Mud-In/Trimless (CM)

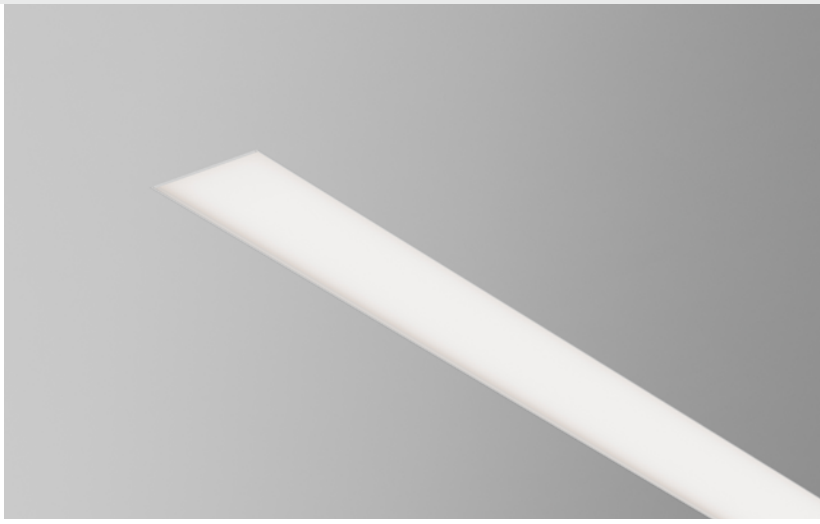
This installation guide details the steps for installing Interspace Mud-In/Trimless (CM) for both discrete and continuous run applications.

The components required for a run include:

Fixture Module(s), Driver Box, Jumper Box, Mount Brackets, Joiner Bracket, and End Cap Kit

Key Installation Features

- No advanced site framing or coordination required.
- Simple and variable positioning avoids structural and mechanical obstructions.
- Factory assembled modules eliminate on-site assembly, LED installation, wiring and soldering with an integrated wiring harness.
- Bring line voltage power to any driver or jumper location.



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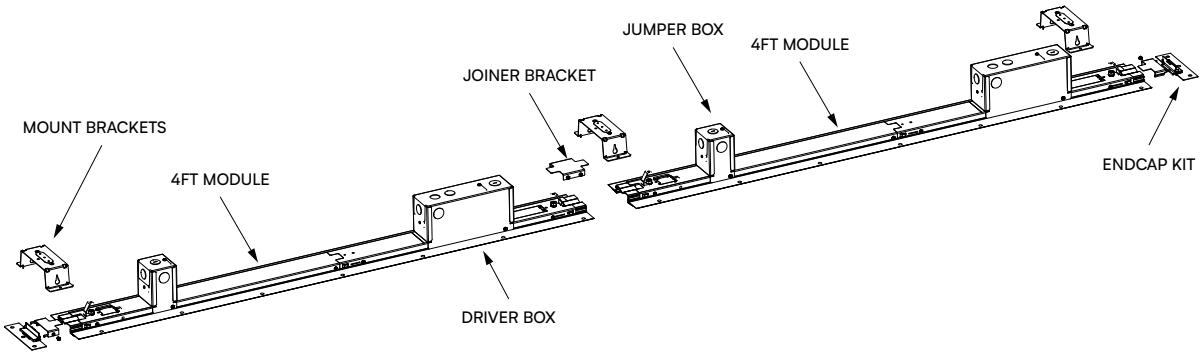
Mud-In/Trimless (CM)

System Overview

Two 4ft Fixtures - Continuous Run

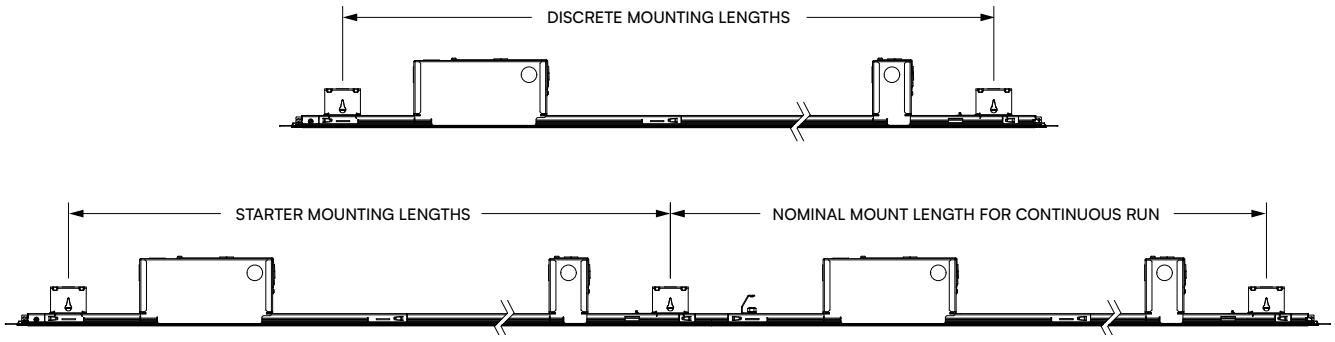


Discrete + Starter + Continuous Run Mounting Lengths

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.



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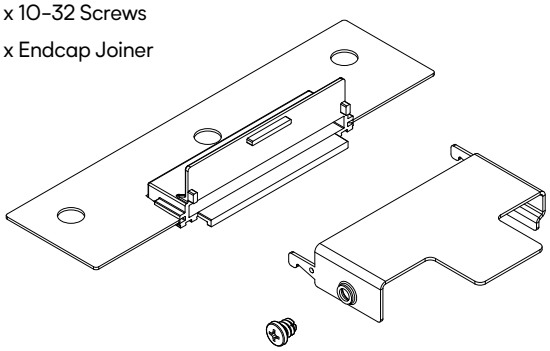
Mud-In/Trimless (CM)

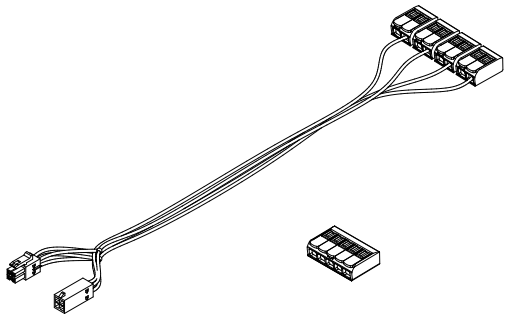
Endcap Kit

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



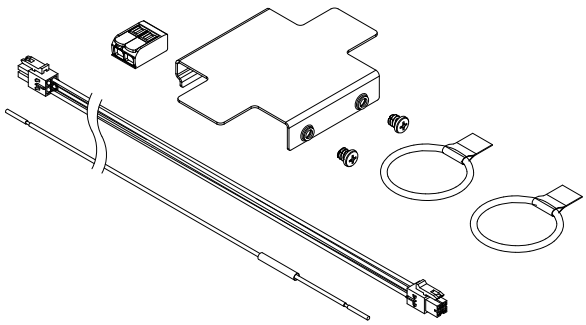
Power Drop Kit

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



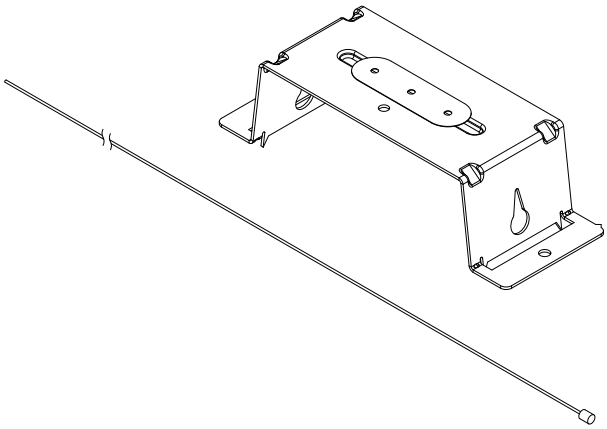
Joining Kit

- 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



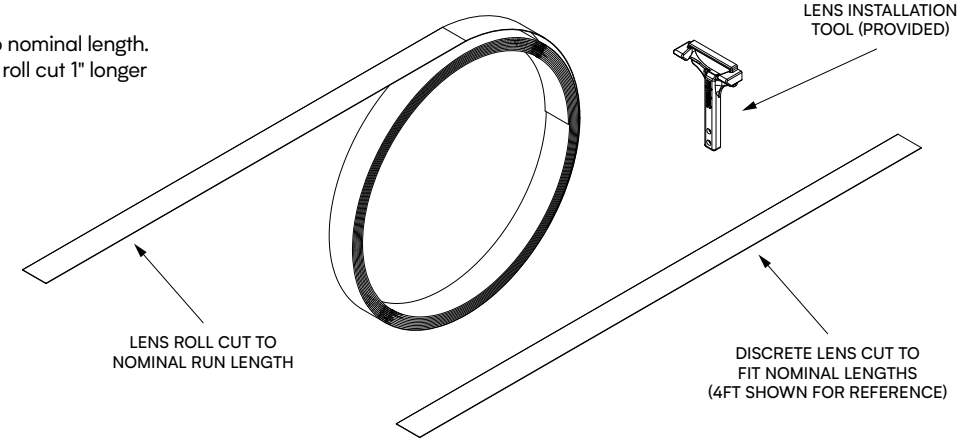
Mounting Kit

- 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.



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Information

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
- Mud Trowel

Materials:

- #6 Bugle head drywall screws (by others)
- Drywall Tape (by others
- Mud Plaster (by others)
- 2" and/or 3" sheet metal screws (by others for securing to stud)
- Hanger Wire (by others)

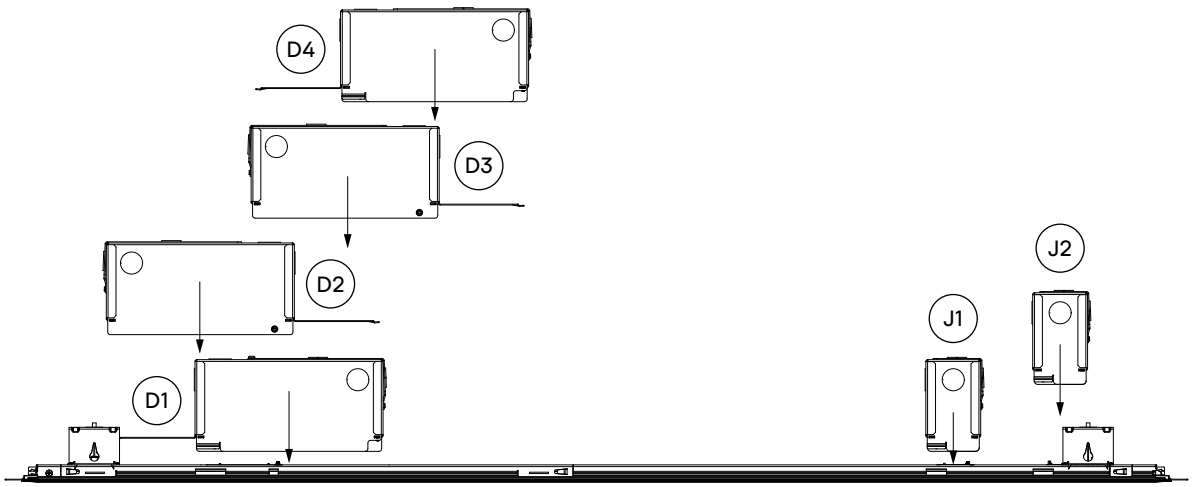
Safety Warnings

- **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) though can be adjusted as needed - Refer to Additional Steps section at end of install instructions for adjustments steps.



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Mud-In/Trimless (CM)

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 cutout openings.

2 Prepare Ceiling

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

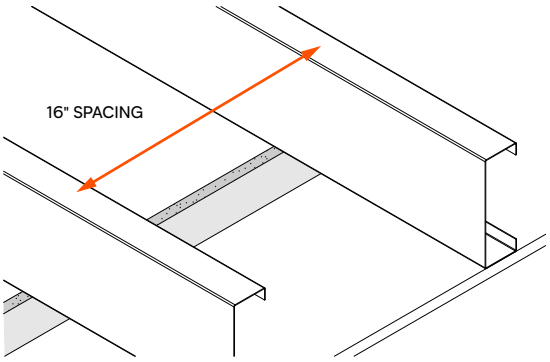
The driver or jumper boxes can be adjusted accordingly if required prior to power installation and fixture installation steps.

OPTION A: Perpendicular studs to cutout length

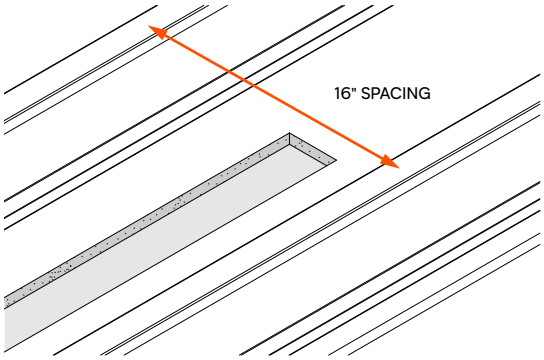
OPTION B: Parallel studs to cutout length

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

OPTION A: Perpendicular Stud

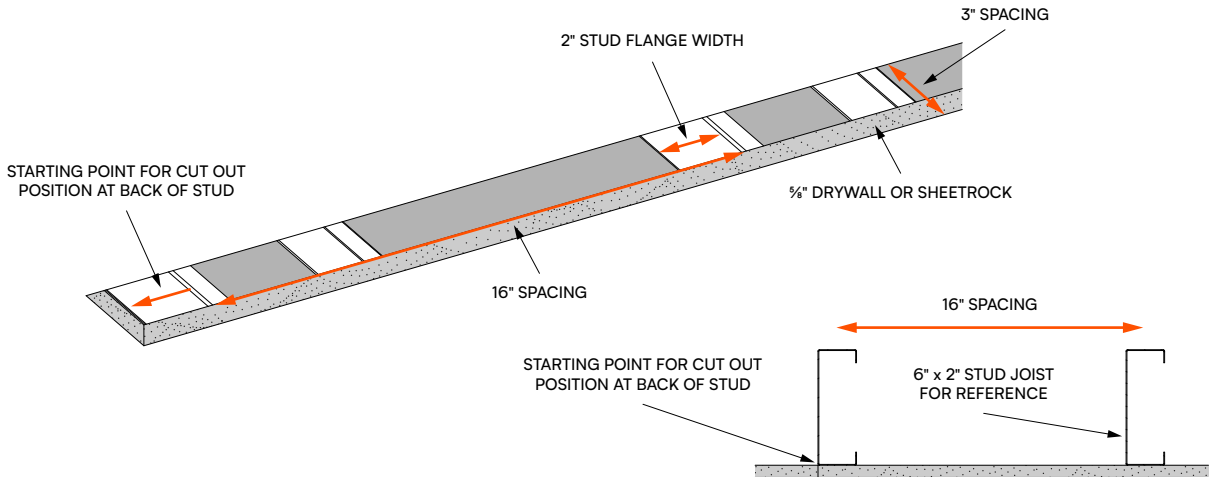


OPTION B: Parallel Stud



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

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



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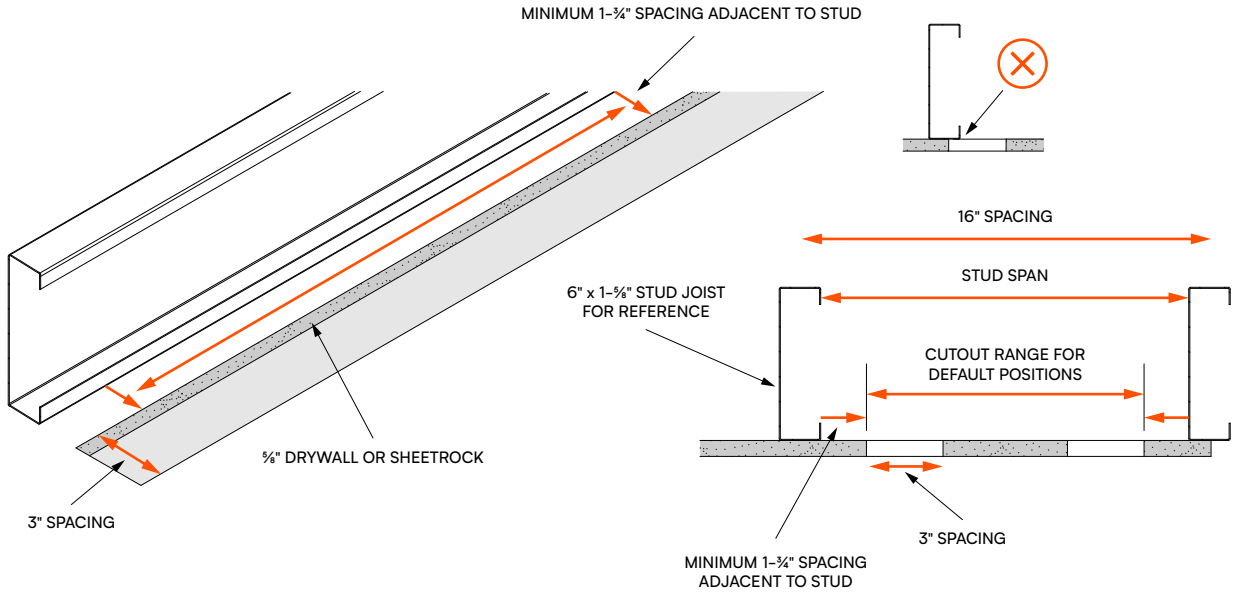
5 Prepare Ceiling Option: B — Predetermine Starting Point(s)

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

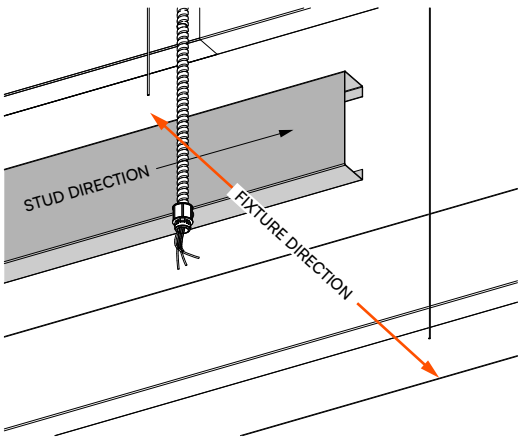
IMPORTANT: The cutout can not fall under a stud in parallel application.



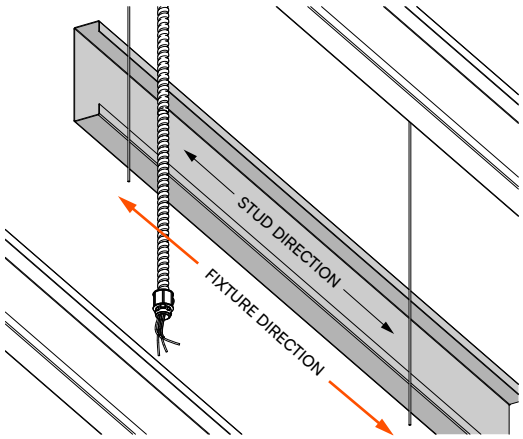
6 Install Power Drops + (Optional Hanger Wires)

Once starting locations are determined, install power drops at locations as power layout drawings. Allow the power drop to fall 12" to 16" 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



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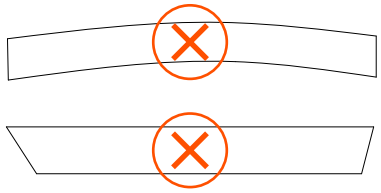
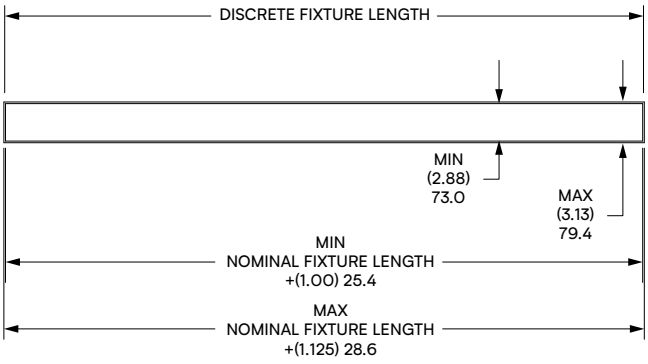
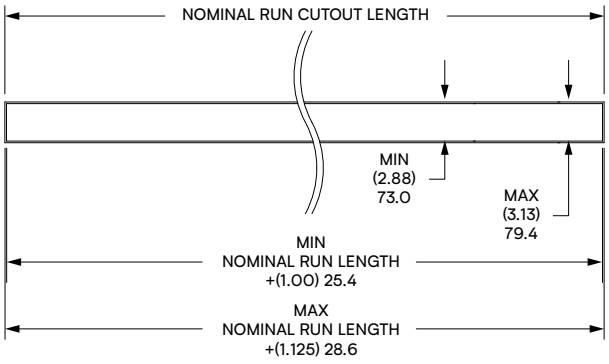
7 Install GWB + Cutout Openings as per Layout Drawings and Predetermined Planning

- Recommend using appropriate tools to outline specific ceiling cutout 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 Interspace lighting fixtures.
- For patterns refer to layout drawings for cut lengths.



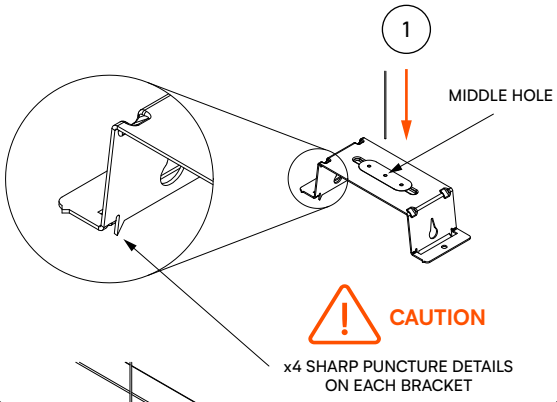


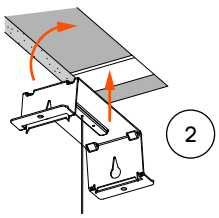


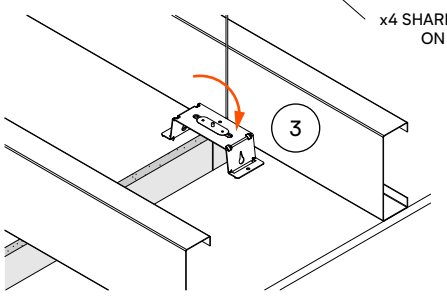
8 Install Mounting Brackets Options: A + B

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

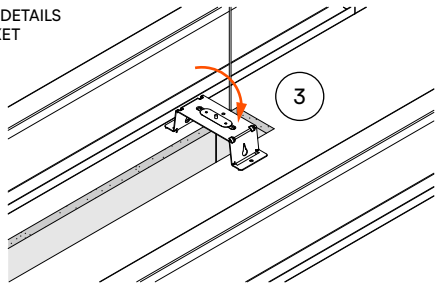
1. Feed suspension cable through hole on mounting bracket (middle hole is default position).
2. Raise up and rotate to pass through the opening.
3. Rotate back perpendicular to opening and push down to puncture the surface of the GWB.







OPTION A: Perpendicular Stud



OPTION B: Parallel Stud

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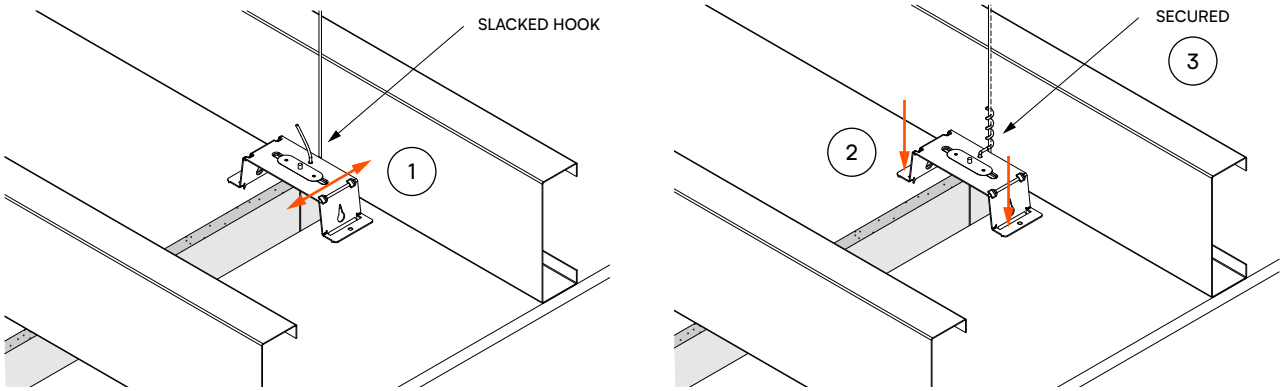
9 Secure Hanger Wire to Bracket (Optional)

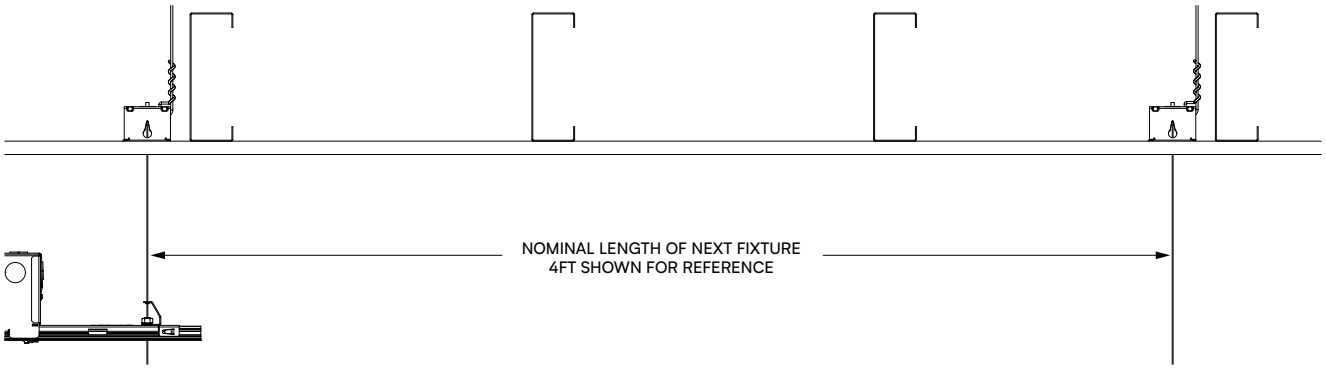
1. When securing hanger wire, leave a slacked hook to allow adjustment of bracket during locating bracket to final position.
2. Finalize adjustments and seat.
3. Secure hanger wire. Option A (Perpendicular Stud) shown for reference.



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 for Completion of Fixture Installation

The following conditions may arise during installation and require adjustments and modifications. These additional steps are provided to assist with ceiling preparation and the final installation of the fixture(s). Additional steps can be found on page 26.

- **Driver and Jumper Box:** Adjust to avoid studs or obstacles in the cutout path.
- **Mounting Brackets:** Modify if the cutout edge is flush with a parallel stud.
- **Suspension Cable Gripper Adjust + Move + Remove:** Adjust, move, or remove if studs are located under or near the components.
- **Lens Removal:** Removal may be required for troubleshooting.

Contact the factory for assistance if you have any questions.

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Installation Steps — Discrete

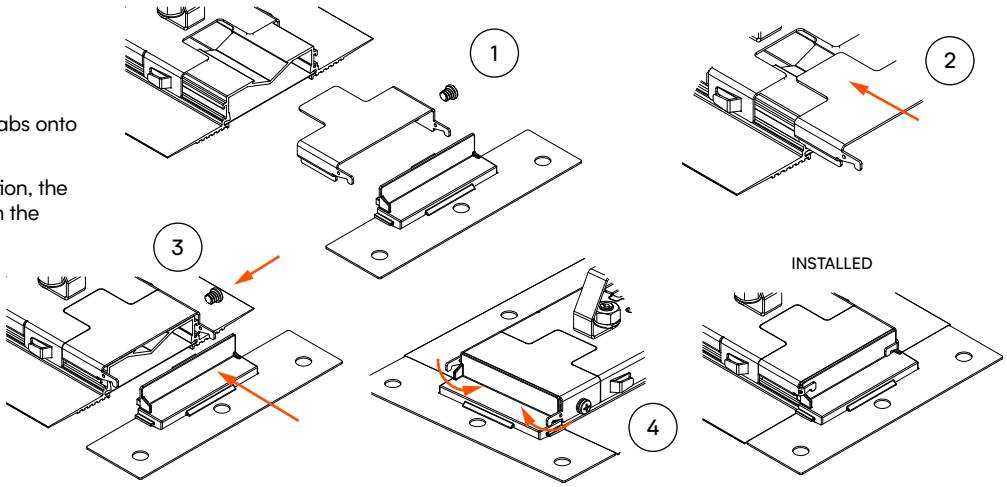
1 Place Boxes

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.

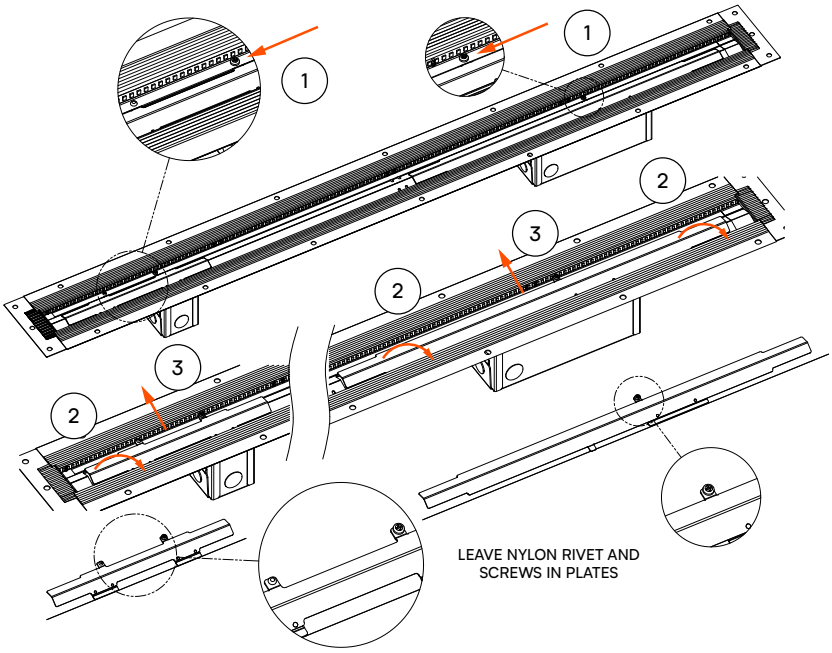


3 Driver Box Access Plate + Jumper Box Access Plate Removal

NOTE: Turn the fixture over so the optical cavity faces up. Slide mud guards within the lens shelf over each other to gain access to the cover plates.

1. Use #2 phillips screwdriver to loosen 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.



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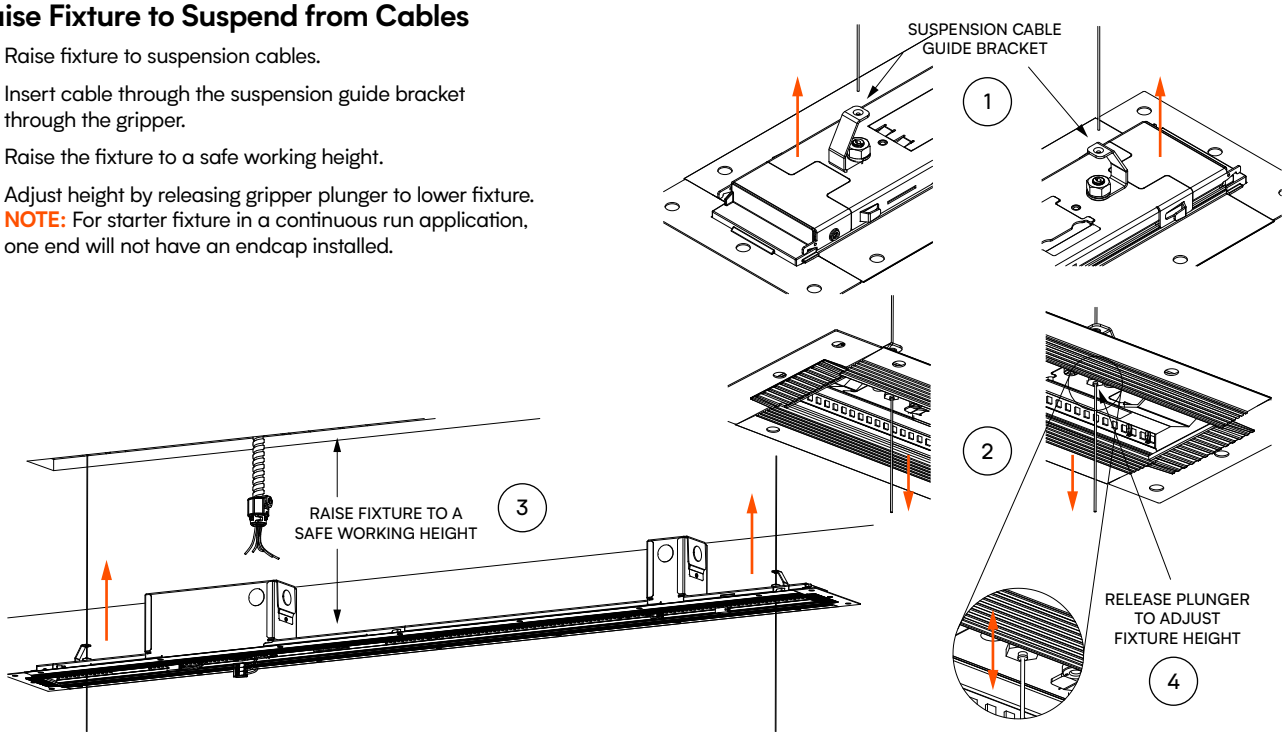
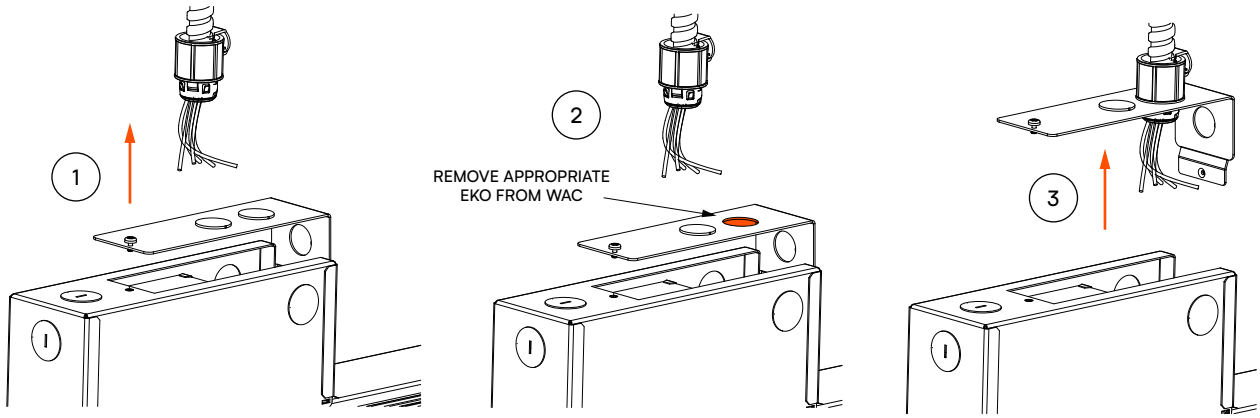
4 Raise Fixture to Suspend from Cables

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).*



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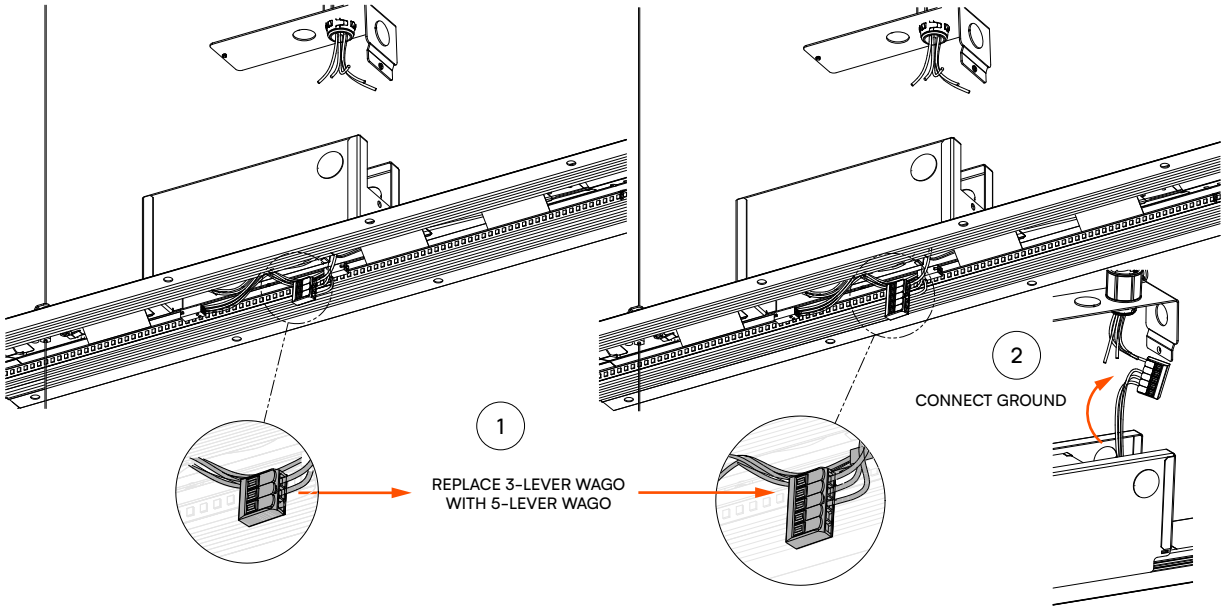
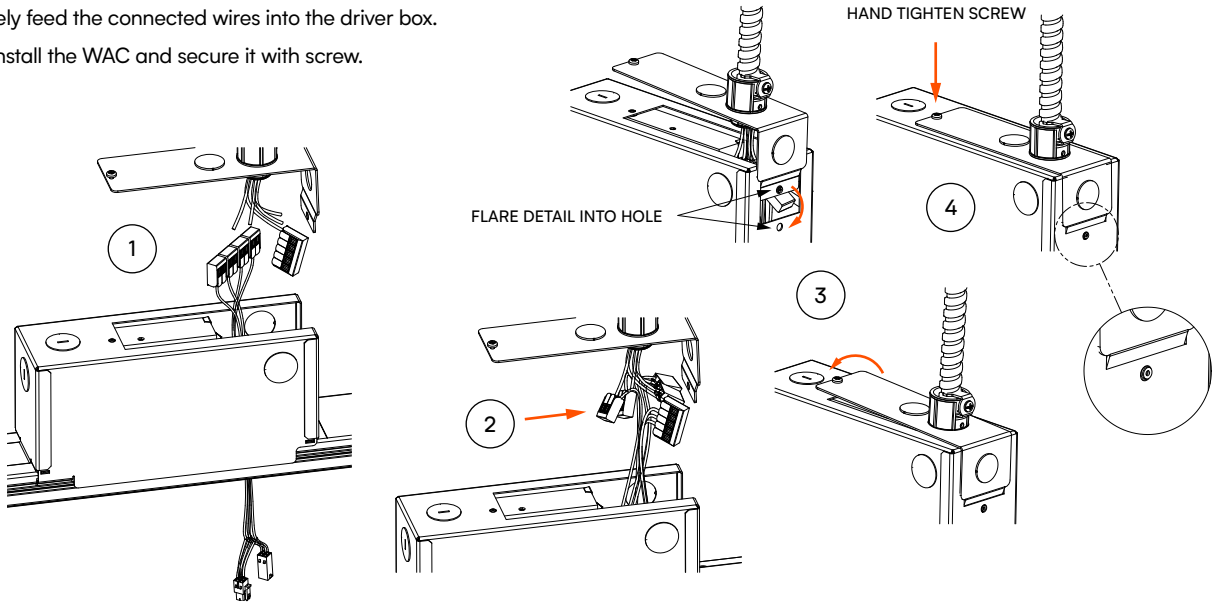
6 Gather the Power Drop Kit and Make Ground Connection – Driver Box

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.



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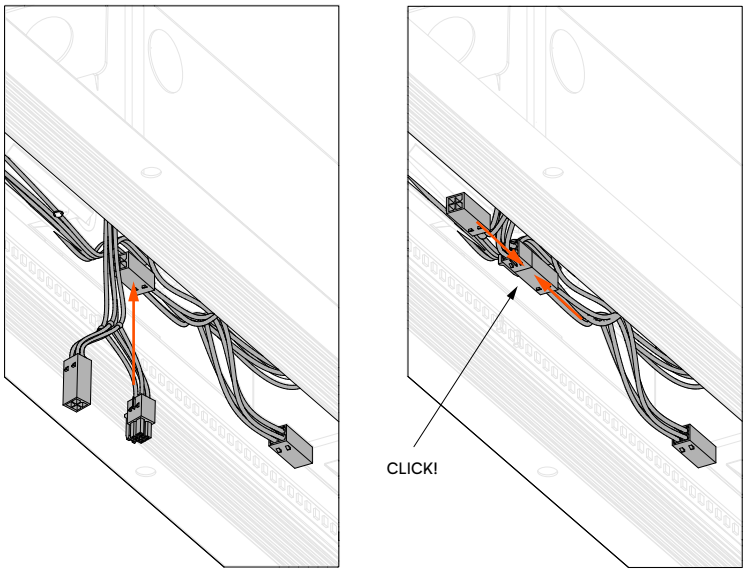
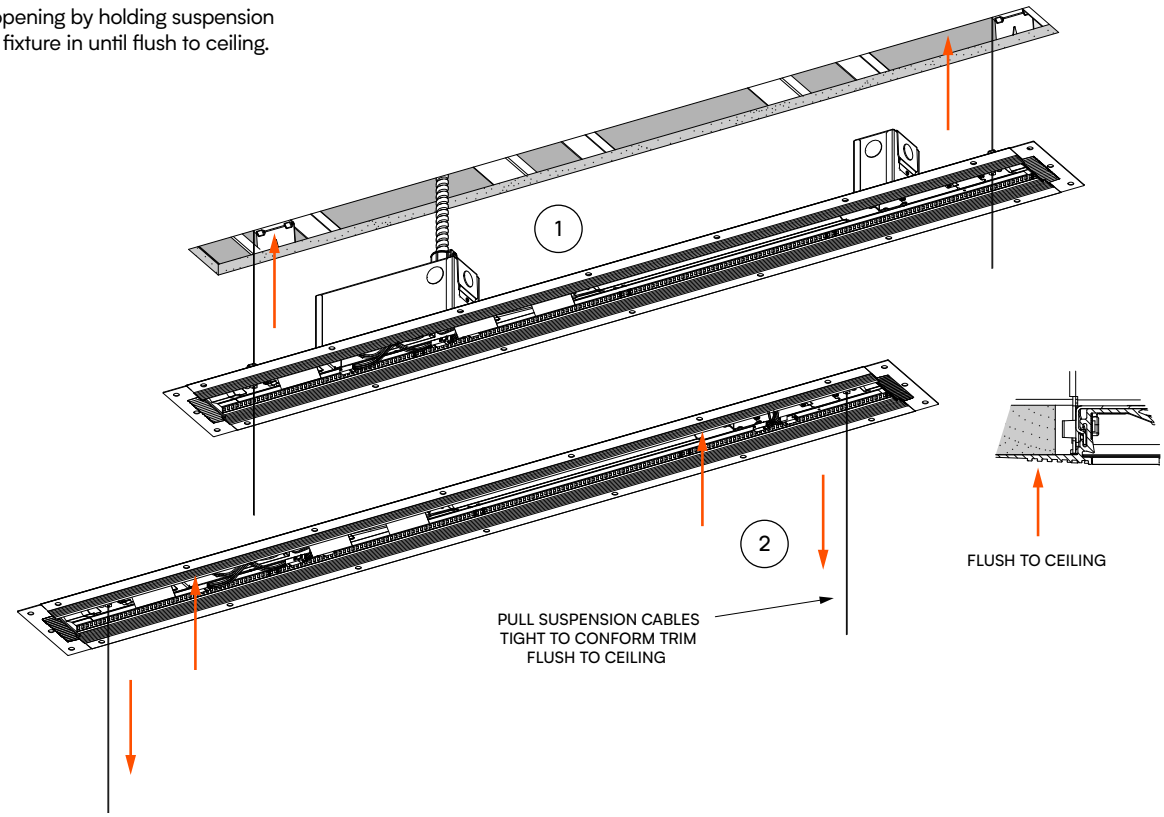
8 Connect Power Drop to Fixture Connector – Driver Box

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



9 Raise Fixture Until Flush and Tight to Ceiling

Raise fixture into opening by holding suspension cable and guiding fixture in until flush to ceiling.



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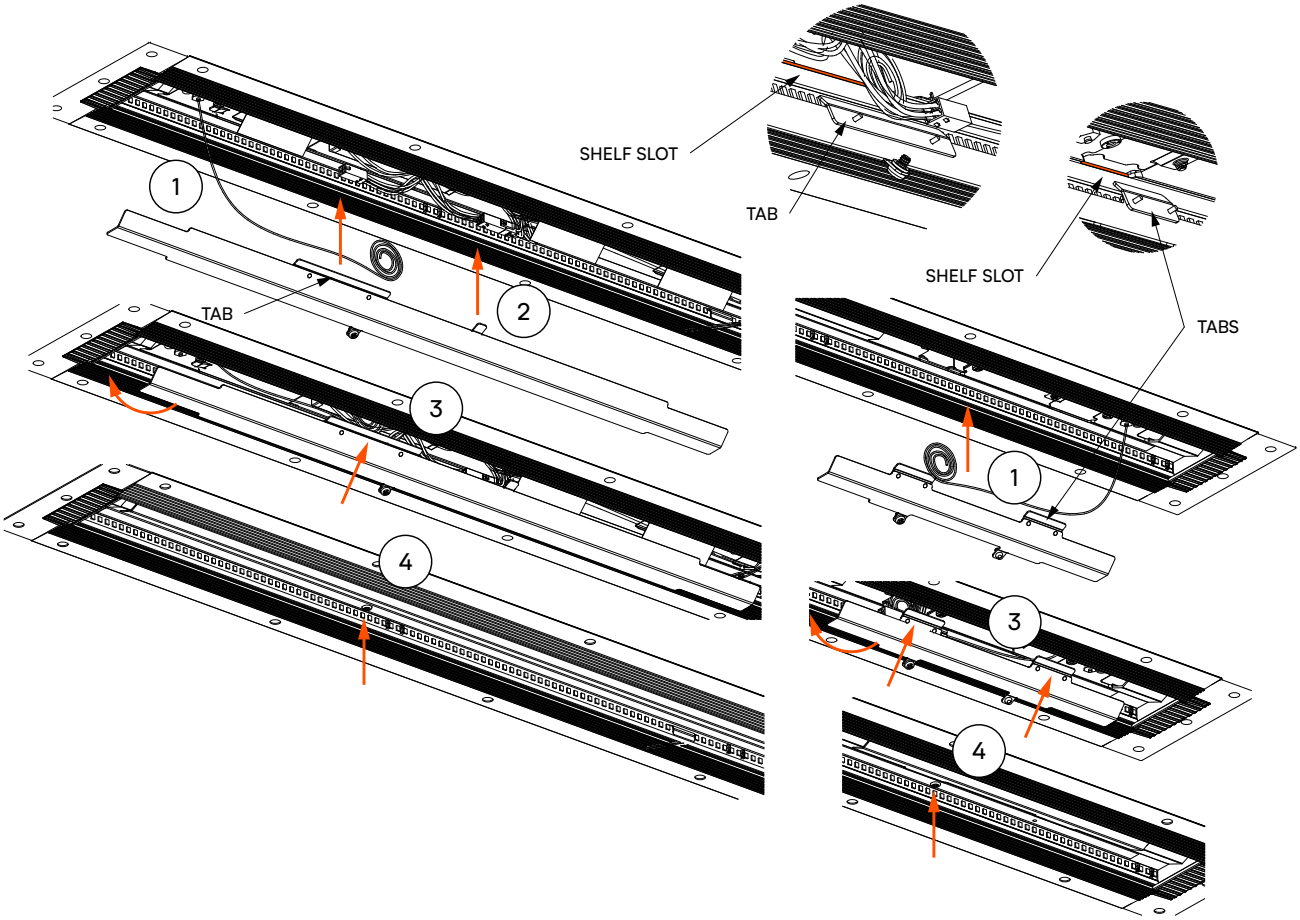
10 Reinstall Access Cover Plates

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.



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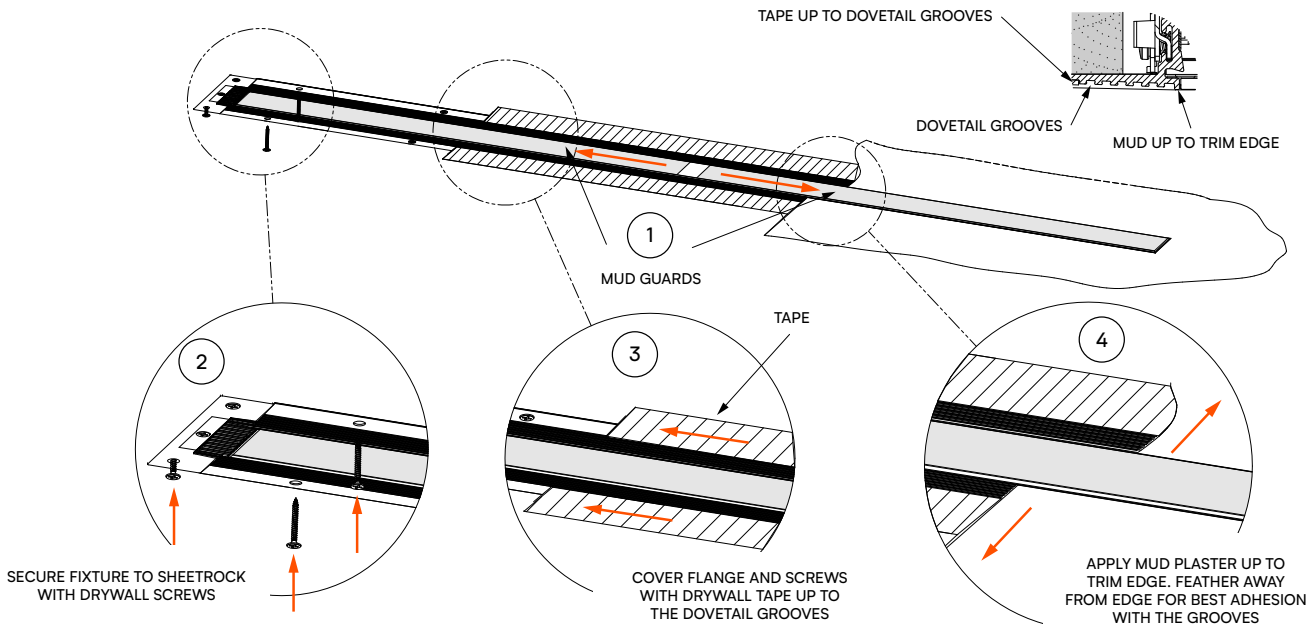
11 Secure Fixture with Drywall Screws + Apply Drywall Tape + Apply Plaster

1. Slide the mud guards back into position before securing the fixture with #6 Bugle head drywall screws (by others).
2. Secure fixture to drywall with sheetrock with drywall screws in holes along trim and on end cap flanges.
3. Apply drywall tape to cover the screws up to the rib detail on the flanges.
4. Apply mud plaster up to trim edge and feather away from the edge for best adhesion of the mud plaster in the grooves. Complete all ceiling finish work before installing the lens.



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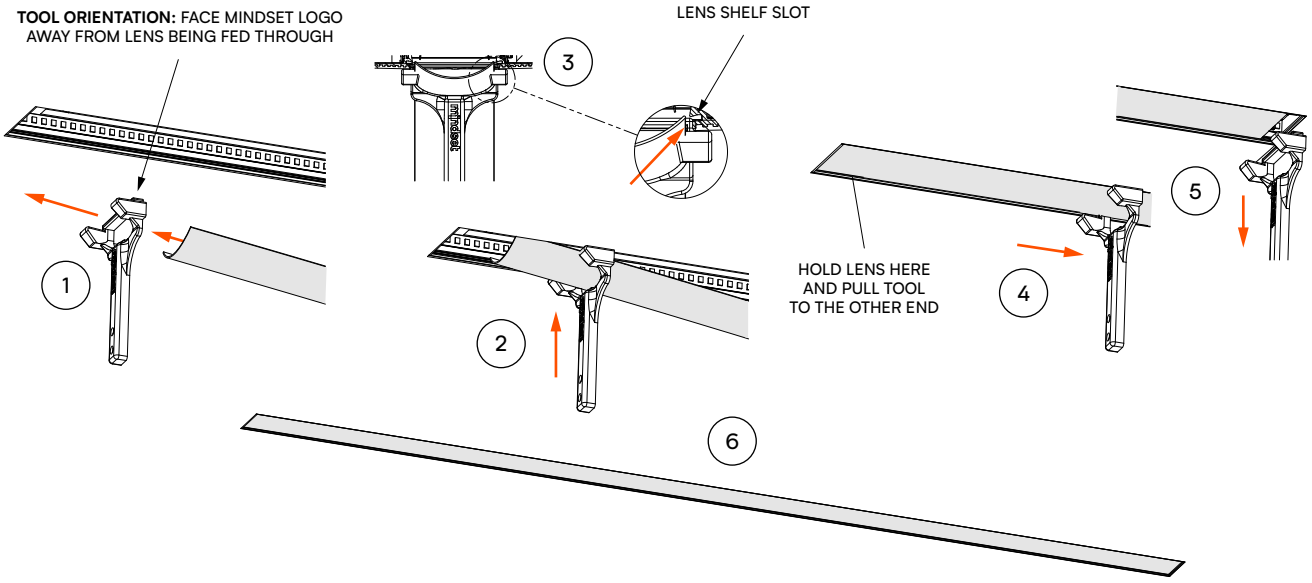
Mud-In/Trimless (CM)

12 Install Discrete Lens

1. Gather lens and lens installation tool. Next take one end of the lens, fold with your hands and then feed through the install tool.
   NOTE: The orientation of the tool is important. See illustration below.
2. Allow for ~4" of the folded lens to pass through the tool to provide enough length for the lens to feed into the shelf slots.
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 slots.
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 the lens to complete.



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Mud-In/Trimless (CM)

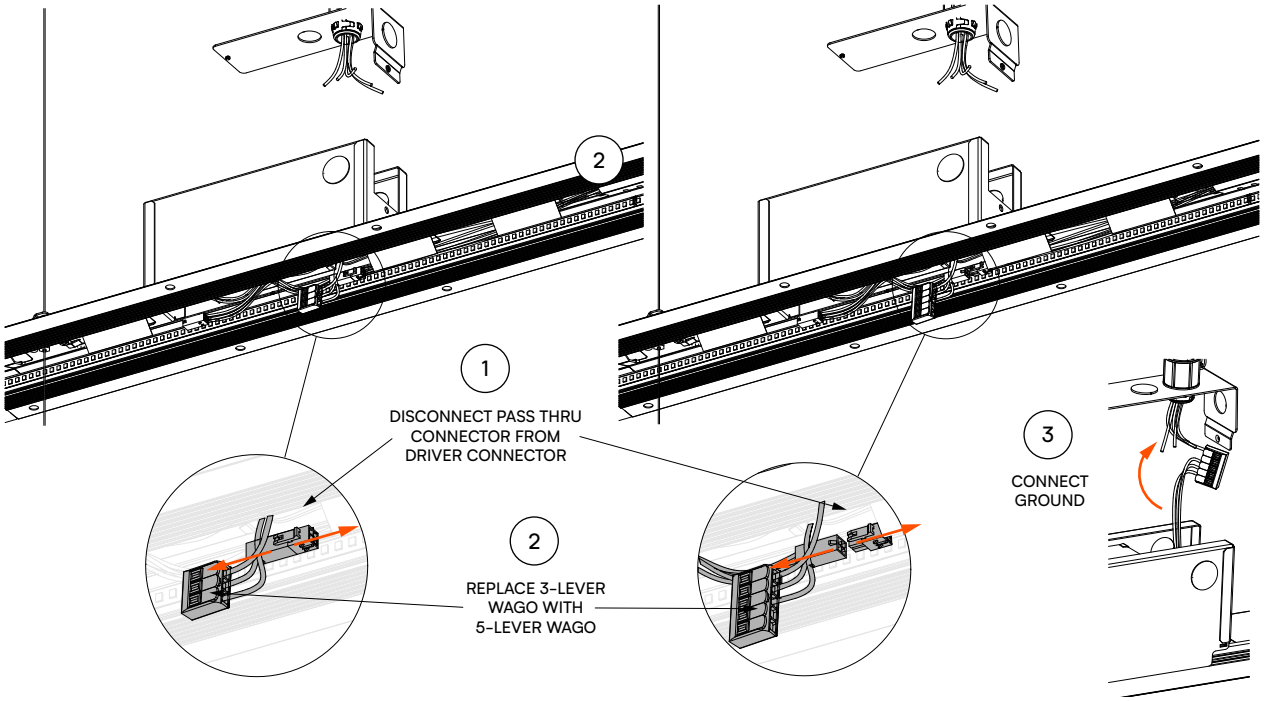
Installation Steps — Continuous Run

13 Starter Fixture for Continuous Run Installation

Repeat Steps 1 to 5 for discrete installation instructions. After completing Step 5, return to Step 14 to complete the power connections for the starter fixture.

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

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



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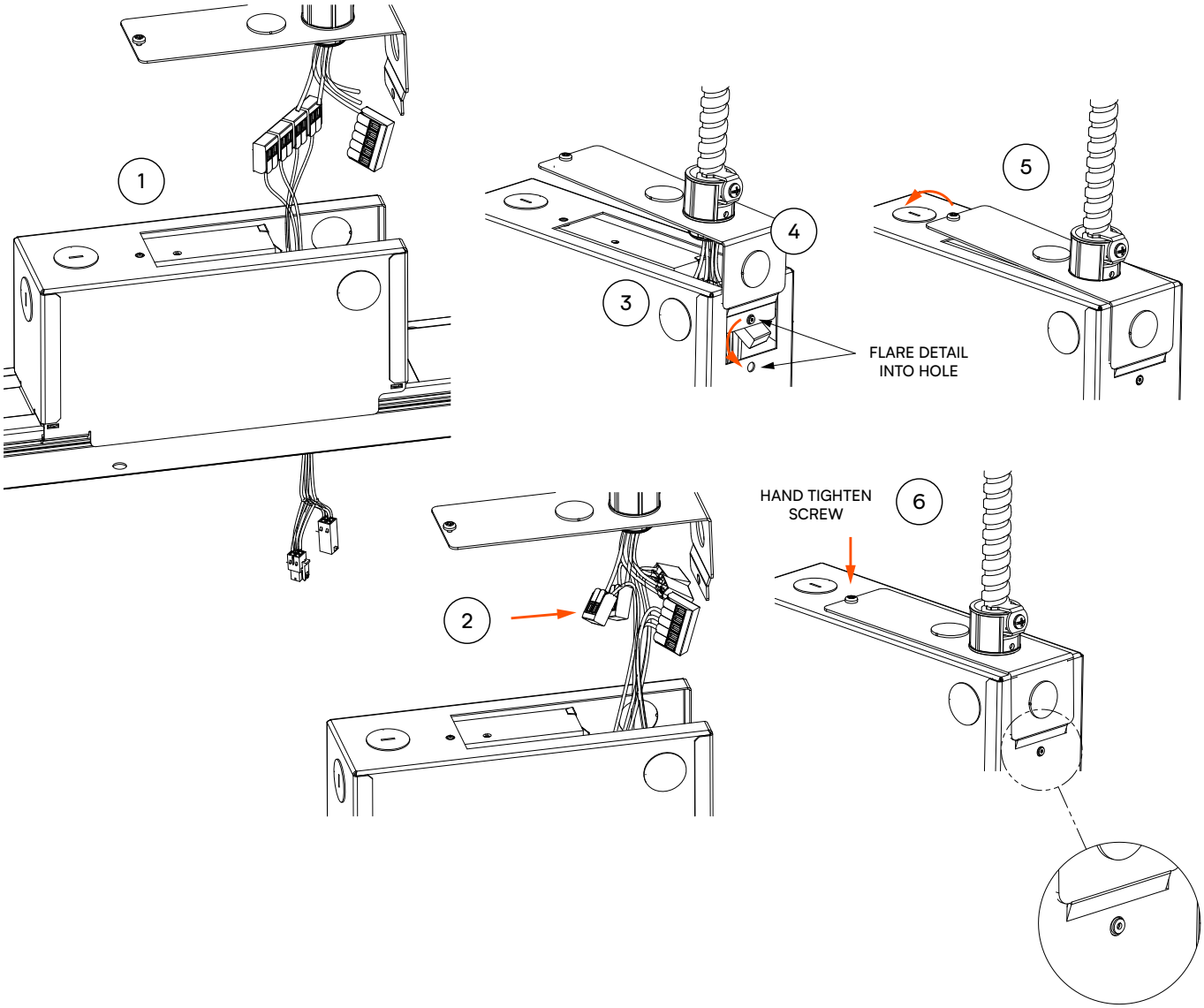
Mud-In/Trimless (CM)

15 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.



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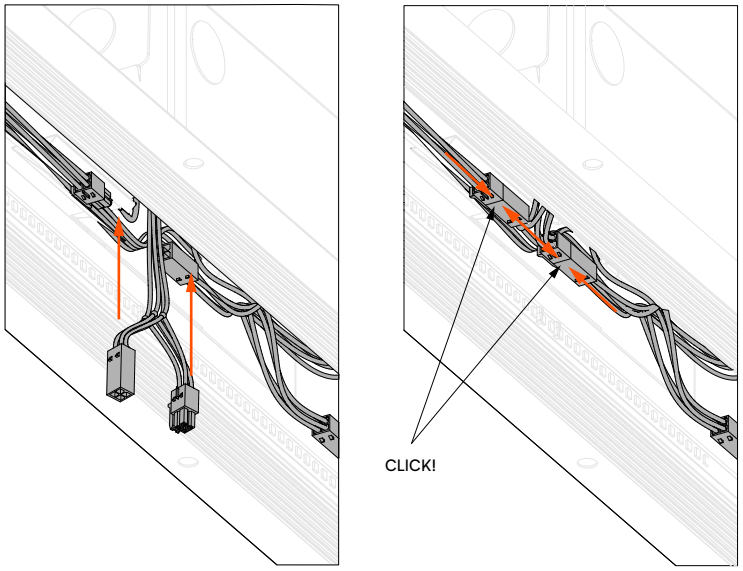
Mud-In/Trimless (CM)

16 Connect Power Drop to Fixture Connectors – Driver Box

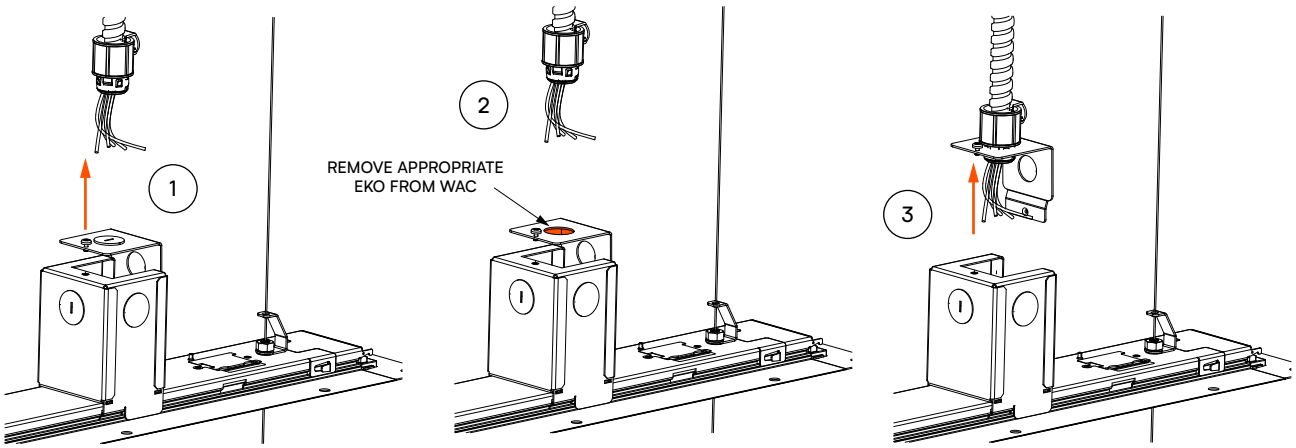
Connect the power drop harness connector to the driver connector harness to complete the electrical connection.



17 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).



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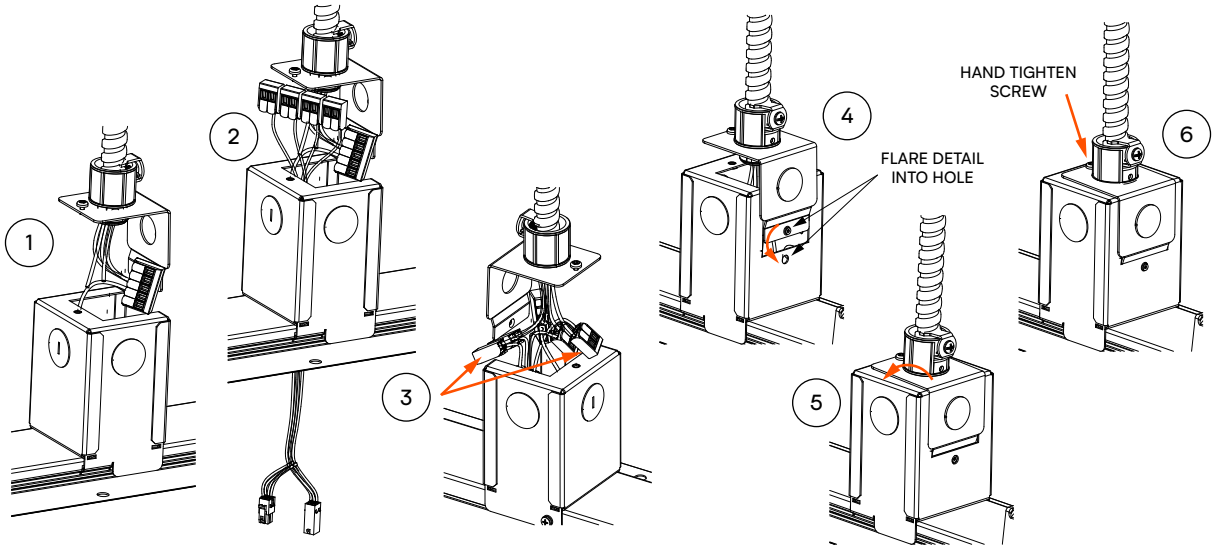
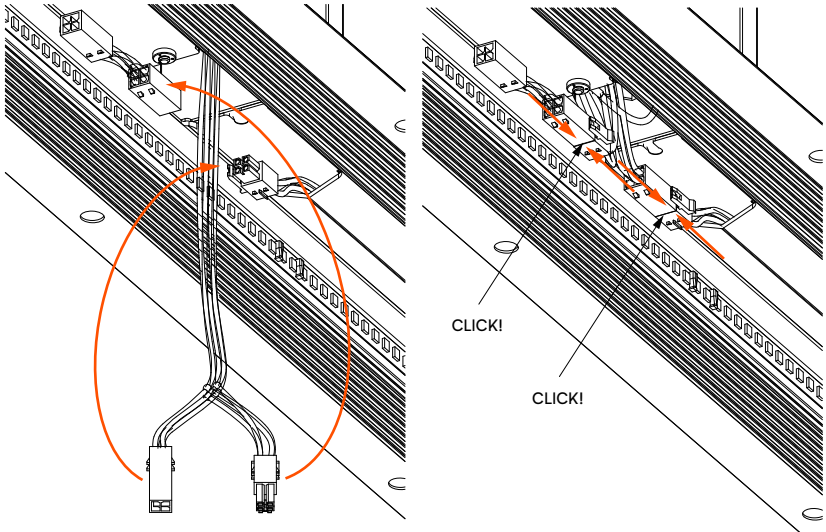
18 Gather the Power Drop Kit and Make Electrical Connection – Jumper Box

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.



19 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

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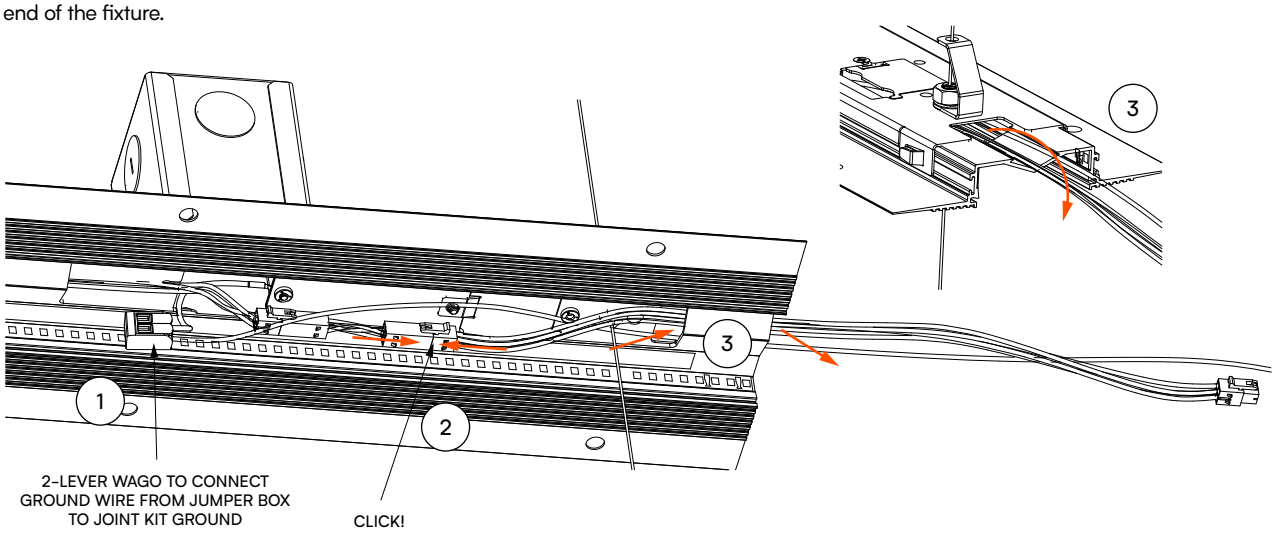
Mud-In/Trimless (CM)

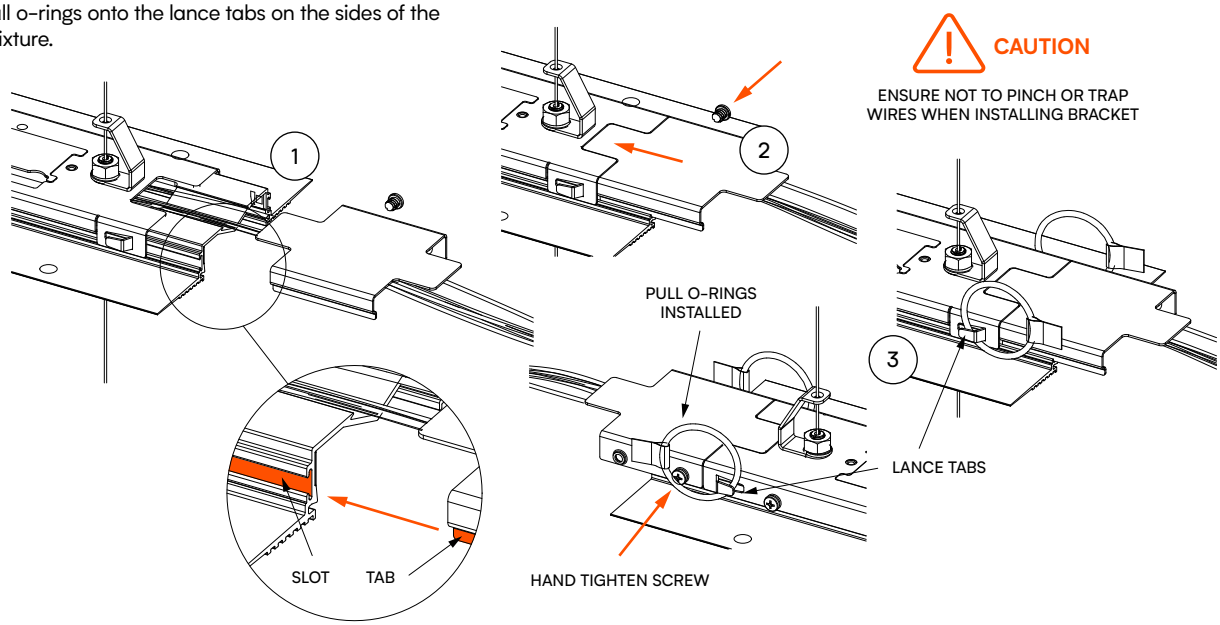
20 Prepare Suspended Fixture for Joining

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 the jumper harness connector to the jumper box harness connector.
3. Feed ground wire and joiner harness connector up and through the opening at the end of the fixture.



21 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 the 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.



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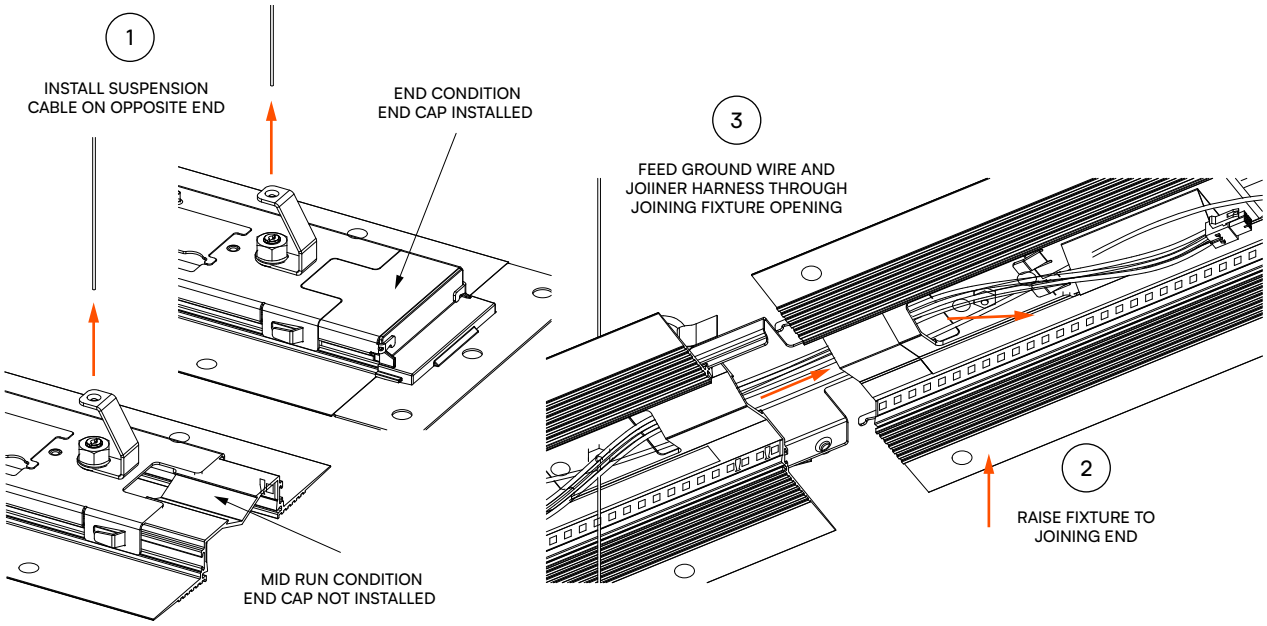
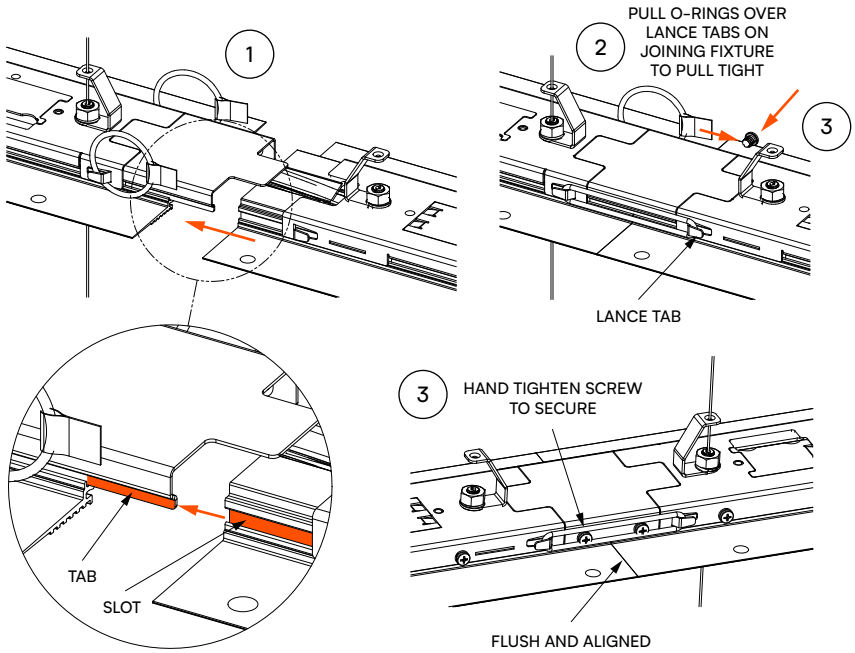
22 Prepare and Raise Joining Fixture (Mid Run or End Run)

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.



23 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 23 if adding additional fixtures in the run).



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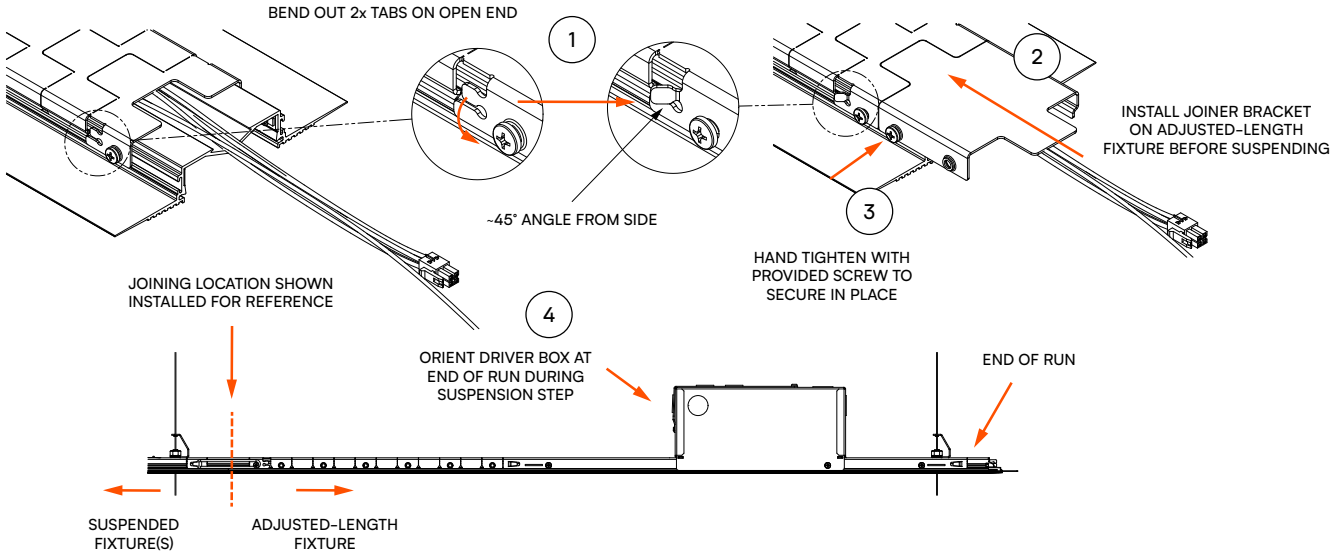
24 Adjusted-Length Fixture Joining

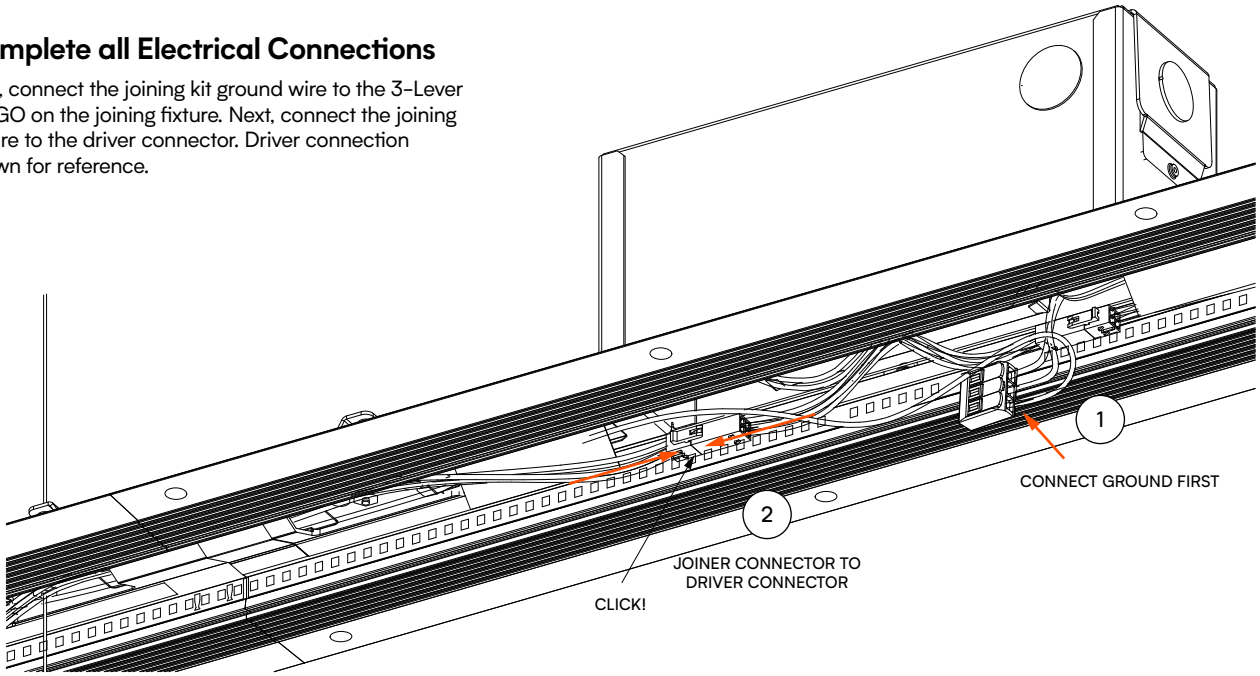
Fixture lengths between 2-3 ft are factory-adjusted to specified lengths in 1" increments. For these adjusted fixture segments, the tabs on the end to join the o-rings must be bent out at an approximate 45 degree angle to allow for the o-ring to be installed on it. Note ground wire and connector harness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



25 Complete all Electrical Connections

First, connect the joining kit ground wire to the 3-Lever WAGO on the joining fixture. Next, connect the joining fixture to the driver connector. Driver connection shown for reference.



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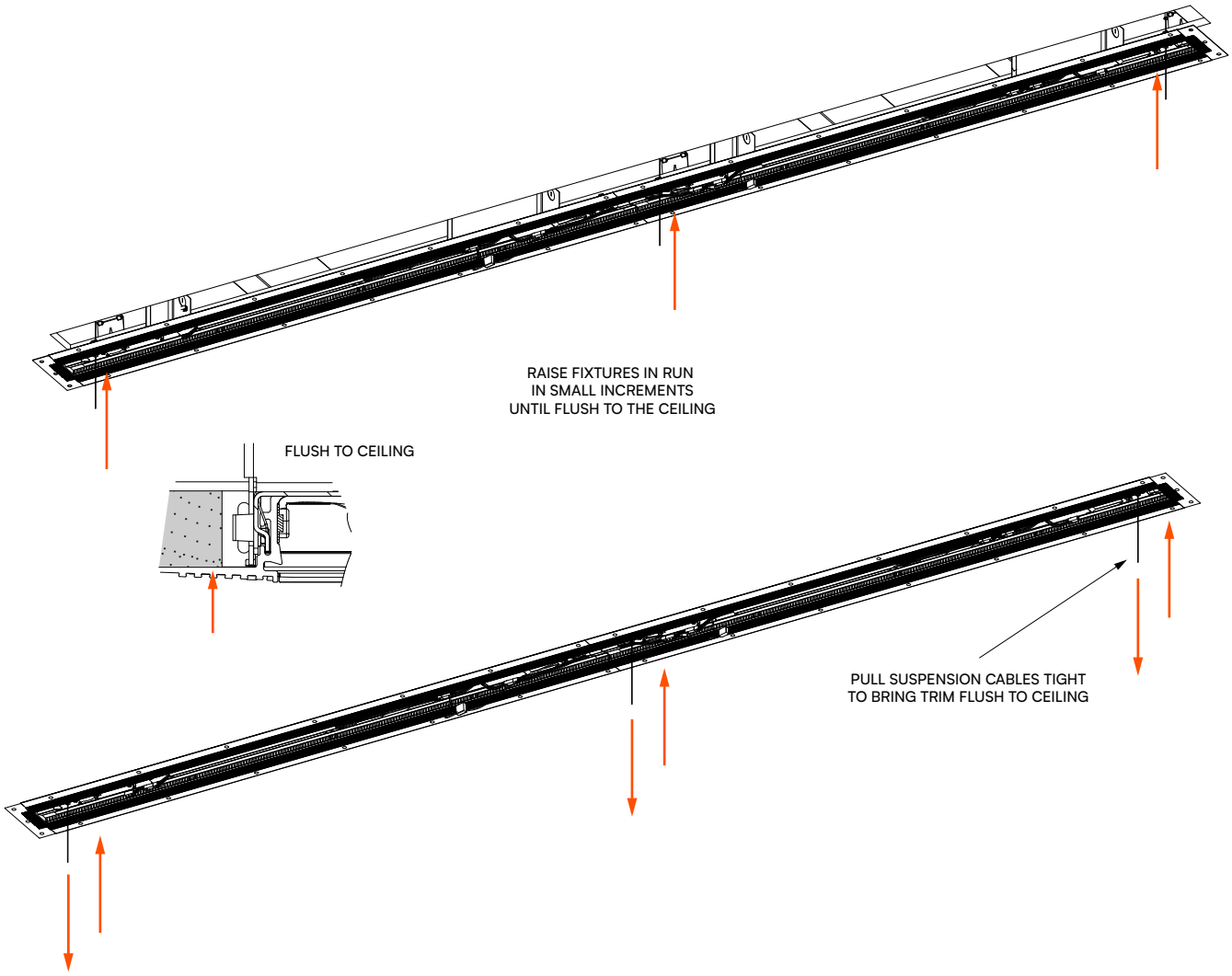
26 Raise Joined Fixtures into the Opening Until Flush

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.



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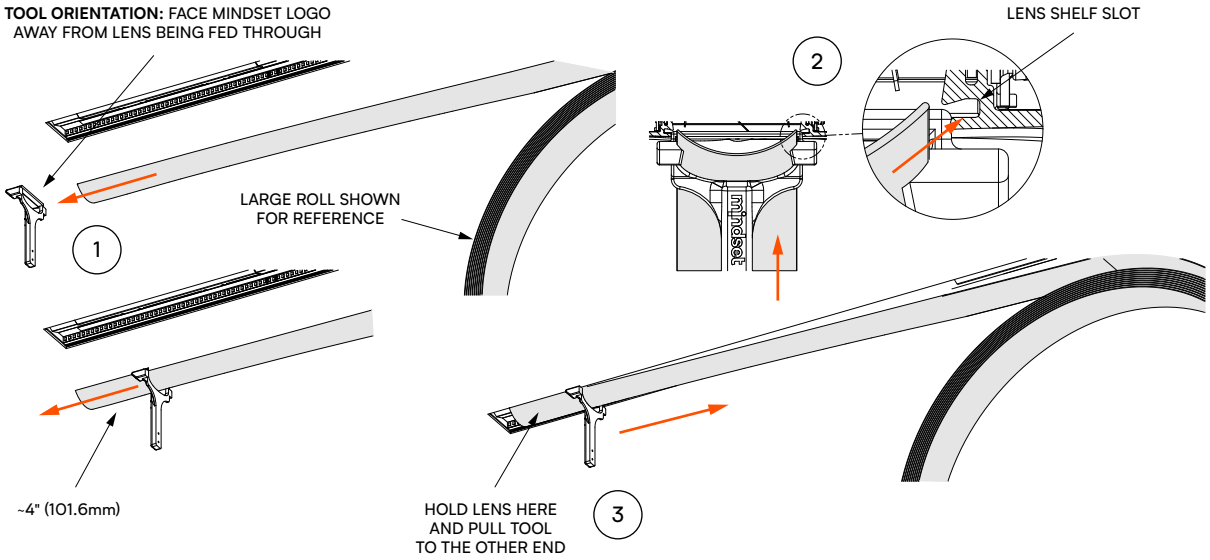
27 Reinstall Access Cover Plates + Finishing Steps

See Step 10 + 11 in Discrete instructions (Pages 13-14) to reinstall the access cover plates and to complete the finishing steps on all fixtures before lens install.

28 Install Continuous Lens

Gather lens roll and lens installation tool.

1. Insert non-dominant arm through the 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" of the folded lens to pass through the tool to provide enough length for the lens to feed into the shelf slot. Raise to fixture aperture and insert lens into lens 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 slot. Slide to the opposite end and stop ~1ft before you reach the end.



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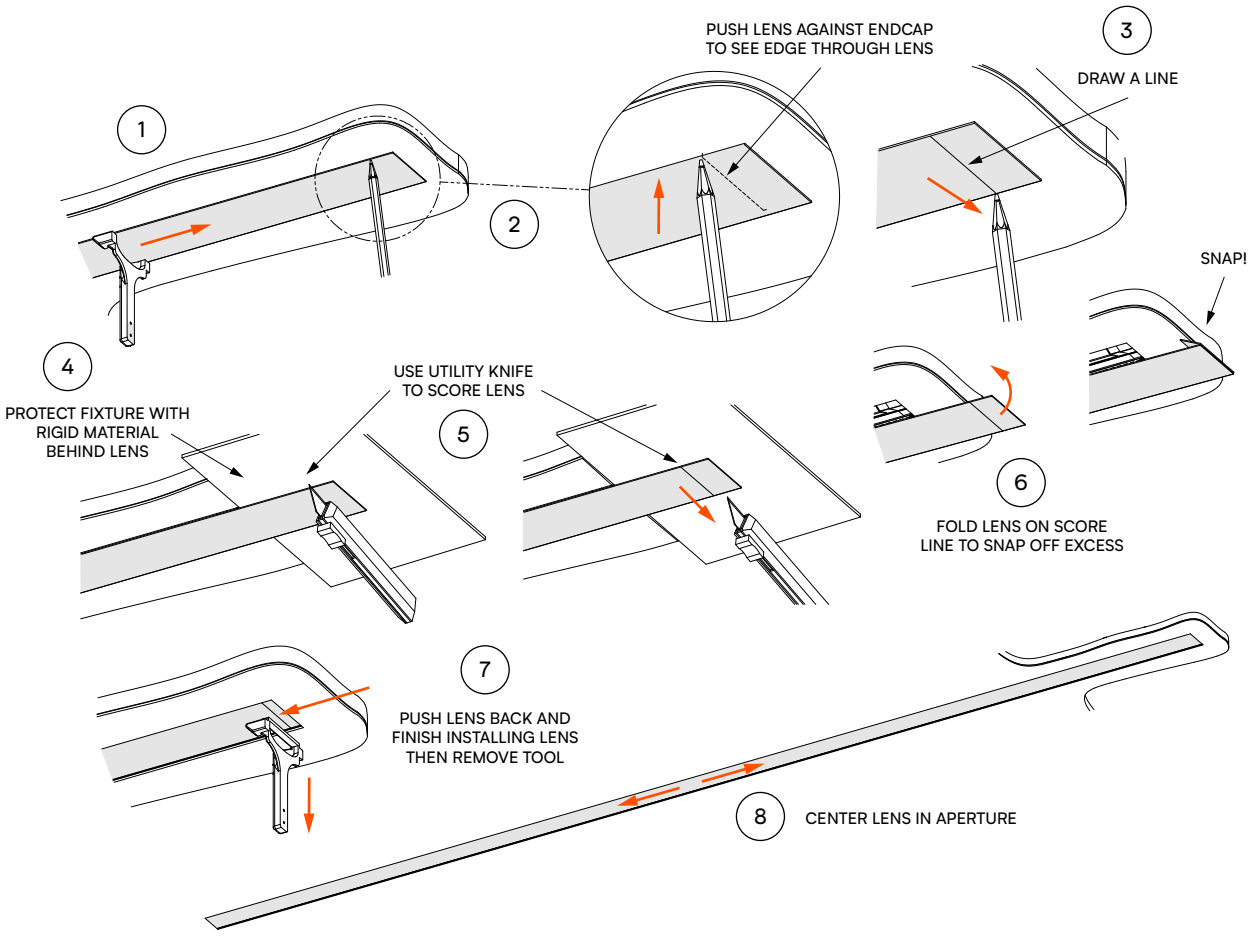
29 Complete Lens Install

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 out ~8" to 10" 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.



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Mud-In/Trimless (CM)

Additional Steps – Appendix

Driver + Jumper Box: Adjust to avoid studs or obstacles in the cutout path.

Mounting Brackets: Modify if the cutout edge is flush with parallel stud.

Suspension Cable Gripper Adjust + Move + Remove:

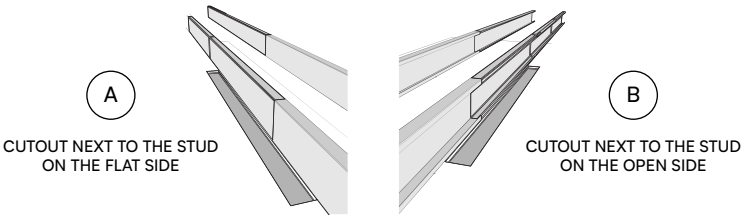
Lens: Removal may be required for troubleshooting.

Contact the factory for assistance if you have any questions.

Reference

CASE A: Cutout next to the stud on the flat side

CASE B: Cutout next to the stud on the open side



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Mud-In/Trimless (CM)

1 Driver + Jumper Box Adjustments Diagram + Table

IMPORTANT: The modular fixtures offer 180° rotation, which supplements the adjustments available on the driver and jumper boxes. Simply rotating a fixture 180° to clear an obstruction typically does not require any corresponding adjustments to the driver or jumper box.

IMPORTANT: All measurements are from the end of the fixture without endcaps installed.

NOTE: The dimensions found in Table 1 are the same for all nominal lengths as measured from the end of the fixture with endcaps not installed.

NOTE: The dimensions found in Table 2 provide the distance between the driver box and jumper box for each nominal fixture length from 4ft to 8ft in each combination of positions.

To determine if an adjustment is necessary, measure the distance from the cutout opening to the stud face.

For Flangeless Mud-In (CM endcap): Add approximately 11/16" without endcaps installed (17.5 mm) to this measurement.

Measure the fixture with a tape measure, starting from the end. If the measured distance aligns with D1 or J1, the driver or jumper box needs adjustment. Refer to Step 2 (Page 28) for adjustment instructions.

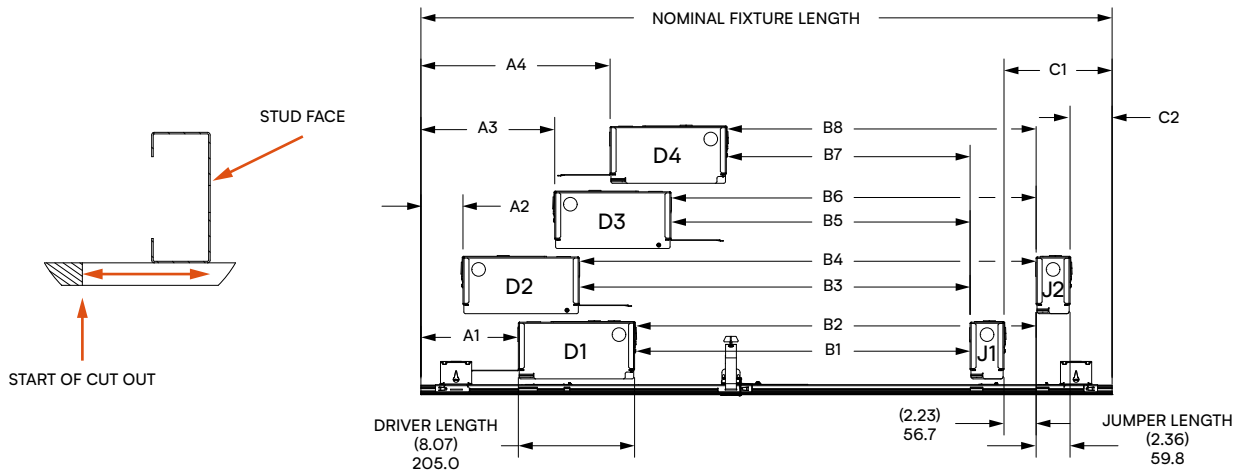

Table 1 - Distances for Dimensions A + C

A to D-Box	IN	MM	C to J-Box	IN	MM
A1 (D1)	6.77	171.9	C1 (J1)	7.51	190.7
A2 (D2)	2.92	74.2	C2 (J2)	2.92	74.2
A3 (D3)	9.29	236			
A4 (D4)	13.14	333.7			

Table 2 - Distances for Dimension B

	B*	IN	MM
	B1 (D1—J1)	23.3	591.8
	B2 (D1—J2)	27.89	708.3
	B3 (D2—J1)	27.14	689.5
4ft	B4 (D2—J2)	31.73	806
	B5 (D3 to J1)	20.77	527.6
	B6 (D3 to J2)	25.36	644.1
	B7 (D4 to J1)	16.93	429.9
	B8 (D4 to J2)	21.51	546.4

***NOTE:** For 5ft, 6ft, 7ft, and 8ft nominal fixture lengths. To calculate the B values add 12" (304.8 mm) for every additional foot. 5ft add 12", 6ft add 24", and so on.

E.g. To calculate the B1 value for a 7ft nominal fixture length:

Take the 4ft B1 value and add 36" to the B1 value.

7ft B1 = (23.3" + 36") = 59.3"
7ft B1 = 591.8 mm + 914.4 mm = 1506.2 mm

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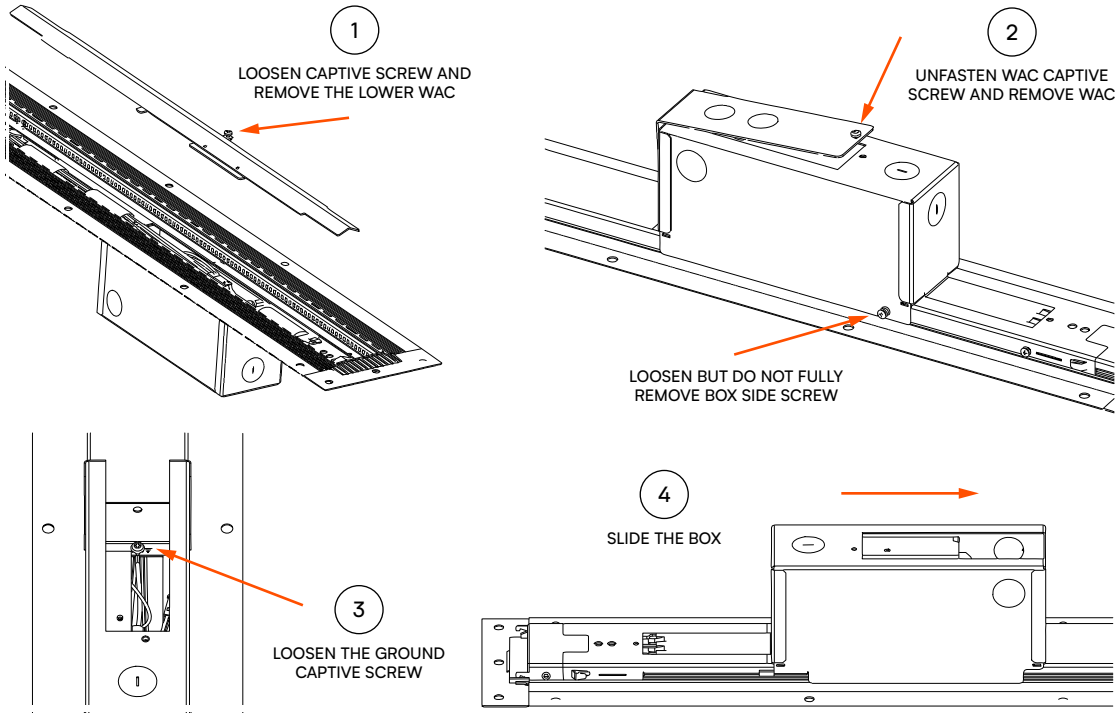
Mud-In/Trimless (CM)

2 Driver Box Adjustments

When the driver box is to be adjusted, begin by turning the fixture over so the optical cavity is facing up.

1. Remove the wire access cover by loosening the captive screw.
2. Turn the fixture back over so the driver box is facing up. Loosen the captive screw holding down the WAC on the driver box and the screw on the side of the driver box.
3. Loosen the captive ground screw inside the driver box.
4. Slide the driver box over to free it for removal.



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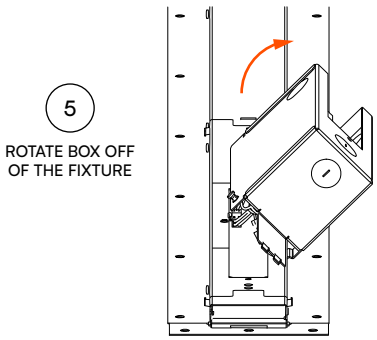
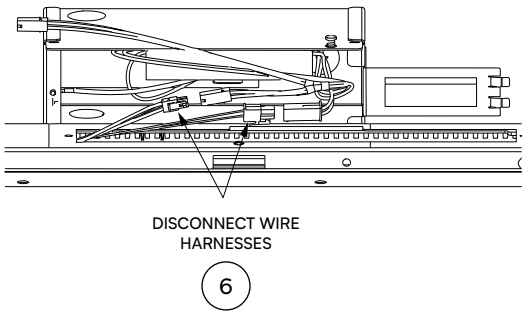
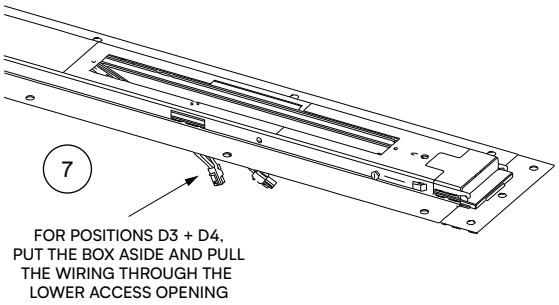
Mud-In/Trimless (CM)

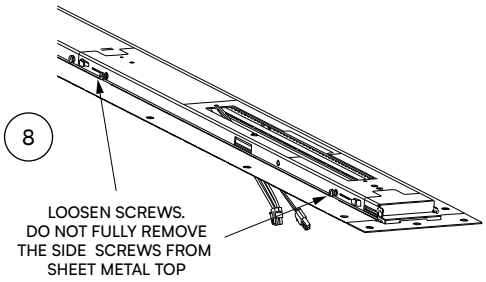
3 Driver Box Adjustments — Continued

5. Rotate the drive box off the fixture and lay it on its side.
6. Disconnect all connectors. **NOTE:** If adjusting the driver box to Position D2, STOP and proceed to Step 5 (Page 31) for instructions. To prepare the top cover for adjustment positions D3 or D4, continue to Step 7 below.
7. Pull wires down below the opening.
8. Loosen the side screws to remove the top cover.









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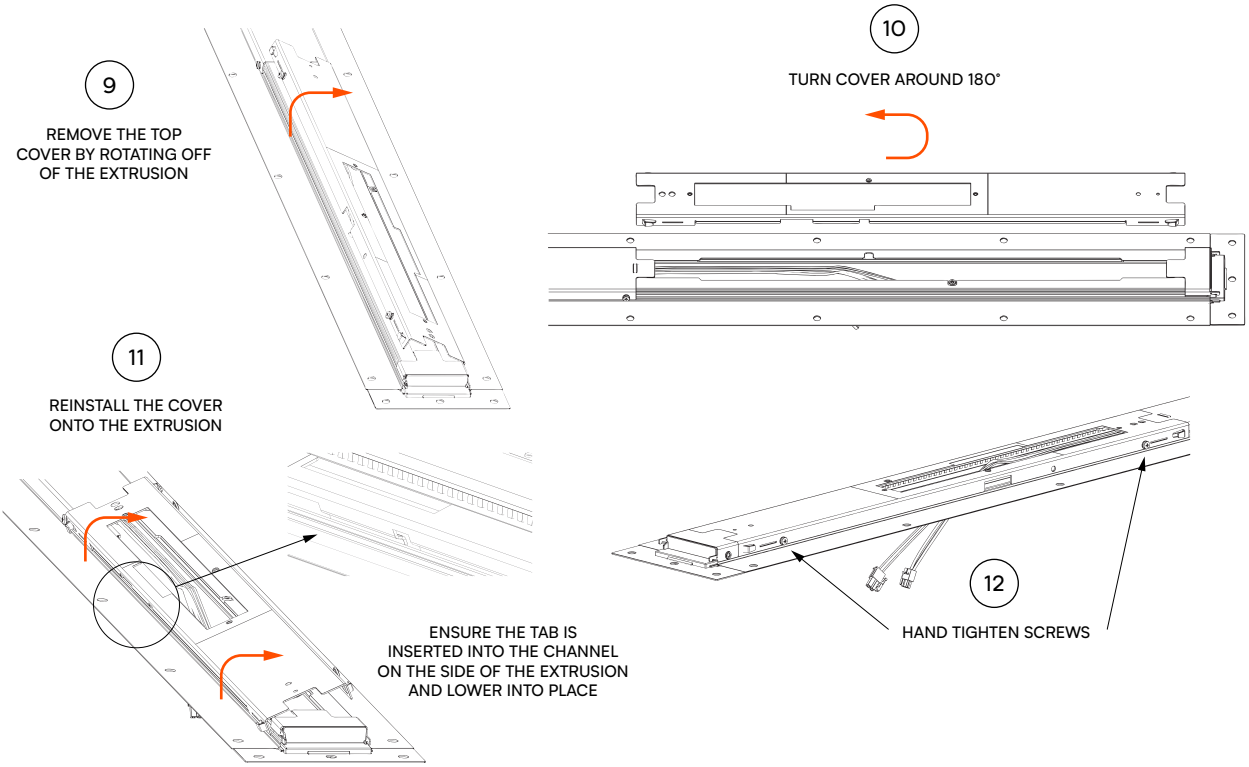
Mud-In/Trimless (CM)

4 Driver Box Adjustments — Continued

9. Remove the top cover.
10. Rotate the top cover 180°.
11. Reinstall the top cover, align the tabs to seat into the channel on the side of the extrusion. Once seated carefully lower the top cover down into place. **IMPORTANT:** Ensure not to trap any wires while reinstalling the top cover.
12. Hand tighten the screws to secure the top cover into place.



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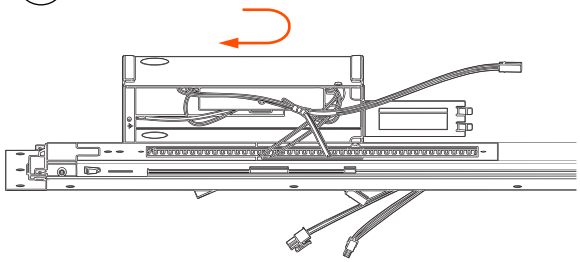
5 Driver Box Adjustments — Continued

13. Rotate the driver box 180°.
14. Guide the wires back through the opening beneath the fixture.
15. Reattach the driver box. Align the tab on the driver box into the extrusion channel, then rotate the box down until it rests on the top of sheet metal. Rotate the driver box to rest on the top.

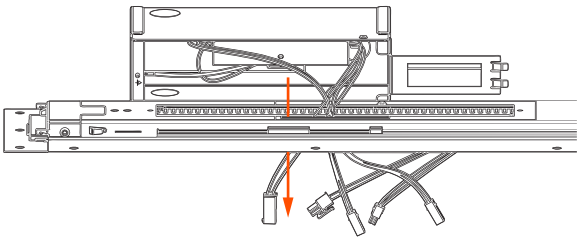
IMPORTANT: Before reinstalling confirm position D2, D3, or D4 and the orientation by checking the diagram in Step 1 (Page 27).

NOTE: D2 and D3 have the tongue with tabs to be facing the jumper box side. D1 and D4 have the tongue facing the end of the fixture.

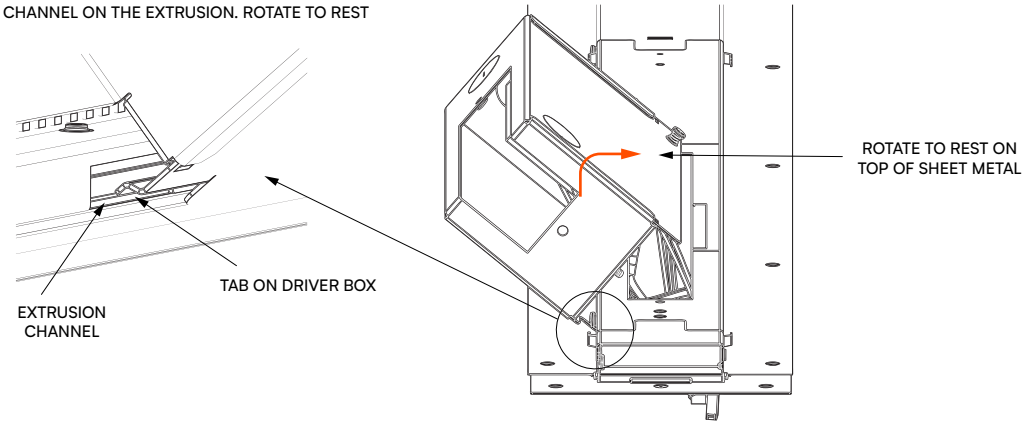
13 TURN BOX AROUND 180°



14 FEED WIRES THROUGH OPENING



15 REINSTALL THE DRIVER BOX BY SEATING TAB INTO THE CHANNEL ON THE EXTRUSION. ROTATE TO REST



NOTE: Position D2 shown for reference.

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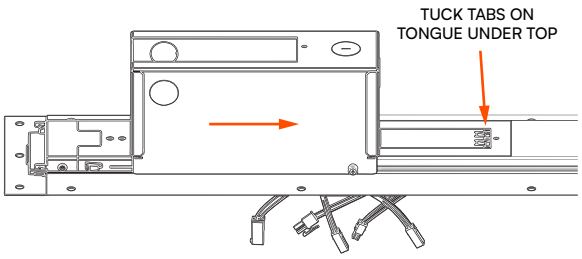
Mud-In/Trimless (CM)

6 Driver Box Adjustments — Continued

16. Slide the driver box into place.
17. Reconnect the wiring harnesses.
18. Secure driver box ground screw to sheet metal top through the driver box WAC opening.
19. Reinstall and secure the WAC onto the driver box. Secure the WAC and driver box by hand tightening the screws.

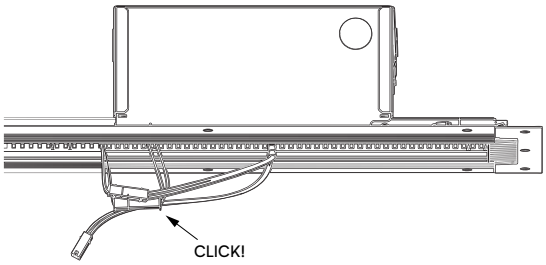
16

SLIDE DRIVER BOX INTO PLACE



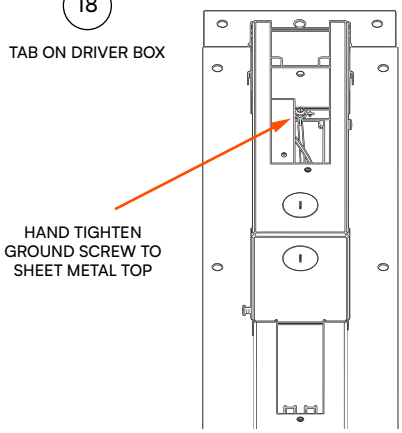
17

RECONNECT THE WIRES



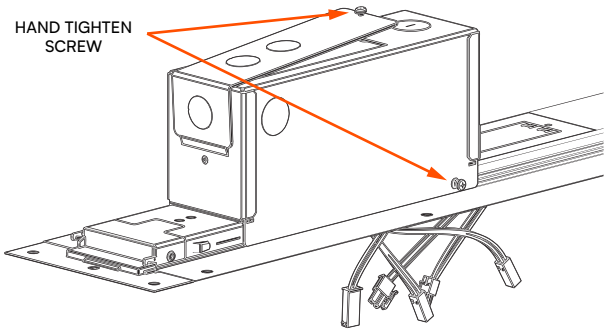
18

TAB ON DRIVER BOX



19

REINSTALL WAC AND SECURE
WITH CAPTIVE SCREW



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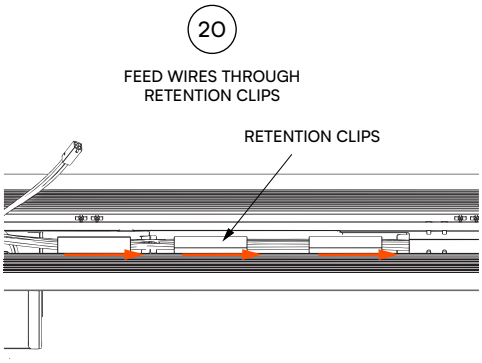
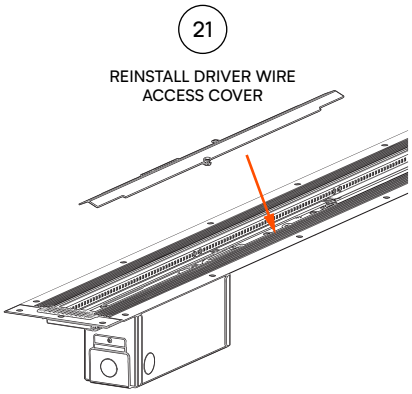
Mud-In/Trimless (CM)

7 Driver Box Adjustments — Continued

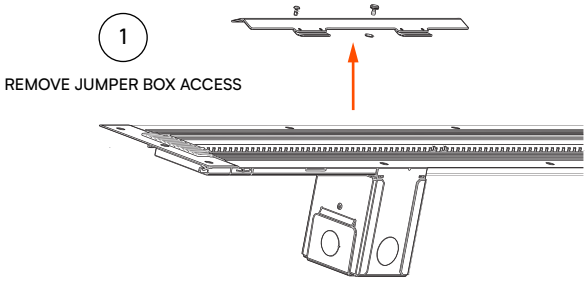
20. Feed wires through the retention clips and secure in place.
21. Reinstall the driver wire access cover the same way it was uninstalled.

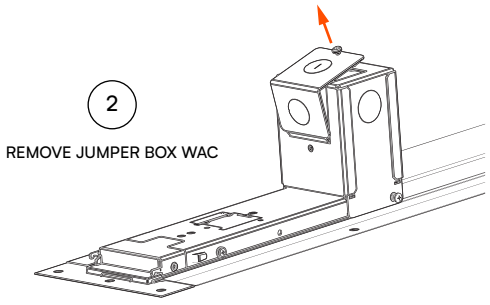


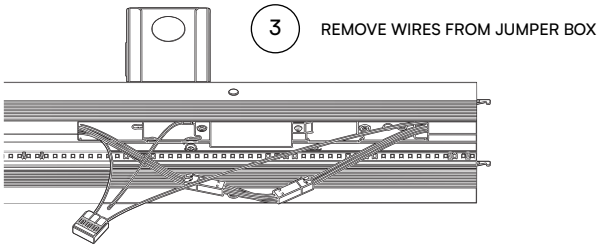


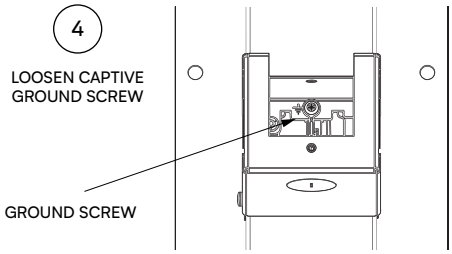
8 Jumper Box Adjustments

1. Remove jumper box cover plate. Leave the captive screw and nylon rivet attached to the plate.
2. Loosen screw on jumper box WAC to remove.
3. Pull wires down out of jumper box.
4. Loosen ground screw holding jumper box to sheet metal top.









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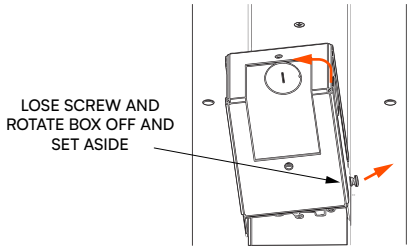
Mud-In/Trimless (CM)

9 Jumper Box Adjustments — Continued

5. Loosen screw on side of jumper box and remove jumper box from fixture.
6. Loosen screw holding cover on end position and remove.
7. Reinstall the cover on the position the jumper box was on and secure in place by hand tightening the screw.
8. Gather the jumper box and reinstall it on the end position and rest on top insert tab into channel on extrusion.

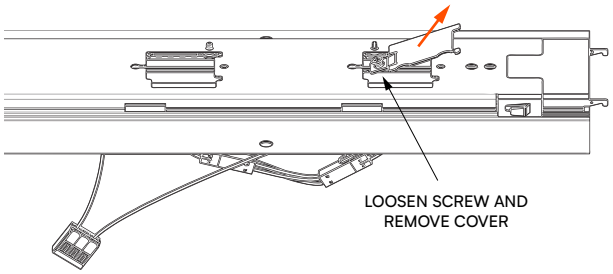
5

REMOVE JUMPER BOX FROM FIXTURE



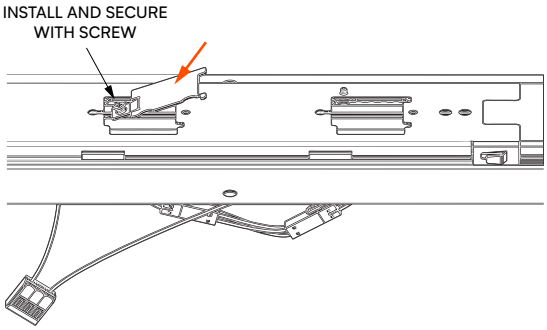
6

REMOVE JUMPER WAC



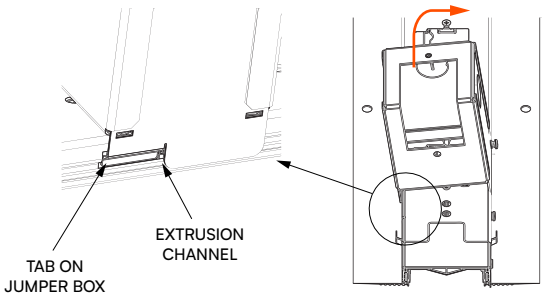
7

REINSTALL COVER ON
SECOND POSITION



8

REINSTALL JUMPER BOX IN
END POSITION



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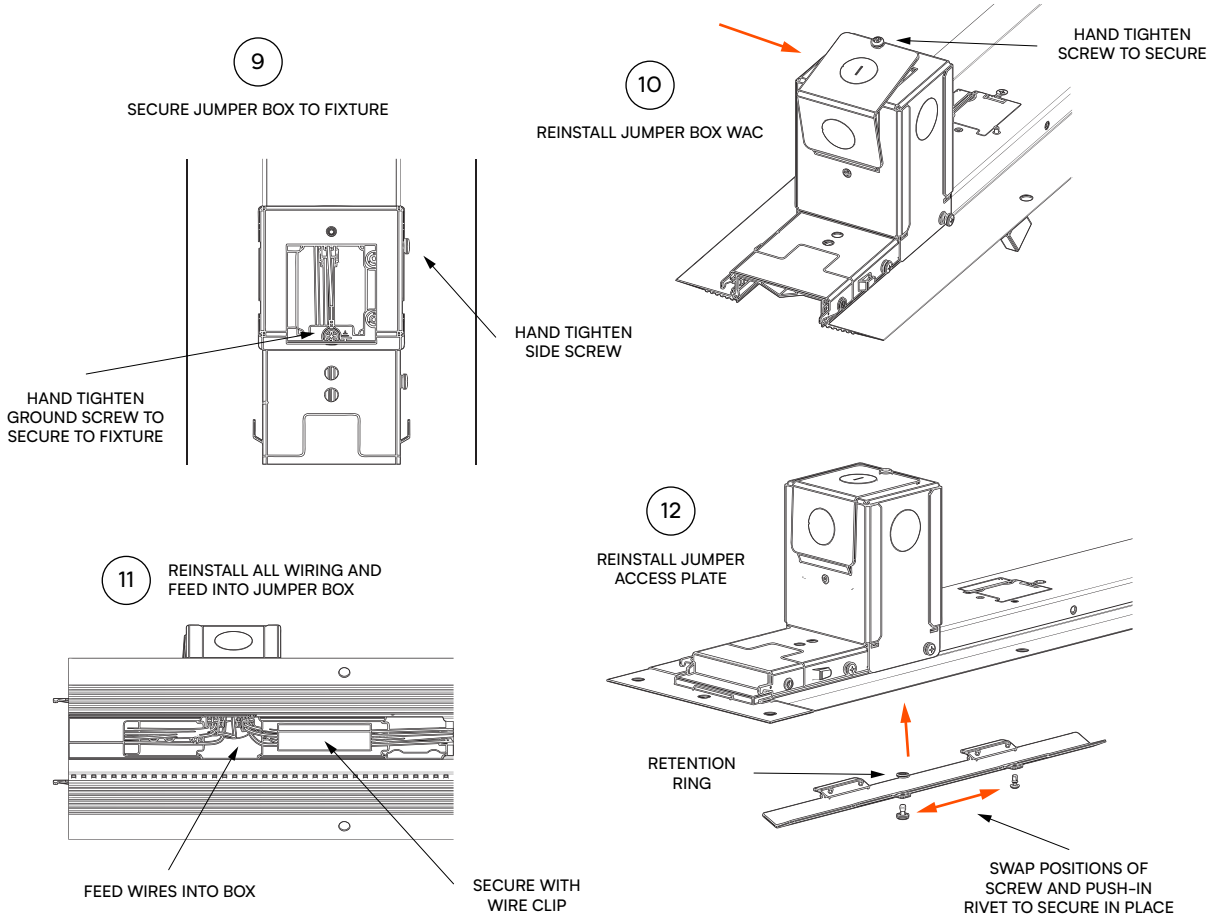
Mud-In/Trimless (CM)

10 Jumper Box Adjustments — Continued

9. Secure jumper box by tightening ground screw and side screw.
10. Reinstall jumper box WAC and tighten screw to secure.
11. Reconnect wires and feed into jumper box as required.

IMPORTANT: Ensure not to trap or pinch wires when reinstalling the jumper access plate.

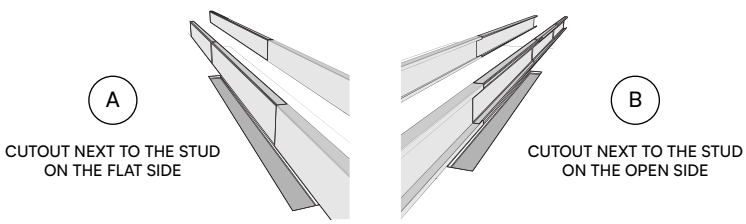
12. Swap push-in rivet and captive screw positions before reinstalling the access plate. Ensure the retention washer is installed.



11 Parallel Stud Bracket Modifications — Case A+B

CASE A: Cutout next to the stud on the flat side

CASE B: Cutout next to the stud on the open side



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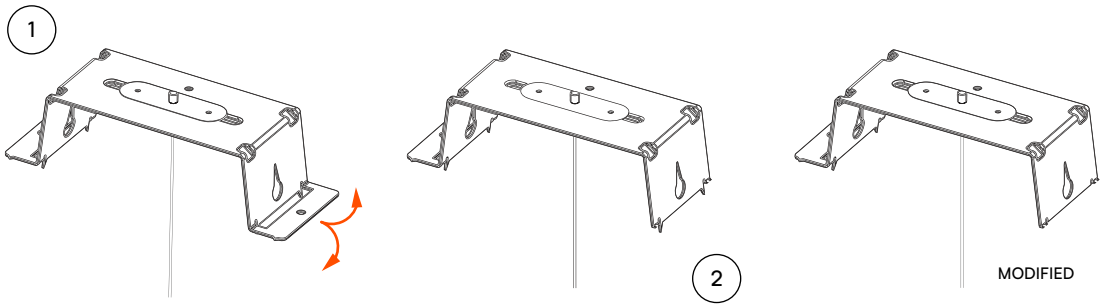
Mud-In/Trimless (CM)

12 Case A: Breaking Bracket Tabs

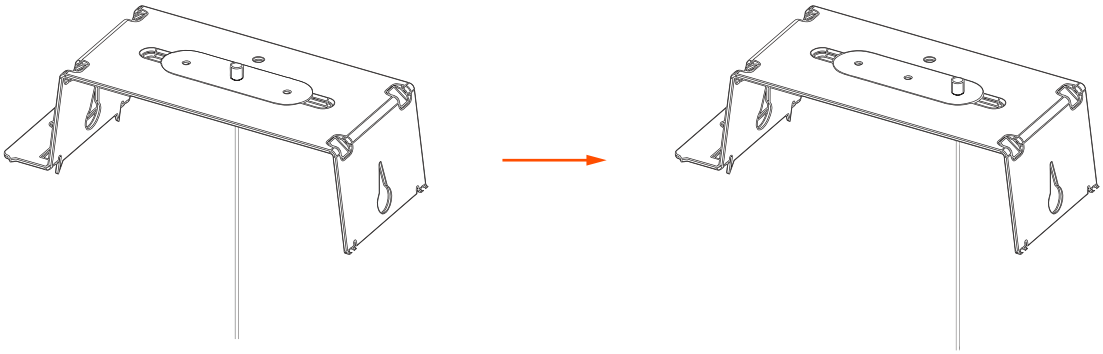
Using pliers, bend the tab on either side of the mounting bracket multiple times until it breaks. Once the tab has been removed, trim the sharp teeth on the same side using metal snips. Bracket is modified.

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



13 Case A: Repositioning Aircraft Cable

Remove the Aircraft Cable from the middle hole and reinsert it in the hole closer to the tab removed in Step 1.



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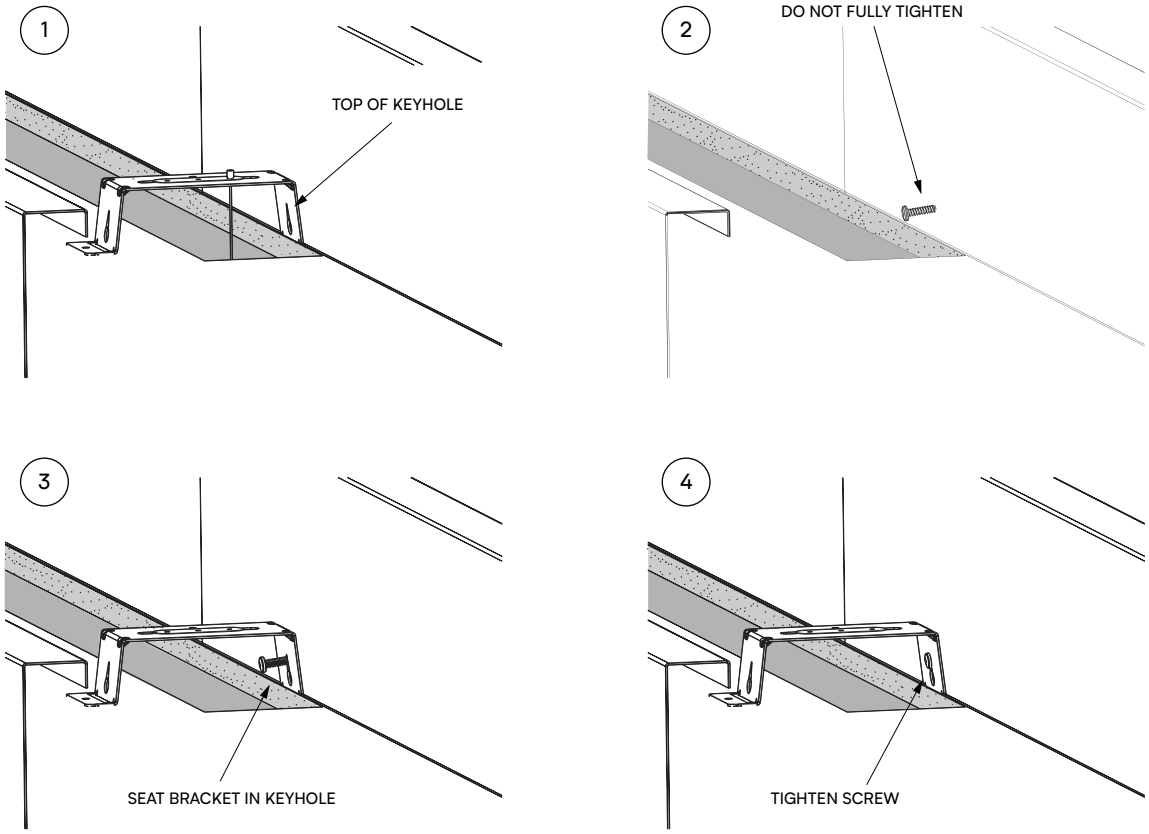
Mud-In/Trimless (CM)

14 Case A: Installing Mounting Bracket

1. Place the modified mounting bracket at the mount location and mark the stud at the top of the keyhole area.
2. Install a #10-32 sheet metal screw at the marked location; do not fully tighten.
3. Hook and seat the bracket in the screw using the keyhole shape.
4. Tighten the screw to secure the bracket.



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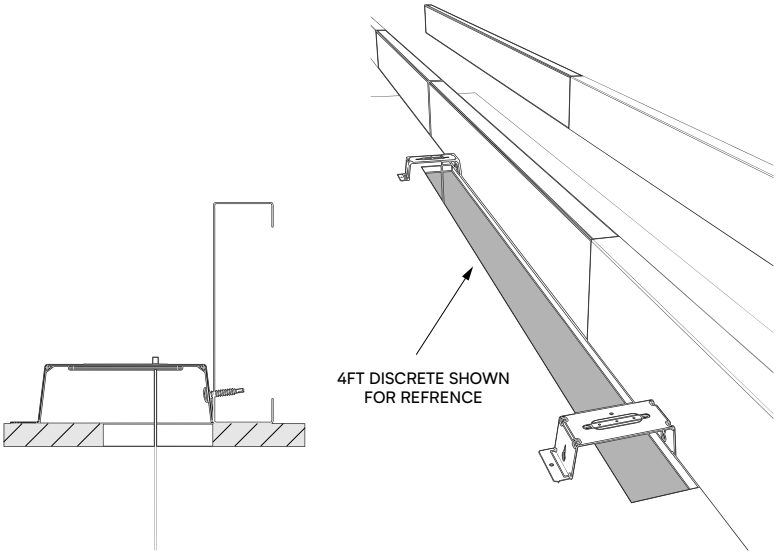
Mud-In/Trimless (CM)

15 Case A: Finalizing the Mounting Bracket Installation

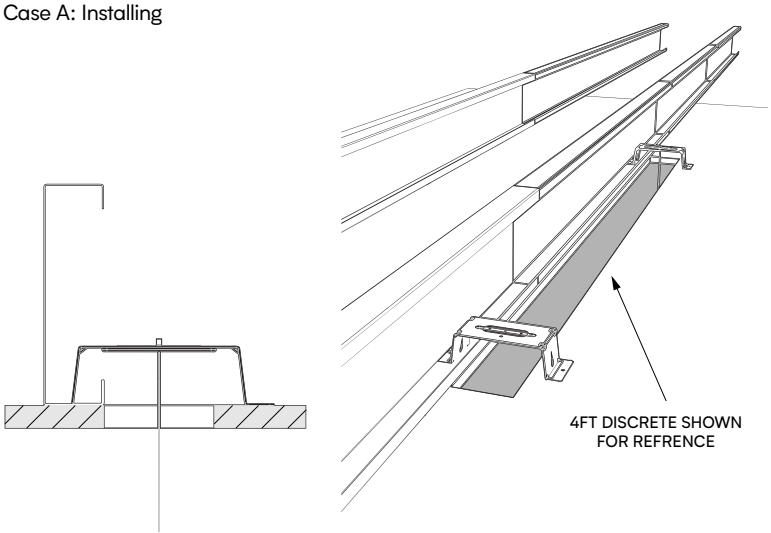
Repeat Steps 13–15 for the rest of the existing mounting brackets.
Check mounting lengths to ensure proper installation.



16 Case B: Installing the Mounting Bracket

Install the mounting bracket as per instructions and place the tab in the stud channel. Both the tab and the sharp teeth can be removed by following Step 12 (Page 36) if needed.

NOTE: If solid stud, refer to Step 14 (Page 37) – Case A: Installing Mounting Bracket.



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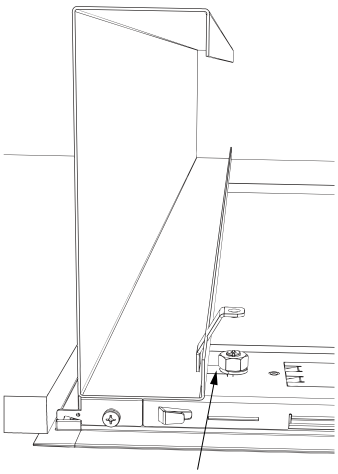
Mud-In/Trimless (CM)

17 Adjust Gripper Bracket for Suspension Cable When Close to Perpendicular Stud

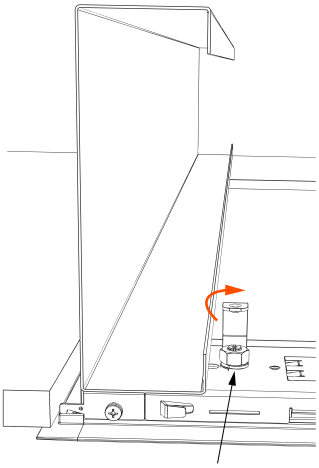
If the gripper guide falls under the stud, **adjust** it by loosening the nut. Rotate the guide bracket 90°, then hand tighten the nut to secure the guide bracket in place.

IMPORTANT: The stud is for visual reference of interference.
Adjust the guide bracket on the ground before raising it into the opening for installation.

NOTE: Trim Flange (CT) shown for reference. Steps identical for Flangeless Mud-In (CM) version.



GRIPPER GUIDE INTERFERES,
MUST BE ADJUSTED



LOOSEN NUT ROTATE GUIDE
BRACKET 90° RE-TIGHTEN NUT

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Mud-In/Trimless (CM)

18 Move Gripper Components for Suspension Cable When Close to Perpendicular Stud

If the gripper guide falls under the stud where it must be **moved**.

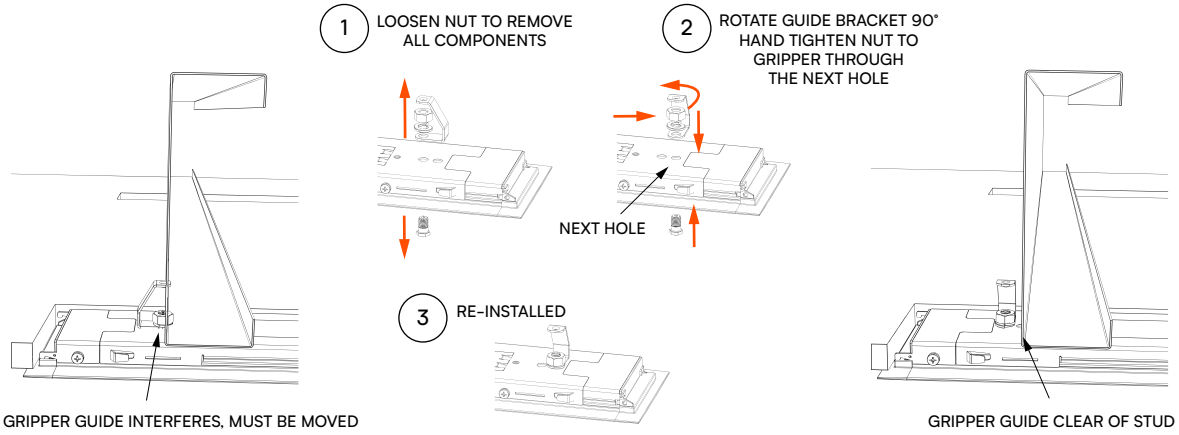
IMPORTANT: The stud is for visual reference of interference. Move the guide suspension components on the ground before raising it into the opening for installation.

With the fixture on the ground, remove the access cover plate to reach the gripper from below. See Step 3 (Page 9) for instructions on removing the access plate(s).

1. Remove the nut, lock washer, and guide bracket from the top, and remove the gripper from the optical cavity below.
2. Relocate these components to the next hole on the top.
3. Reinstall the components.

For reference, the guide bracket is shown installed at a 90° rotation to provide clearance from the stud.

NOTE: Trim Flange (CT) shown for reference. Steps identical for Flangeless Mud-In (CM) version.



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Mud-In/Trimless (CM)

19 Remove Gripper – Securing Fixture with 2.5-3" Self-Tapping Screw When Mount Falls Under Stud

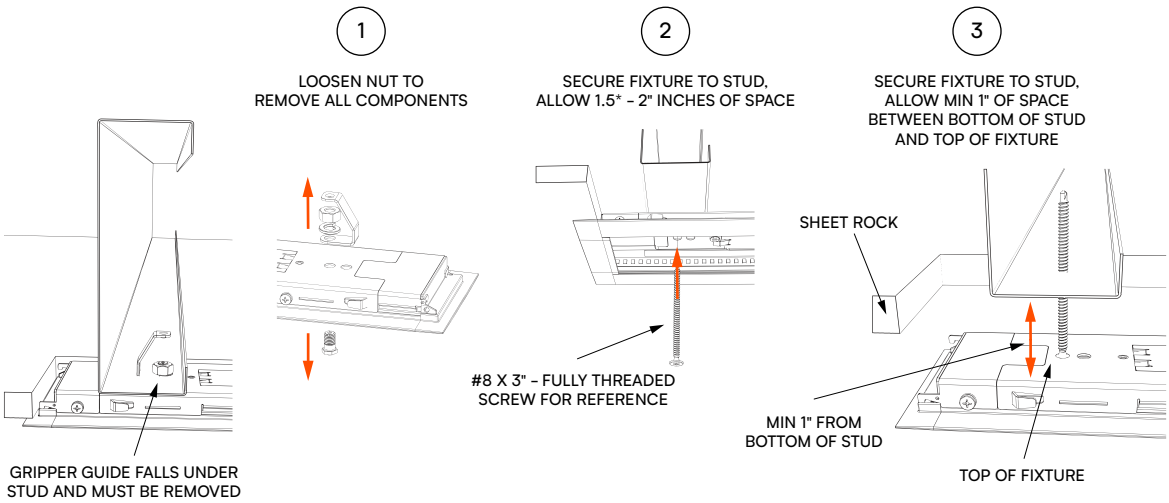
If the gripper guide falls under the stud where it must be **removed** to use a self-tapping screw.

IMPORTANT: The stud is for visual reference of interference. Remove the guide suspension components on the ground before raising it into the opening for installation to the stud.

With the fixture on the ground, remove the access cover plate to reach the gripper from below. See Step 3 (Page 9) for instructions on removing the access plate(s).

1. Remove the nut, lock washer, and guide bracket from the top of the fixture. Remove the gripper from the optical cavity below the fixture.
2. Raise the fixture into the opening, recommend using a #8 x 2.5-3" long fully threaded self-tapping screw (by others) to secure to stud.
3. Leave a minimum of 1" between the bottom of the stud and the top of the fixture. This space allows for connections to additional fixtures in longer runs or patterns.

NOTE: Trim Flange (CT) shown for reference. Steps identical for Flangeless Mud-In (CM) version.



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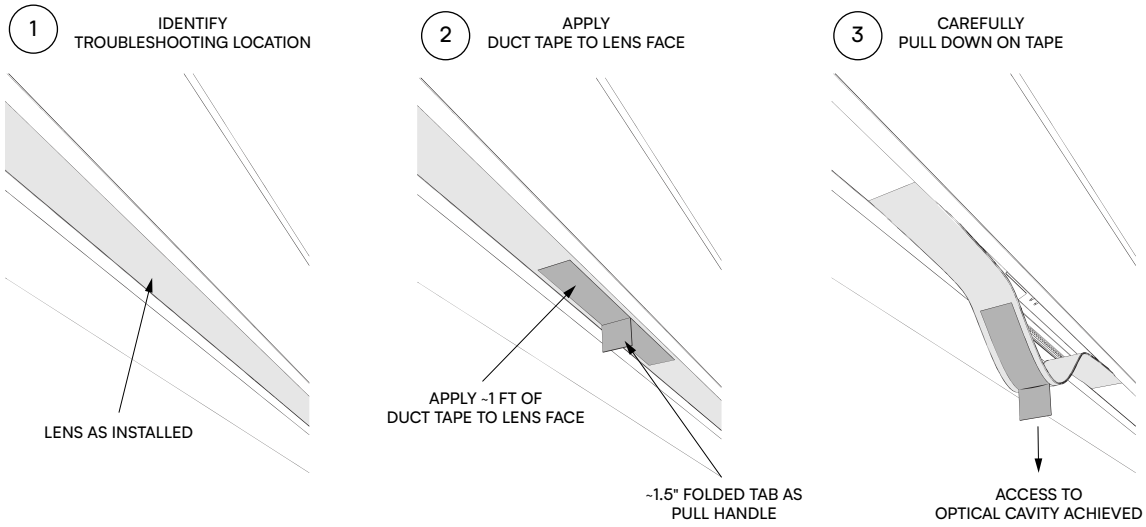
Mud-In/Trimless (CM)

20 Lens Removal (Troubleshooting)

Affix a 1 ft length of duct tape to the lens, creating a folded tab to serve as a handle. Flex the lens outward; once a section is dislodged, the remainder can be easily slid out.

The need for full lens removal depends on its length. Shorter lenses are simpler to remove entirely. For lengths exceeding 20 ft, it might be sufficient to pull the lens down only enough to access the troubleshooting area.

NOTE: Trim Flange (CT) shown for reference. Steps identical for Flangeless Mud-In (CM) version.



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