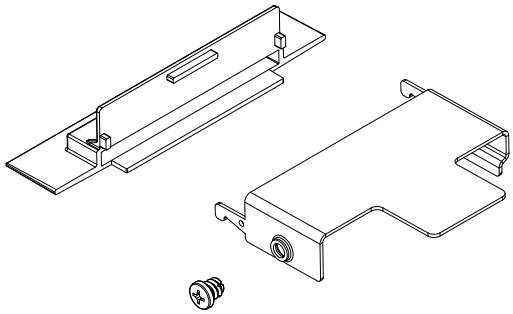
*Refer to layout drawings for lengths as fixtures between 2ft and 3ft are factory-adjusted and come in 1" increments.



Exposed Flange Trim (CT)

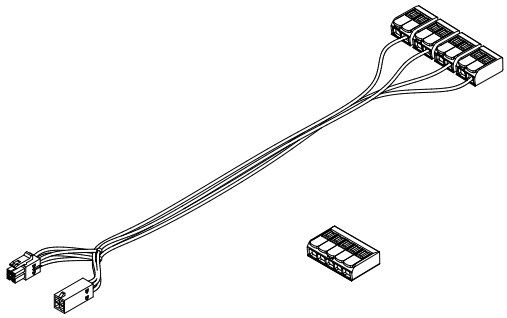
Endcap Kit

- 1 x Aluminum Diecast Endcap, White
- 1 x 10-32 Screws
- 1 x Endcap Joiner



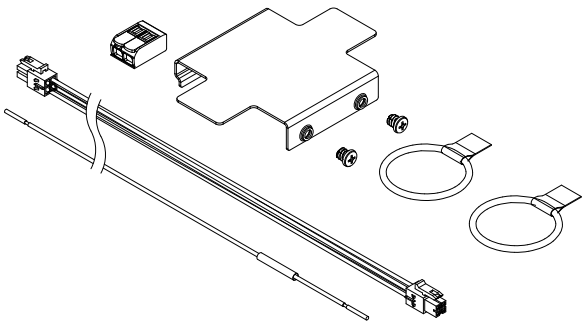
Power Drop Kit

- 1 x Wire Harness
- 4 x 2-Lever WAGOs
- 1 x 5-Lever WAGO



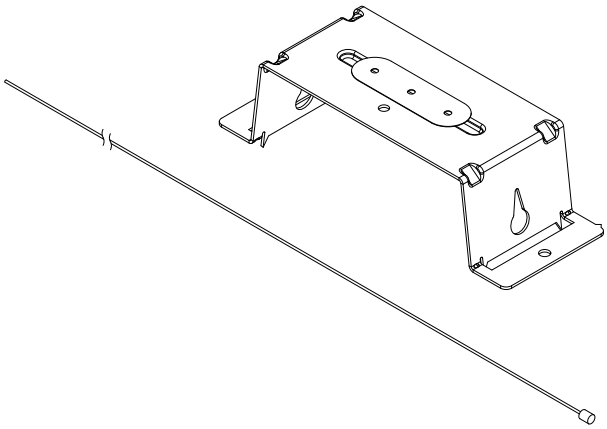
Joining Kit

- 1 x Power Connect
- 1 x Ground Wire Connect
- 1 x Joiner Brackets
- 1 x 2-Lever WAGO
- 2 x 10-32 Screws
- 2 x Pull O-Rings



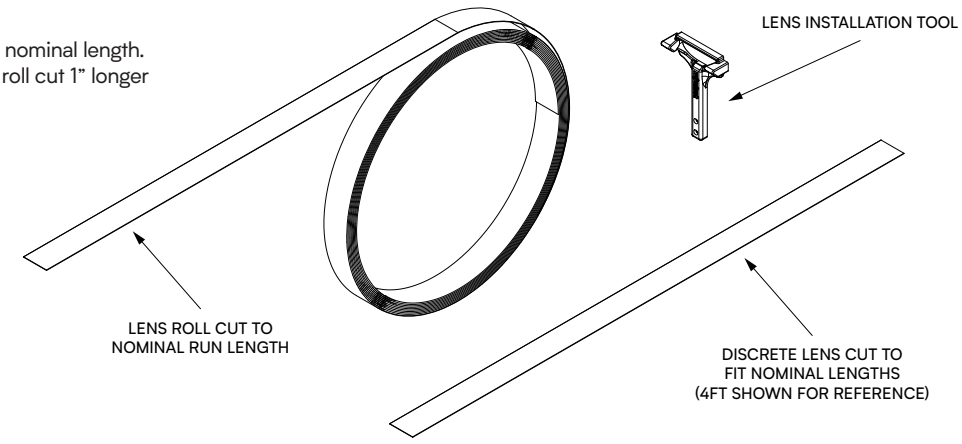
Mounting Kit

- 1 x Mounting Brackets
- 1 x 3ft Suspension Cables



Lens + Lens Install Tool

NOTE: For discrete the lens comes cut to nominal length. For continuous runs, the lens comes on a roll cut 1" longer than the nominal run length.



Exposed Flange Trim (CT)

Information

Grid (G1)

- For grid installation, refer to grid installation instructions for G1 versions.

Important

- Read all instructions including wiring and mechanical details before the start of the installation.
- Install in accordance with the local and national building and electrical codes.
- Do not join fixtures on the ground and raise them into place. This will damage the fixtures due to the significant forces on the joining brackets.
- Fixture through wiring is 18 AWG. Calculate maximum row length per fixture watts per foot and local and national building codes.
- Contact the factory if you require assistance or have questions.
- CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR. / CONSULTER UN ÉLECTRICIEN QUALIFIÉ POUR VOUS ASSURER QUE LES CONDUCTEURS DE LA DÉRIVATION SONT ADÉQUATS.

Tools Required

Tools:

- #2 Phillips Screw Driver
- Pliers
- Drywall Cutting Tool
- Flat Head Screw Driver

Materials:

- 2" and/or 3" sheet metal screws (by others for securing the stud)
- Hanger Wire (by others)

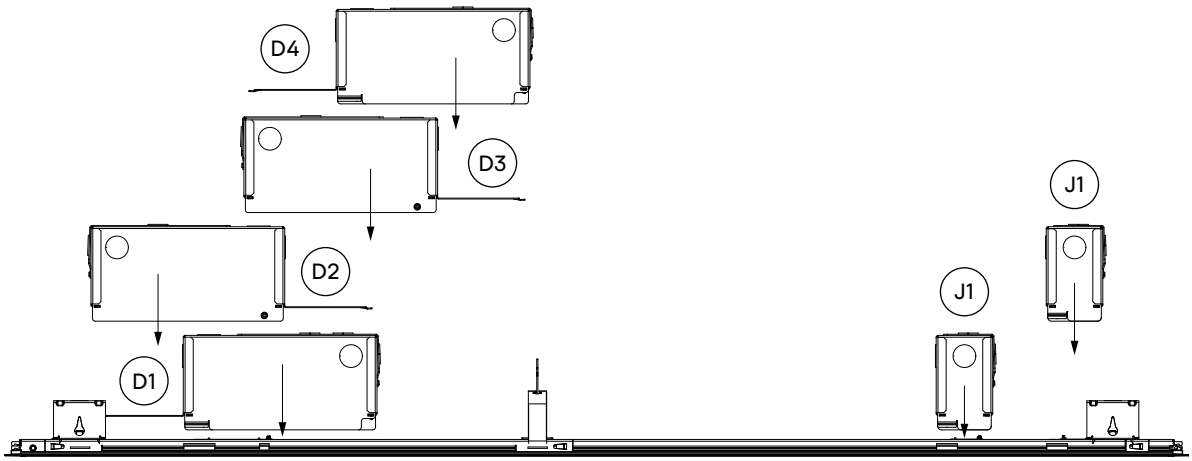
Safety Warnings

- **Shock hazard!** Fixtures must be connected to building ground via provided ground wire before connecting to main supply power.
- Disconnect or turn off power supply before attempting any installation maintenance or servicing operations.
- **CCEA applications** driver box and jumper box **can not** be adjusted.

Ceiling Preparation

Drywall Gypsum

Interspace is designed to allow for minimal to no framing or furring of studs, and to avoid obstructions in the ceiling plenum. Driver boxes and jumper boxes are supplied from the factory with the default positions D1 and J1 for standard nominal stud spacing at 16" (406.4 mm) through can be adjusted as needed – Refer to Additional Steps section at end of install instructions for adjustments steps.



Exposed Flange Trim (CT)

1 Layout Planning

As per the layout drawings, plan locations for fixture mounting and power drop locations.

Understanding the stud orientation will help determine the steps to install the power locations, mounting brackets, drywall ceiling installation, and cut out openings.

2 Prepare Ceiling

NOTE: During planning, identify locations of obstructions in the path of the installation.

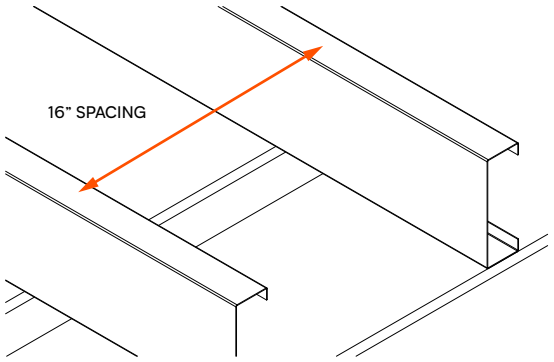
The driver or jumper boxes can be adjusted accordingly if required prior to power installation and fixture installation steps.

OPTION A: Perpendicular studs to cut out length

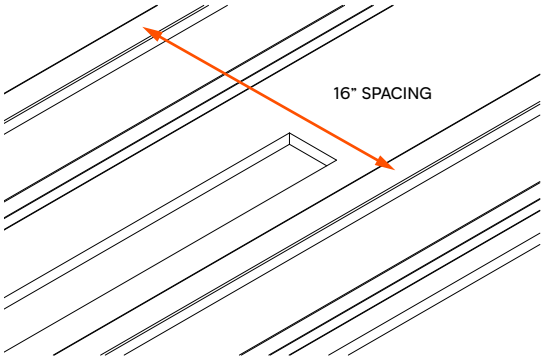
OPTION B: Parallel studs to cut out length

3 Prepare Ceiling Options: A + B (Cut Out Shown for Reference)

OPTION A: Perpendicular Stud

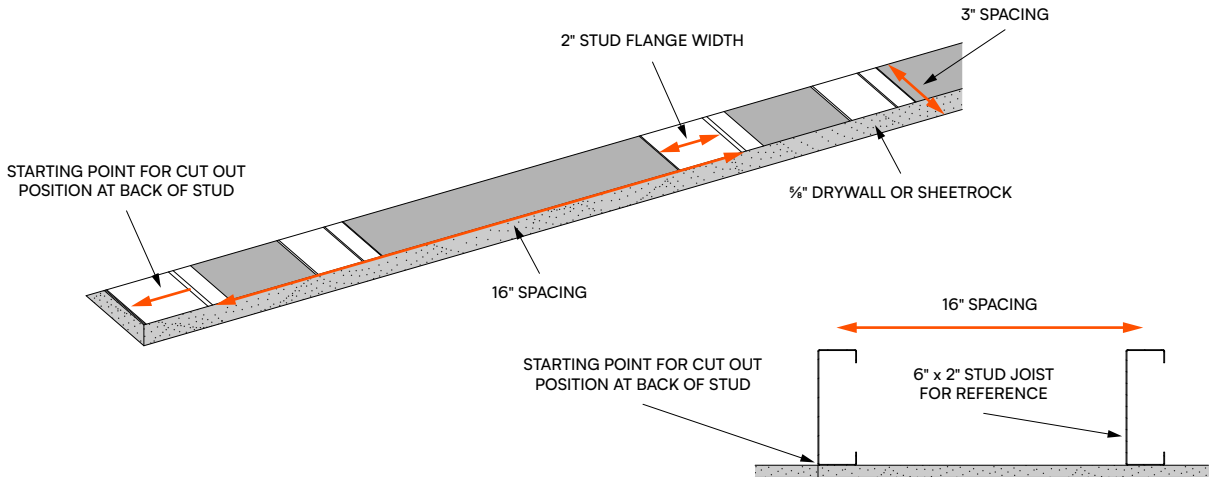


OPTION B: Parallel Stud



4 Prepare Ceiling Option: A — Predetermine Starting Point(s)

Starting locations to allow for minimal to no adjustment of the driver and jumper box positions for stud avoidance are determined in the following instructions. Cut out shown for reference. Recommended to start the cut out or drywall placement at the back of the stud for the opening. The cut out starting positions are designed around ≤ 2" (76.4 mm) stud flange width with a minimum stud height of 3.5".

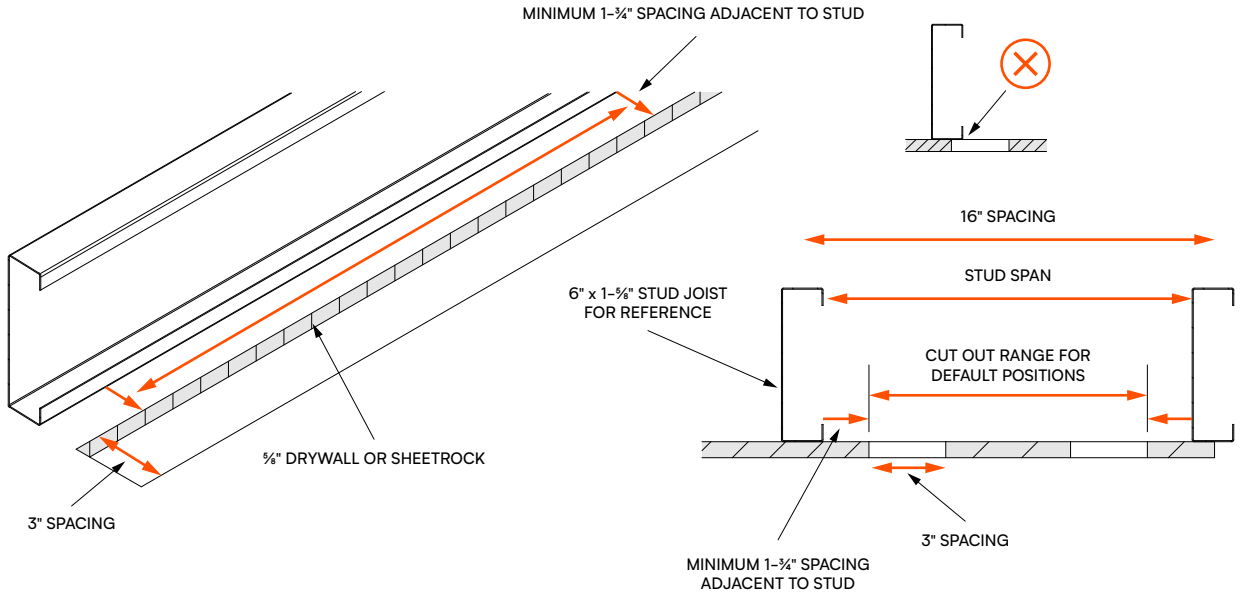


Exposed Flange Trim (CT)

5 Prepare Ceiling Option: B — Predetermine Starting Point(s)

Optimal cut out range between stud span. Start the parallel cut minimum 1-¾" adjacent to the stud face and into the middle of the span. This cut out location will ensure the mounting bracket can be installed with the default, mounting bracket, driver box, and jumper box positions. Cut out shown for reference.

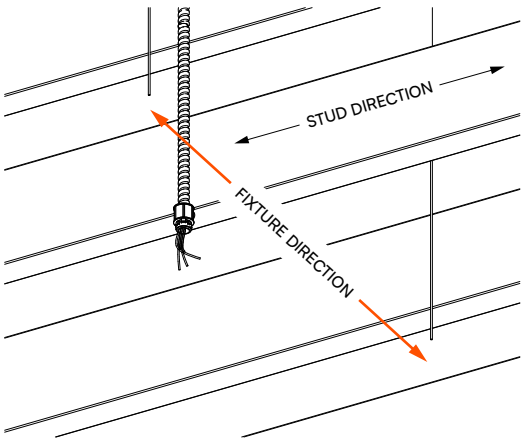
IMPORTANT: The cut out can not fall under a stud in parallel application.



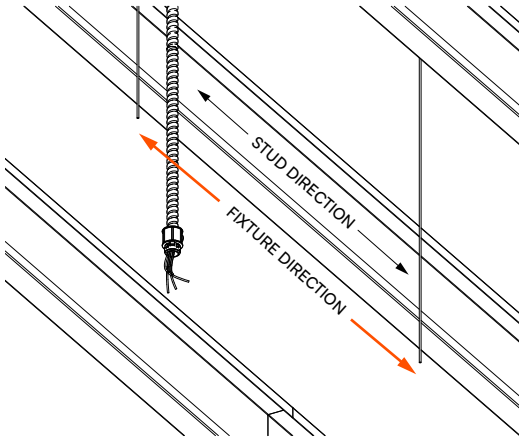
6 Install Power Drops + (Optional Hanger Wires)

Once starting locations are determined, install power drops at locations as power layout drawings. Allow the power drop to fall 12 to 16 inches below the ceiling. Optional step: (per local building codes and authorities having jurisdiction): Install hanger wires above mounting locations and nominal mounting locations as per layout drawings. Leave 6 to 10" of hanger wire below ceiling to allow wires to be secured to brackets with slack once final position is known.

OPTION A: Perpendicular Stud



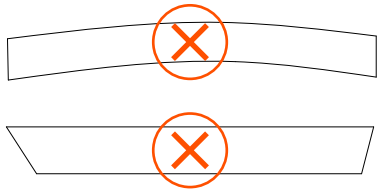
OPTION B: Parallel Stud

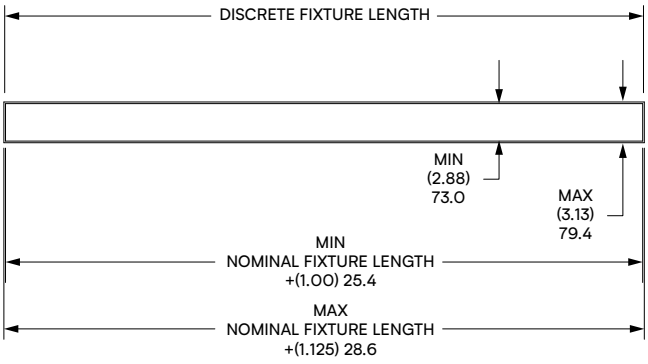


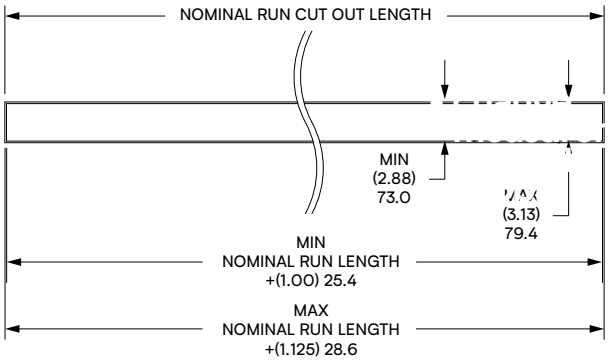
Exposed Flange Trim (CT)

7 Install GWB + Cut Out Openings as per Layout Drawings and Predetermined Planning

- Recommend using appropriate tools to outline specific ceiling cut out dimensions and locations to ensure straightness of the cuts)
- Avoid cutting uneven cuts and curves over the length.
- Proper care to ensure straightness of cuts with accuracy is important in the drywall to avoid rework and for proper fit and function of the Interspace Lighting fixtures.
- For patterns refer to layout drawings for cut lengths.



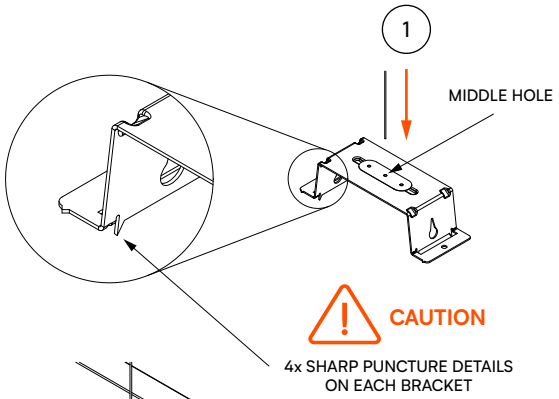


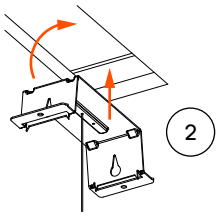


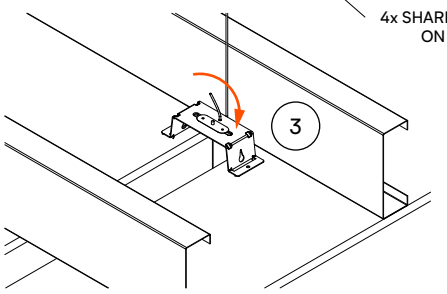
8 Install Mounting Brackets Options: A + B

CAUTION: Be mindful of sharp puncture detail x4 on each bracket.

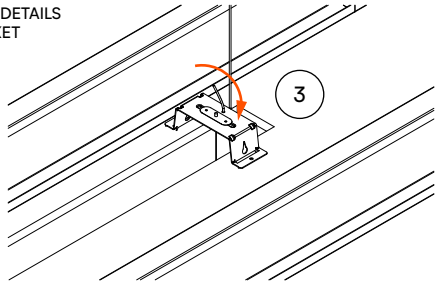
1. Feed suspension cable through hole on mounting bracket (middle hole is default position).
2. Raise up and rotate to pass through the opening.
3. Rotate back perpendicular to opening and push down to puncture the surface of the GWB.







OPTION A: Perpendicular Stud

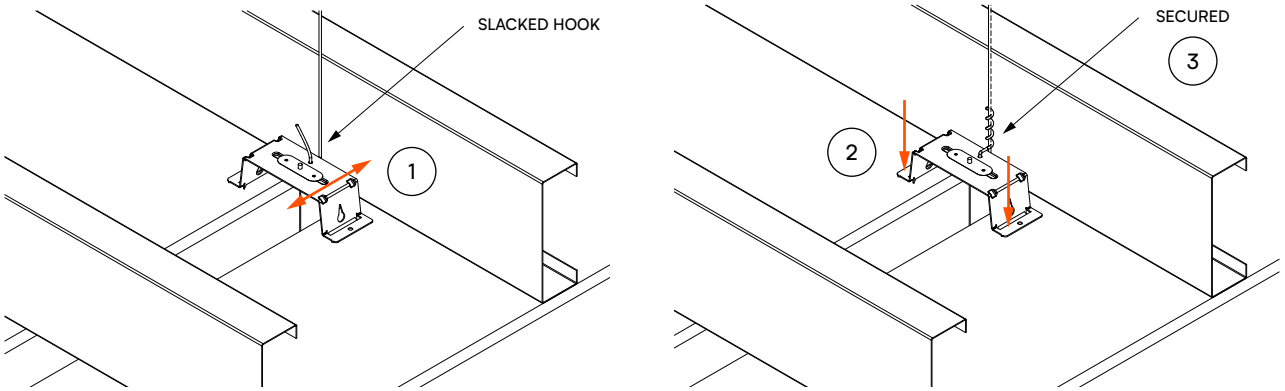


OPTION B: Parallel Stud

Exposed Flange Trim (CT)

9 Secure Hanger Wire to Bracket (Optional)

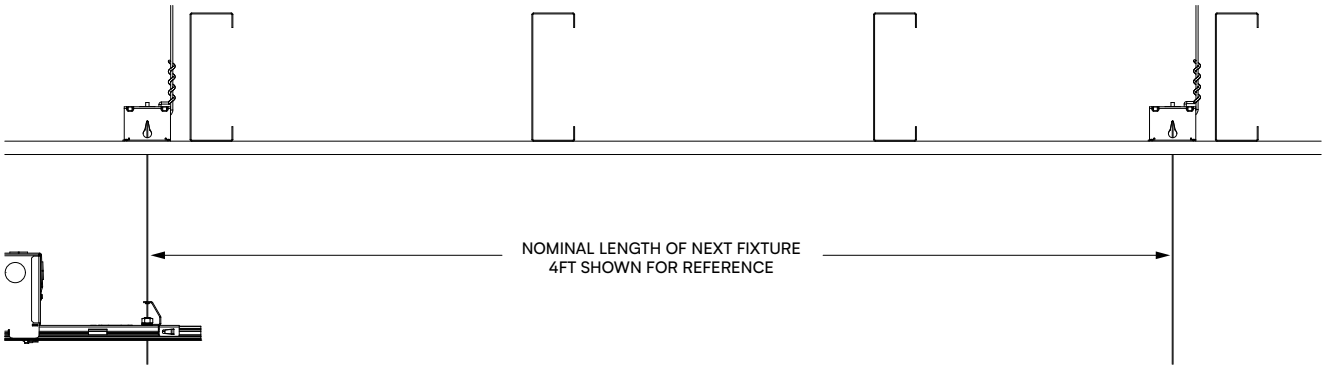
1. When securing hanger wire, leave a slacked hook to allow adjustment of bracket during locating bracket to final position.
2. Finalize adjustments and seat.
3. Secure hanger wire. Option A shown for reference.



10 Continuous Run Mount Bracket Location Installation

The next mount bracket in a run is to be installed a nominal distance of the length of the fixture.

EXAMPLE: The next fixture in the run to be installed is 4ft, the next bracket is to be installed 4ft from the last mount bracket in the run.



11 Additional Steps

Contact the factory for assistance and guidance on the below items.

- Driver and jumper box adjustments
- Securing fixture with 2-3" self taping screw when mount falls under a stud
- Adjust/move/remove gripper for suspension cable when close to perpendicular stud
- Modify mount bracket when next to stud in parallel stud orientation
- Spring clip move and reinstall steps

Exposed Flange Trim (CT)

Installation Steps — Discrete

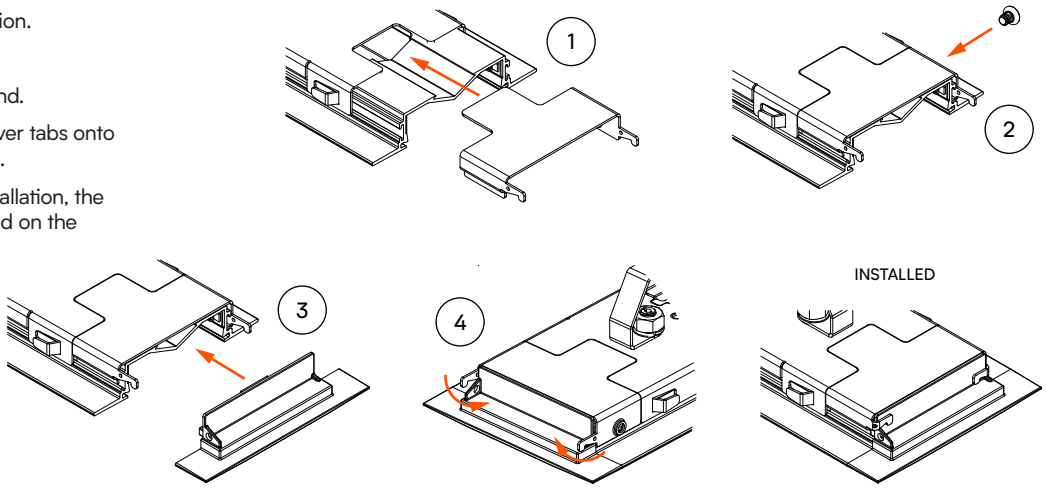
1 Place Boxes + Prepare Fixture for Suspension

Place boxes on ground below location as per layout drawings. Unpack fixture from packaging.
Do not remove protective plastic or any care labels during installation.

2 Install Endcap(s)

1. Install end cover onto extrusion.
2. Hand tighten with screw.
3. Install diecast endcap into end.
4. Secure in place by folding over tabs onto back face of diecast endcap.

NOTE: For a continuous run installation, the endcaps only need to be installed on the starter fixture and end fixture.



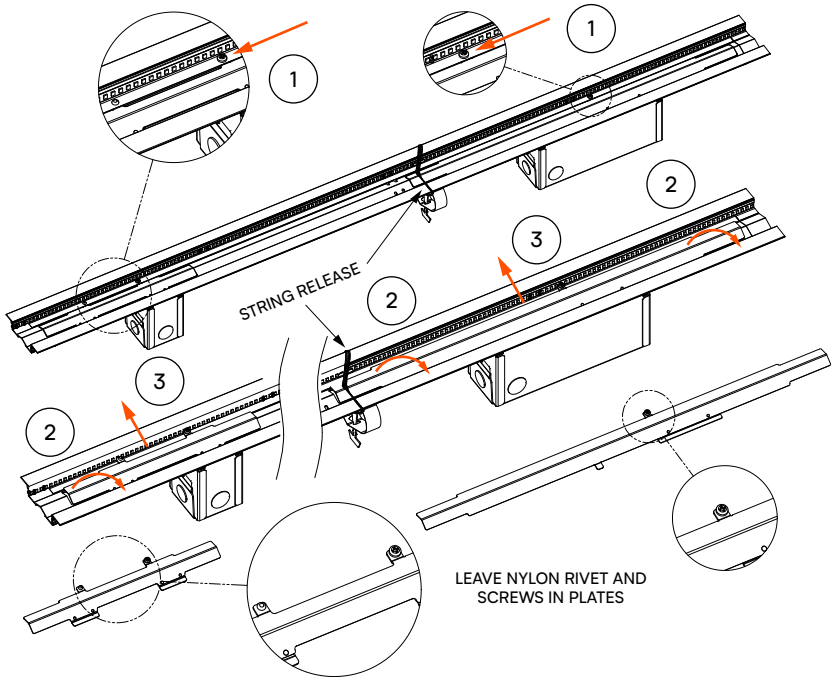
3 Driver Box Access Plate + Jumper Box Access Plate Removal

NOTE: Turn the fixture over so the optical cavity faces up.

DO NOT REMOVE STRING RELEASE.

1. Use #2 Phillips screwdriver to remove retention screws.
   NOTE: The retention screw is captive and will stay with the cover plate – there is no need to fully remove it. Do not remove the nylon rivet on the jumper access plate.
2. Remove access plates.
3. Grippers will become accessible for suspension.

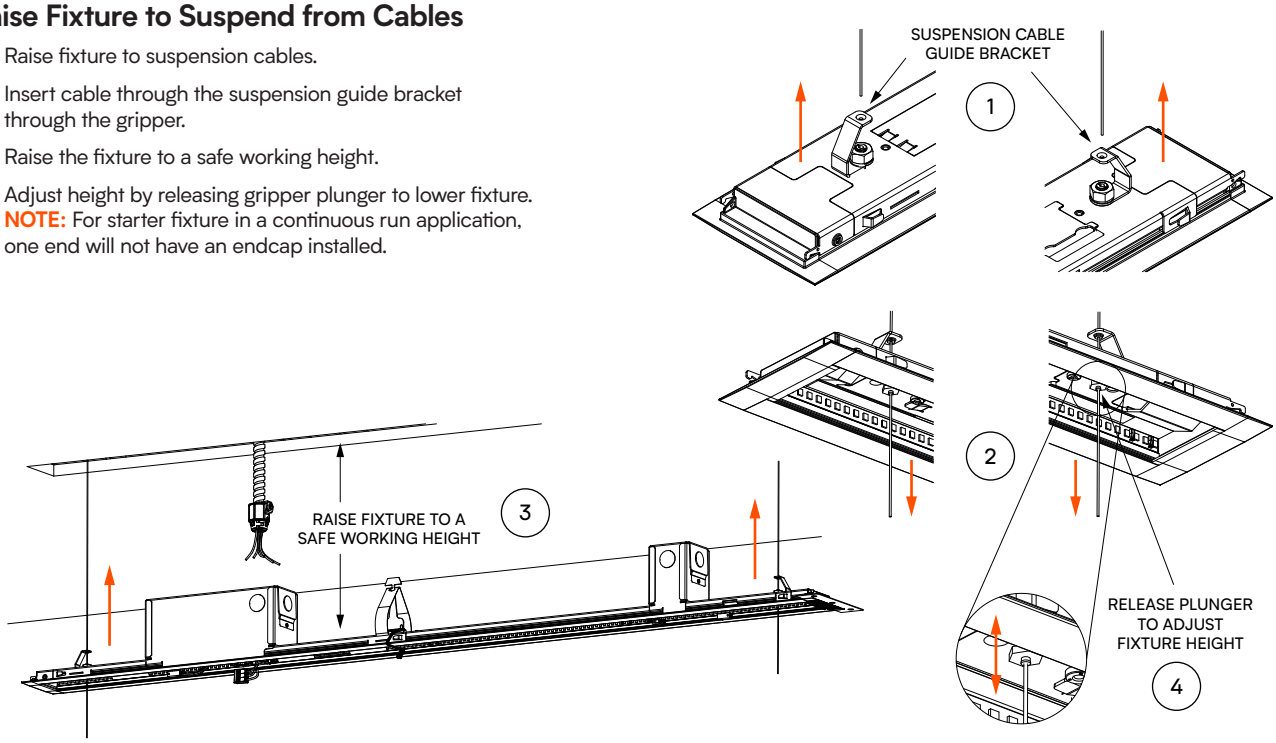
NOTE: Middle run fixture shown for reference, endcaps not installed.



Exposed Flange Trim (CT)

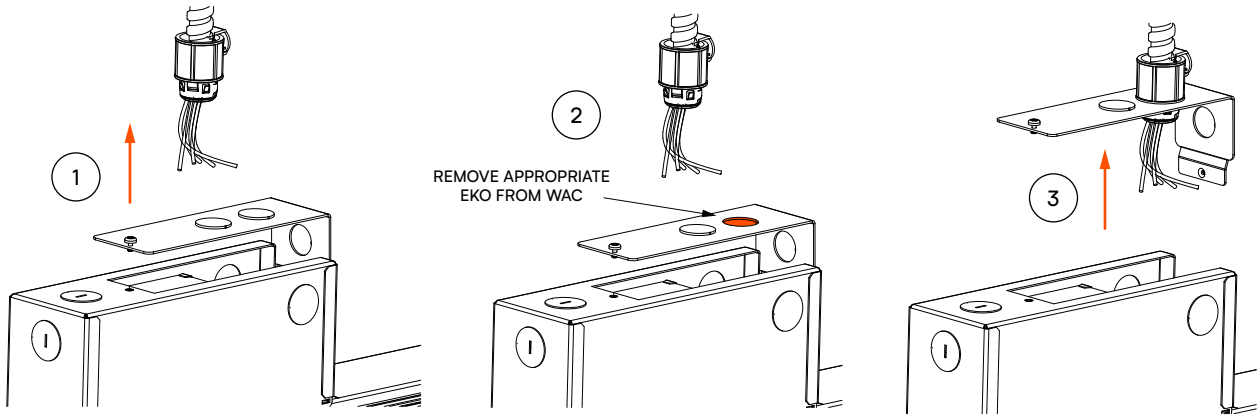
4 Raise Fixture to Suspend from Cables

1. Raise fixture to suspension cables.
2. Insert cable through the suspension guide bracket through the gripper.
3. Raise the fixture to a safe working height.
4. Adjust height by releasing gripper plunger to lower fixture.
   NOTE: For starter fixture in a continuous run application, one end will not have an endcap installed.



5 Prepare Power Connection – Driver Box

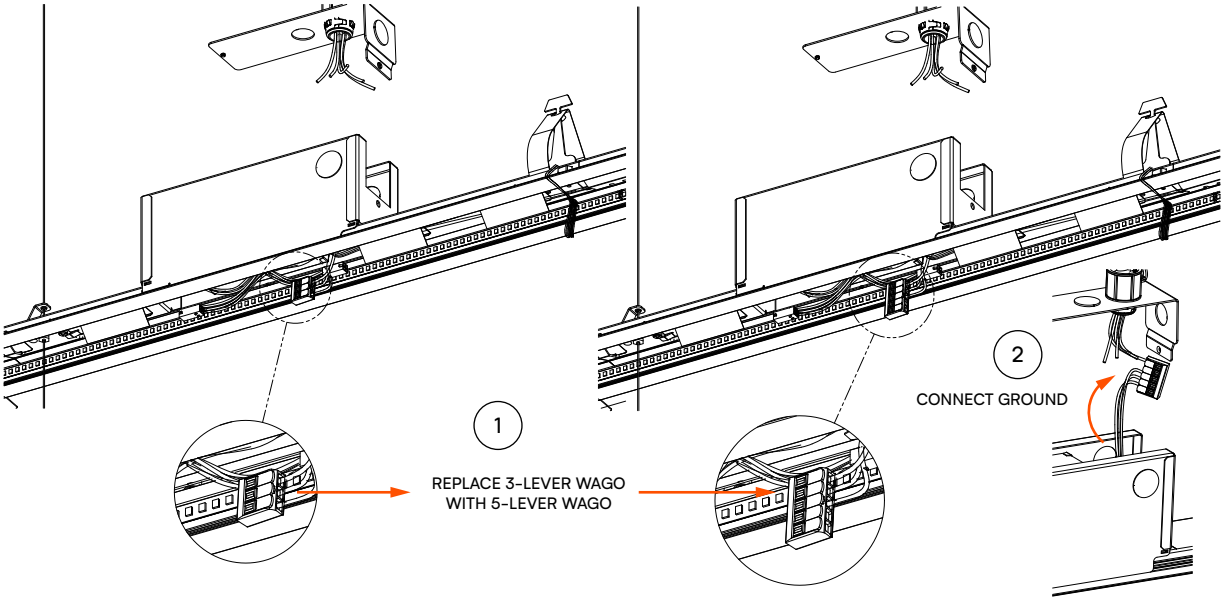
1. Loosen captive screw from driver box to remove wire access cover (WAC) from driver box.
2. Remove EKO.
3. Install WAC onto an armored cable *(quick connect shown for reference).*



Exposed Flange Trim (CT)

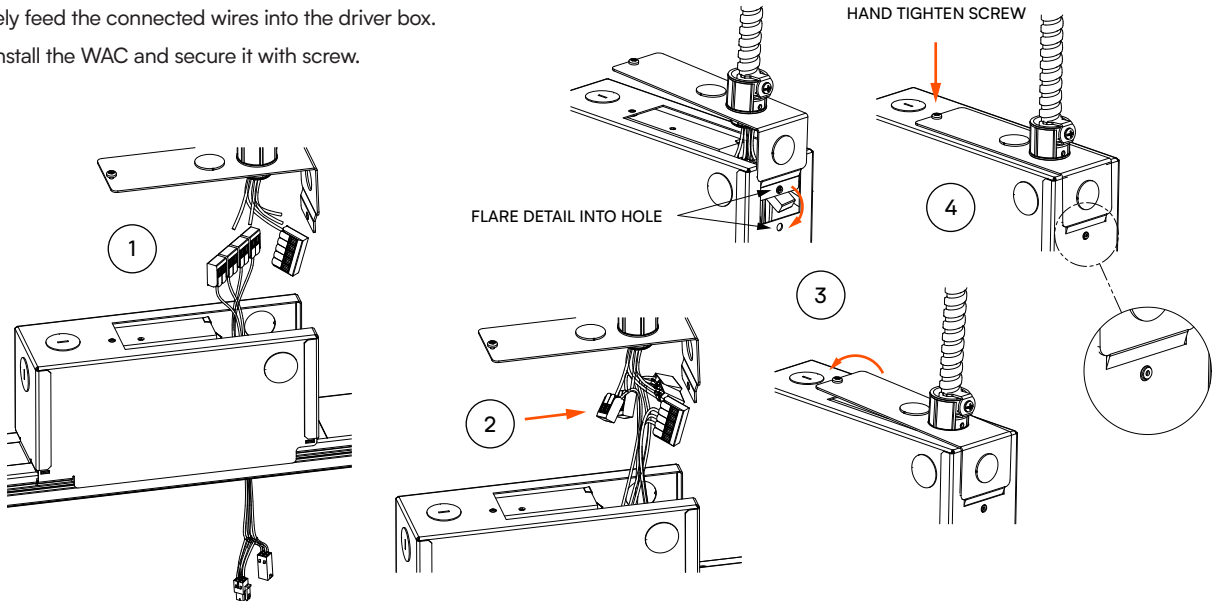
6 Gather the Power Drop Kit and Make Ground Connection – Driver Box

1. Replace 3-Lever WAGO connecting the ground wires with provided 5-lever WAGO.
2. Pass ground wire WAGO up to supply ground to connect to supply ground first.



7 Connect Power Drop Harness – Driver Box

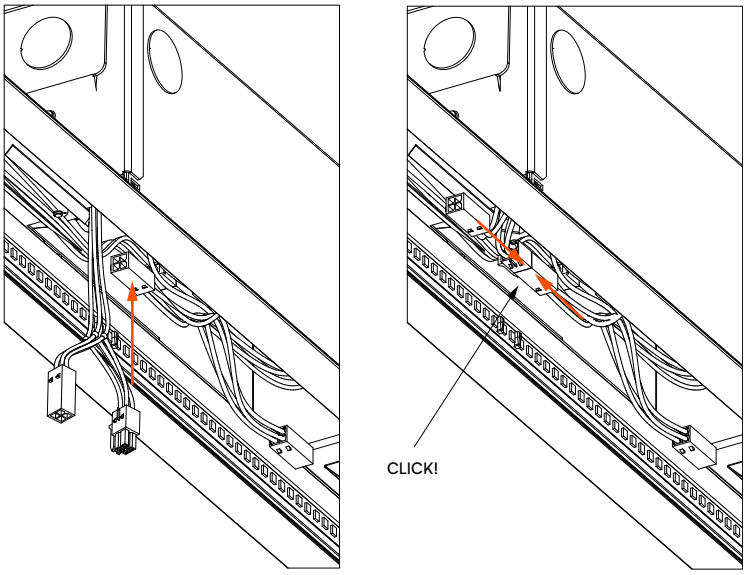
1. Pass the power drop harness through the driver box.
2. Connect the 2-Lever WAGOs to complete electrical connections to supply.
3. Safely feed the connected wires into the driver box.
4. Reinstall the WAC and secure it with screw.



Exposed Flange Trim (CT)

8 Connect Power Drop to Fixture Connector – Driver Box

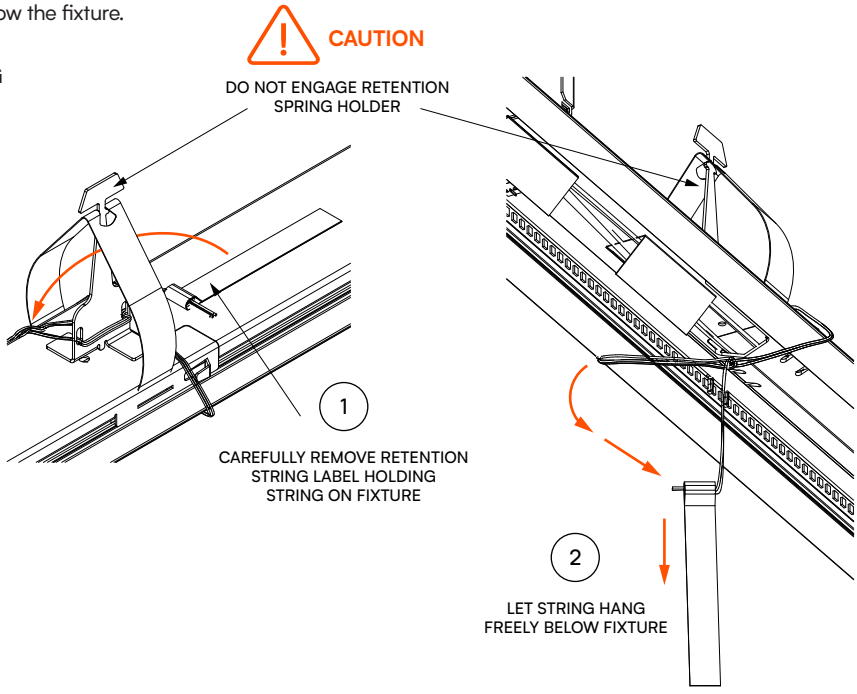
Connect the power drop harness connector to the driver connector harness to complete the electrical connection.



9 Prepare Fixture to Raise Into Opening

1. Carefully remove the retention spring string label holding the string to the housing.
2. Feed the string with the label still on swag back through the spring loop to allow it to freely hang below the fixture.

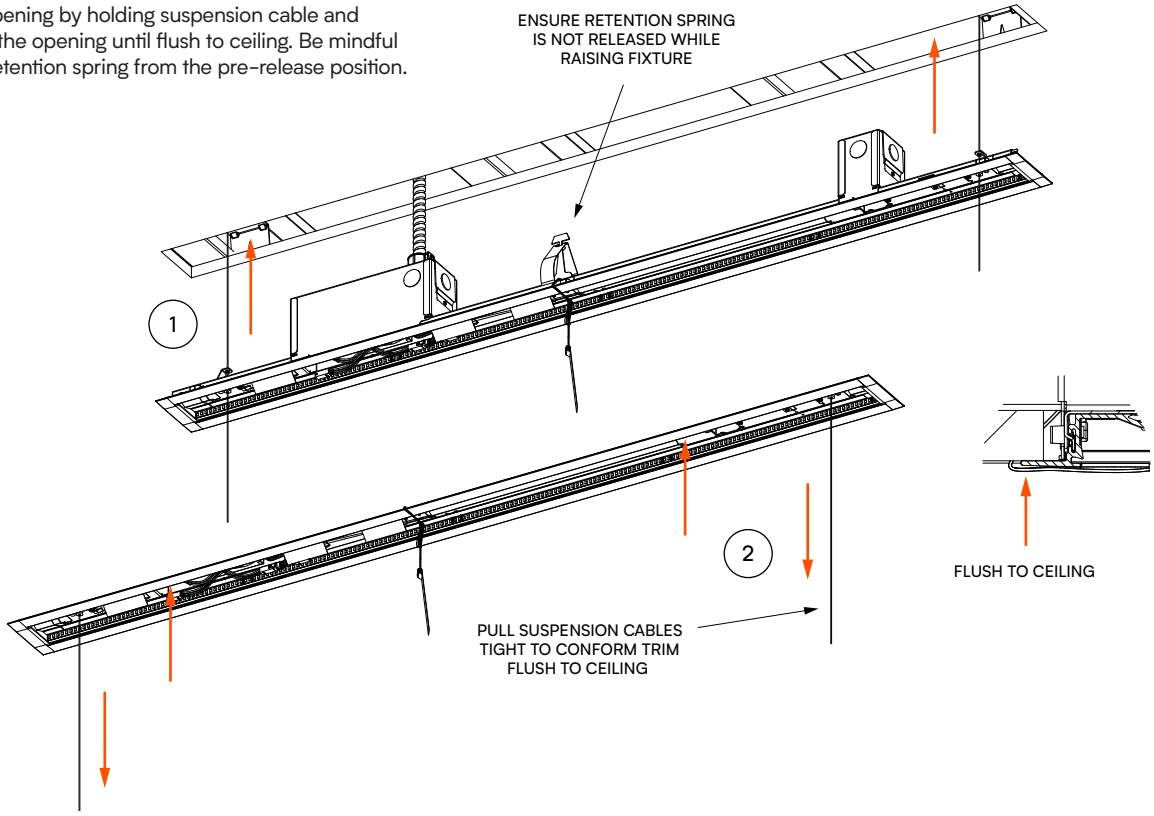
DO NOT PULL DOWN ON STRING. THIS WILL ACTIVATE THE RETENTION SPRING AND IT WILL NEED TO BE RESET.



Exposed Flange Trim (CT)

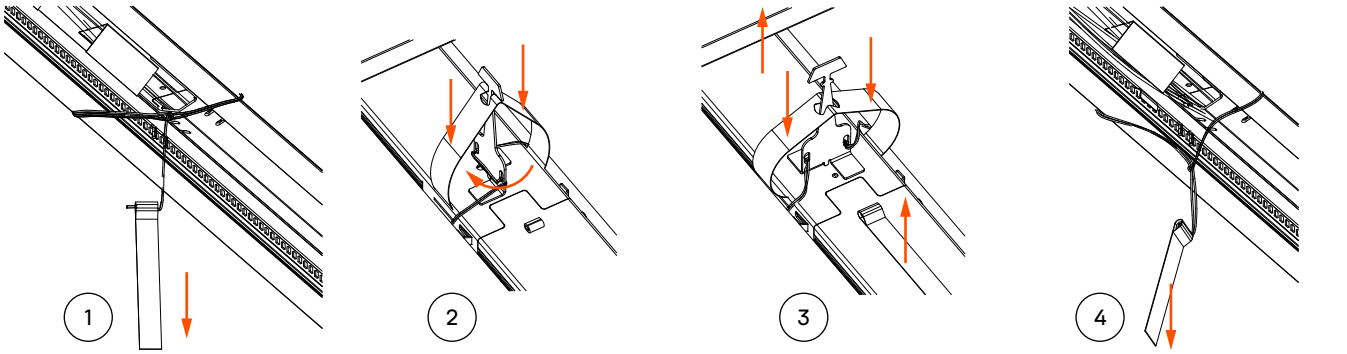
10 Raise Fixture Until Flush and Tight to Ceiling

Raise fixture into opening by holding suspension cable and guiding fixture into the opening until flush to ceiling. Be mindful not to release the retention spring from the pre-release position.



11 Pull Retention Spring String to Engage Retention Spring

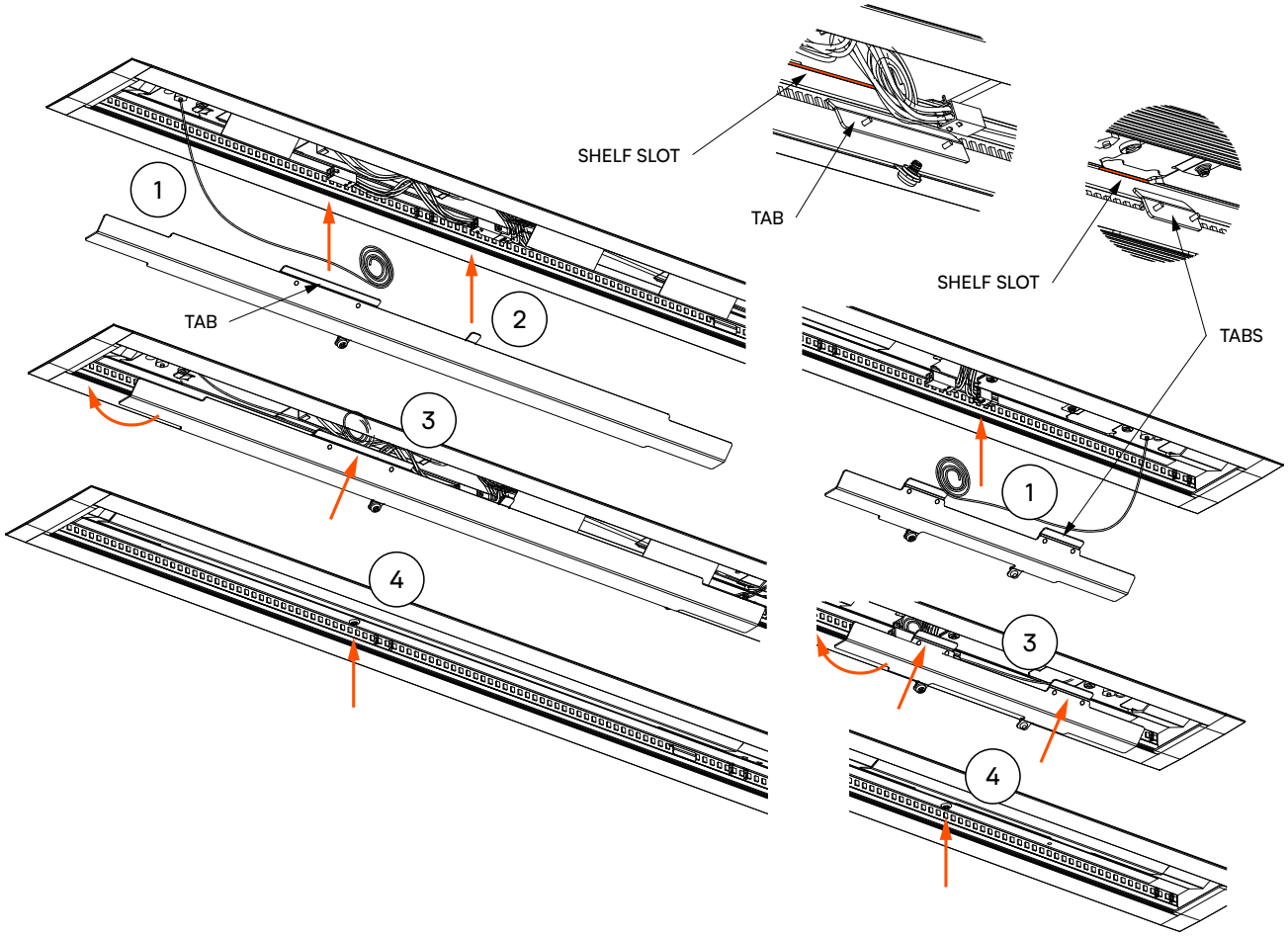
The retention spring will engage once the string is pulled to help suck the fixture into the opening and flush to the ceiling.



Exposed Flange Trim (CT)

12 Reinstall Access Cover Plates

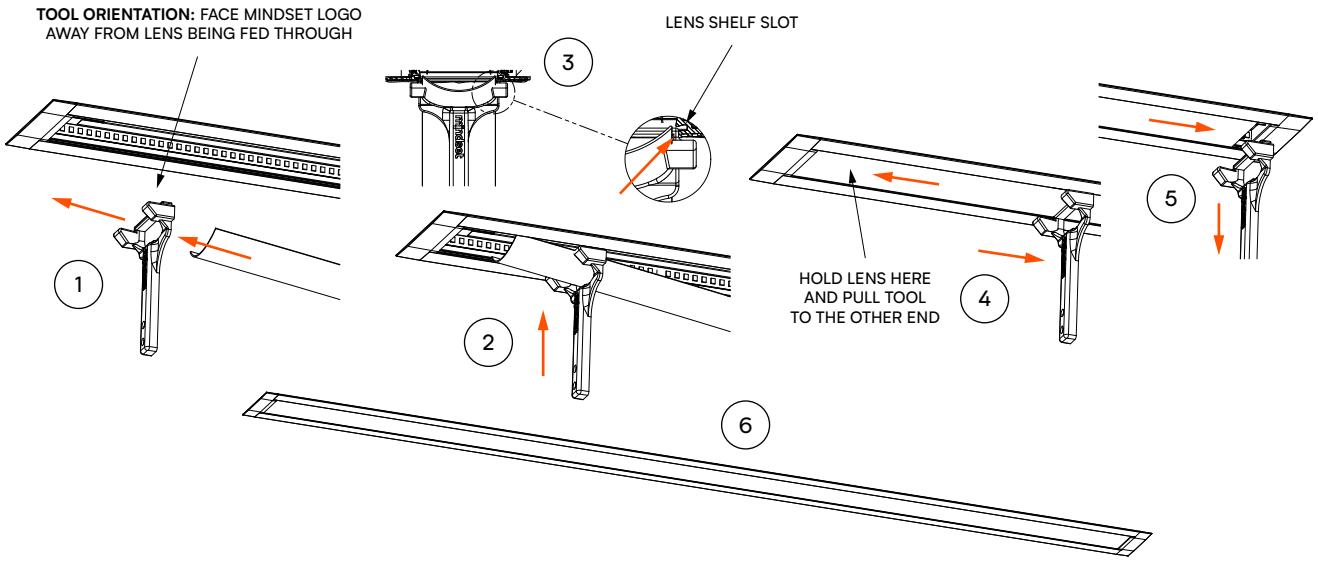
1. Coil and safely tuck excess suspension cables into the driver cavity and jumper box cavity.
2. Safely tuck wires into the driver cavity.
3. Reinstall cover plates, slot the none screw side with the tab(s) into the shelf slot and rotate up to flush.
4. Ensure all wires are safely tucked in before securing in place with the provided screw.



Exposed Flange Trim (CT)

13 Install Discrete Lens

1. Gather lens and lens installation tool. Next take one end of the lens and bend with your hands and feed through the install tool. **NOTE:** The orientation of the tool is important. See illustration below.
2. Allow for ~4 inches of the bent lens to pass through the tool to provide enough length for the lens to feed into the shelf.
3. Raise to fixture aperture and insert lens into lens shelf slots.
4. Hold the lens and push the lens tool into aperture and slide the tool along the trim face. The lens will feed into the shelf pocket.
5. Slide to the opposite end.
6. Once at the end slide the lens into the expansion pocket in the starter endcap, this will allow the tool to slide off the lens and be removed. Center lens to complete.



Exposed Flange Trim (CT)

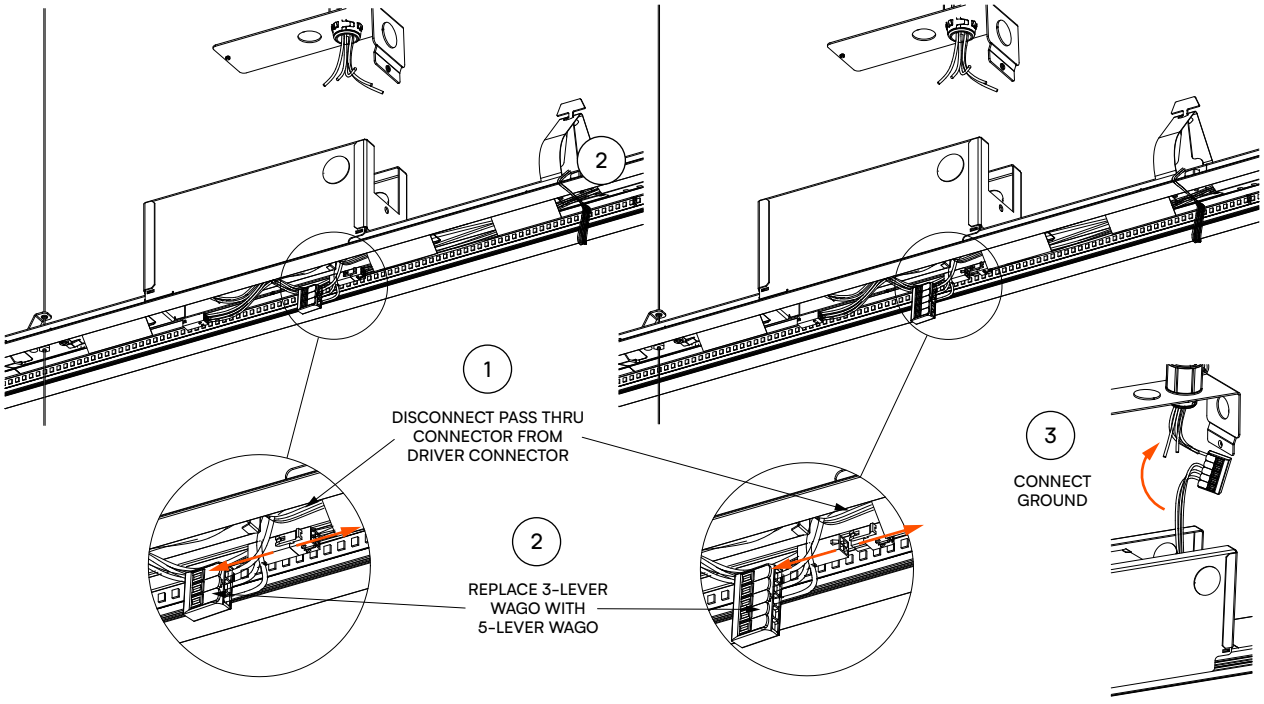
Installation Steps — Continuous Run

14 Starter Fixture for Continuous Run Installation

Repeat Steps 1 to 5 for discrete installation instructions. After completing Step 5, return to Step 15 to complete the power connections for the starter fixture.

15 Gather the Power Drop Kit and Make Ground Connection – Driver Box

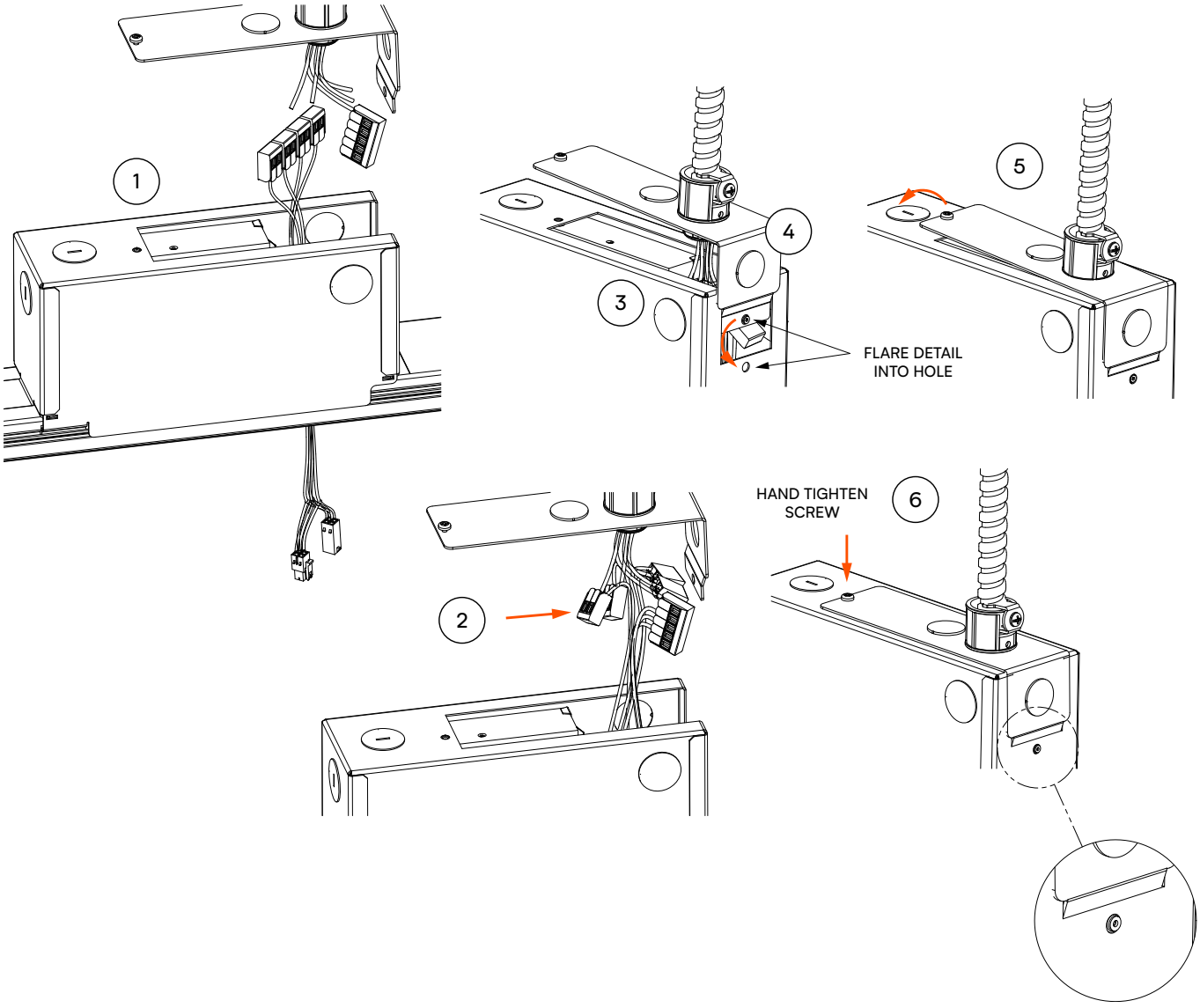
1. Disconnect the pass through connector from the driver connector harness
2. Replace 3-Lever WAGO connecting the ground wires with provided 5-Lever WAGO.
3. Pass ground wire WAGO up to supply ground to connect to supply ground first.



Exposed Flange Trim (CT)

16 Connect Power Drop Harness Driver Box

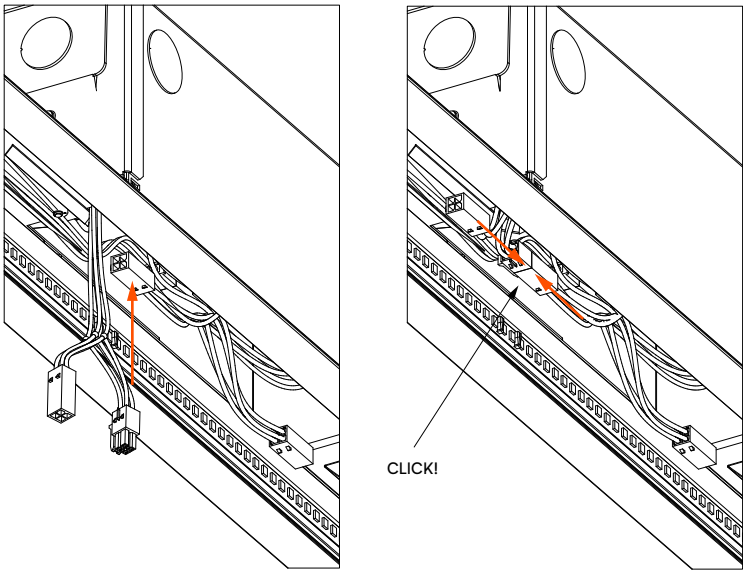
1. Pass the power drop harness through the driver box.
2. Connect the 2-Lever WAGOs to complete electrical connections to supply.
3. Safely feed the connected wires into the driver box and reinstall the WAC.
4. Install flare detail on WAC into hole on driver box.
5. Bring the WAC down to the box top.
6. Secure WAC with screw.



Exposed Flange Trim (CT)

17 Connect Power Drop to Fixture Connectors – Driver Box

Connect the power drop harness connector to the driver connector harness to complete the electrical connection.

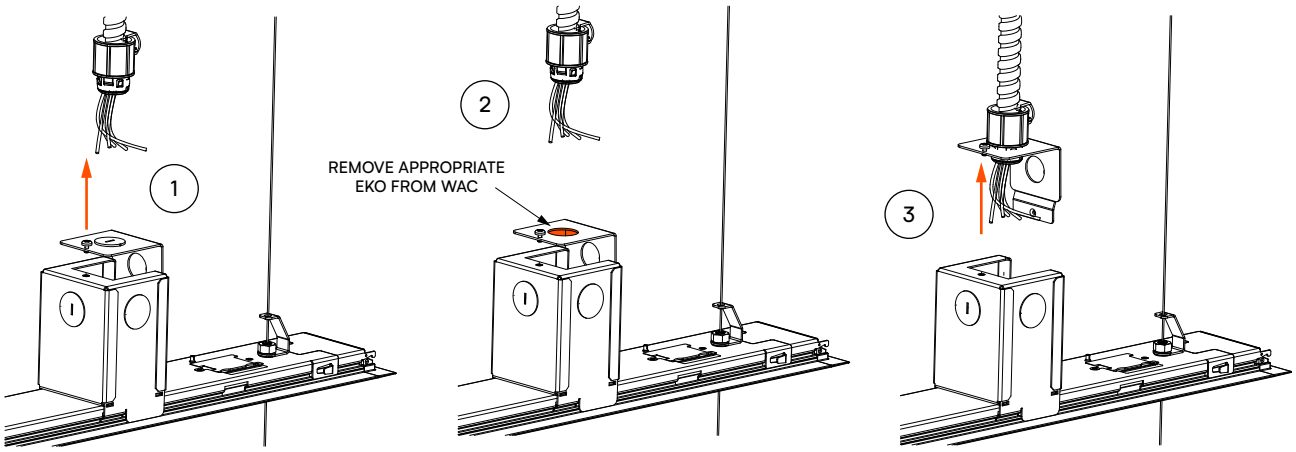


BEFORE CONNECTION AFTER CONNECTION

18 Prepare Power Connection – Jumper Box

Repeat Steps 1 to 5 for discrete installation instructions.

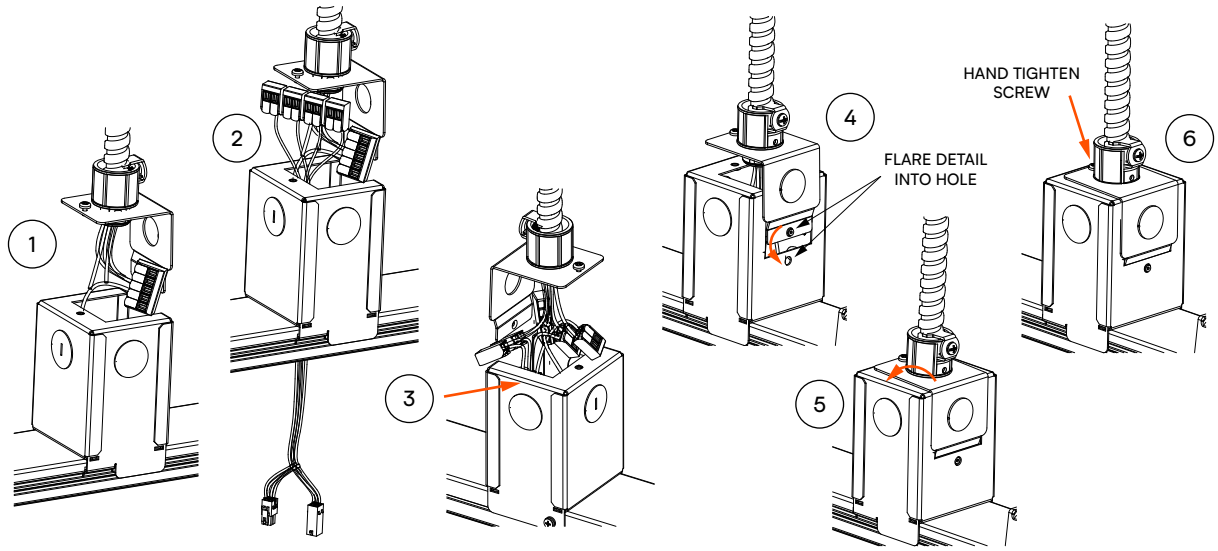
1. Loosen the captive screw from the jumper box to remove WAC from the jumper box.
2. Remove EKO.
3. Install WAC onto an armored cable (quick connect shown for reference).



Exposed Flange Trim (CT)

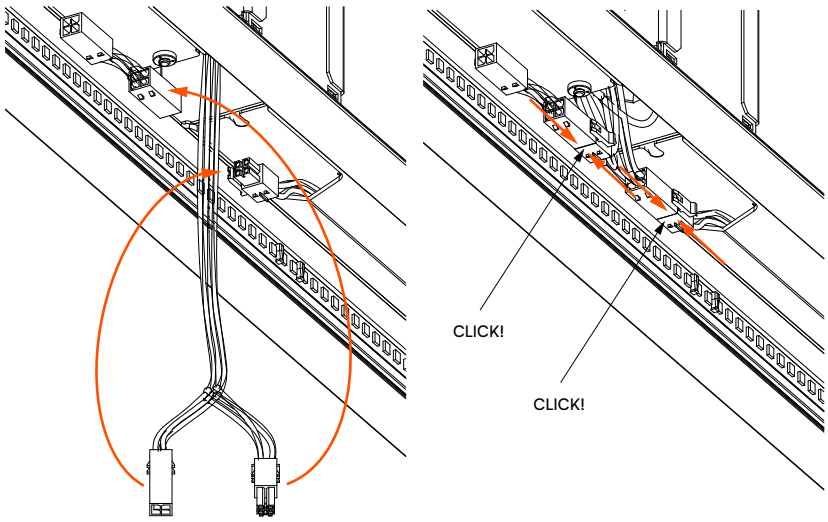
19 Gather the Power Drop Kit and Make Electrical Connection – Jumper Box

1. Connect ground wire to supply ground and connect with provided 5-Lever WAGO from the power kit.
2. Feed power drop harness through jumper box.
3. Secure the supply leads to the 2-Lever WAGOs to the power drop connections.
4. Reinstall jumper WAC, inserting flare detail into hole.
5. Lower WAC to jumper box.
6. Fasten with screw.



20 Make Power Connections + Prepare Next Mount Location

Connect the power drop connectors between the pass thru connector and jumper box connector harness. Refer to Step 10 under ceiling preparation section to determine the next mounting bracket and suspension cable location.



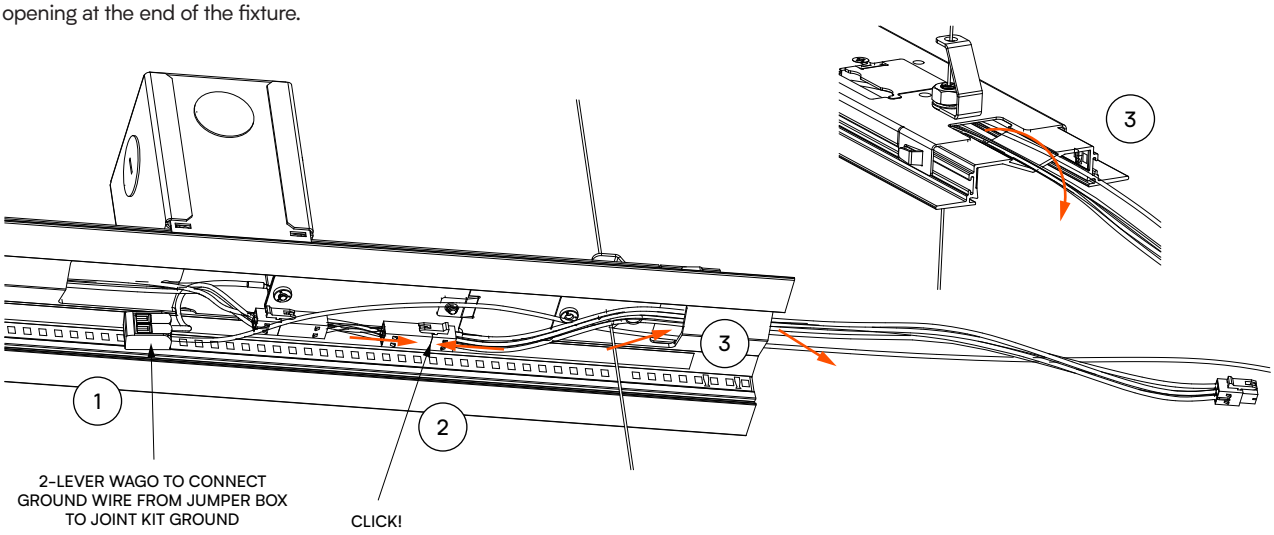
BEFORE CONNECTION

AFTER CONNECTION

Exposed Flange Trim (CT)

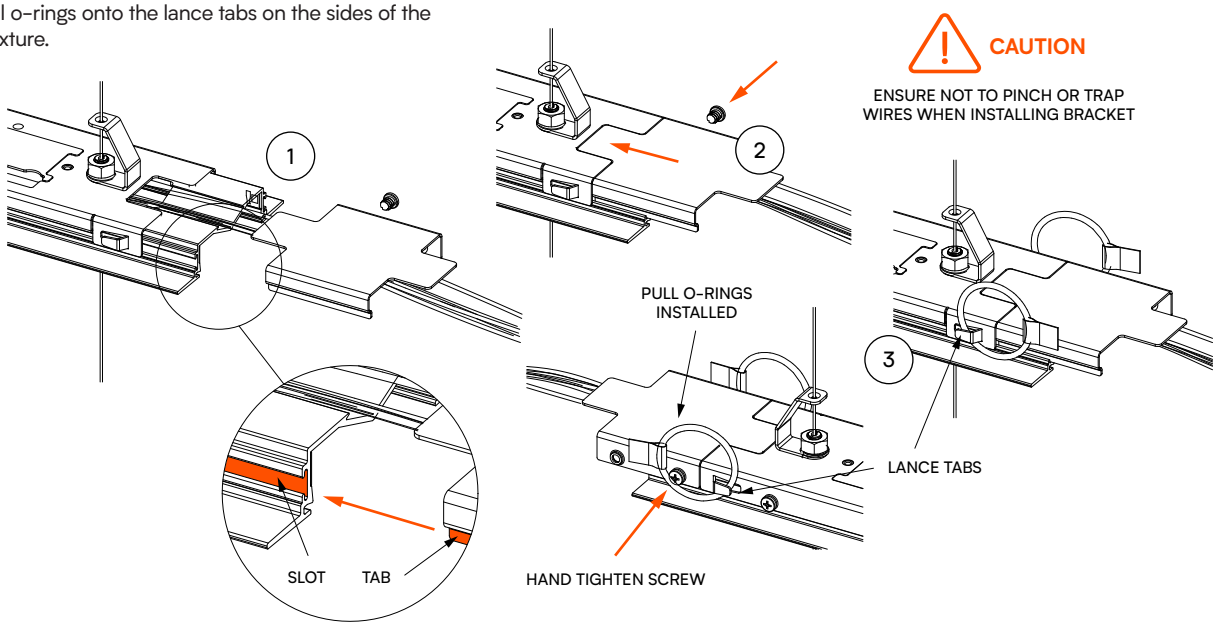
21 Prepare Suspended Fixture for Joining

1. Gather the joiner kit, first install the ground wire to the ground wire in the jumper box with the 2-Lever WAGO.
2. Connect jumper harness connector to jumper box harness connector.
3. Feed ground wire and joiner harness connector up and through the opening at the end of the fixture.



22 Install Joiner Bracket to Suspended Fixture

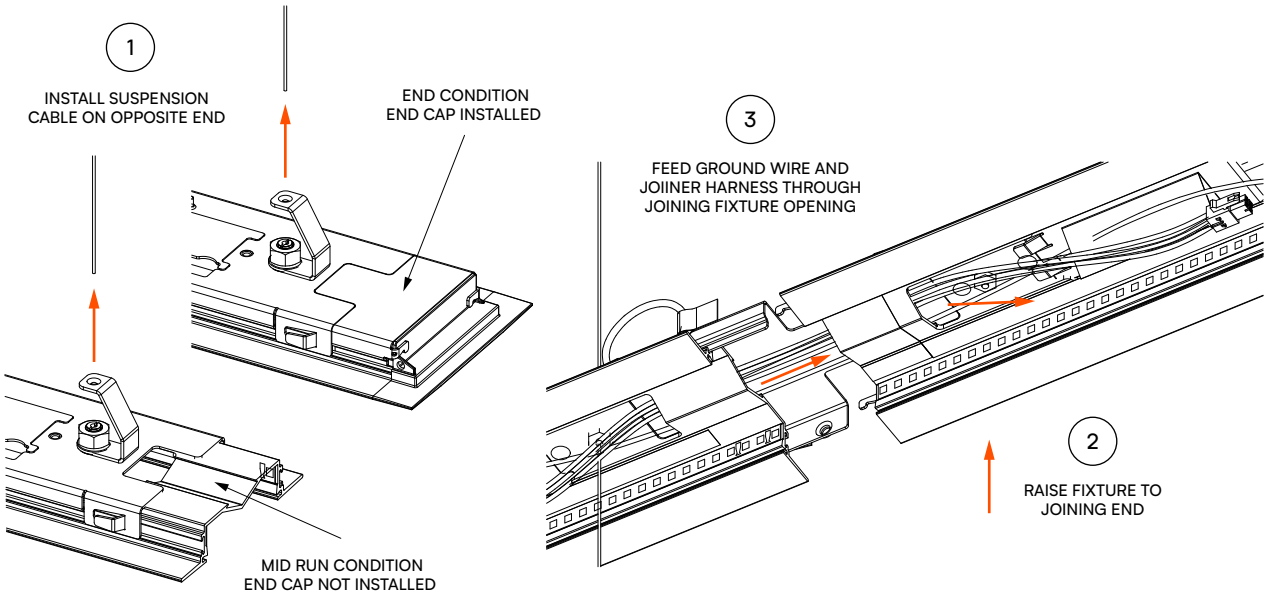
1. Install joiner bracket, guide the tab on the bracket into the slot on extrusion profile on one side.
2. Secure with provided screw on other side of suspended fixture.
3. Install the pull o-rings onto the lance tabs on the sides of the suspended fixture.



Exposed Flange Trim (CT)

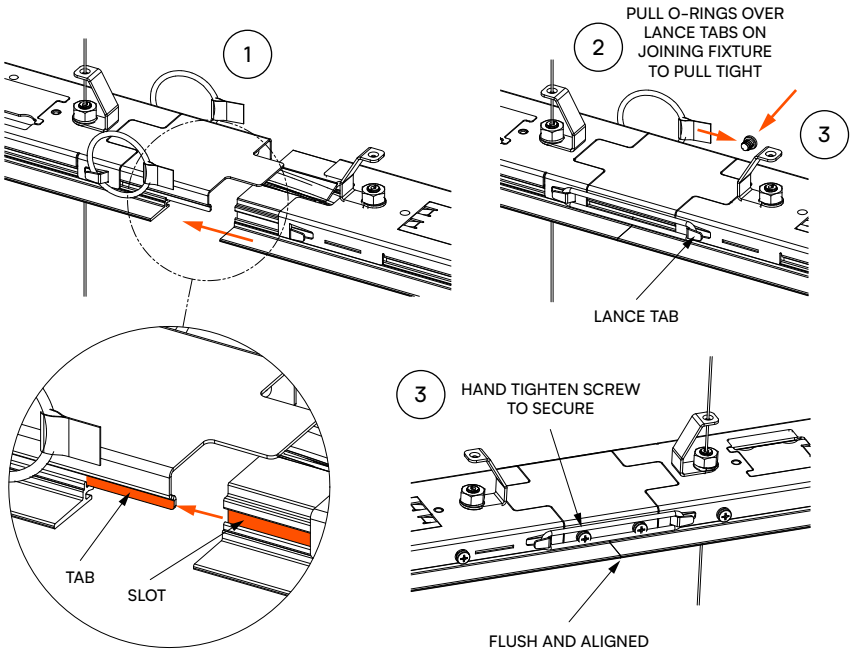
23 Prepare and Raise Joining Fixture (Mid Run or End Run)

1. Repeat Steps 1 to 4 to prepare the next joining fixture.
2. Raise the fixture to the next suspension cable on the opposing end to free up both hands.
3. At the joining connection end, feed ground wire and jumper harness through the opening on the joining fixture.



24 Join Fixtures with Joining Bracket

1. Guide the joiner bracket into the joining fixture and gently push fixtures together.
2. Pull the o-rings to the lance tabs on the joining fixture tabs to pull the joint tight together.
3. Align fixtures and secure with the provided screw to the joining fixture. (repeat Steps 22 to 25 if adding additional fixtures in the run).

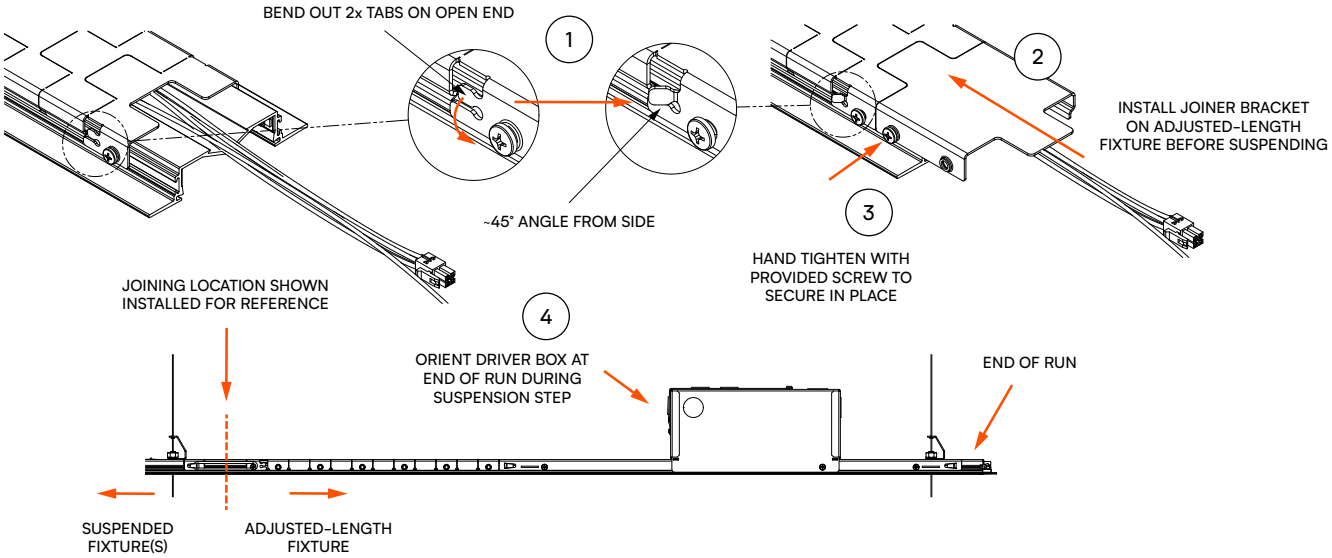


Exposed Flange Trim (CT)

25 Adjusted-Length Fixture Joining

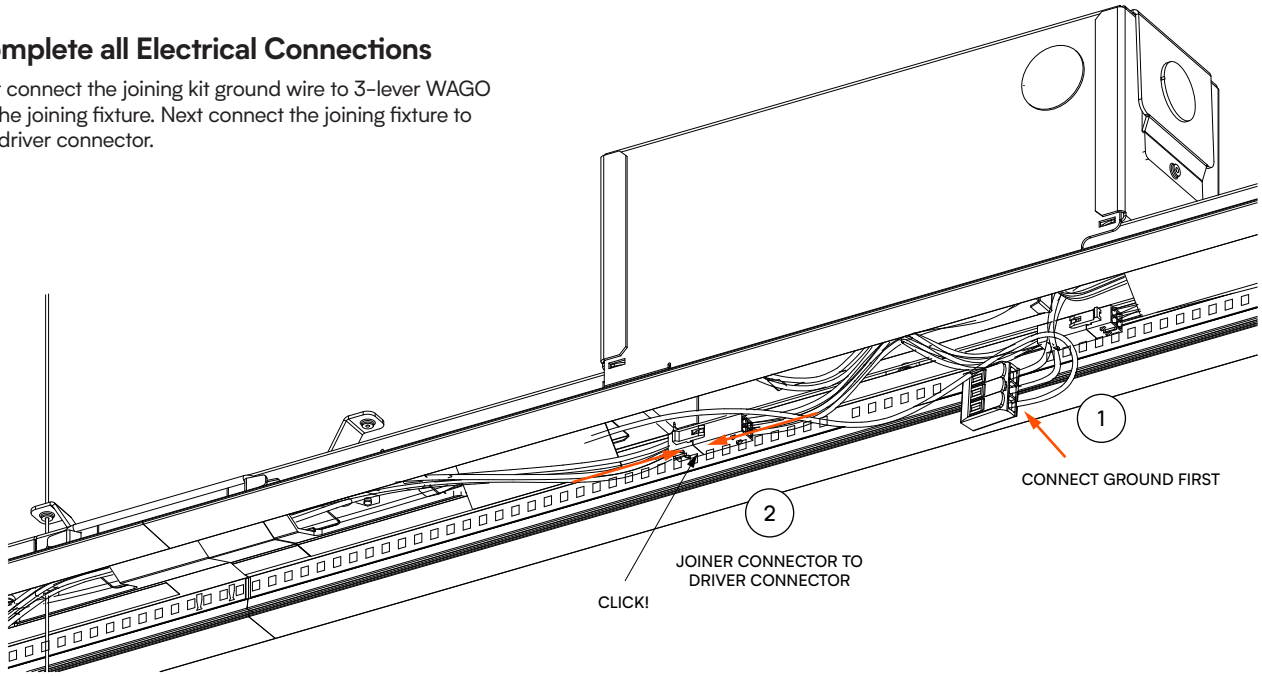
Fixture lengths between 2-3 ft are factory-adjusted to specified lengths in 1" increments. For these adjusted fixture segments, the tabs on the end to join the o-rings must be bent out at an approximate 45 degree angle to allow for the o-ring to be installed on it. Note ground wire and connector harness will be installed on adjusted-length fixtures. Refer to Steps 22 + 23 as reference to connect to the suspended fixture.

IMPORTANT: The joiner bracket is installed onto the adjusted-length fixture not to the suspended fixture and then connected to the suspended fixture. Suspend the adjusted-length fixture with the driver box end oriented at the end of the run. Refer to layout drawings for suspension cable mount location.



26 Complete all Electrical Connections

First connect the joining kit ground wire to 3-lever WAGO on the joining fixture. Next connect the joining fixture to the driver connector.



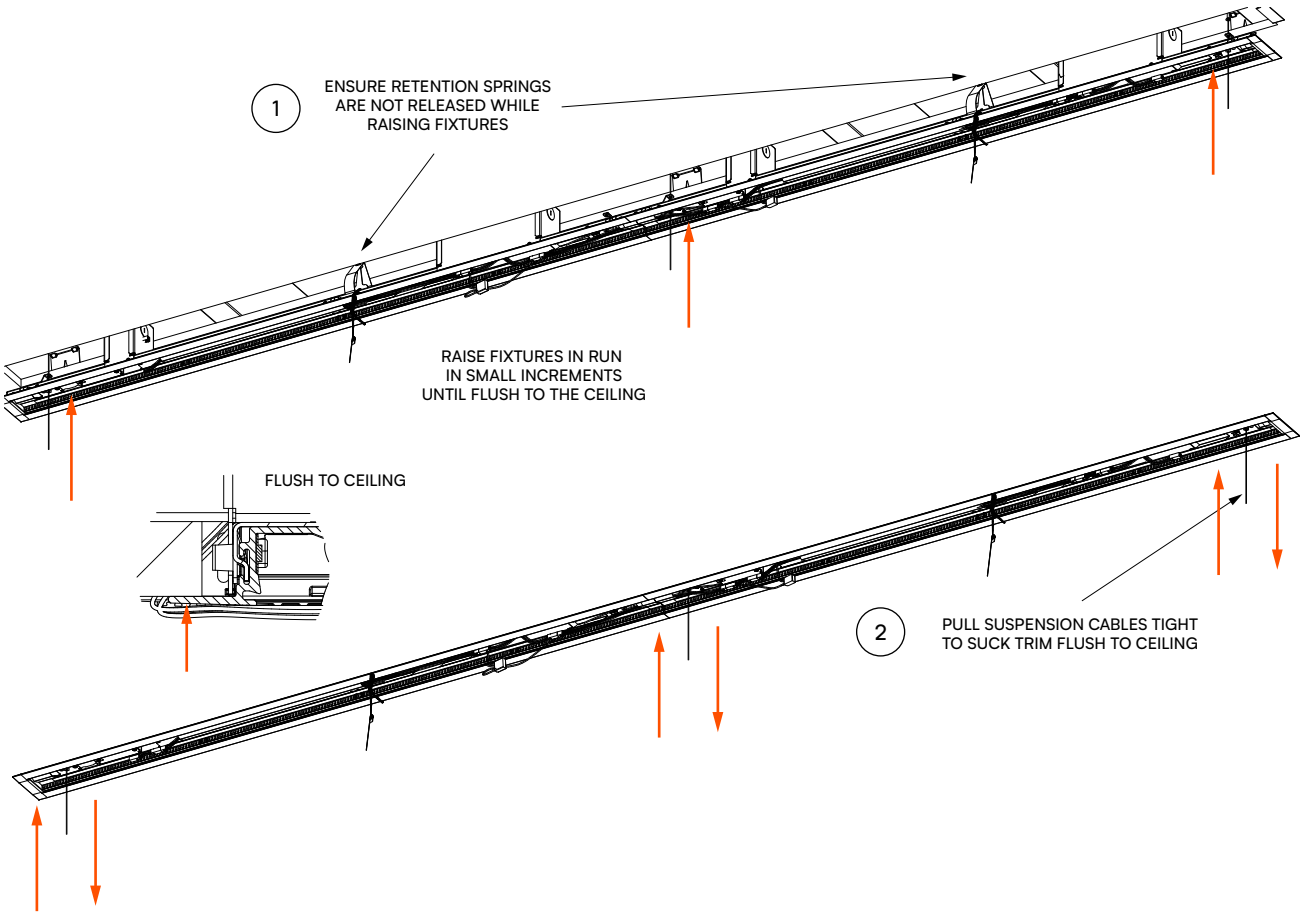
Exposed Flange Trim (CT)

27 Prepare Fixtures to Raise to Opening

Refer to Step 9 in Discrete instruction steps (page 11) to prepare the retention springs on each fixture before raising into the opening.

28 Raise Joined Fixtures into the Opening Until Flush

Carefully raise the run slowly in small increments to maintain the straightness of the run as it is raised into the opening until flush.
Pull suspension cables taut to ensure the run is flush to the ceiling.
Be mindful not to activate the retention spring clips while raising the run.



Exposed Flange Trim (CT)

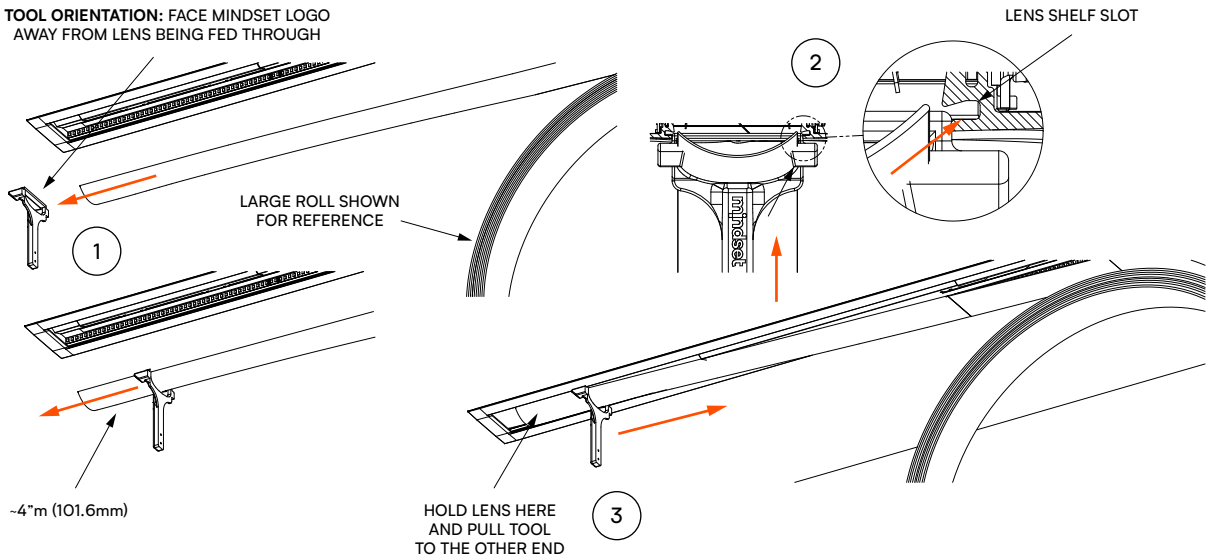
29 Reinstall Continuous Lens

See Step 12 in Discrete instructions (Page 13) to reinstall the access cover plates on all the fixtures.

30 Install Continuous Lens

Gather lens roll and lens installation tool.

1. Insert non-dominant arm through lens roll and rest roll on shoulder.
2. Next take one end of the start of the lens roll. Note: the orientation of the tool is important see image. Bend with your hand and feed through the install tool. Allow for ~4 inches of the folded lens to pass through the tool to provide enough length for the lens to feed into the shelf. Raise to fixture aperture and insert lens into lens shelf slots.
3. Hold the lens and push the lens tool into aperture and slide the tool along the trim face. The lens will feed into the shelf pocket. Slide to the opposite end, stop ~1ft before you reach the end.



Exposed Flange Trim (CT)

31 Complete Lens Install

At ~1ft from the end of the run, be sure to leave the lens tool installed.

1. Slide the lens towards the starter end until it stops.
2. Push lens flush to the endcap shelf edge. The edge can be seen through the lens.
3. Sketch a line on the lens.
4. Next pull the lens past the tool out ~ 8 to 10 inches Next pull the lens out ~ 8 to 10 inches past the end of the fixture. Obtain a piece of rigid material (e.g. scrap corrugated fiberboard) and place the board behind the lens.
5. While pressing the lens against the rigid material, use a utility knife to score along the line to create a snap line.
6. Remove the board and fold the lens over itself to snap the lens along the scored line.
7. Push lens back to starter end until it stops. Finish installing the lens with the tool until the end and slide tool out.
8. Center lens in aperture and finished.