

**Preliminary Steps to install InterSpace in a suspended ceiling grid version - to be moved into install template**

**Accessible ceiling type (T-grid style)**

Before installation of the fixture(s) the ceiling preparation steps must be used with the InterSpace discrete, and continuous run, and patterns installation instructions.

**Important:** Read all instructions including wiring and mechanical details before the start of the installation.

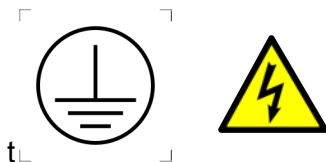
**Important:** Install in accordance with the local and national building and electrical codes.

**Note:** InterSpace fixtures are designed for installation post ceiling preparation completion







**Important:** Chicago plenum installations in non-accessable ceiling types, the driver box and jumper box are not to be adjusted. This will compromise the tape seams that are permanently sealed to comply with CCEA requirements. In grid installations the driver box is not required to be moved.

**WARNINGS:**

- **Shock hazard!** Fixtures must be connected to building ground via provided ground wire before connecting to main supply power.

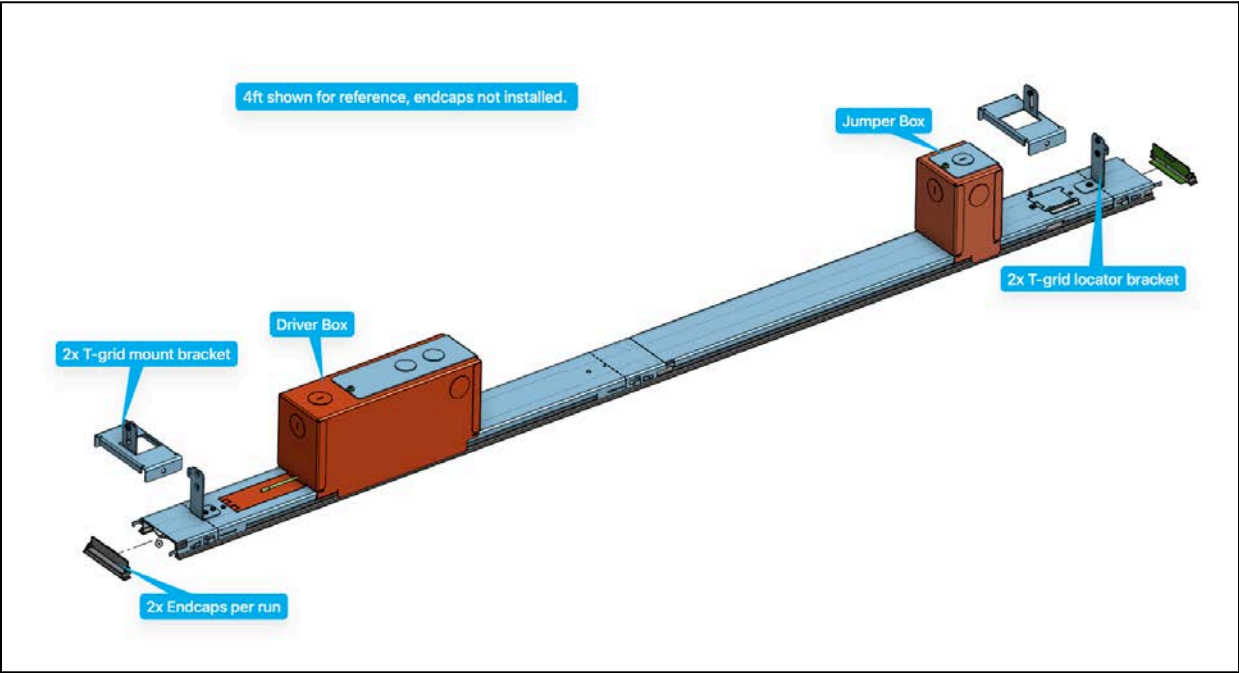


- Disconnect or turn off power supply before attempting any installation maintenance or servicing operations.(example of draft installation documentation warning section)

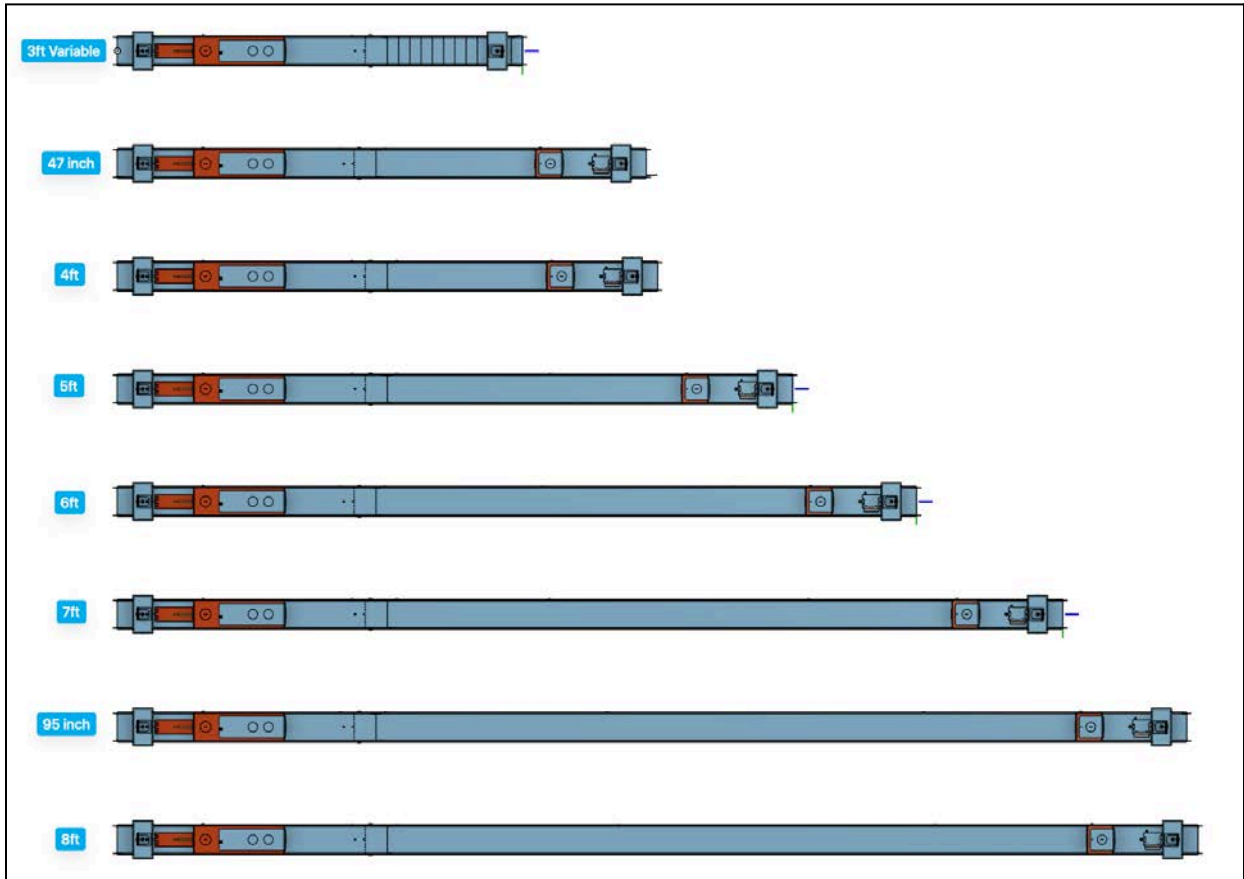
<b>IMPORTANT</b> <i>Read before starting installation:</i>			
 <b>WARNING! SHOCK HAZARD!</b> Disconnect and turn off power before starting any installation, maintenance, or service of the product.	 <b>Power label location</b> The power label can be found on the top of the indirect channel. Beside the optical lens.	 <b>Power feed location</b> The power feed locations are at the ends of the luminaires.	 <b>Installation note:</b> The power feed locations are at the ends of the luminaires only.
 <b>WARNING! SHOCK HAZARD!</b> Luminaire must be connected to the building ground with the provided ground wire before re-connecting to main power supply.	 <b>POWER LABEL</b>		
<b>ATTENTION:</b> Install in accordance with local and national electrical and building codes.			

**System Overview:**

Each fixture is modular by design. There are no end or mid runs with exception to continuous run lengths outside of the nominal 4ft lengths e.g. 4ft-7in or 9ft-10in.



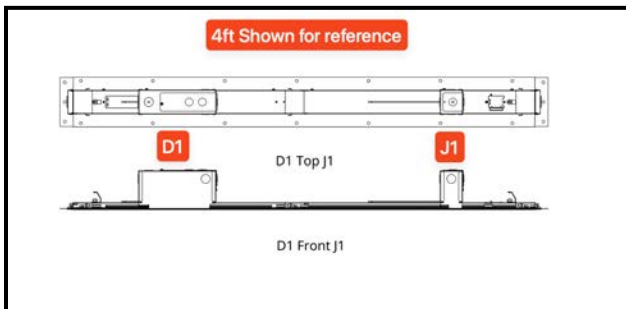
The fixture comes in the following nominal lengths: 3ft Variable, 47 inch, 4ft, 5ft, 6ft, 7ft, 95 inch, and 8ft Nominal without endcaps installed.



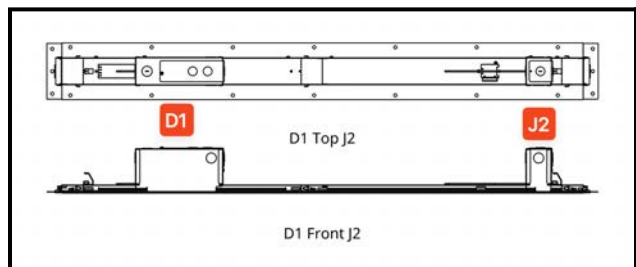
Driver box and jumper box positioning is adjustable. There are four adjustable positions for the driver and two adjustable positions for the jumper box. Allowing for 8 combinations for adjusting the positions of the driver and jumper to avoid a common 16" ceiling stud spacing. In a grid ceiling adjustments should not be necessary.

Steps to follow on adjustments are found at near the end of the installation instructions under: **“STEPS TO MOVE DRIVER BOX AND JUMPER BOX AND STEP TO MOVE GRIPPER TO AVOID STUDS.”**

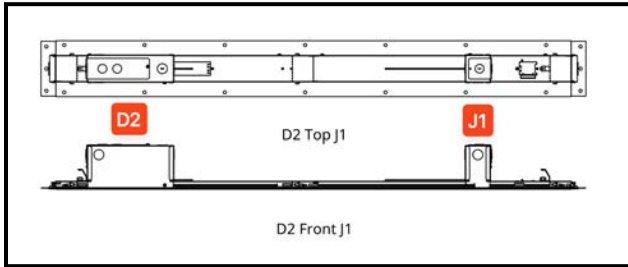
POSITION 1: D1-J1 (DEFAULT POSITION)



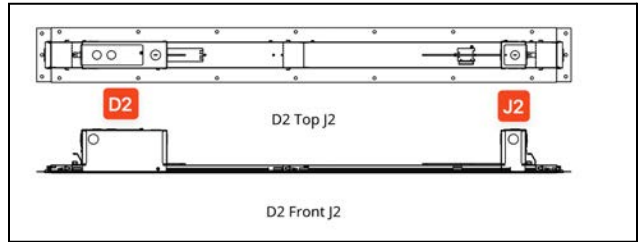
POSITION 5: D1-J2



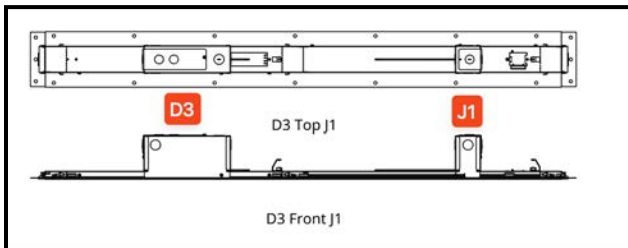
POSITION 2: D2-J1



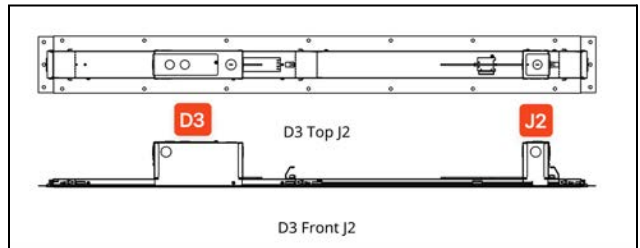
POSITION 6: D2-J2



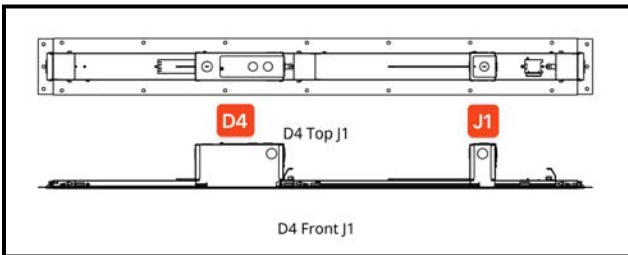
POSITION 3: D3-J1



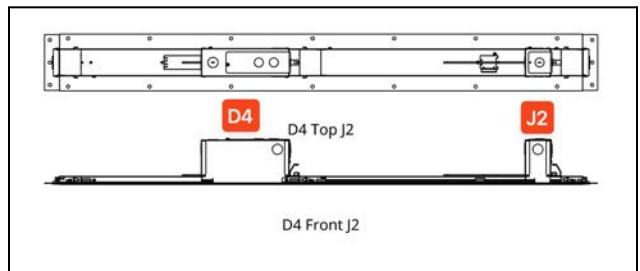
POSITION 7: D3-J2



POSITION 4: D4-J1



POSITION 8: D4-J2

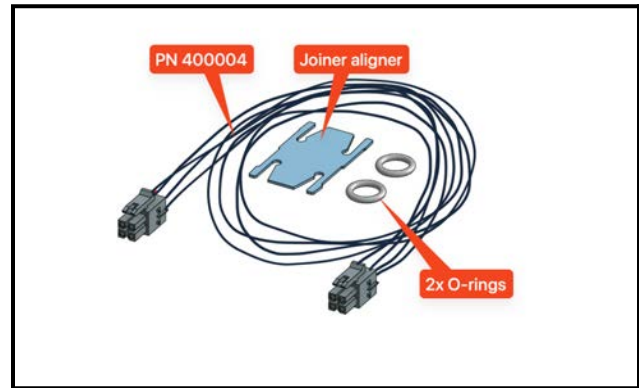


*Mounting & Joining Hardware*

### Grid Mounting Kit

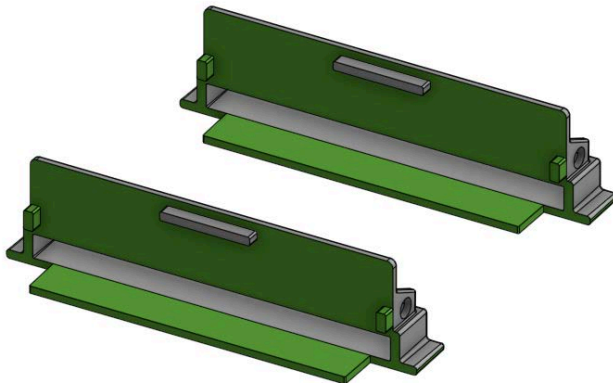


### Joining Kit



### Endcap Kit

### 2x Endcaps

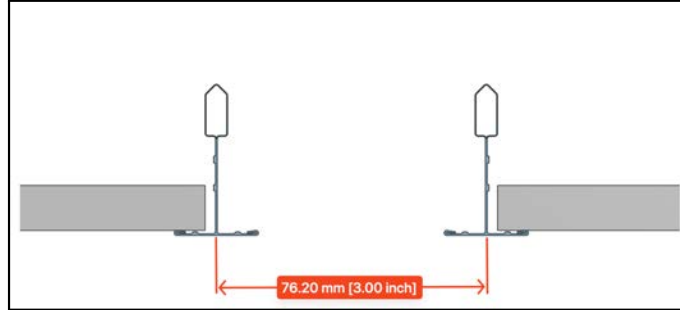


### Ceiling preparation for Standalone fixtures.

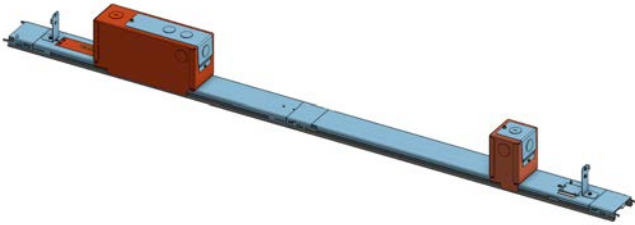
- Identify fixture location(s) and match up the fixture tags as per layout drawings for appropriate locations in the ceiling.
- Determine locations for power connection as per layout drawings.
- Install power feed connections and rest below ceiling for access during power connection steps to fixture(s).

### Grid Spacing Information:

- Install main tees, 3.00 inch on center. For continuous row lengths, install as per the provided layout drawings. Position and secure the cross tees at the location indicated on the layout drawing at the nominal length of the run.



1. Prepare the starter fixture. Open packaging and remove fixtures from packaging. Lay fixture on ground optical cavity face down.

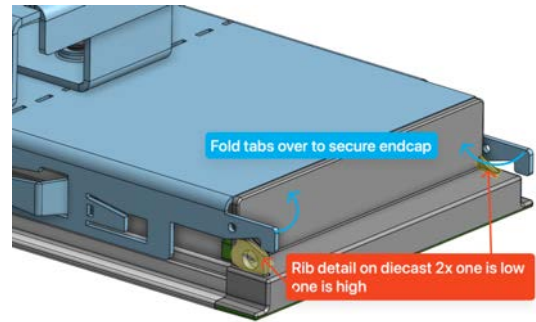
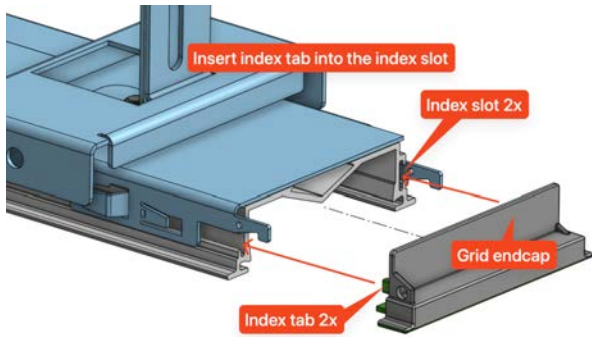


2. Next locate the endcap kits for the next step.



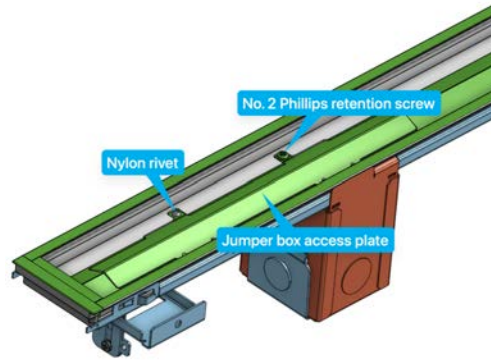
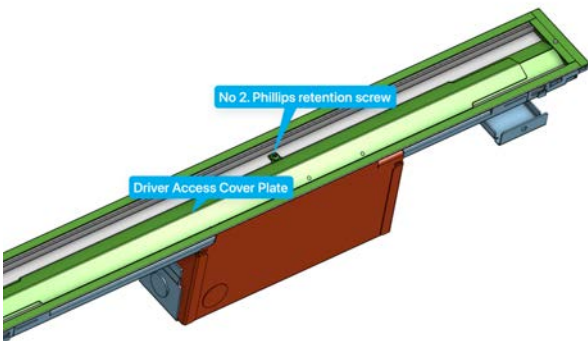
3. Unpackage the endcaps and install both if standalone. For continuous run install the end you are to start with. Recommend to start on the driver box end.

4. Fold over securing tabs on sheet metal top over ribs on diecast endcap.



5. Turn the fixture over to gain access to the driver access plate found in the optical cavity.

6. On the opposite end you will find the access cover plate for the jumper box cavity.



**Driver Box access plate:**

Standalone: Only remove this cover plate if power is to be connected at the driver connection end. Use NO 2, philips screw driver to remove retention screw (Note: the retention screw is a captive screw no need to remove fully it will stay with the cover plate).  
Continuous run:

**Jumper Box access plate.**

Standalone: Only remove this cover plate if power is to be connected at jumper connection end. Use NO 2, philips screw driver to remove retention screw. (Note: the retention screw is a captive screw no need to remove fully it will stay with the cover plate).  
 Nylon push rivet can be disengaged by pushing from the other side. Push rivets do not need to be

Each fixture will require this access plate to be removed to make power connection to the connecting fixture in the run.

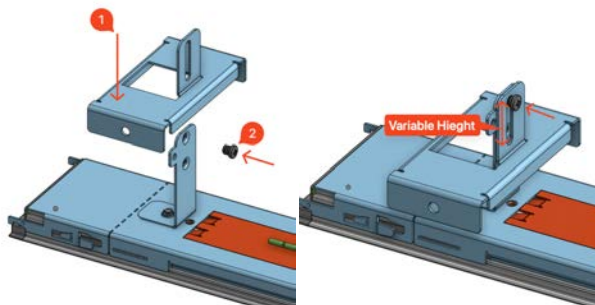
*Note: with the exception of the end conditions this plate may not need to be removed.*

removed from the access plate.

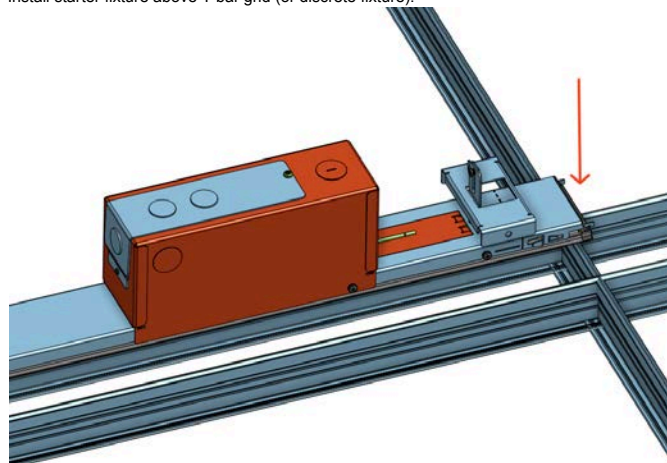
Continuous run: Each fixture will require this access plate to be removed to make power connection to the connecting fixture in the run.

*Note: with the exception of the end conditions this plate may not need to be removed.*

7. Once the appropriate access plates are removed, turn the fixture over to install the mount bracket(s) to the L bracket(s) secured to the L bracket on both sides. Do not fully tighten to allow for T-grid height variability.



9. Install starter fixture above T-bar grid (or discrete fixture).

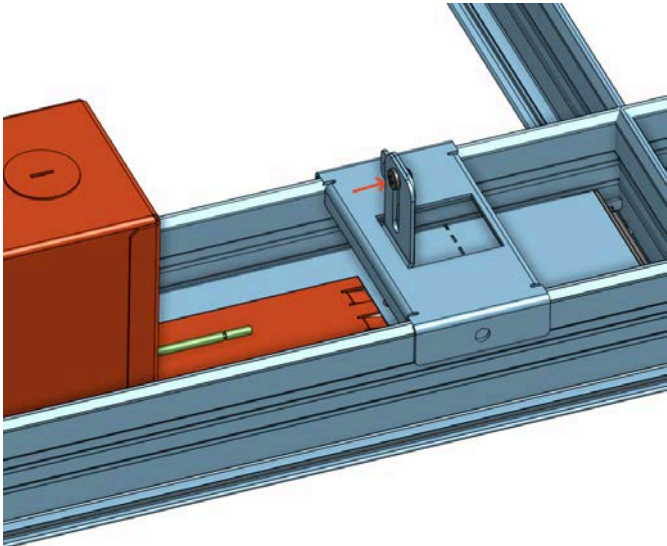


10. For standalone hand tighten grid bracket to L-bracket. move to securing fixture step 18. For continuous run fixtures prepare the fixture for joining to the next in the run.

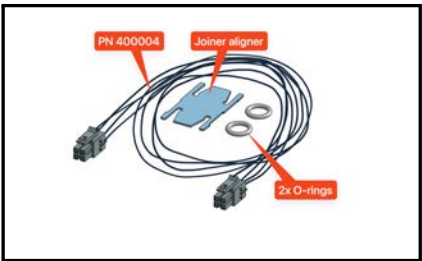
10. The joining fixture you must raise the sheet metal top cover to install the joiner kit components.

Joiner Kit

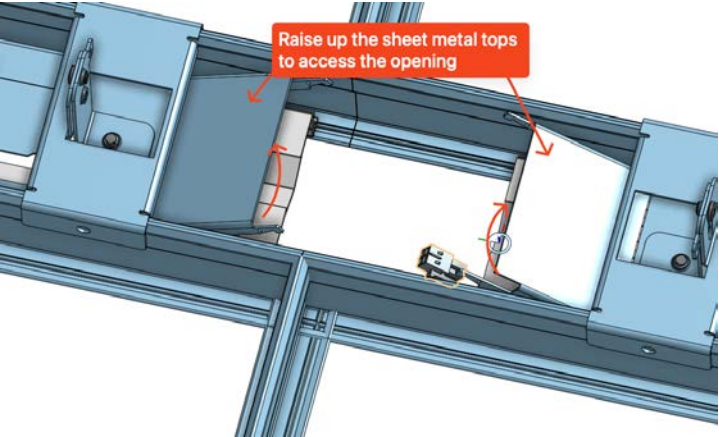




11.

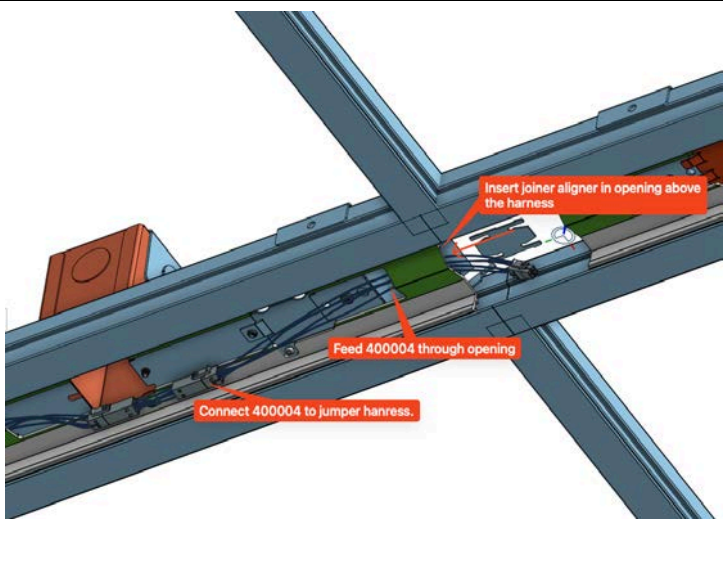


Raise tops

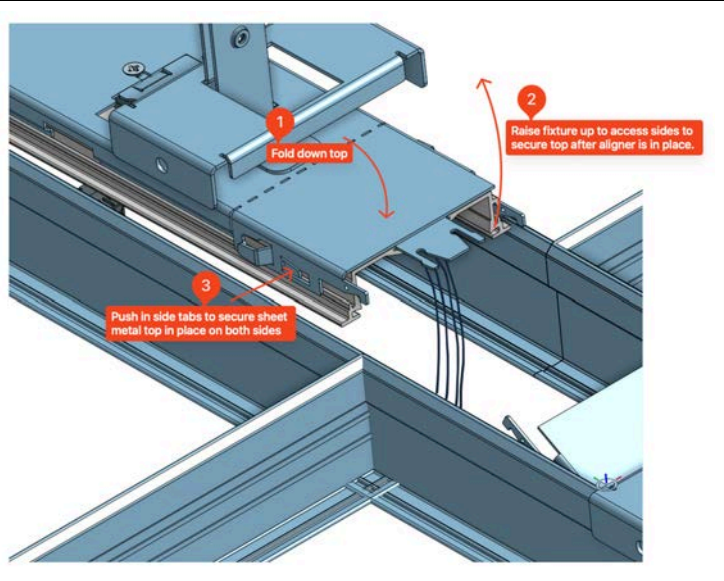


11. Feed the harness 400004 through the opening and connect to the harness in the jumper box.

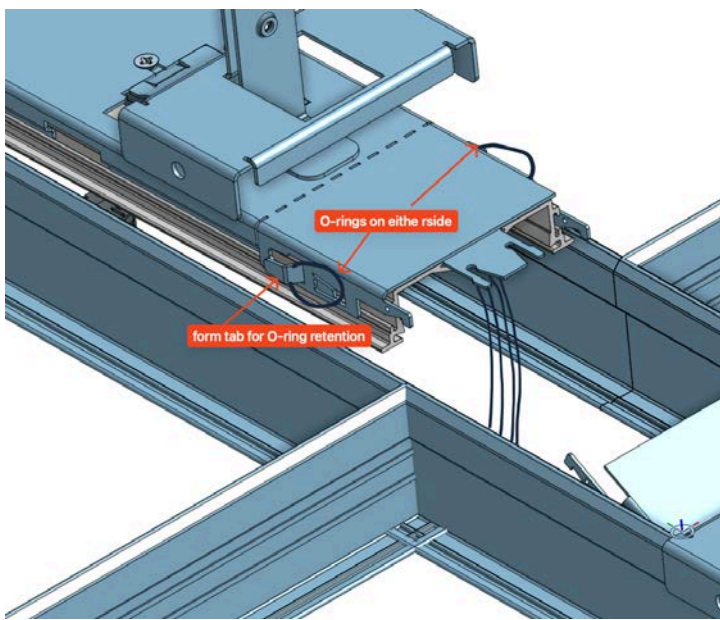
12. Ensure Aligner is seated above the wires and not pinching any. The harness should be free to move to the joining fixture. Secure sheet metal top.



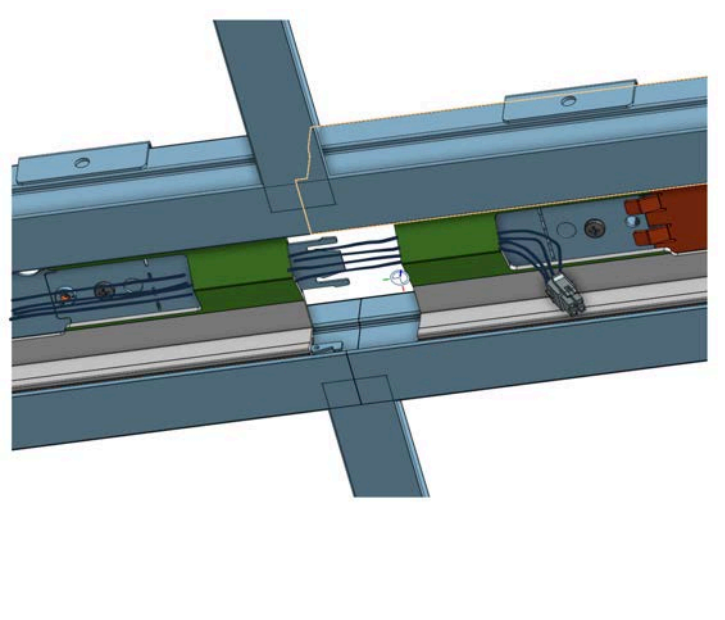
13. Install o-rings to on either side of the sheet metal top after it is secure.



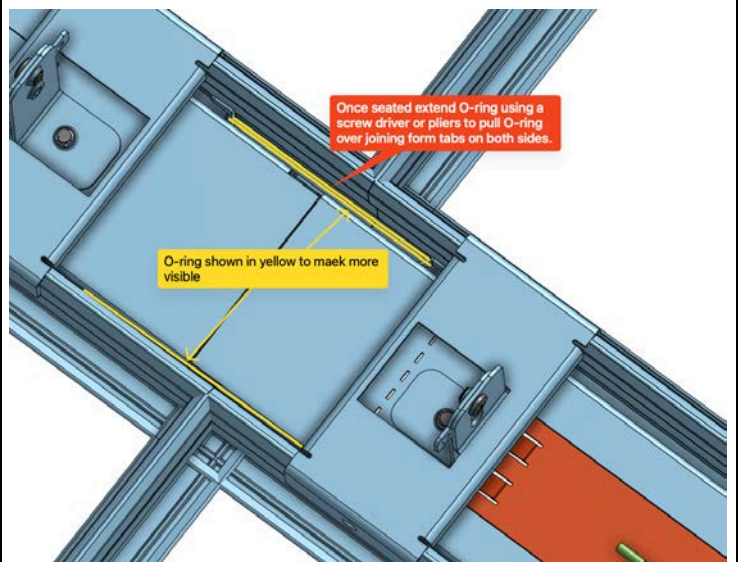
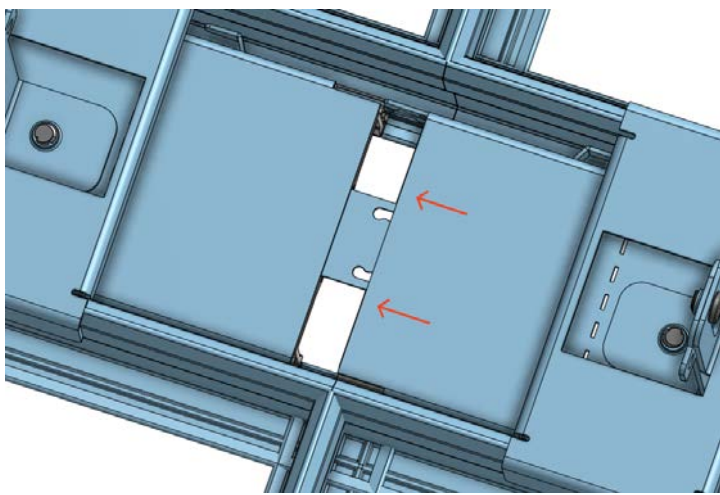
14. Lay the starter fixture back down and feed harness through next fixture opening.



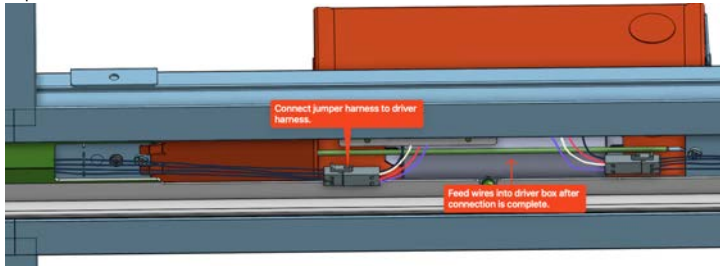
15. Raise joining fixture to access side tabs to secure sheet metal top see step 12. Bring fixtures together and feed the joiner aligner to sit above harness wires.



16. Secure O-rings on both sides using a screw driver or needle nose pliers to pull over form tabs on joining fixture.



17. Connect jumper harness to driver box connector harness. Feed wires into driver box cavity. Repeat steps 10-17 to connect more fixtures in the run. If at end fixture move to power connection steps.



19. For each power drop location required you must install the power drop harness in between the harnesses at the driver box or jumper box.

18. Make Electrical Connections to Supply.



**WARNING: SHOCK HAZARD! Ensure supply power is off.**



**Make Ground Connection First (Driver Box End)**

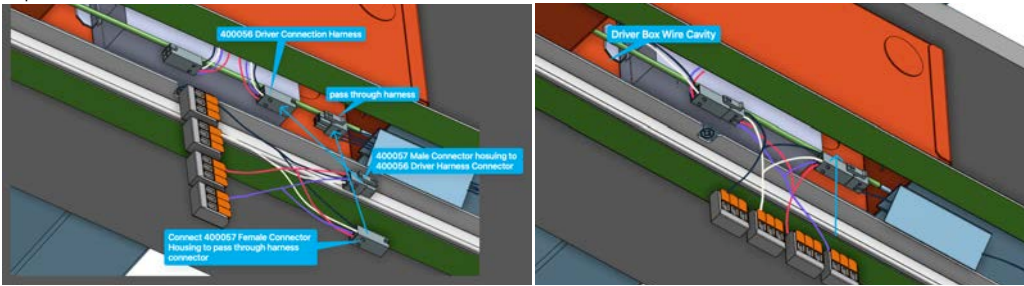
Wiring connections:

Green: Ground Wire (Ground Wire on terminal ring connected to to driver box)

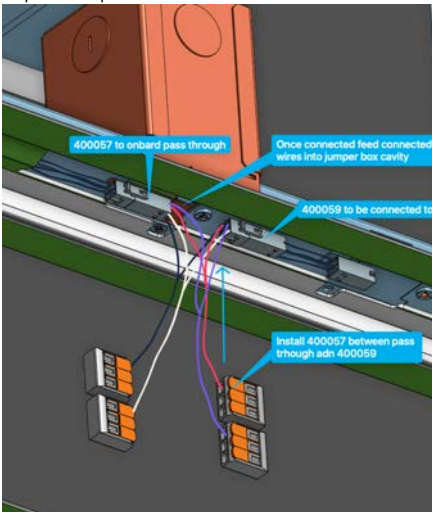
Power Connection Harness - PN: 400057

- Black: Hot
- White: Neutral
- Purple (Violet): Dimming
- Pink: Dimming

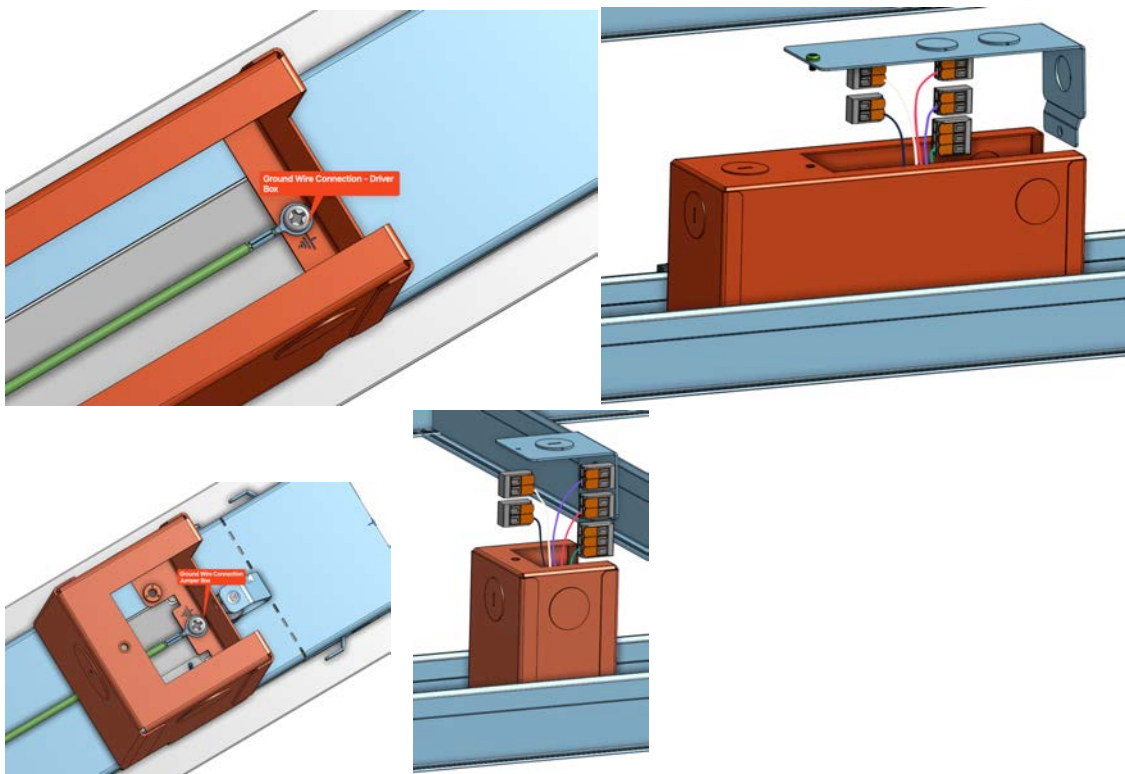
Steps for driver box:



Steps for Jumper Box:

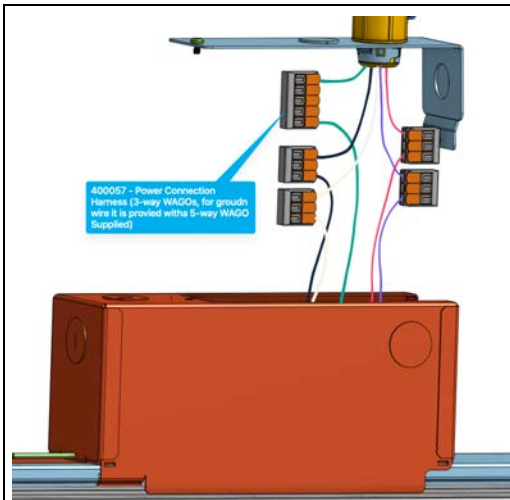


20. Once power connections harnesses are in place remove WAC cover(s) to access the ground wire and to feed 400057.

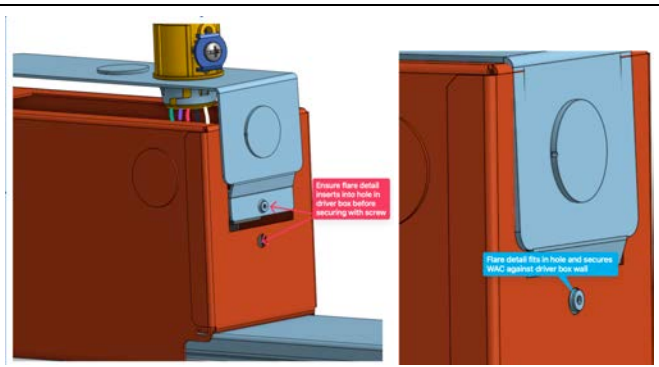


21. Locate ground wire first to connect to ground wire from the building ground with 3-way lever WAGOs supplied to make connections. Connect wire harness 400057 to the building supply connection wires with supplied 2-way lever WAGOs.

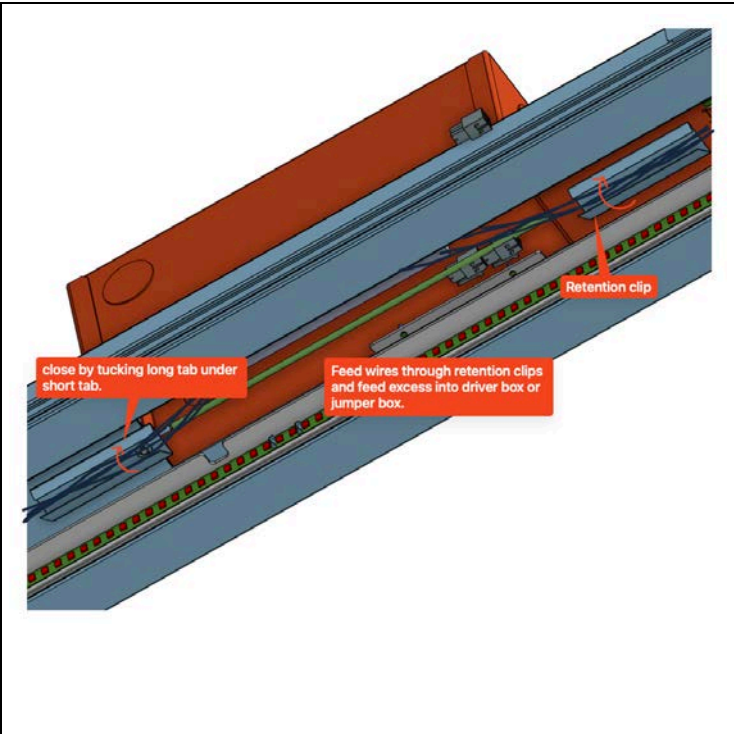
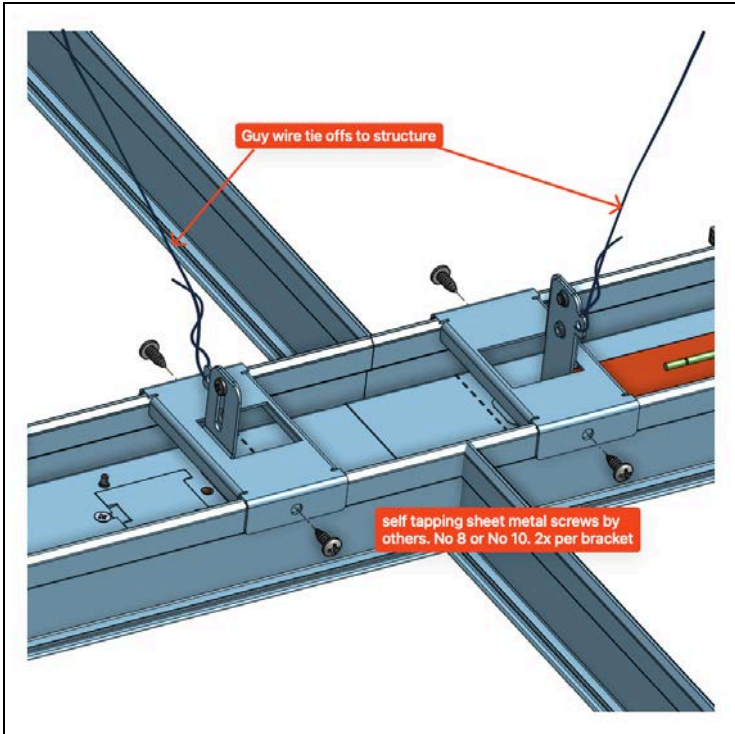
22. Insert the connected wires into the driver box or jumper box and secure the WAC with the self retaining screw. Same steps can be followed for jumper box.



23. Fasten fixtures by tightening the all mounting brackets and securing to T-grid with self tapping screws. ( by others) tie off brackets with guy wires.

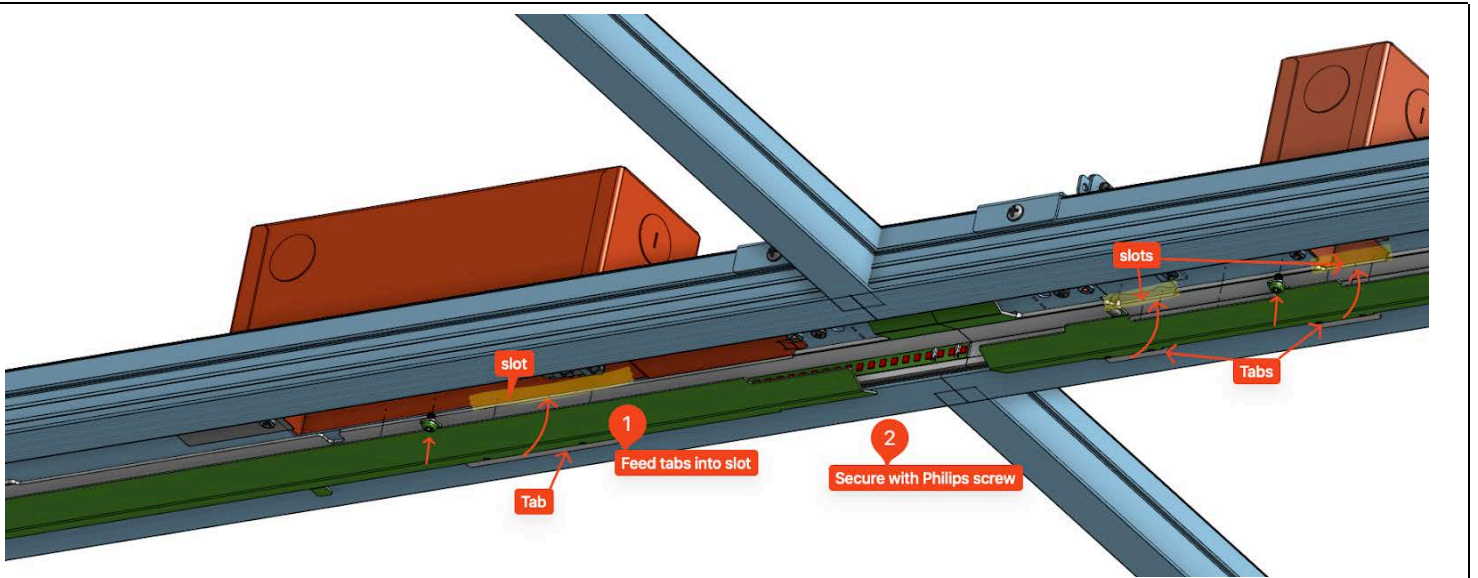


24. Run wire harnesses through the wire retention clips and close them .Feed excess wire harness leads into the driver box or jumper box.



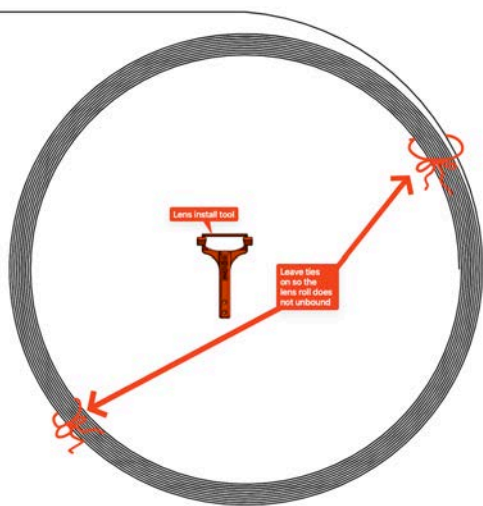
25. Install access cover plates on the driver box and jumper box locations.





26. Install the continuous roll lens after finishing work is complete. Remove mud guard(s) from the fixtures. Prepare the lens roll. Identify the correct lens for the run based on the layout drawings, unpackage the lens roll.  
**IMPORTANT: Do not untie the bound roll.**

45. Take the part of the lens and insert it approximately 4" beyond the back of the tool.



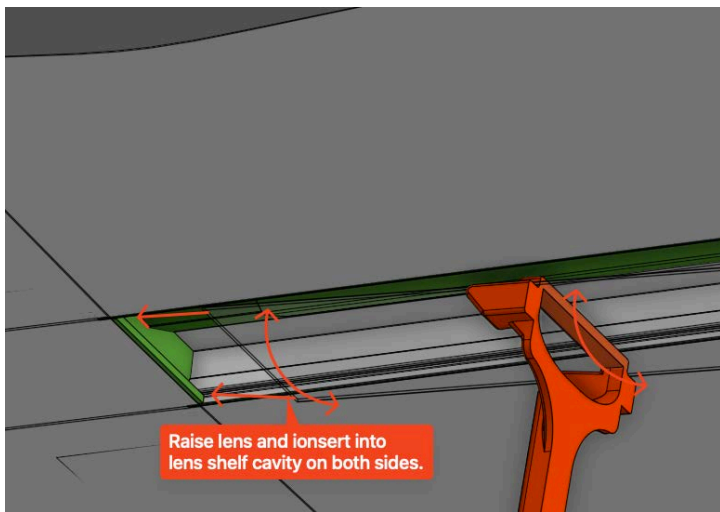
Lens install tool

Leave lens on so the lens roll does not unbound



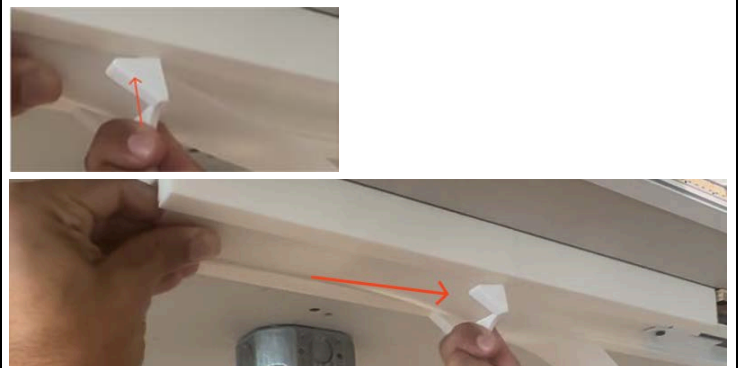
47. Place the roll over your dominant hand shoulder to install the lens. Start by feeding the lens into the lens shelf channel. Hand feed the lens into the channel.

48. Raise tool into the optical cavity opening and the lens will snap into place. Hold the lens at the end, then proceed to run the tool along the run install. This is to get the lens installation started. seat into the shelf as you move along the run.



p to the tool.

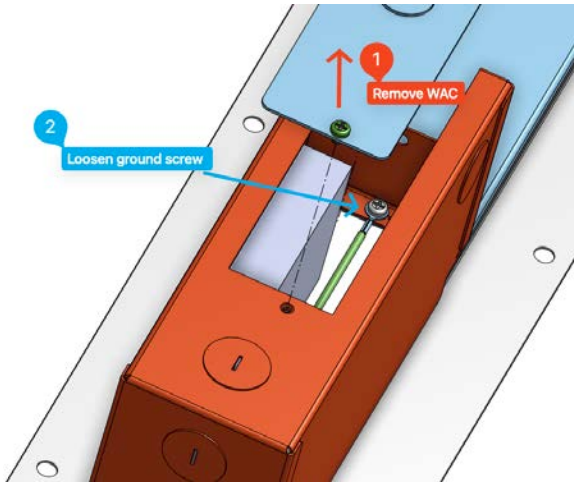
52. Lens is installed



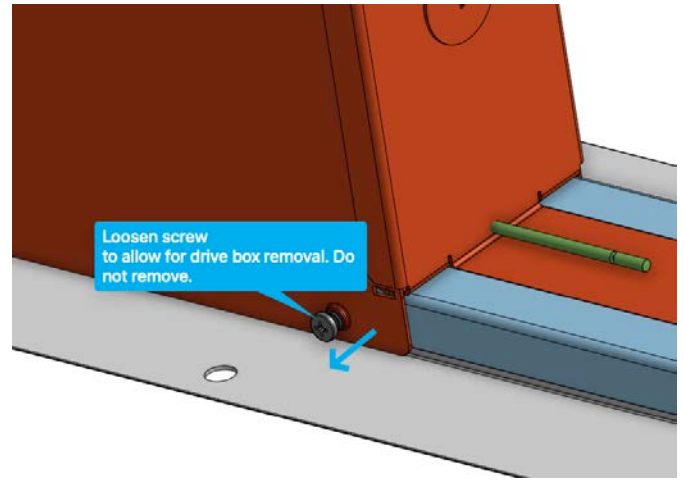
53. Fin

**STEPS TO MOVE DRIVER BOX AND JUMPER BOX AND STEP**  
**Note trimless shown for reference. Steps to move driver box and jumper box are the same for all three product options.**

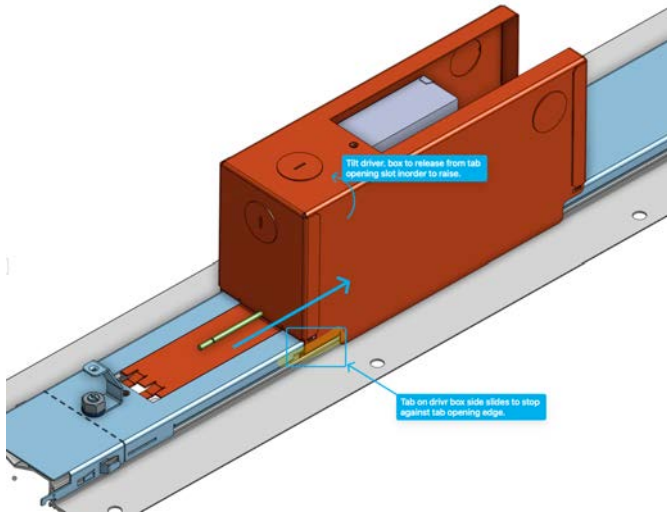
1. To move Driver Box positions D1 & D2 and from D3 to D4. First remove the WAC cover to loosen the ground screw.



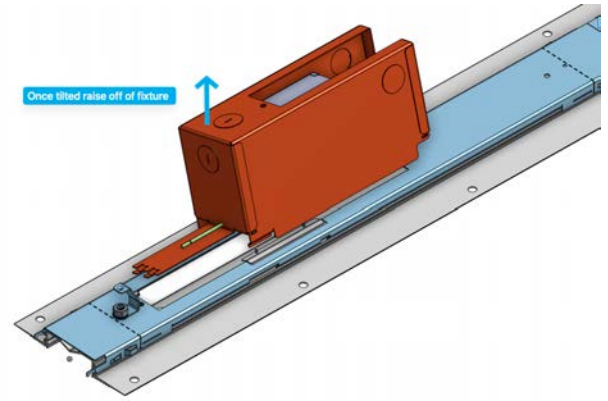
2. Loosen the screw on the side of the driver box securing to the fixture. Be sure not to fully remove the screw to avoid misplacement.



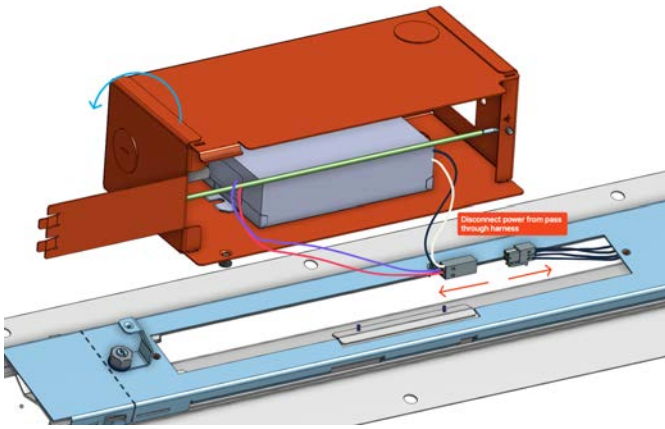
3. Slide the driver box to the edge of the tab opening on the other side until it stops. Next tilt away from the tab opening.



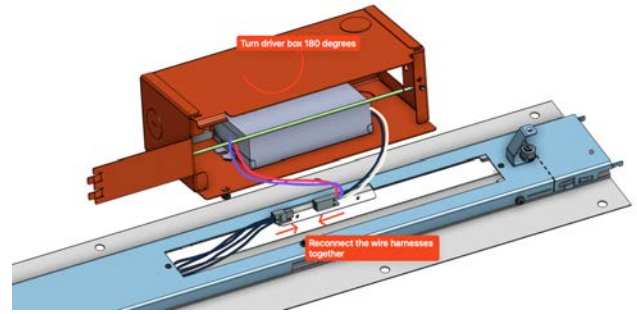
4. Tilt Driver box towards the screw side to free it from the tab opening. Raise up to remove.



5. Lay driver box on side and disconnect driver harness from connector harness.

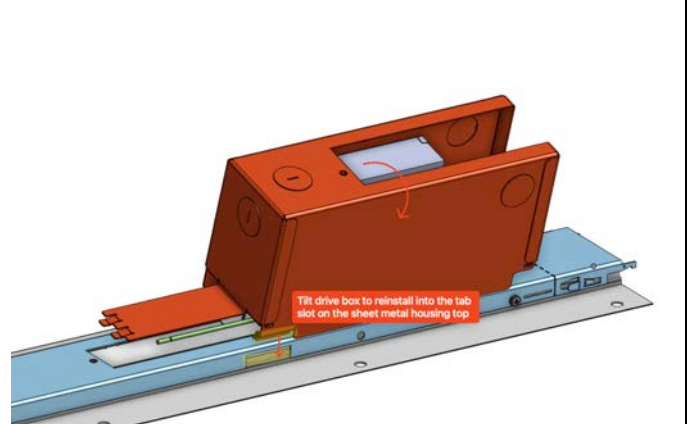
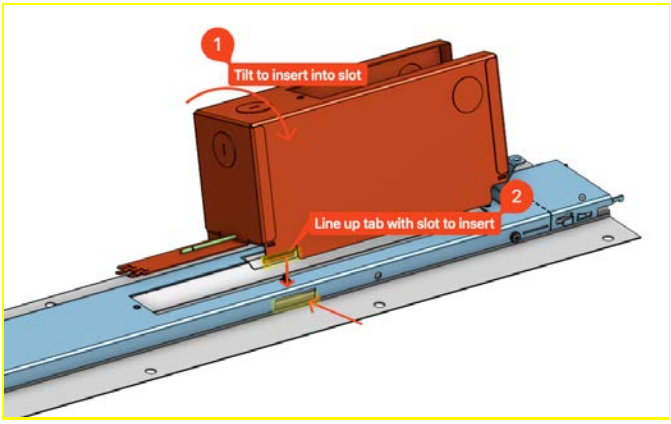


6. Turn the driver box around and reconnect the wire harnesses back together.

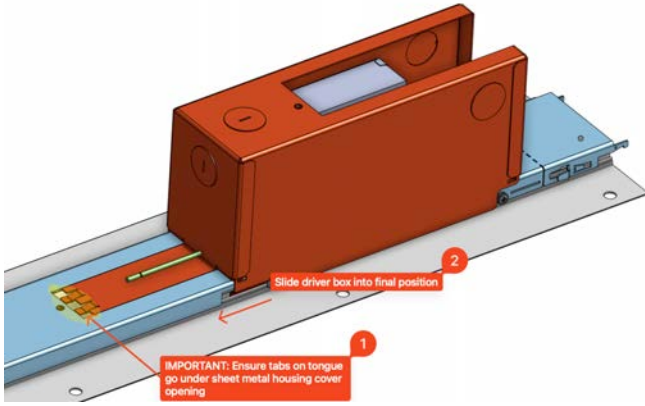


7. Place the driver box back on to the fixture in the reverse steps.

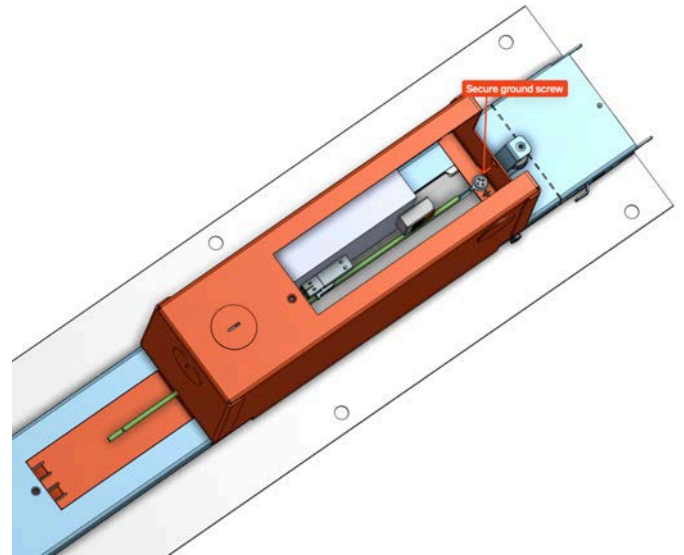
8. Tilt driver box and seat tab into slot and tilt back flush to housing.



9. **IMPORTANT!** Ensure tabs on the tongue go under the sheet metal top into the channel. Next slide the driver box into the final position.

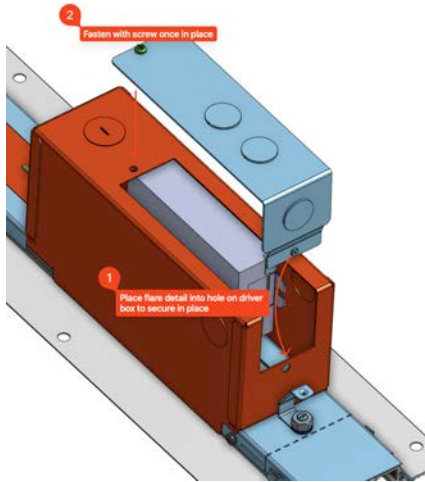


10. Fasten the ground screw to the sheet metal top cover inside.

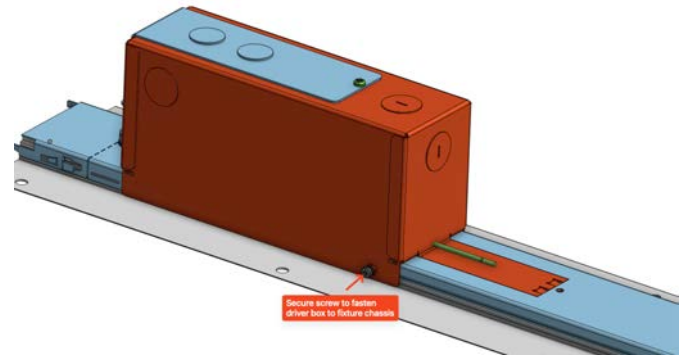




11. Replace the driver box WAC and secure it with the provided screw.

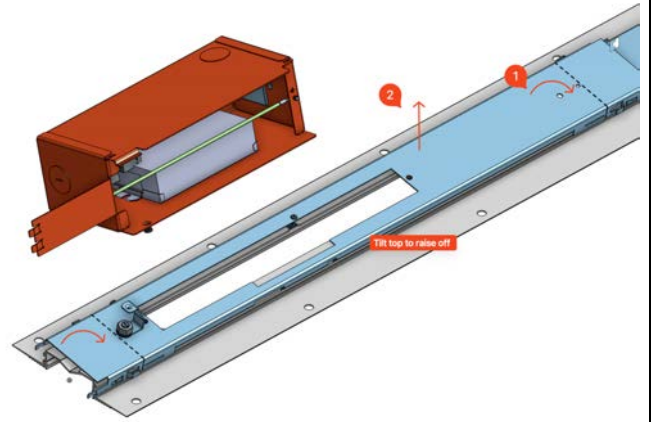
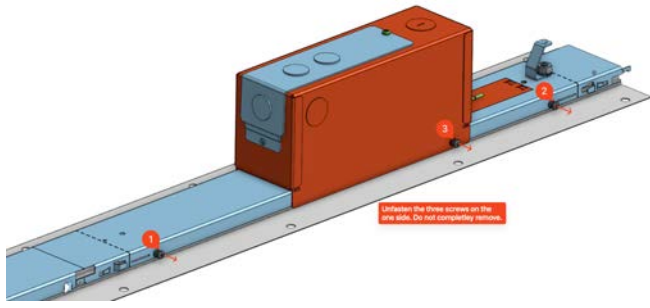


12. Final step to secure screw to fasten driver box to fixture chassis. You are ready to move to the installation steps.

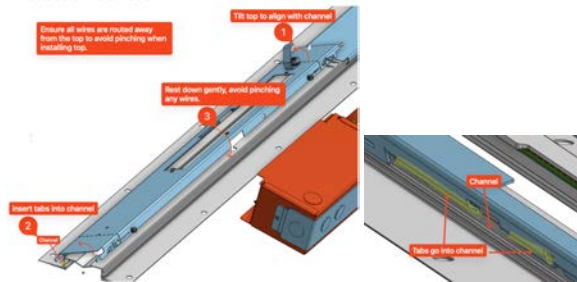


13. **Moving driver box to position 3 & 4.** To move the driver box to position 3 & 4 you must turn the sheet metal top cover around. First loosen the screws on the side of the sheet metal top and loosen the driver box fastening screw. The screws do not need to be fully removed.

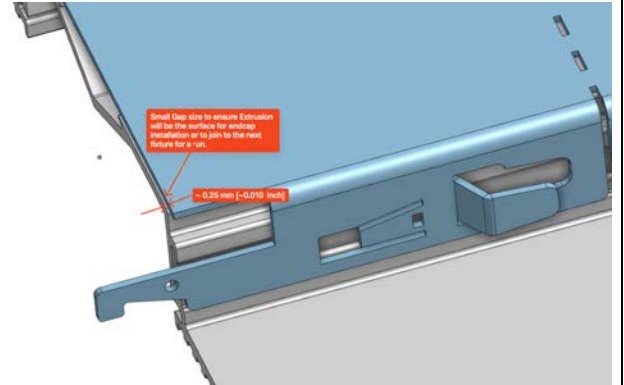
14. Remove the driver box first see steps 1-6. Once the driver box is removed, ensure access plate is removed, see step 7 for steps. Next proceed to remove the sheet metal top cover. Tilt the sheet metal top cover towards the bend tab and raise up.



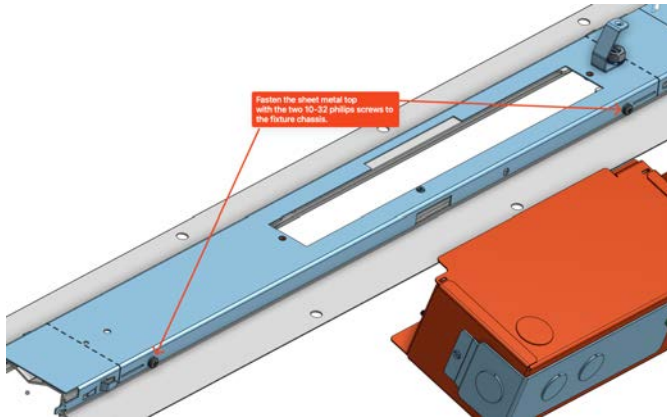
15. Turn top around and re-install by tilting and inserting the tabs into the fixture channel on the outside of the extrusion. Once the tab is in the channel, gently lay down into position. Ensure you do not pinch the wires beneath the top.



16. Once the top is at rest leave a small gap 0.25 mm [0.01 inch] from the end of the extrusion to the edge of the sheet metal cover.



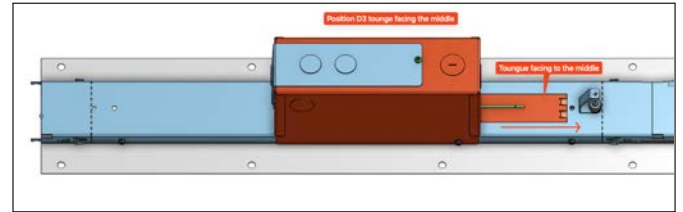
17. Secure the top sheet metal to the fixture extrusion chassis with the two 10-32 philips screws provided.



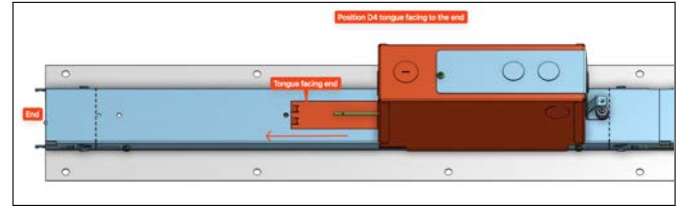
19. Fix the driver box into position once the final position is determined. Fasten screw on side of driver box to secure into place.

18. Proceed to reinstall the driver box to the top. Refer to steps 5-13. Positions: Driver box is in position **D3** when the tongue faces the middle; driver box is in position **D4** when driver box tongue is facing the end.

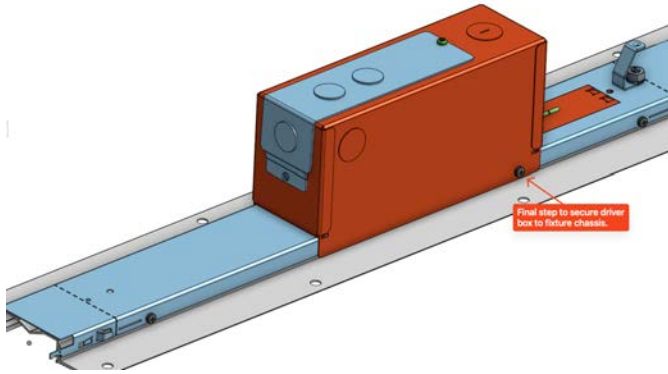
**D3**



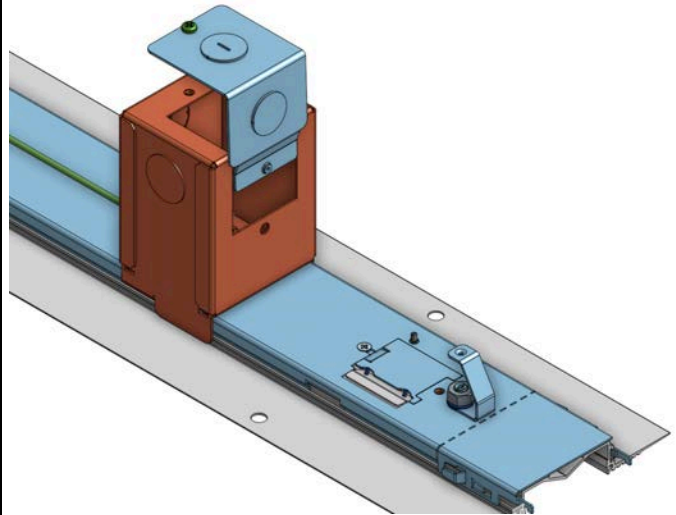
**D4**



20. **Pause:** If you do not need to adjust the jumper box proceed to step 9 to begin installation. Else, continue to the next step. To remove the jumper box to adjust from J1 to J2 go to the jumper box end of the fixture and remove the WAC.\*

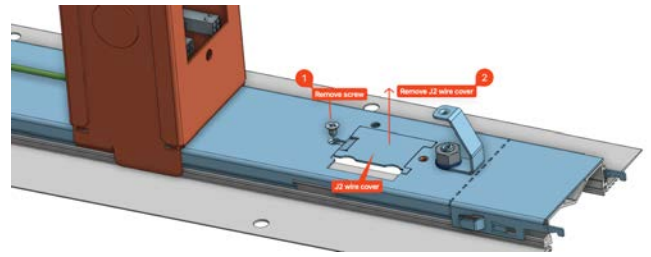
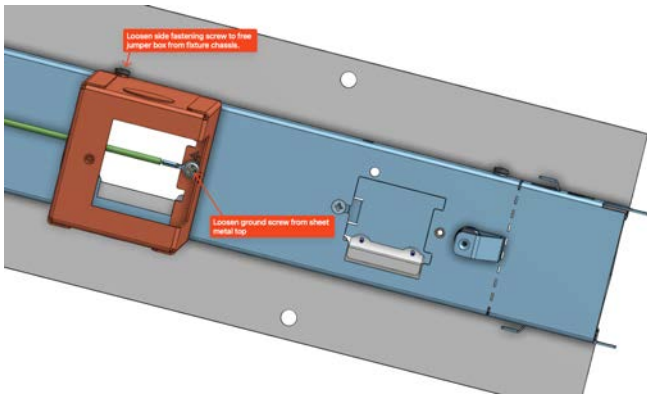


21. Next unfasten the ground screw and screw on the side holding the jumper box in place. Do not fully remove the screws; they are self retaining screws.

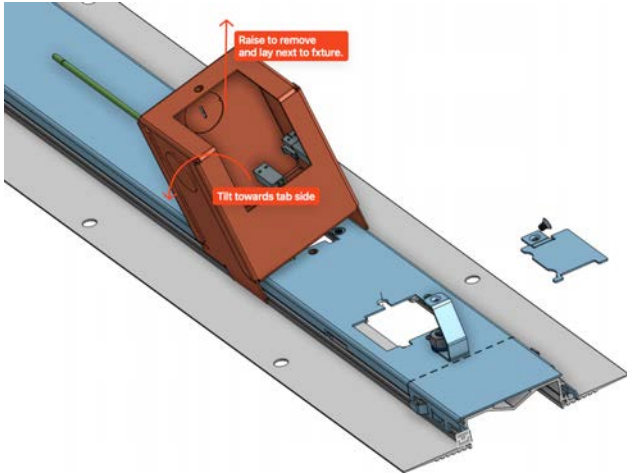


\*Note: The jumper box wire access cover would have been removed in step 8 when preparing the fixture for installation steps. If it has not been removed refer to step 8 at the start of instructions.

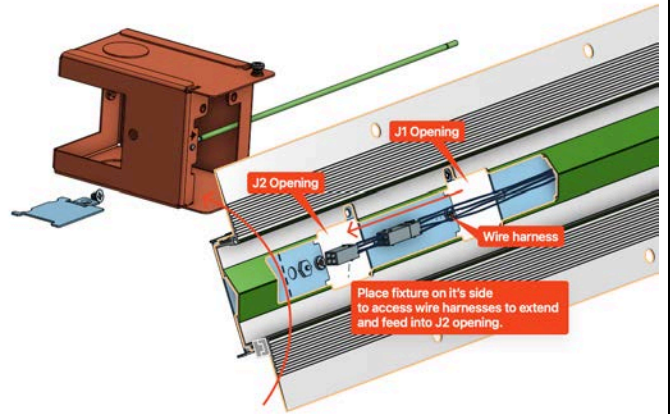
22. Remove screw securing the jumper box J2 wire cover. Remove J2 wire cover place to the side with screw.



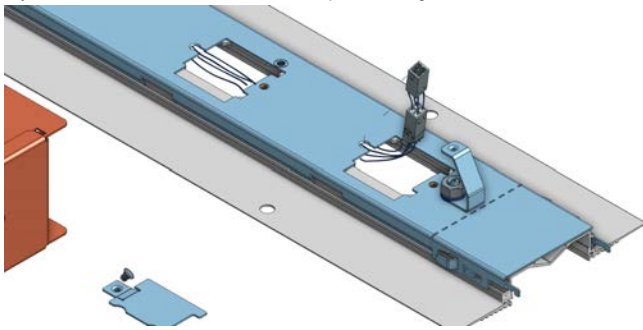
23. Tilt jumper box towards the tab side then raise out and lay next to fixture.



24. Tilt fixture over to feed wire harness and connector to J2 opening.

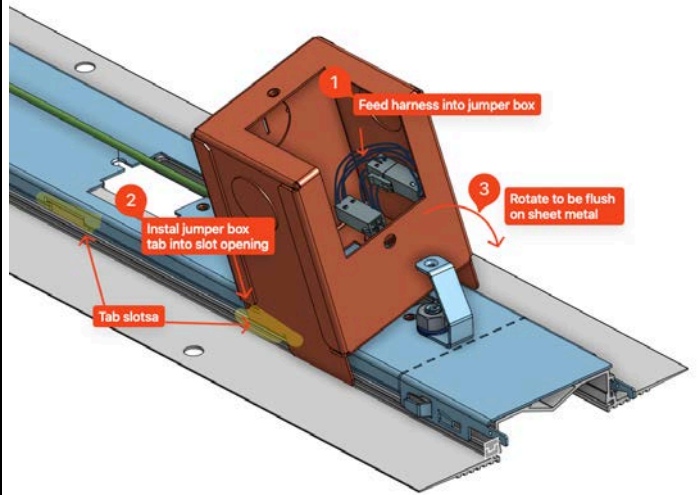


25. Lay the fixture face down after the harness is placed through J2.



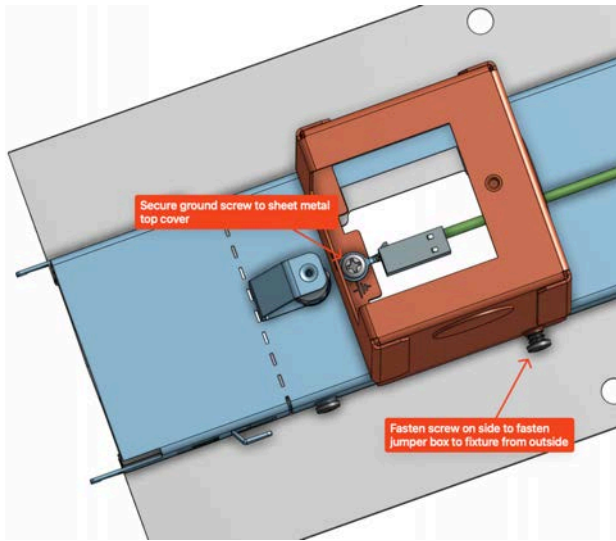
26.

27. Raise jumper box and feed harness into jumper box. Install jumper box over J2 position insert tab into side slot and tilt into position.

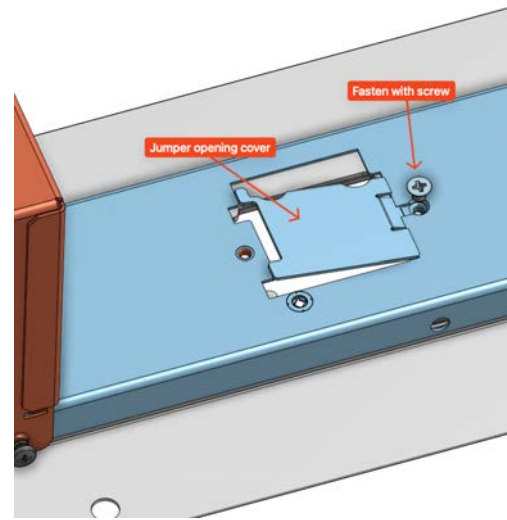


28. Fasten the jumper box by securing ground screw and side screw to the sheet metal top.

29. Reinstall the Jumper Cover Plate and secure in place with the provided screw.



30. Reinstall jumper box WAC.



31. All steps complete and you are ready to move to the installation steps into the ceiling.



