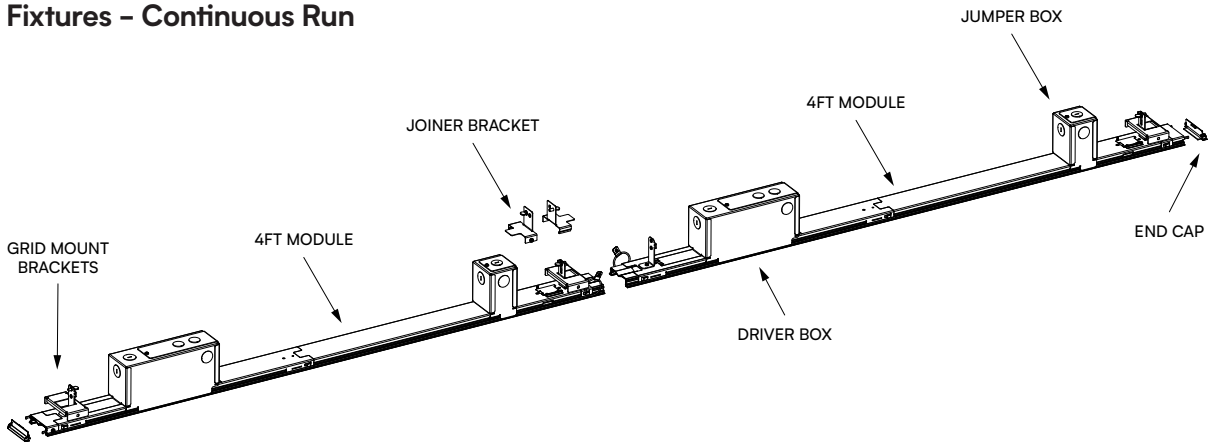
Grid (GR)

System Overview

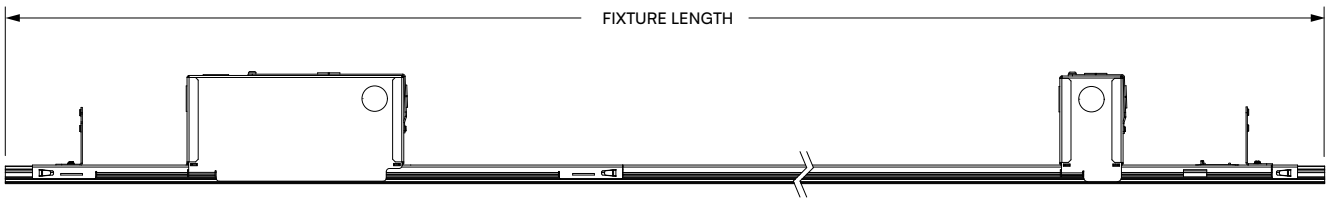
Two 4ft Fixtures – Continuous Run



Fixture Nominal Lengths

Fixture Length	3V	4ft Short	5ft	6ft Short	7ft	8ft Short	8ft
Length (ft-in)	23 - 36	47	60	71	84	95	96
Length (mm)	584.2 - 914.4	1193.8	1524.0	1803.4	2133.6	2413.0	2438.4

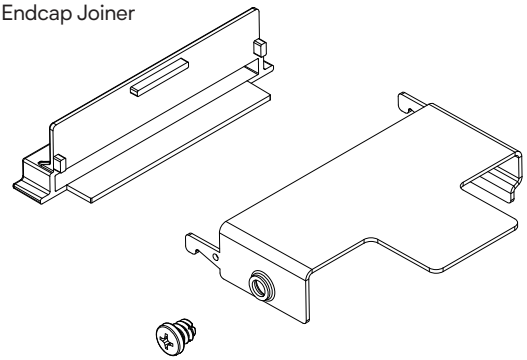
*Refer to layout drawings for lengths as fixtures between 2ft and 3ft are factory-adjusted and come in 1" increments.



Grid (GR)

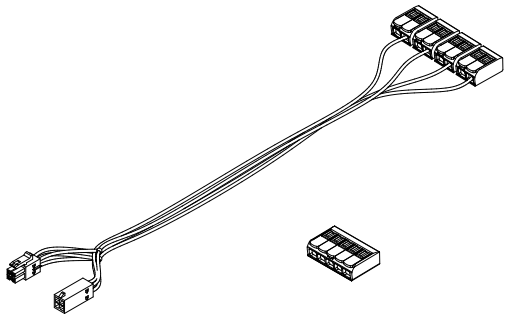
Endcap Kit

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



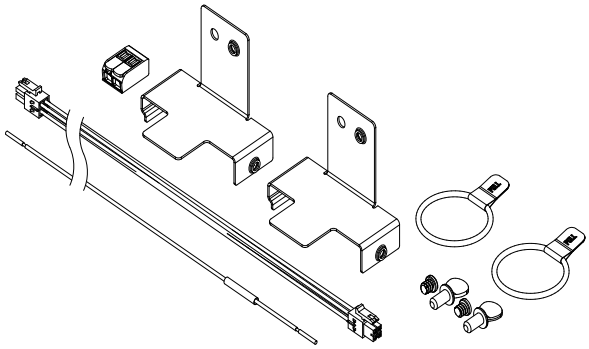
Power Drop Kit

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



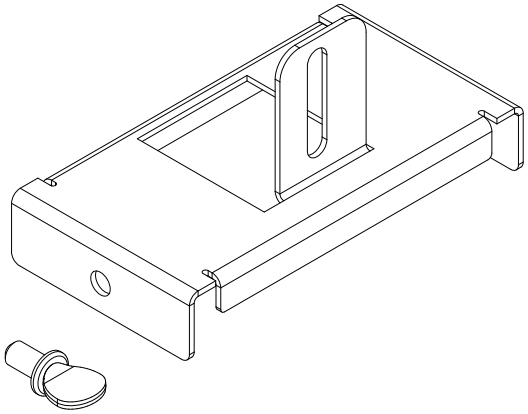
Joining Kit

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



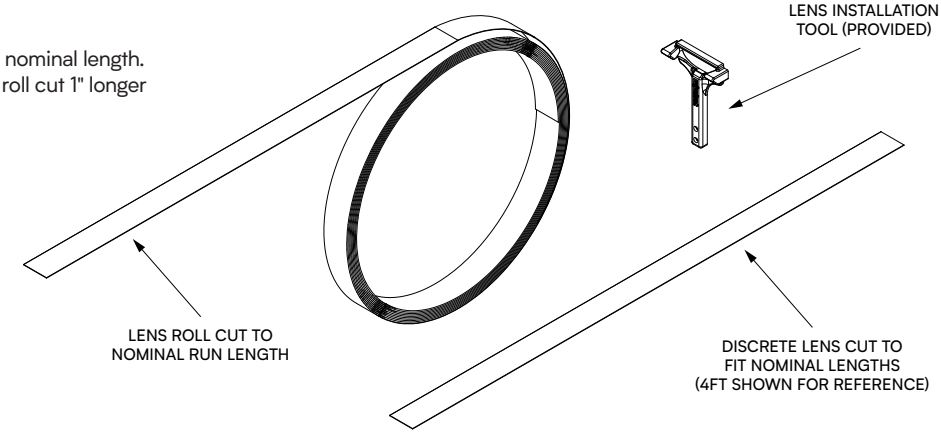
Mounting Kit

- 1 x T-Grid Mount Bracket
- 1 x 10-32 Thumb Screw



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.



Grid (GR)

Information

Contents

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 & Materials Required

Tools:

- Phillips Screw Driver
- Pliers
- Lens Installation Tool (provided)

Materials:

- Hanger wire (by others)
- #8 Sheet Metal Screws (by others)

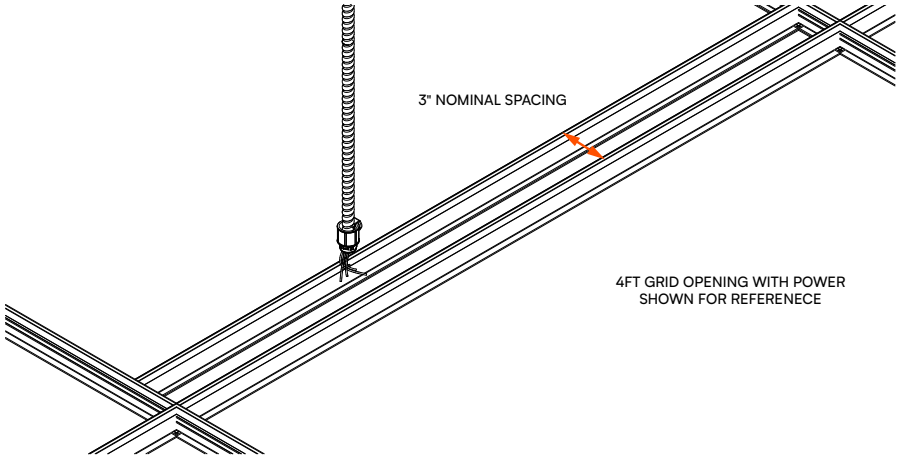
Safety Warnings

- **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

T-Grid Ceiling

Interspace is designed to fit in a nominal spacing of 3" (76.2 mm) opening of different grid types. Prepare ceiling grid as per layout drawings and plan locations for fixtures. Install power drops as per layout drawings. Remove adjacent ACT tiles to allow for access from above to complete installation Steps.



Grid (GR)

Installation Steps — Discrete

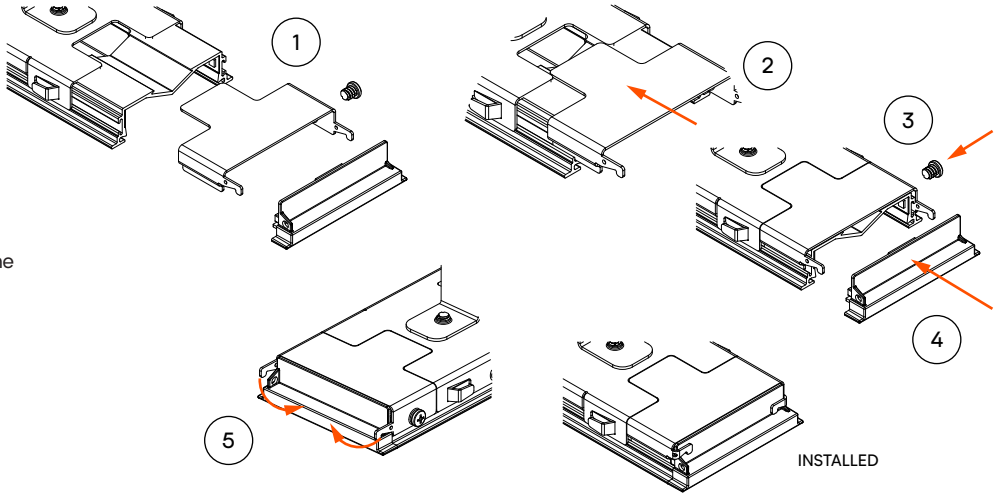
1 Place Boxes

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)

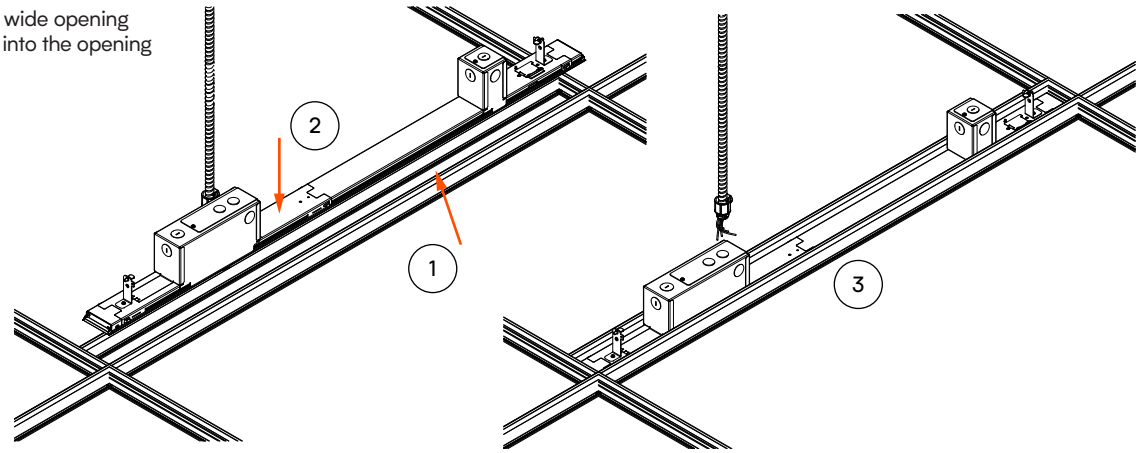
1. Gather endcap kit(s)
2. Install end cover onto extrusion.
3. Hand tighten with screw.
4. Install diecast endcap into end.
5. Secure in place by folding over tabs onto back face of diecast endcap.

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



3 Raise Fixture into T-Grid Opening

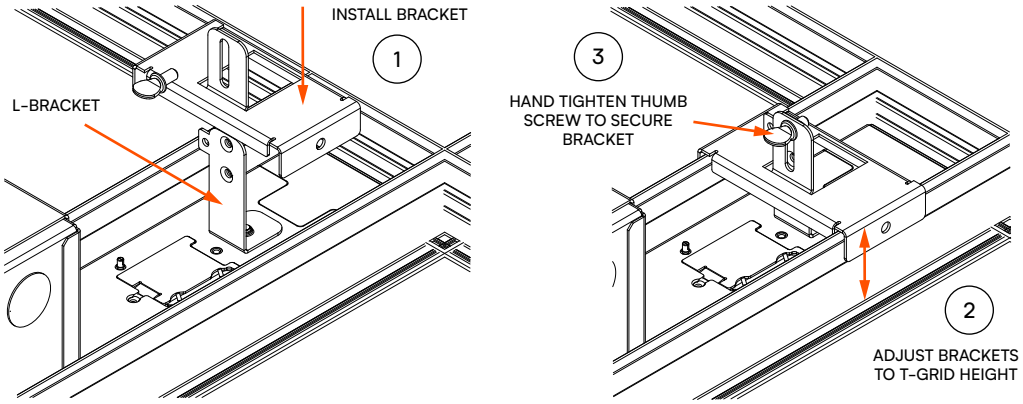
1. Raise fixture to T-Grid opening.
2. Pass through T-Grid system on the adjacent side.
3. Align fixture to 3" wide opening and lower fixture into the opening to rest in place.



Grid (GR)

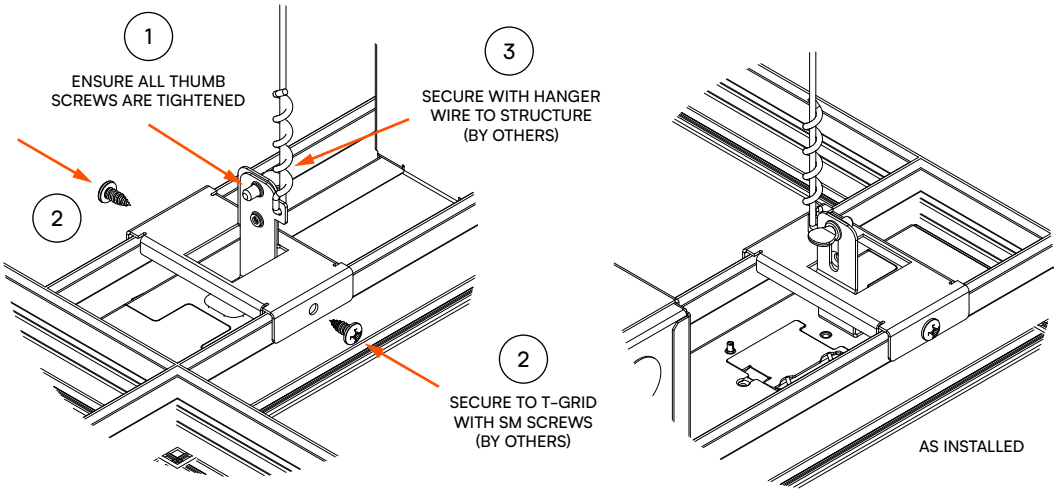
4 Install Grid Mount Brackets

1. Gather T-Grid mount bracket kit(s).
2. Install onto L-Bracket.
3. Adjust height and secure with thumb screw to L-Bracket.



5 Once Seated Secure Fixture in Place

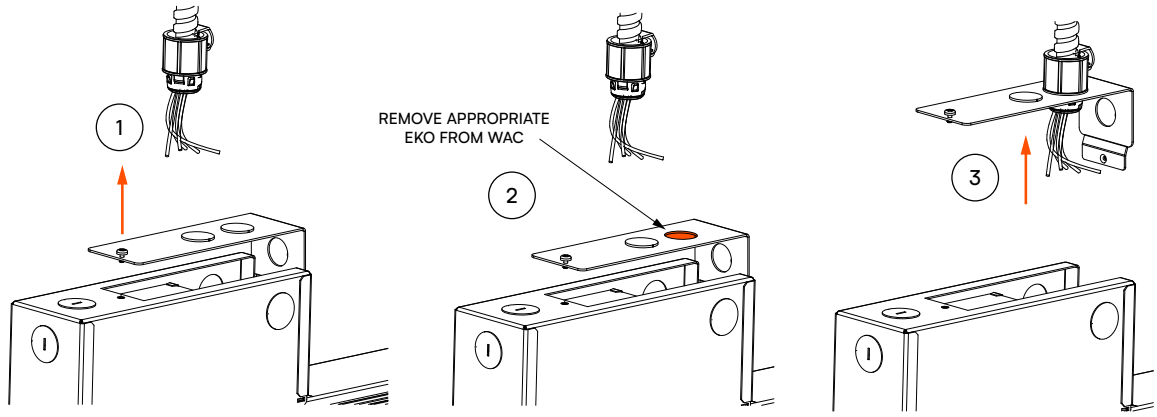
1. Ensure all thumb screws are tightened.
2. Secure bracket to T-Grid system with SM screw (by others).
3. Tie off bracket to structure with hanger wire (by others) as per local building and electrical codes.



Grid (GR)

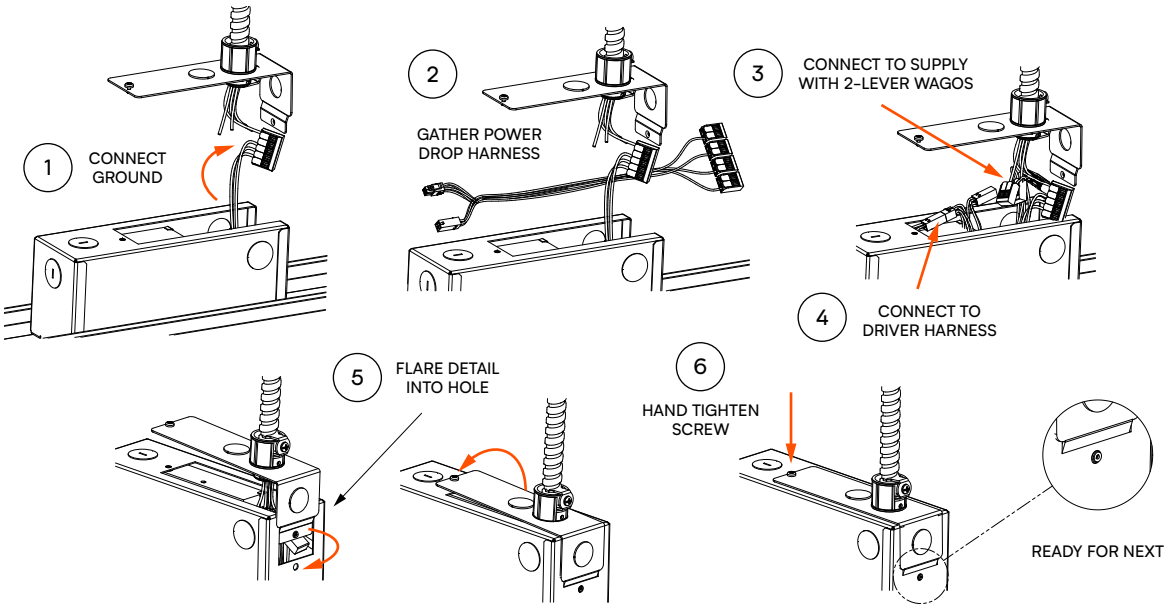
6 Prepare Power Connection

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)*.



7 Gather The Power Drop Kit And Complete Electrical Connections

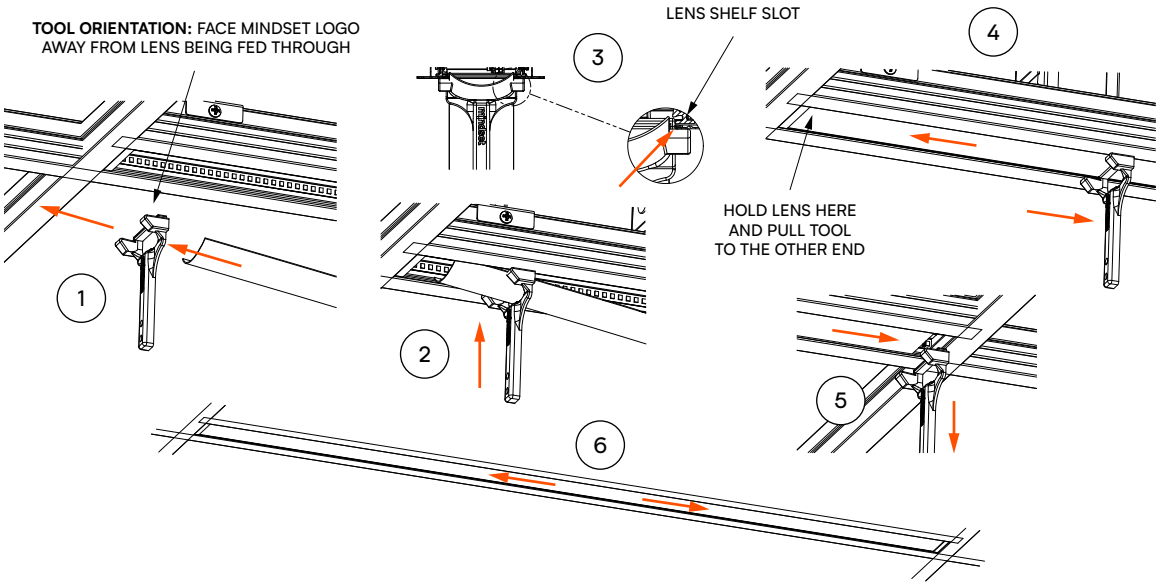
1. Gather ground wires from inside the driver box to connect ground wire to supply ground with provided 3 or 5-Lever WAGO.
2. Gather power drop harness.
3. Complete electrical connections to supply wires with provided 2-lever WAGOS.
4. Gather driver connector harness from inside driver box and connect to power drop harness connector.
5. Safely feed the connected wires into the driver box and reinstall the WAC.
6. Secure WAC to driver box with the screw.



Grid (GR)

8 Install Lens

1. Gather lens and lens installation tool. 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 image 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 and reinstall the ceiling tiles, finished.



Grid (GR)

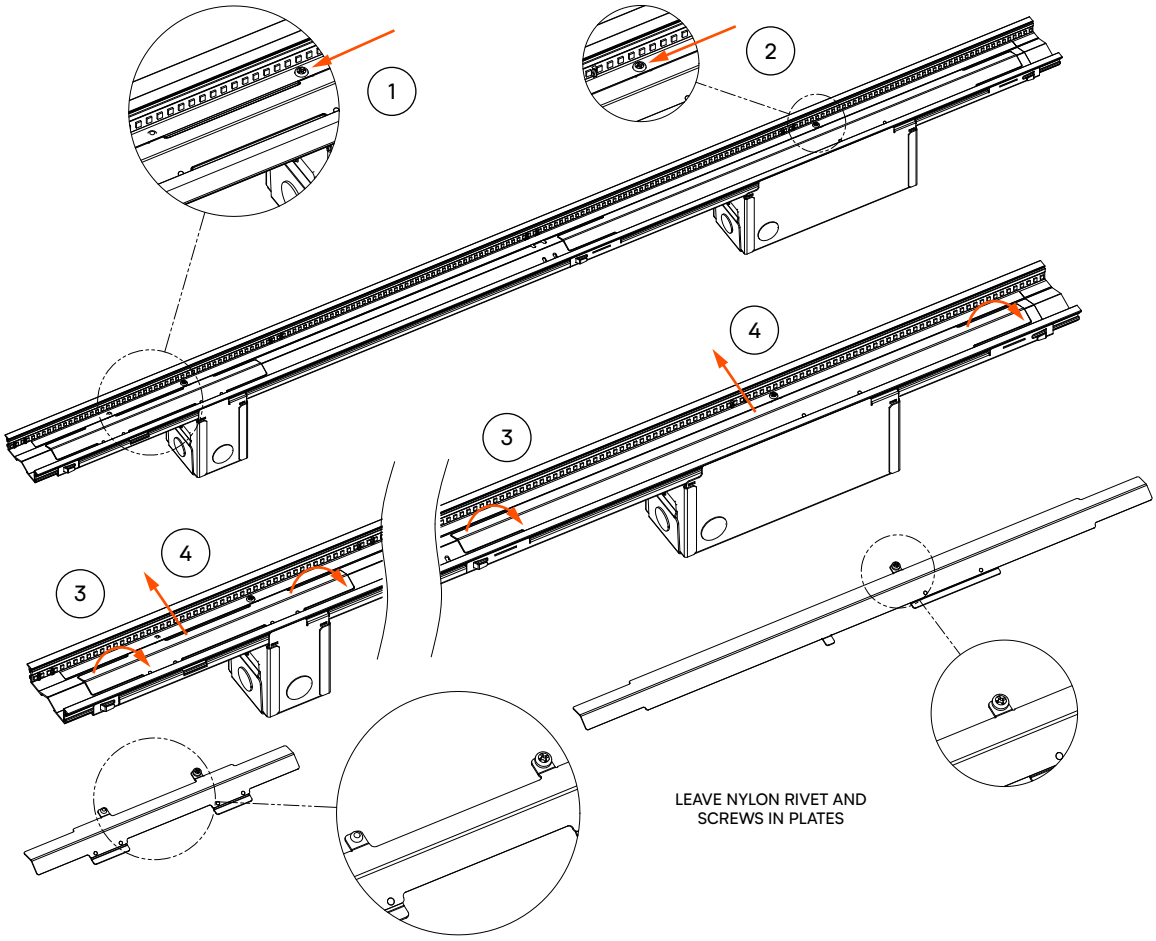
Installation Steps — Continuous Run

9 Starter Fixture for Continuous Run Installation

Repeat Steps 1 + 2 from discrete installation instructions (page 4). After completing Step 2, return to Step 10 to prepare continuous run fixtures for installation. **For runs with Adusted-Length fixtures (3V) in the run:** Return to Step 23 found on page 17 for further instructions.

10 Driver Box Access Plate + Jumper Box Access Plate Removal

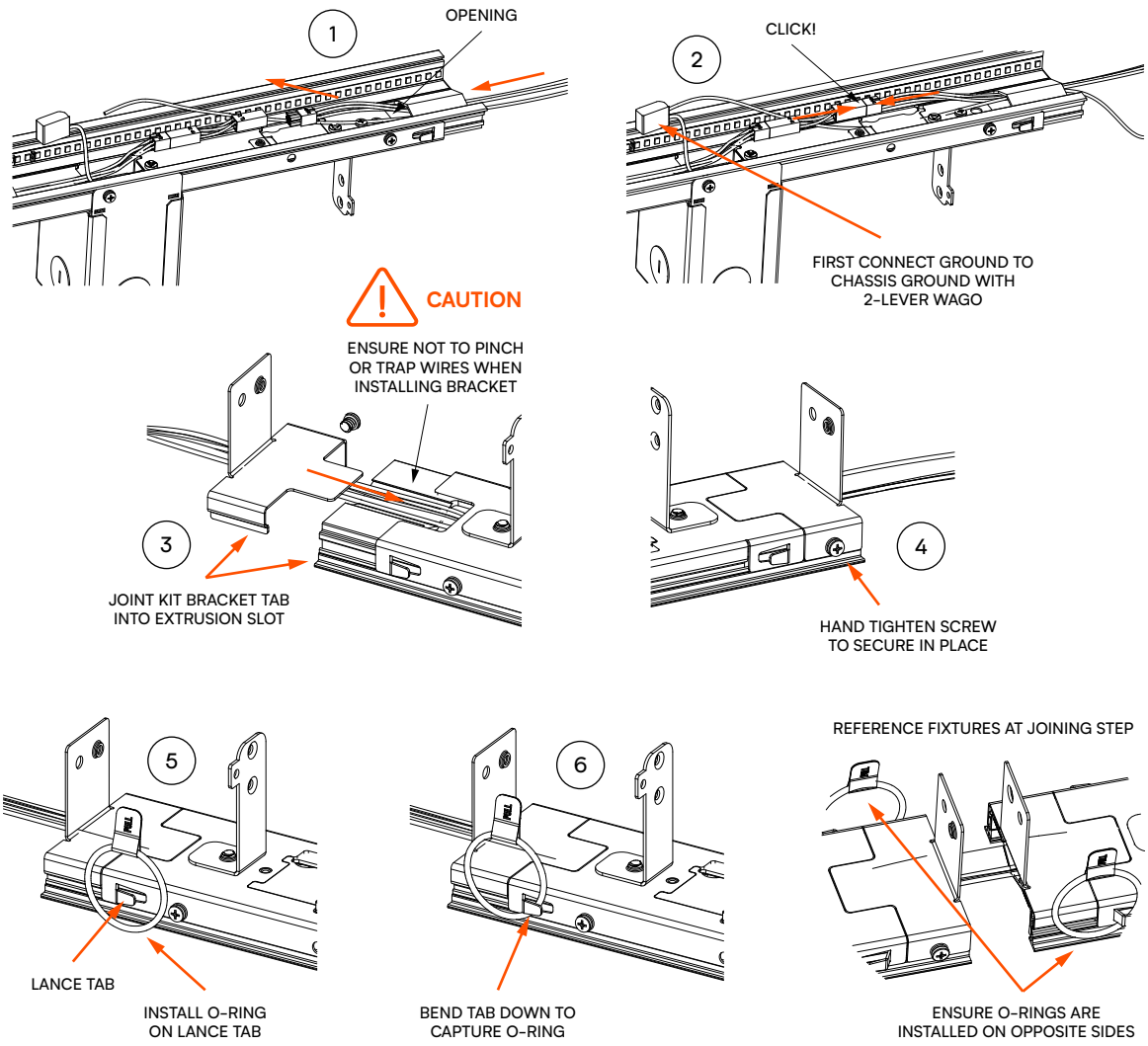
1. Turn the fixture over so the optical cavity faces up.
2. Use No. 2 philips screwdriver to remove the retention screw. **NOTE:** The retention screw is captive and will stay with the cover plate - there is no need to fully remove it. Do not remove the nylon rivet on the jumper access plate.
3. Once access plates are removed, the electrical cavity will become accessible. **NOTE:** Middle run fixture shown for reference, endcaps not installed.



Grid (GR)

11 Prepare Fixture for Installation

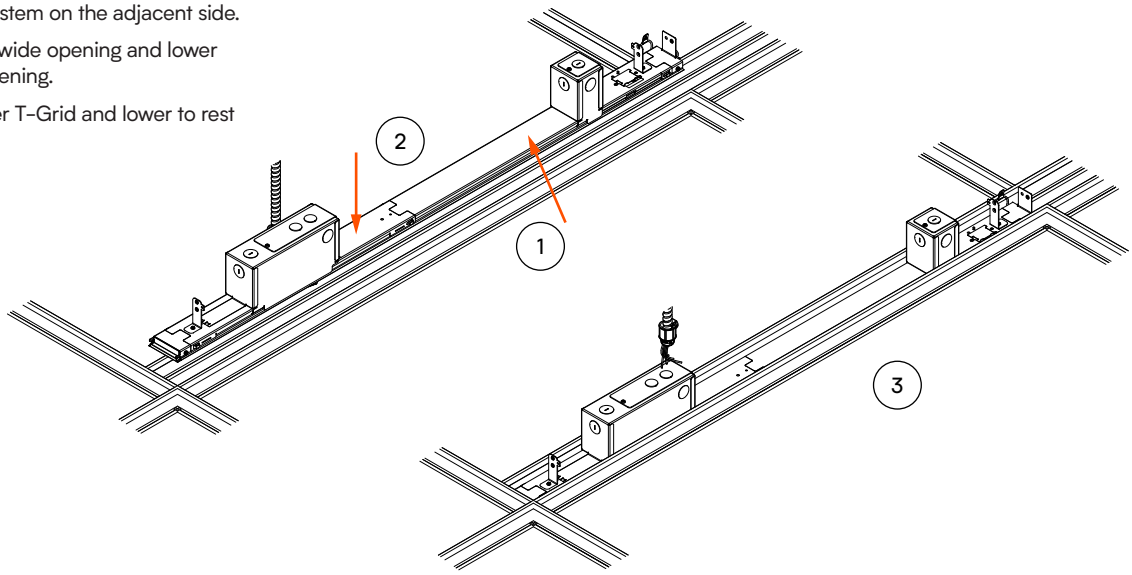
1. Feed ground wire and joint kit harness through the opening.
2. Connect ground wire with 2-lever WAGO (jumper box) or 3-lever WAGO (driver box) to chassis ground wire. Connect the joint kit harness to the connector in the driver or jumper box.
3. Turn the fixture over so the optical cavity is laying on the ground. Carefully install joint kit bracket on joining end of starter fixture.
4. Secure with provided screw to fixture.
5. Install an O-Ring on one of the lance tabs on the side of the fixture.
6. Bend down tab to capture O-Ring. **NOTE:** when preparing the next fixture in the run. Ensure to install the O-Ring so it is on the opposite side to complete the joining Steps (ref. Step 22 on Page 20)



Grid (GR)

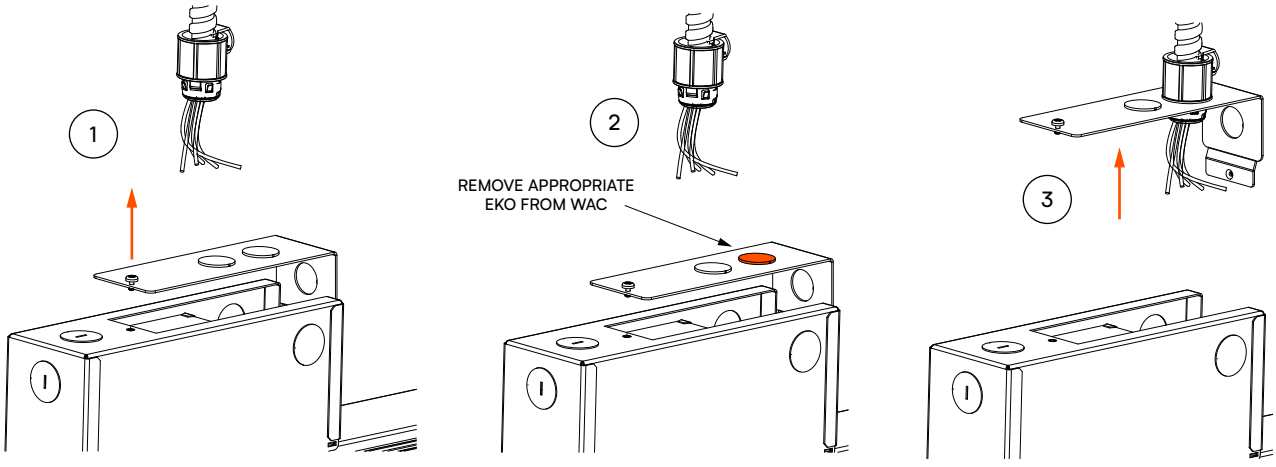
12 Raise Fixture into T-Grid Opening

1. Raise starter fixture to T-Grid opening, pass through T-Grid system on the adjacent side.
2. Align fixture to 3" wide opening and lower fixture into the opening.
3. Align brackets over T-Grid and lower to rest in place.



13 Prepare Power Connection

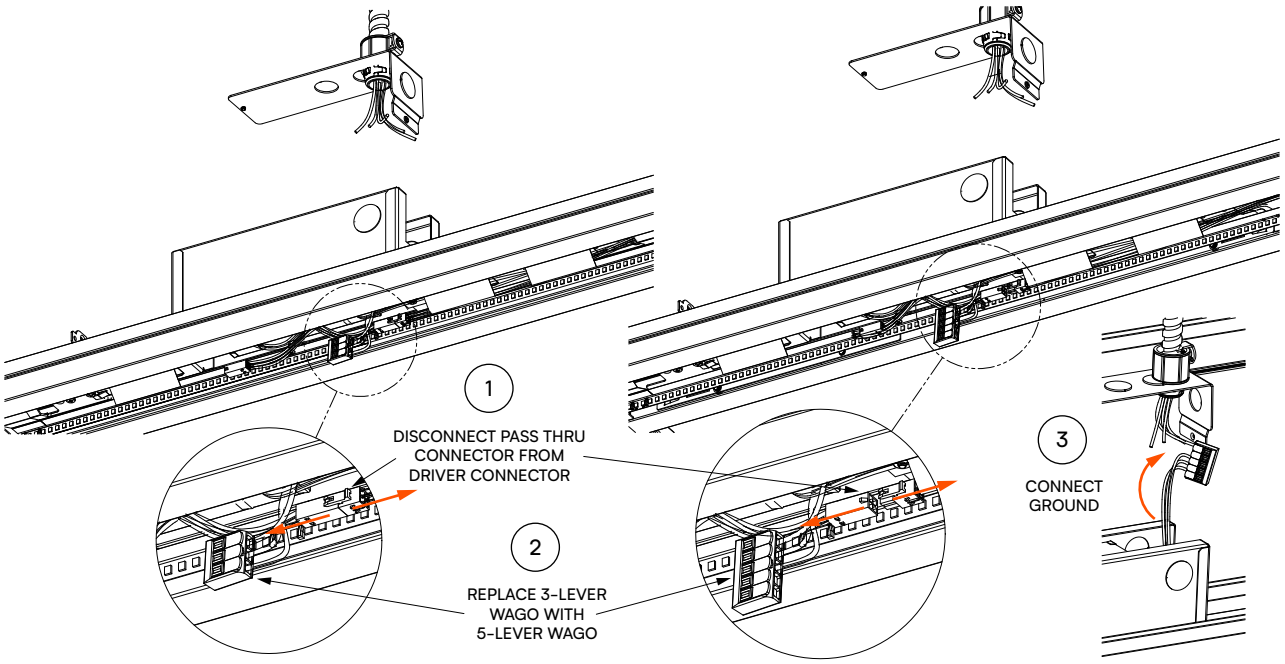
1. Loosen captive screw from driver box to remove wire access cover (WAC) from driver box.
2. Remove EKO from WAC.
3. Install WAC onto an armored cable *(quick connect shown for reference)*.



Grid (GR)

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

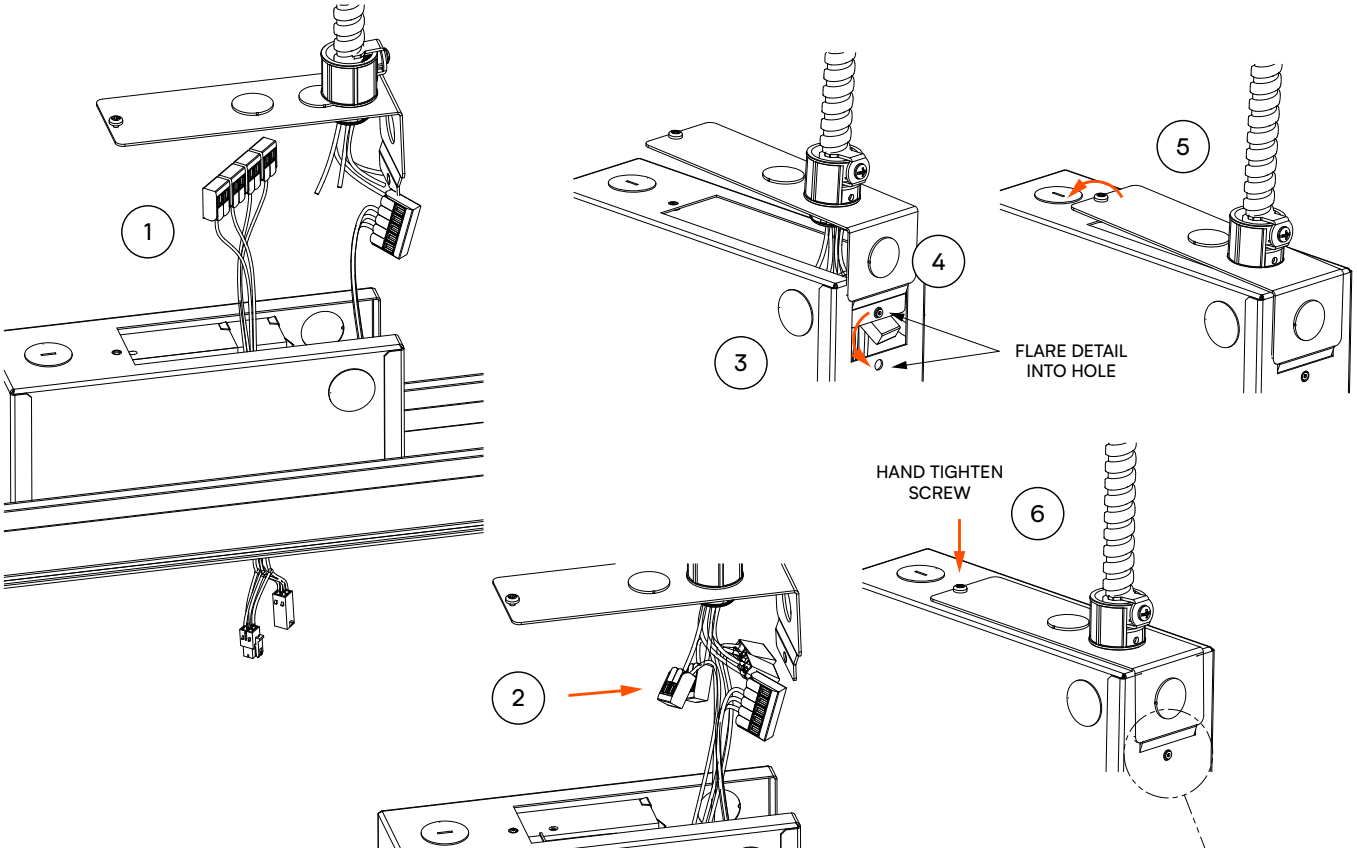
1. Disconnect the pass through connector from the driver connector harness.
2. Replace 3-Lever WAGO connecting the ground wires with provided 5-lever WAGO.
3. Pass ground wire WAGO up to supply ground to connect to supply ground first.



Grid (GR)

15 Connect Power Drop Harness Driver Box

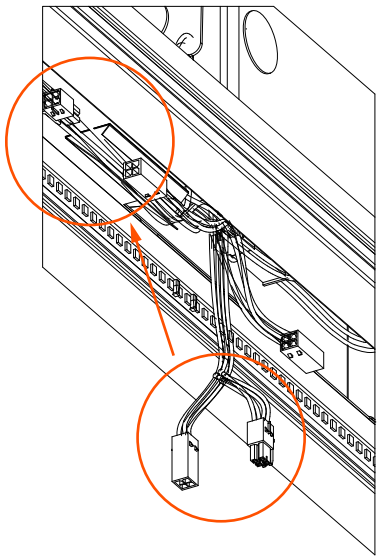
1. Pass the power drop harness through the driver box.
2. Connect the 2-Lever WAGOs to complete electrical connections to supply.
3. Safely feed the connected wires into the driver box and reinstall the WAC.
4. Install flare detail on WAC into hole on driver box.
5. Bring the WAC down to the box top.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



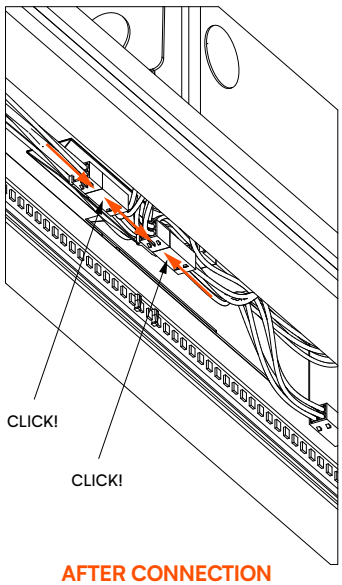
Grid (GR)

16 Connect Power Drop to Fixture Connectors – Driver Box

To complete the electrical connection, connect the power drop harness connectors between the pass-thru and driver connectors.



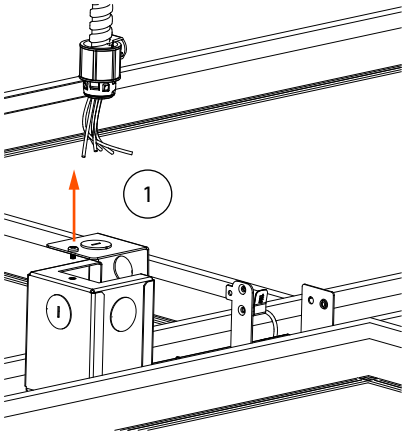
BEFORE CONNECTION

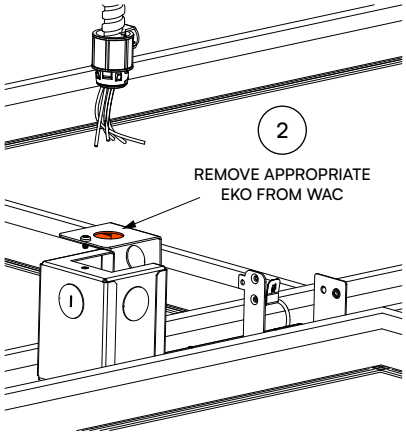


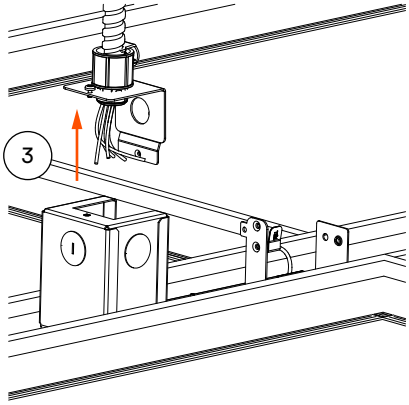
AFTER CONNECTION

17 Prepare Power Connection – Jumper Box

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).



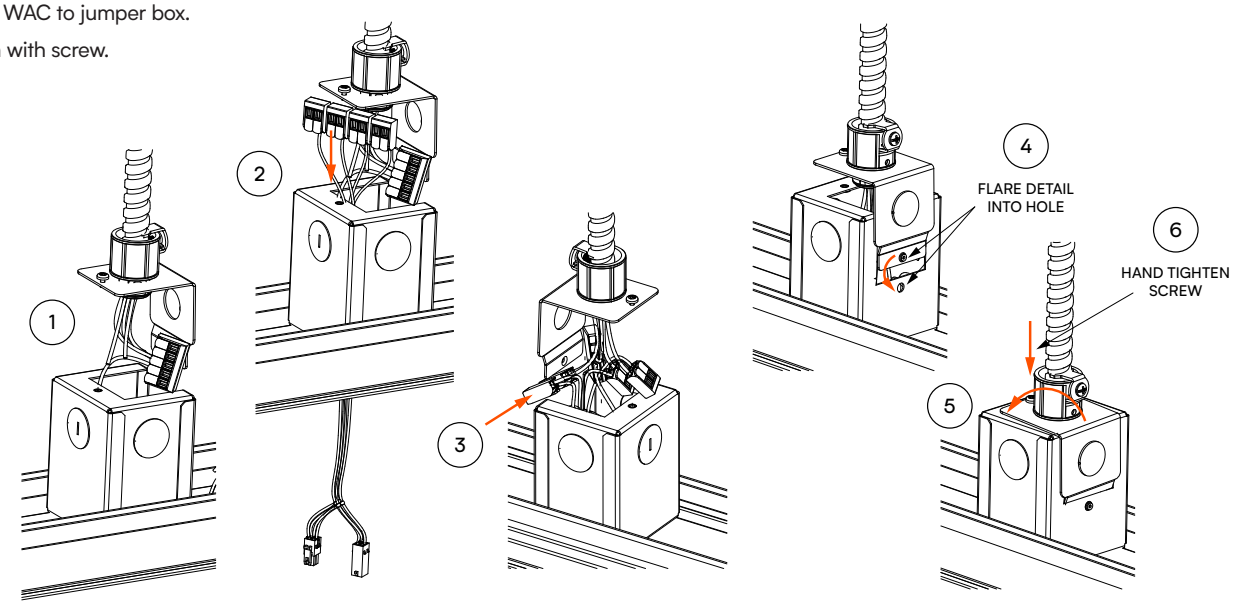




Grid (GR)

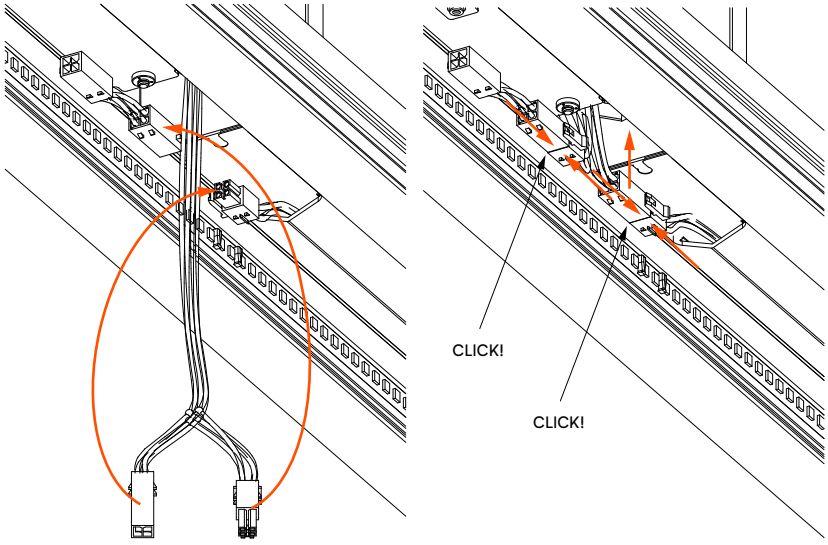
18 Gather the Power Drop Kit and Make Electrical Connection – Jumper Box

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 harness connectors between the pass-thru and jumper box connectors.



BEFORE CONNECTION AFTER CONNECTION

Grid (GR)

20 Prepare Next Fixture in Run for Connection

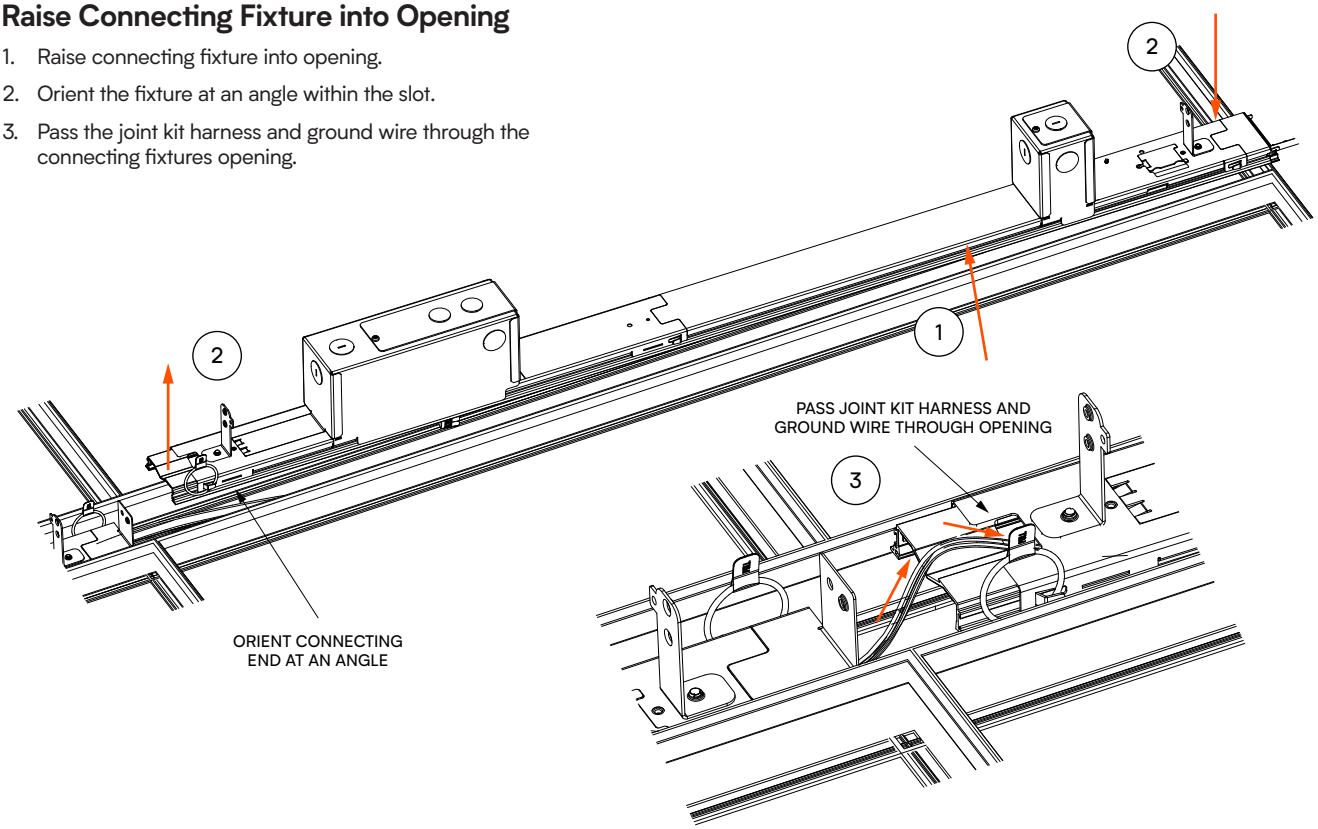
For the next non-adjusted-length fixture, repeat each step in Step 11 (Page 9) to join an additional fixture in a longer run.

For an end-of-run fixture, refer to end cap installation steps found in Step 2 of discrete installation Steps (Page 4) to install the endcap on the end fixture.

For Adjusted-Length fixtures, jump to Step 23 on Page 17 for further instructions.

21 Raise Connecting Fixture into Opening

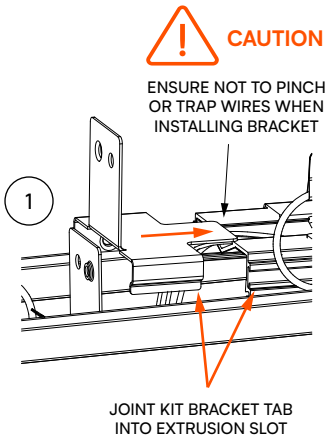
1. Raise connecting fixture into opening.
2. Orient the fixture at an angle within the slot.
3. Pass the joint kit harness and ground wire through the connecting fixtures opening.

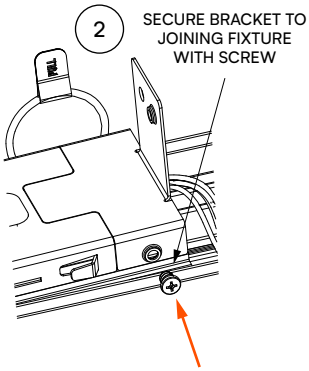


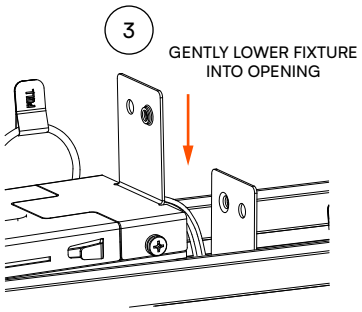
Grid (GR)

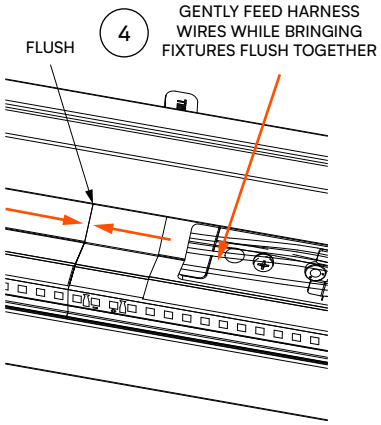
22 Complete Joining Steps

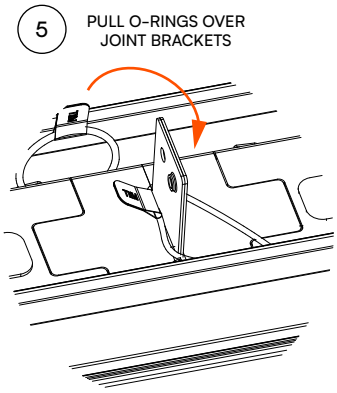
1. Carefully install the joint kit bracket onto the connecting fixture.
2. Secure with the screw.
3. Gently lower the fixture into the opening
4. Gently feed wires and bring fixtures together until flush.
5. Secure the brackets together by pulling the provided o-rings over the joint brackets to pull fixtures together.

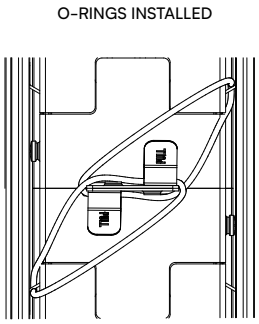












Grid (GR)

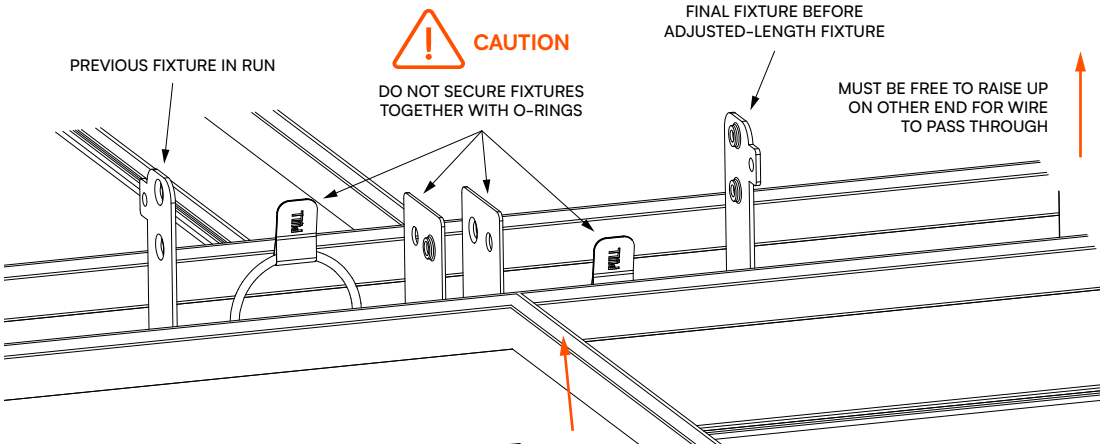
23 Adjusted-Length Fixture Joining

NOTE: The Adjusted-Length Fixture comes with the ground wire and connector harness installed from the factory.

IMPORTANT: Before preparing the Adjusted-Length Fixture, prepare the previous and final in-run fixtures—repeat Steps 1, 2, + 3 from within Step 22 on the previous page to do so.

The final fixture before the Adjusted-Length Fixture **MUST NOT** be secured to the previous fixture in the run with the o-rings. The final fixture before the Adjusted-Length Fixture is to be free so it can be raised up at an angle to complete the wire harness and ground wire pass-through coming from the Adjusted-Length Fixture.

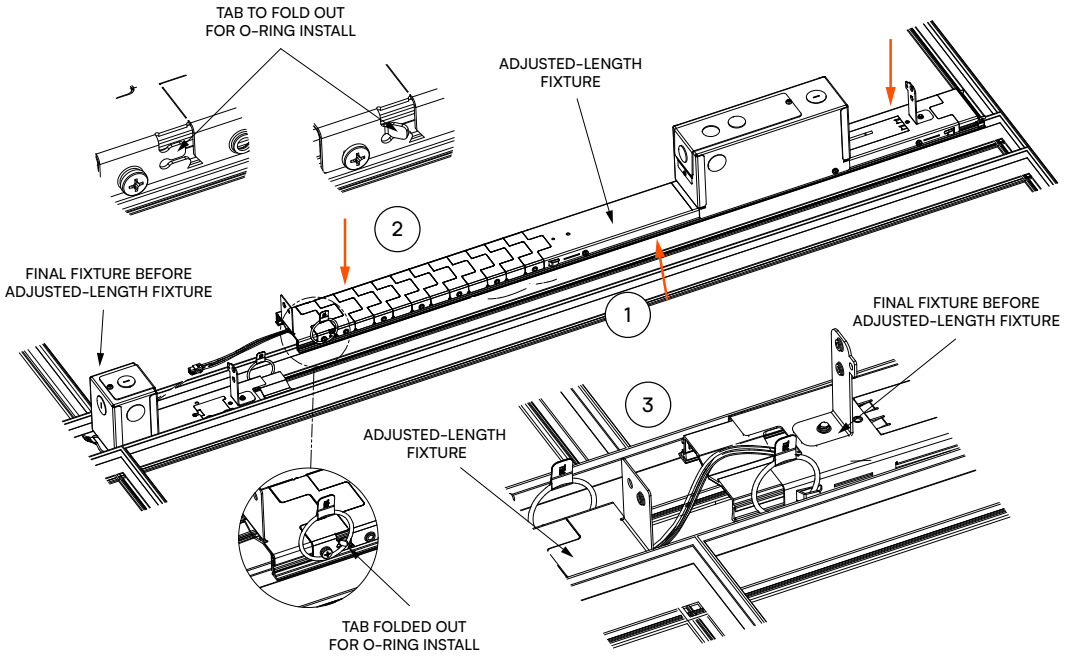
To allow the wires from the Adjusted-Length Fixture to be passed through, do not install a joint kit bracket on the end of the final fixture that is to be raised. Do not install joint kit and ground wire from joint kit in the final fixture before the Adjusted-Length Fixture.



Prepare and Install the Adjusted-Length Fixture:
To install the joint kit bracket to the Adjusted-Length Fixture, refer to Step 11 starting from Sub-Steps 3 + 4 on page 9. Notice there is no lance tab on the side of the Adjusted-Length Fixture, the tab must be bent outward to install the o-ring to it.

1. Raise the Adjusted-Length Fixture into the T-grid opening
2. Lower the Adjusted-Length Fixture into place
3. Raise the final fixture to pass the ground wire and connector harness wires from the Adjusted-Length Fixture through the final fixture opening

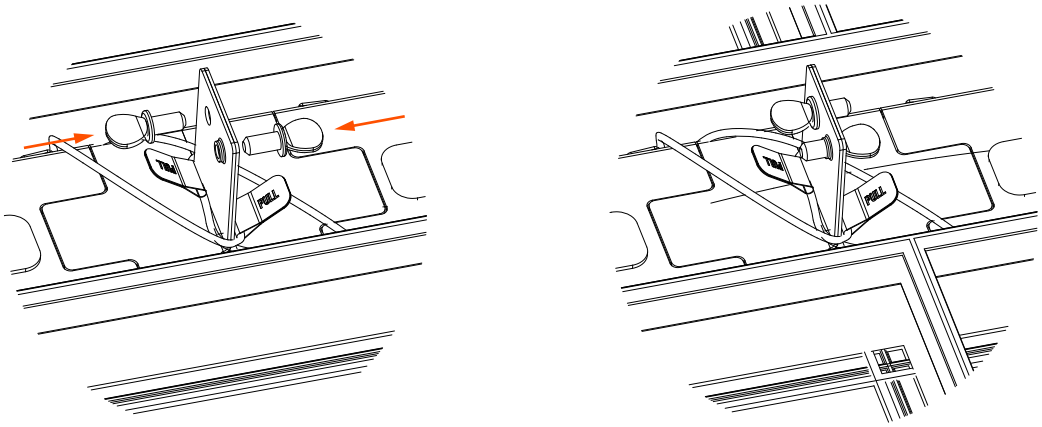
Once complete, go back to Step 22 on page 16, "Complete Joining Steps" for the previous, final, and Adjusted-Length Fixtures in the run sequence.



Grid (GR)

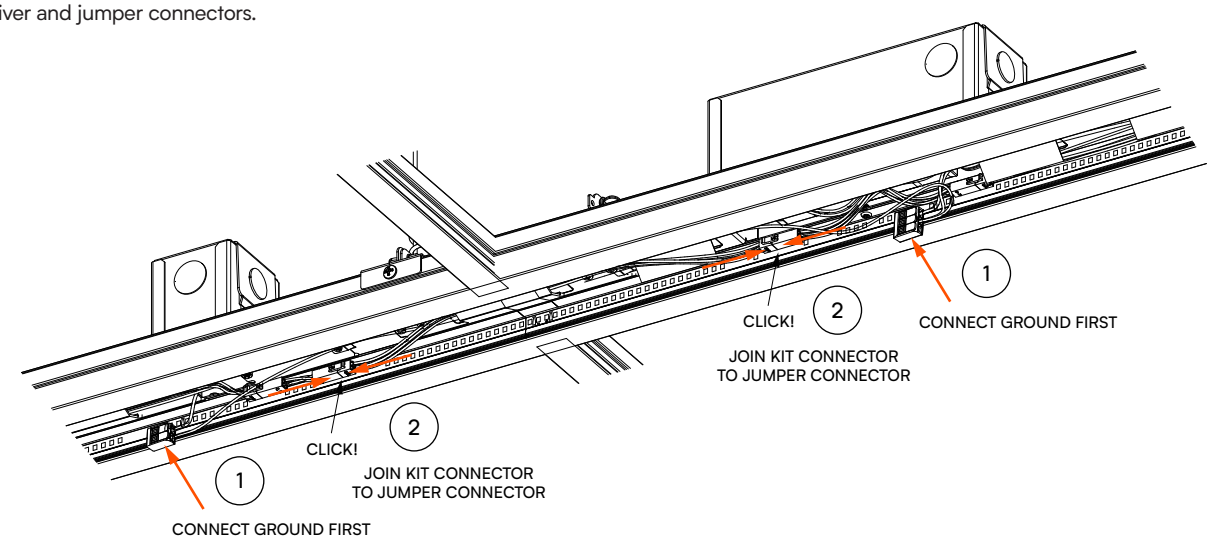
24 Center Run in Opening and Secure in Place

Ensure all fixtures are aligned and have a tight fit at the joints. Install the thumb screws on all joining kit brackets to secure fixtures together before installing the T-Grid mounting brackets. Refer to Steps 4 + 5 in Discrete Installation Steps (pg. 5) to secure the fixtures to the T-Grid.



25 Complete all Electrical Connections

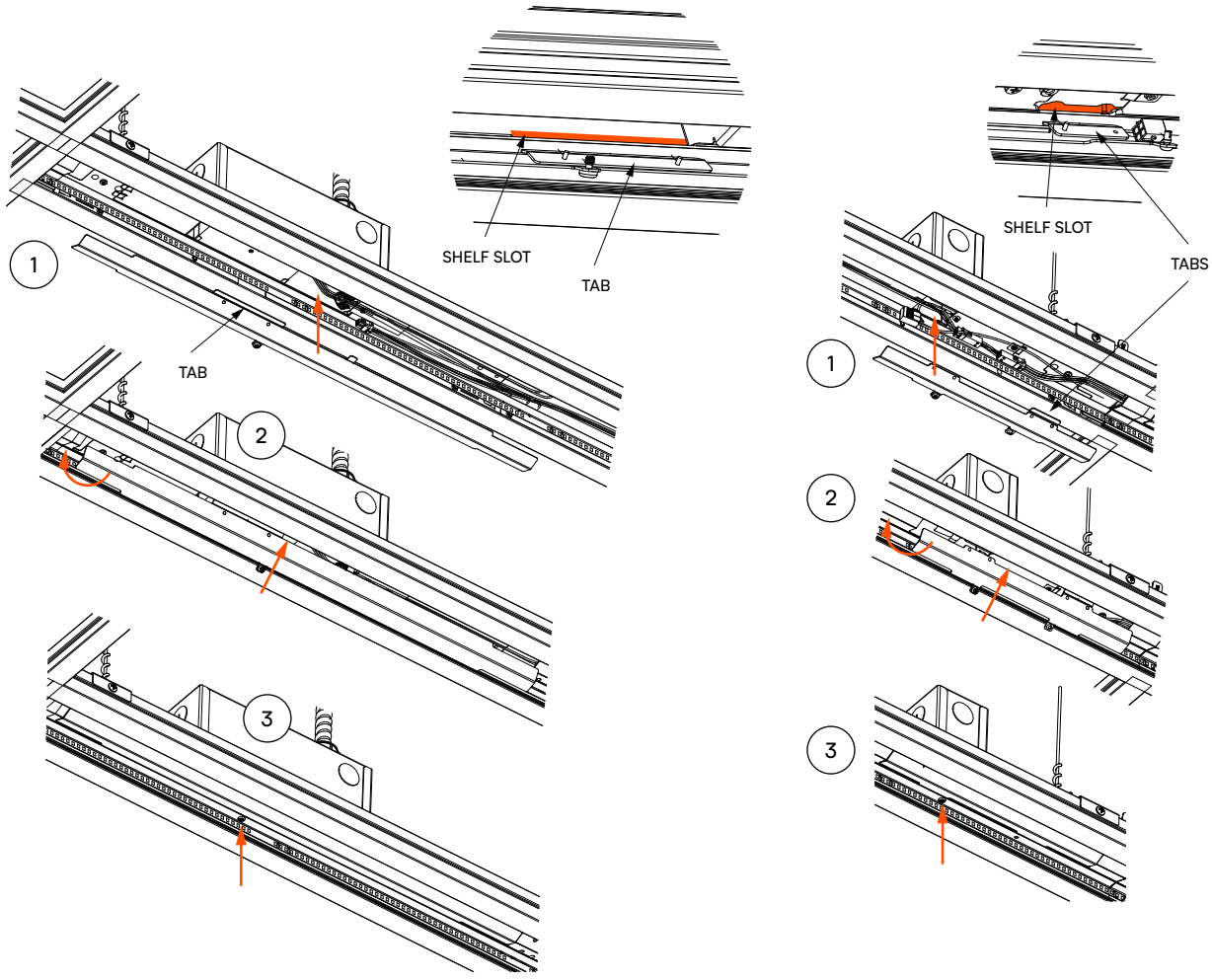
1. Connect ground wires first.
2. Connect jumper connector to driver and jumper connectors.



Grid (GR)

26 Reinstall Access Cover Plates

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

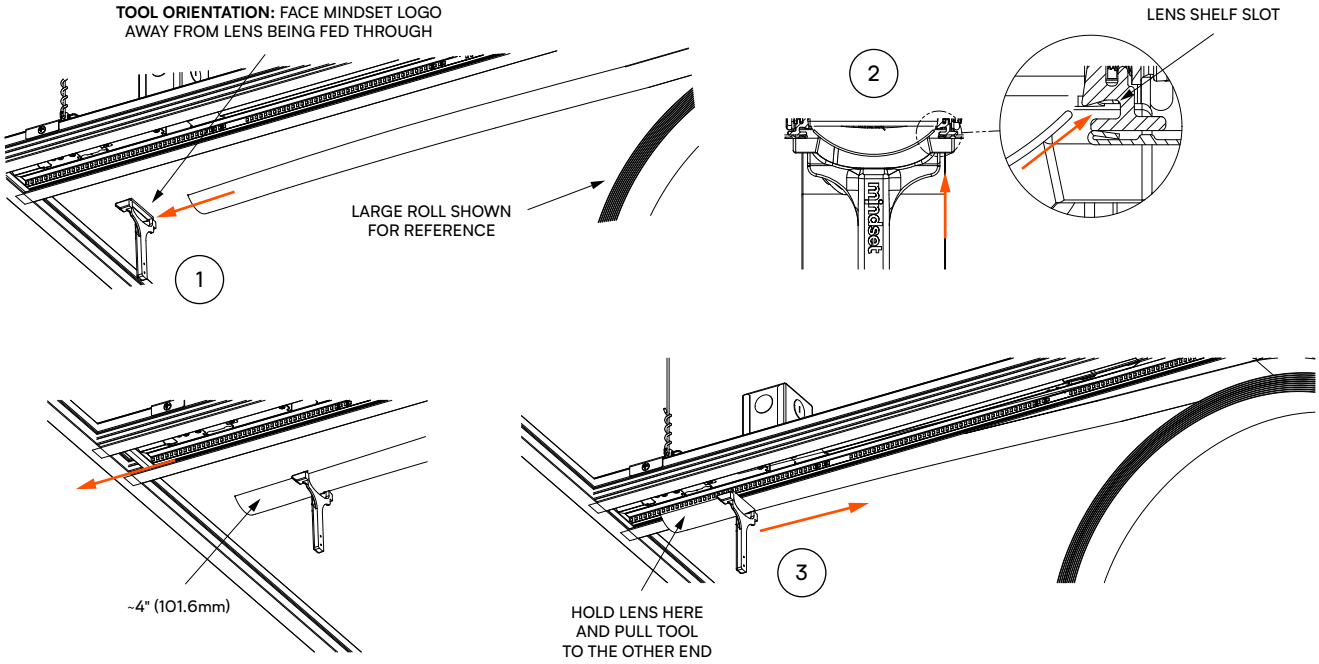


Grid (GR)

27 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 inches 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, stop ~1ft before you reach the end.



Grid (GR)

28 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 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. Use the utility knife to score along the line to create a snap line. Use the 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 replace ceiling tiles, finished.