

# TRACK

## SURFACE AND PENDANT MOUNTED TRACK

### INSTALLATION

Before beginning any track installation, disconnect electrical power at main switch or circuit breaker.

#### A. CAUTION

To reduce the risk of fire, electric shock, and potential damage to assembly when electrical power is re-connected, DO NOT ATTEMPT TO CONNECT the following on branch circuit serving track assembly:

- Motors
- Power tools
- Extension cords
- Appliances or similar electronics

Fixtures to be mounted in conditions where ambient temperatures do not exceed 40°C.

Ensure AC input voltage is protected against surges & load shifts prior to power supply input.

#### B. SAFETY INSTRUCTIONS

1. Read installation instructions completely before attempting installation.
2. Failure to follow instructions may result in improper installation and void warranty.
3. Contact Lucifer Lighting Company with any questions or concerns before beginning any installation.
4. Ensure qualified electrician will perform all electrical procedures.
5. Disconnect electrical power circuit before attempting to install track, or if adding to or changing track configuration.
6. CAUTION: When fixture is on for long periods track head surfaces will be hot. Take care when making adjustments.

### SAFETY WARNING

This product must be installed in accordance with applicable electrical and installation codes by a person familiar with the construction and operation of the product and the hazards involved. "CAUTION- RISK OF FIRE"

#### C. DESCRIPTION

Surface and Pendant mounted track assemblies available with various connectors for continuous track assemblies. Track assemblies are compatible with all Lucifer Lighting track heads, specified separately.

#### D. MOUNTING

Track assemblies may be mounted to any horizontal surface. Track and track connectors specified separately according to field application conditions. Junction box connectors provide a minimalist transition from customer supplied 4" Octagon box and accommodates ceiling thicknesses of .44" (12mm) to .75" (20mm). Pendant track requires customer supplied 4" junction box and accommodates ceiling thicknesses of .625" (16mm) to .75" (20mm).

#### E. POWER

Track assemblies must utilize a panel based current limiter, supplied by others, when required by local codes. Available for use with 120V single circuit only. Track powered via live feed connectors or junction box connectors for use with customer supplied 4" Octagon box. At least one live feed or junction box connector must be selected to provide power to track assembly.

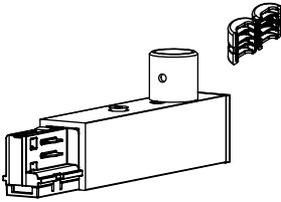
## F. SURFACE TRACK CONNECTORS AND COMPONENTS

Power provided to track assembly via live feed or junction box connectors. Track assembly should be laid out to verify conductors and busbar are properly aligned prior to installation (see section H and I).

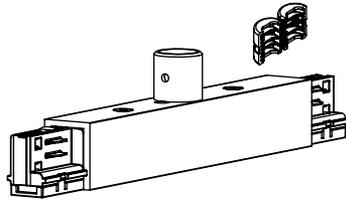
**Note:** Connectors are secured to track sections, do not drill through connectors.

### 1. SURFACE LIVE FEED CONNECTORS

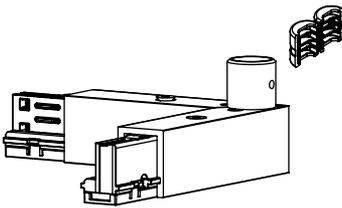
Variety of live feed connectors available and specified separately. T Connector and X Connector are pre-wired with 14 gauge internal wiring.



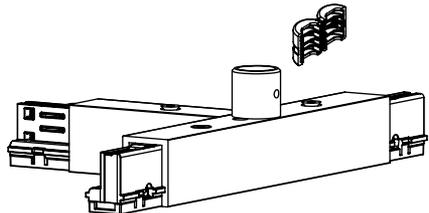
End Connector



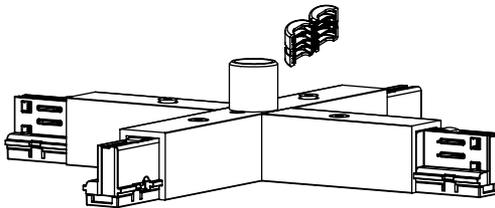
Inline Connector



Corner Connector

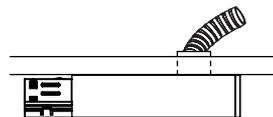
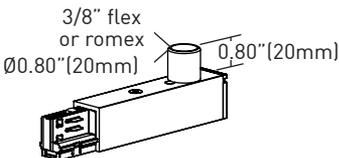


T Connector



X Connector

Connector barrel requires 0.80" diameter cutout and accepts 3/8" flex or romex. Recommend 12 or 14 gauge wires.

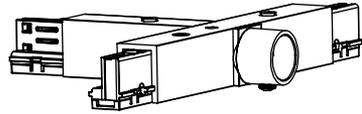


## 2. SURFACE LIVE FEED CEILING CONDUIT CONNECTORS

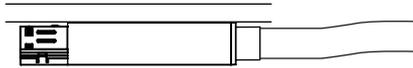
Ceiling conduit end connector available for either 1/2" EMT or 3/4" EMT. Connectors available in left orientation and specified separately. Connector ships with 1/2" EMT fitting installed and 3/4" EMT fitting included in packaging.



End Connector



T Connector

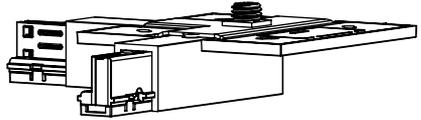


## 3. SURFACE JUNCTION BOX CONNECTORS

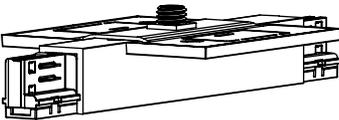
Variety of junction box connectors available and specified separately. T Connector pre-wired with 14 gauge internal wiring.



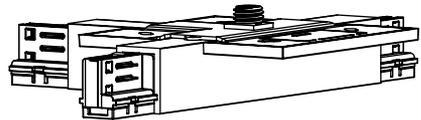
End Connector



Corner Connector

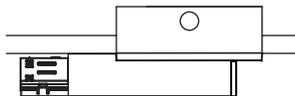


Inline Connector



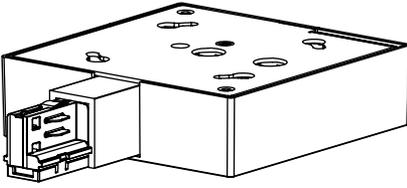
T Connector

Mounts to bottom of customer furnished 4" Octagon box.

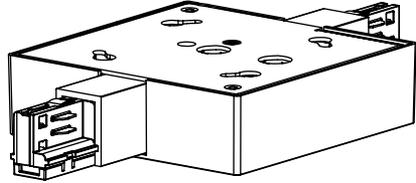


#### 4. SURFACE CURRENT LIMITERS

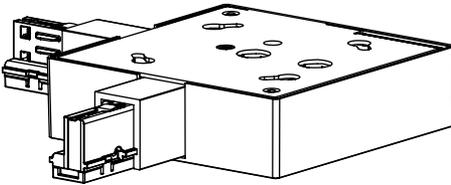
Variety of current limiters available and specified separately. All current limiters are pre-wired with 14 gauge internal wiring.



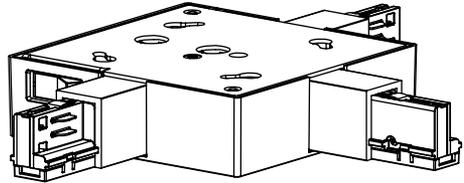
End  
Current Limiter



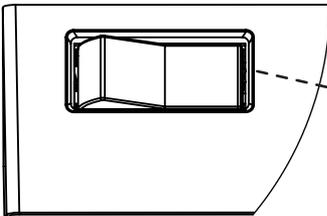
Inline  
Current Limiter



Corner  
Current Limiter

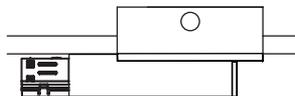


T Current Limiter



Circuit Breaker

Mounts to bottom of customer furnished 4" Octagon box.

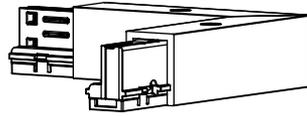


## 5. SURFACE NO FEED CONNECTORS

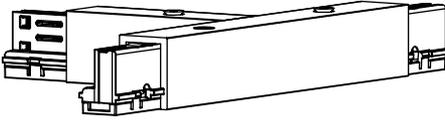
No feed connectors join two or three sections of track. All connectors are pre-wired with 14 gauge internal wiring.



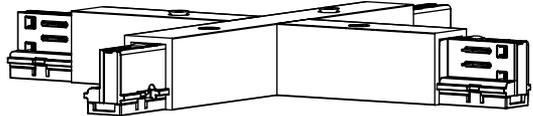
Track Jumper



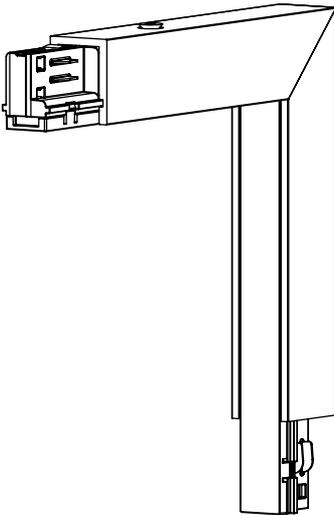
Corner Connector



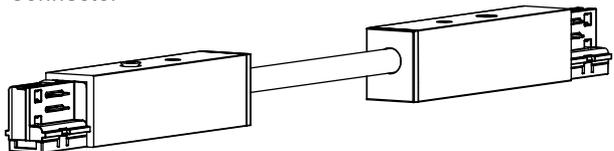
T Connector



X Connector



Vertical Connector



Flexible Connector

## G. PENDANT TRACK CONNECTORS AND COMPONENTS

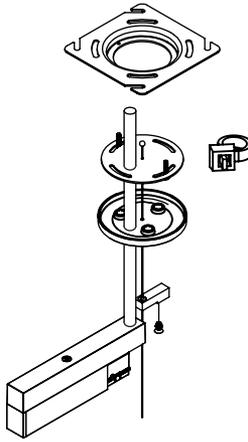
Power provided to track assembly via live feed or junction box connectors. Track assembly should be laid out to verify conductors and busbar are properly aligned prior to installation (see section H and I).

**Note:** Connectors are secured to track sections, do not drill through connectors.

**Note:** Pendant track only available for North America installations.

### 1. PENDANT POWER KIT

Mounts to bottom of “customer-supplied” 4” junction box and provides power to the track system with the integral live feed connector. Requires 2.750” (70mm) cutout.



### 2. PENDANT MECHANICAL SUSPENSION KIT

Installed in ceiling to provide mounting for track sections. Requires 5/8” (16mm) cutout.

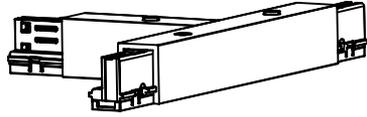


## 5. PENDANT NO FEED CONNECTORS

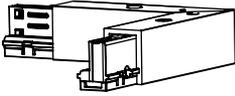
No feed corner connector for joining two sections of suspended track. T Connector and Corner Connector contain 14 gauge internal wiring.



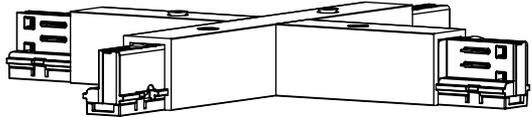
Track Jumper



T Connector



Corner Connector

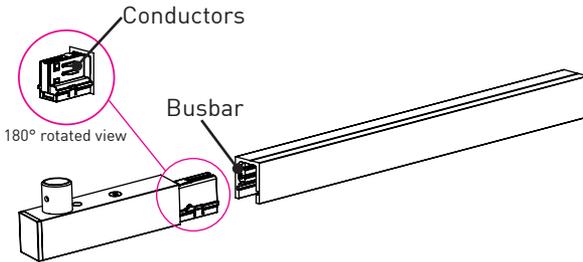


X Connector

## H. SURFACE TRACK INSTALLATION

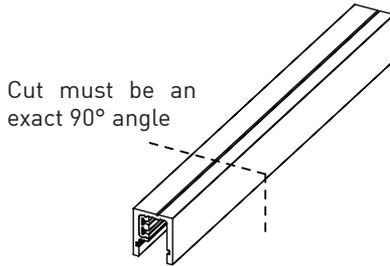
### 1. SURFACE TRACK - LAYOUT

Track sections available in 4' and 8' field cuttable lengths. Connectors are left orientated. Track assembly should be laid out to verify conductors and busbar are properly aligned prior to installation.

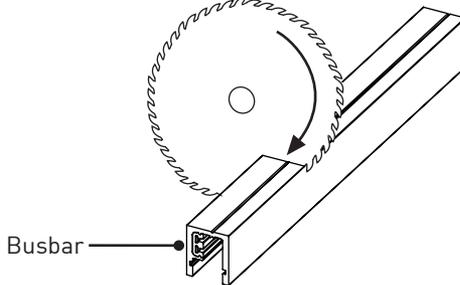


### 2. SURFACE TRACK - FIELD CUTTING

Using a chop saw with fine tooth blade, cut track to desired length.

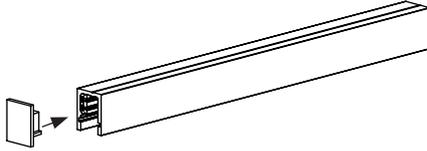


Ensure rotation of saw blade is directed towards busbar.



### 3. SURFACE TRACK - END CAP

Install end caps as needed with supplied screws.



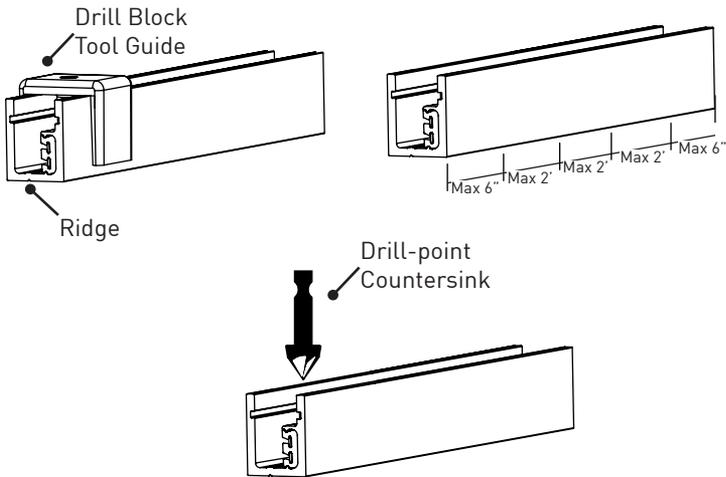
### 4. SURFACE TRACK - DRILL MOUNTING HOLES

Track sections require 2 mounting holes spaced a maximum of 6" (152mm) from the ends of the track section with additional mounting holes spaced every 2 feet along the length of the track section. Use the drill block tool guide to drill 3/16" (5mm) holes through bottom of track channel centered directly on ridge, removing any burrs produced from drilling.

Using a 4" long (or longer) #4 (5/16" (8mm)) drill-point countersink (recommend McMaster-Carr# 2756A25), countersink holes from bottom of track channel.

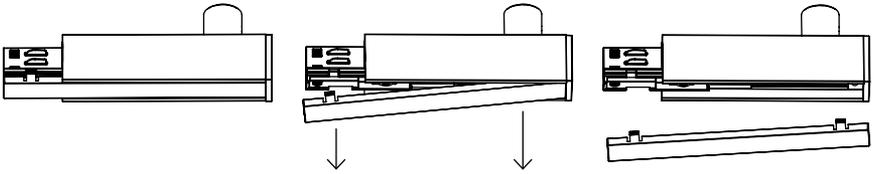
**Note:** Take care to not damage busbar during drilling. If damaged, discard track section.

**Note:** If screw heads are not countersunk, track heads will not properly adjust the length of the track.

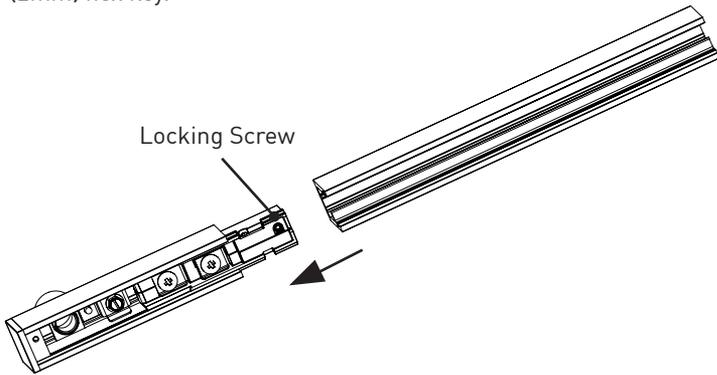


## 5. SURFACE TRACK - PREPARE TO MOUNT

Gently pull down to release power feed connector(s) cover.



Insert applicable power feed connector(s) and coupler(s) into track and tighten locking screw. Power feed connectors include 1/16" (1.5mm) and couplers include 5/64" (2mm) hex key.

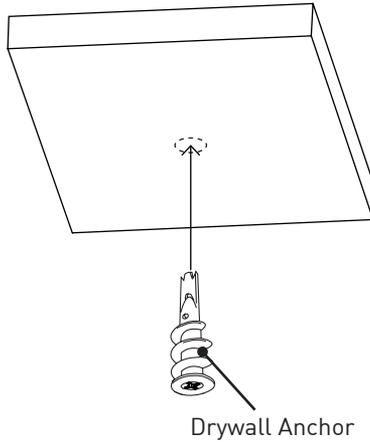


## 6. SURFACE TRACK - MOUNT TO CEILING

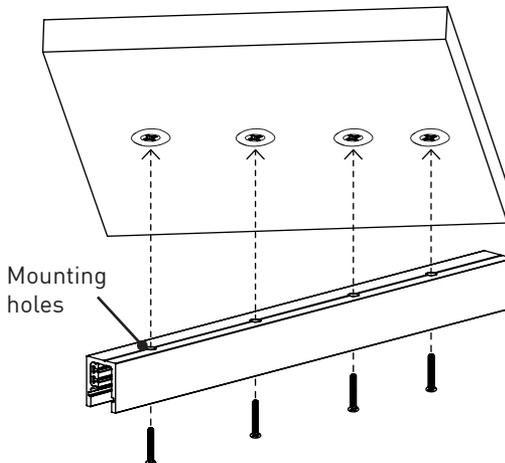
**Note:** Factory recommends using two installers for track applications of 8' or greater lengths.

### **Option 1: Drywall Anchors (supplied by others)**

Designate drywall anchor locations on ceiling substrate. Install drywall anchors per the manufacturers instructions ensuring they are flush with ceiling substrate.

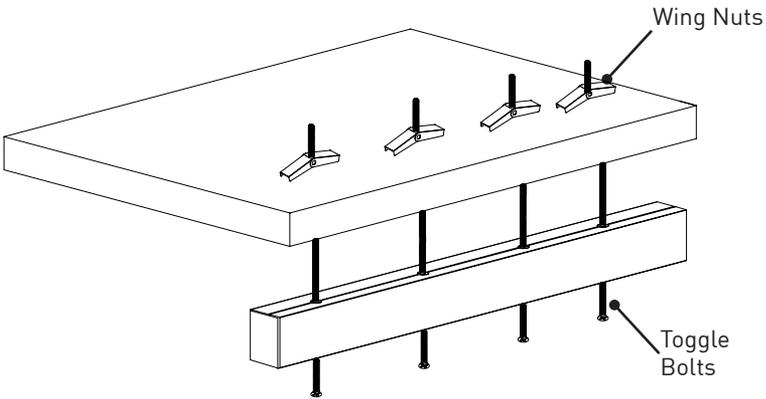


Align mounting holes with drywall anchors. Using screwdriver, secure track section to ceiling by incrementally hand tightening alternate screws to draw track uniformly to ceiling ensuring screw heads are fully countersunk.



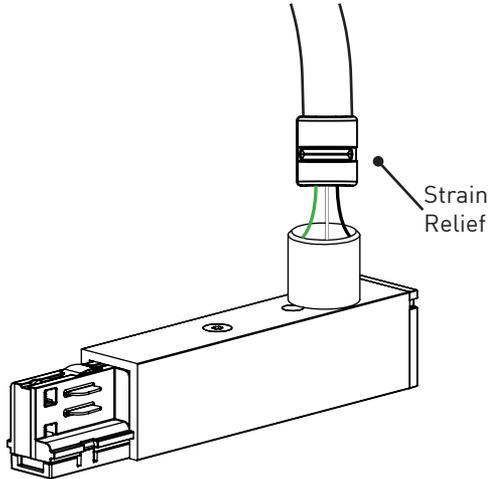
**Option 2: #8 Toggle Bolts (supplied by others)**

Designate toggle bolt hole locations on ceiling substrate and drill 5/8" holes. Insert #8 toggle bolts through mounting holes located on track section. Screw bolts into wing nuts a few turns to ensure they do not come loose during installation. Push toggle bolts into holes drilled in ceiling and tighten by incrementally hand tightening alternate bolts to draw track uniformly to ceiling ensuring bolt heads are fully countersunk.

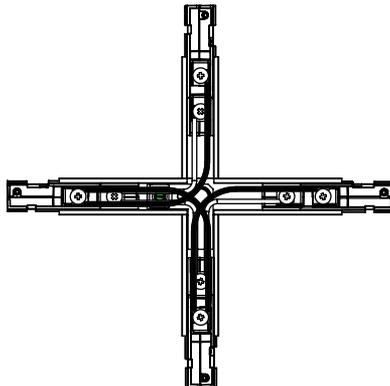
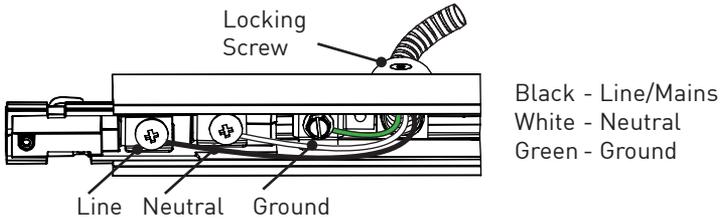


## 7. SURFACE TRACK - MAKE WIRING CONNECTIONS

If using romex on surface live feed connectors, attach strain relief to end of romex and feed wiring into connector.

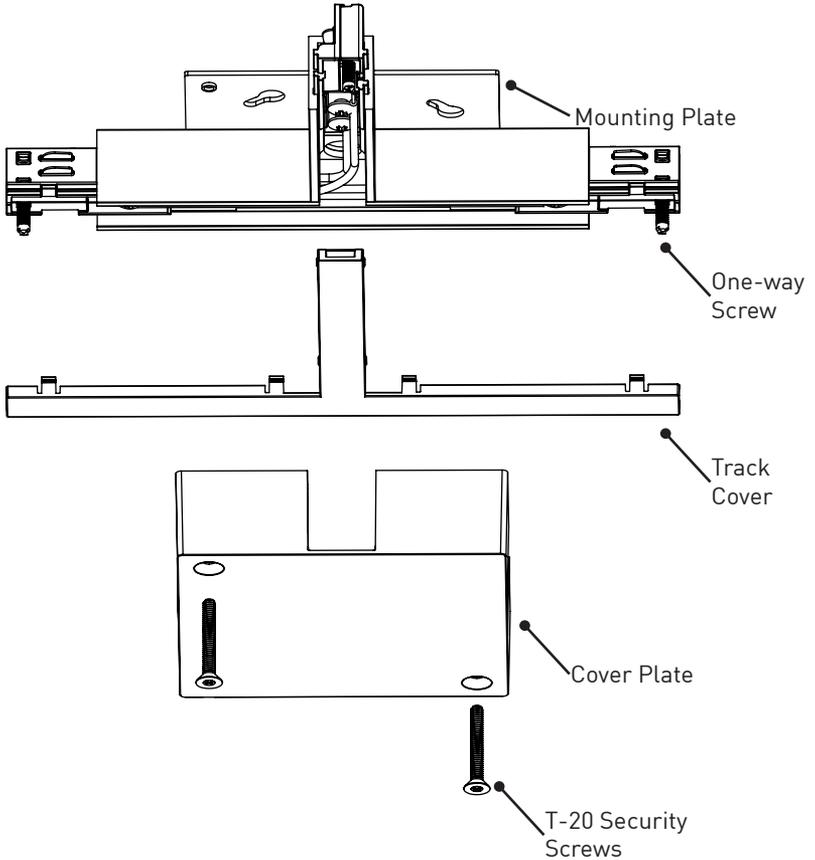


With bottom cover removed, bring line, neutral and ground wires into track connector via conduit or junction box and secure to terminals. With wires secure, tighten locking screw on connector and replace bottom cover. Make connections on all other connectors as applies.



## 7. SURFACE TRACK - CURRENT LIMITER INSTALLATION

Remove T-20 security screws, remove cover plate and track cover. Make line, neutral and ground connections in 4/0 junction box, attach mounting plate to 4/0 junction box. Make track connections to current limiter, **ENSURE TRACK CONNECTIONS ARE CORRECT**, tighten one-way mounting screws. Reinstall track cover and cover plate, secure with T-20 security screws.

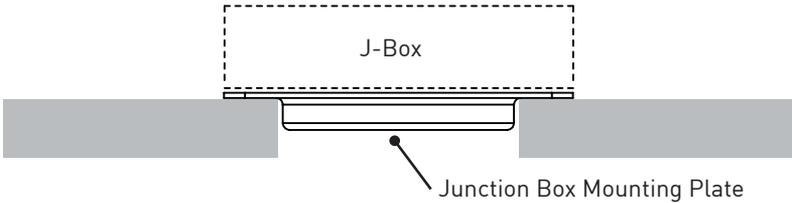


## I. PENDANT TRACK INSTALLATION

### 1. PENDANT TRACK - INSTALL J-BOX MOUNTING PLATE

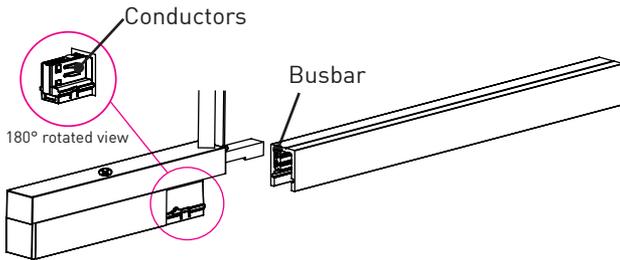
Install junction box mounting plate to 4" J-box (supplied by others) prior to installing substrate. Requires 2.750" (70mm) cutout.

**Note:** Pendant track only available for North America installations.



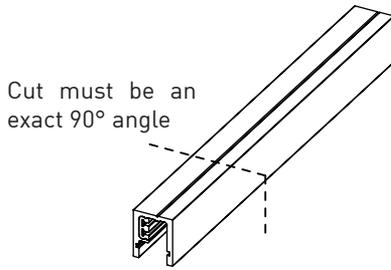
### 2B. PENDANT TRACK - LAYOUT

Track sections available 8' field cuttable length. Connector is left orientated. Track assembly should be laid out to verify conductors and busbar are properly aligned prior to installation.

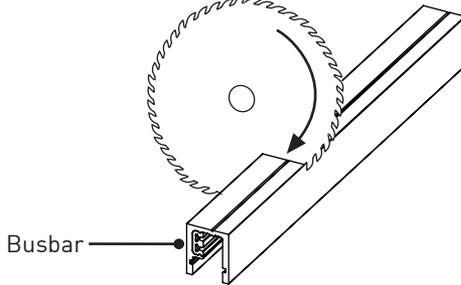


### 3. PENDANT TRACK - FIELD CUTTING

Using a chopsaw with fine tooth blade, cut track to desired length.

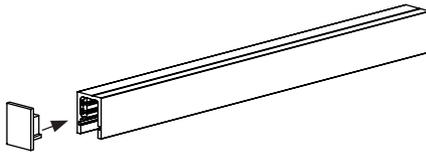


Ensure rotation of saw blade is directed towards busbar.



### 4. PENDANT TRACK - END CAP

Install end caps as needed with supplied screws.



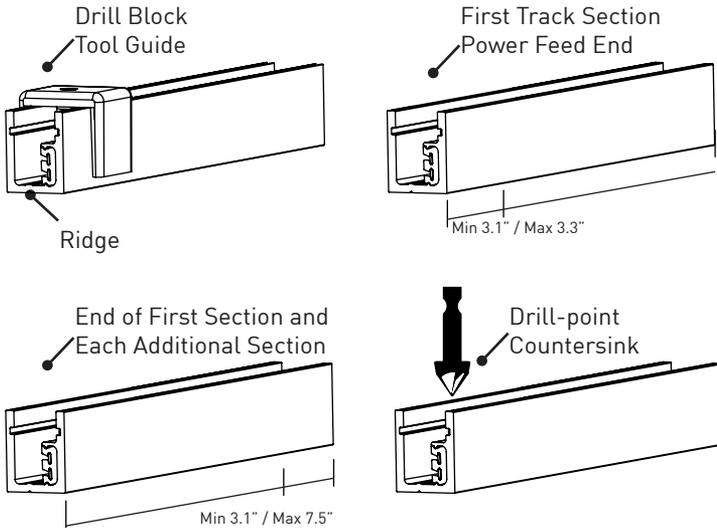
## 5. PENDANT TRACK - DRILL MOUNTING HOLES

The first section of track requires a 3/16" (5mm) mounting hole 3.1" (79mm) to 3.3" (84mm) from the end that will connect to the power feed connector. The opposite end of the first section of track and each additional section require one 3/16" (5mm) mounting hole 3.1" (79mm) to 7.5" (191mm) at the same interval on each section if possible. Use the drill block tool guide to drill holes through bottom of track channel centered directly on ridge, removing any burrs produced from drilling.

Using a 4" long (or longer) #4 (5/16" (8mm)) drill-point countersink (recommend McMaster-Carr# 2756A25), countersink holes from bottom of track channel.

**Note:** Take care to not damage busbar during drilling. If damaged, discard track section.

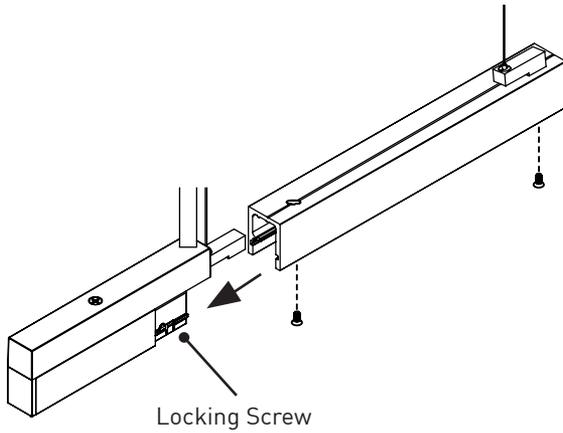
**Note:** If screw heads are not countersunk, track heads will not properly adjust the length of the track.



## 6. PENDANT TRACK - PREPARE TO MOUNT

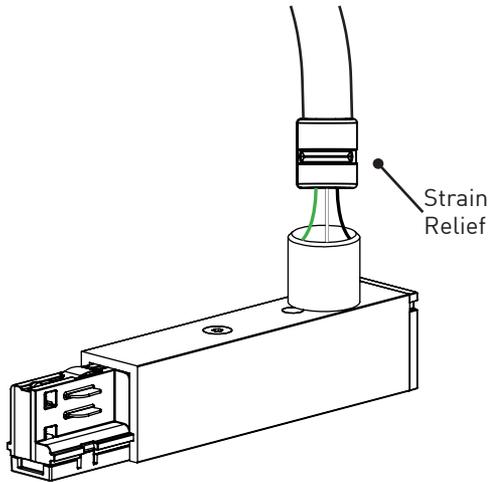
Insert applicable power feed connector(s) and coupler(s) into track and tighten locking screw. Power feed connectors include 1/16" (1.5mm) and couplers include 5/64" (2mm) hex key. Attach leveling brackets to the track with the supplied screws as pictured below.

**Note:** First section of track requires two leveling brackets.

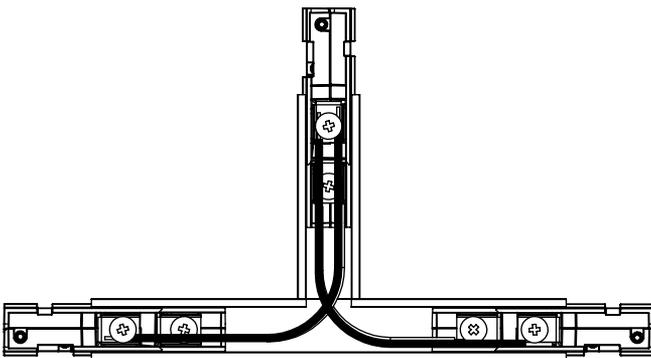
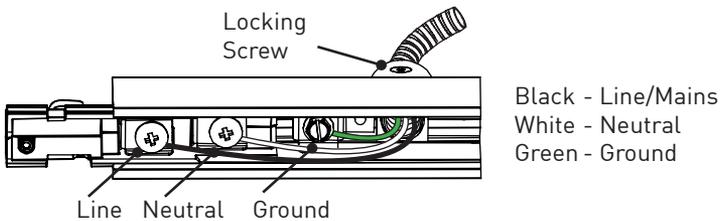


**All Installations:**

If using romex on surface live feed connectors, attach strain relief to end of romex and feed wiring into connector.

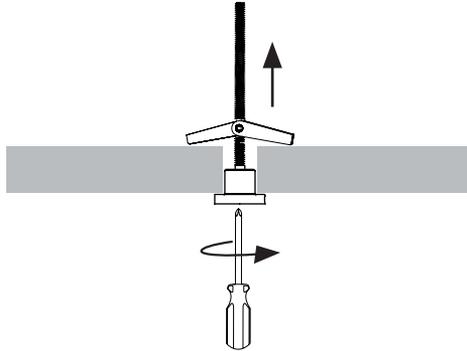


With bottom cover removed, bring line, neutral and ground wires into track connector via conduit or junction box and secure to terminals. With wires secure, tighten locking screw on connector and replace bottom cover. Make connections on all other connectors as applies.

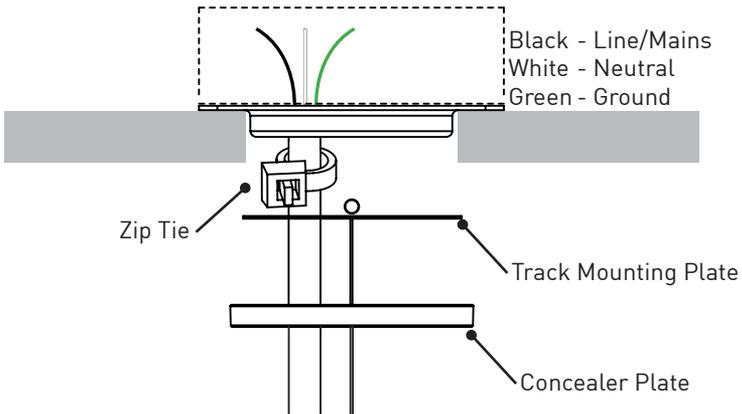


## 7. PENDANT TRACK - MOUNT TO CEILING

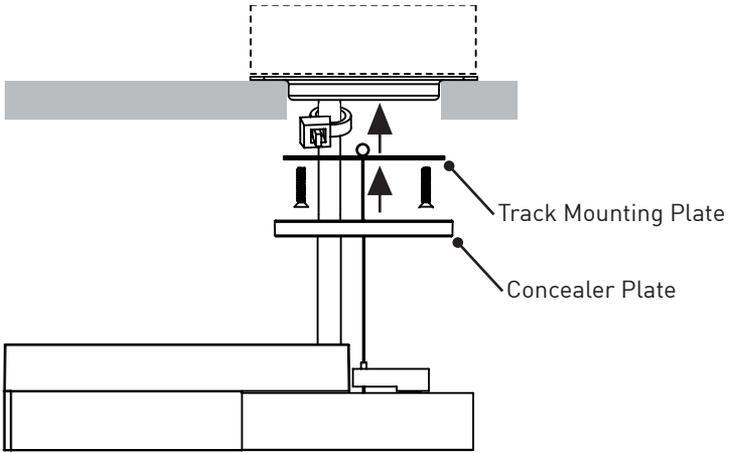
Drill a 5/8" (16mm) hole into the ceiling substrate. Install the outer retainer of the mechanical suspension kit by carefully pushing the wing nut through the hole. Seat the retainer by hand tightening the toggle bolt.



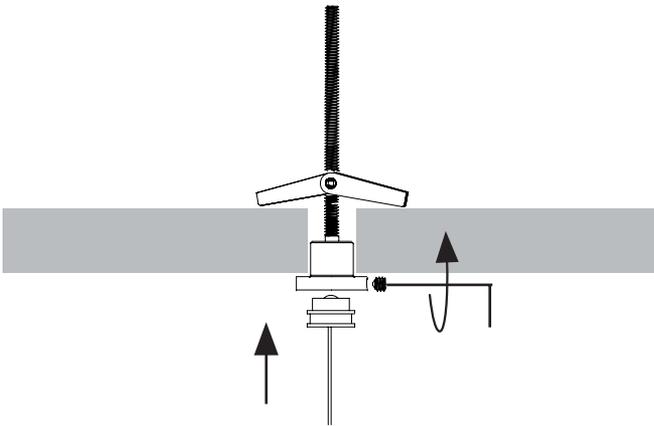
Determine the desired length of the pendant power kit drop. Install a zip tie on the cord above the track mounting plate to mark it. Cut cable and strip wires as required and make electrical connections in the J-Box.



Attach safety lanyard to track mounting plate and install the track mounting plate using the supplied mounting screws and cover with the magnetic concealer plate.

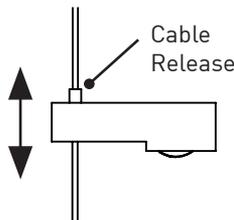


Install the inner cable retainer in the previously installed outer cable retainer and tighten the set screw with the supplied 1/16" (1.5mm) hex key.



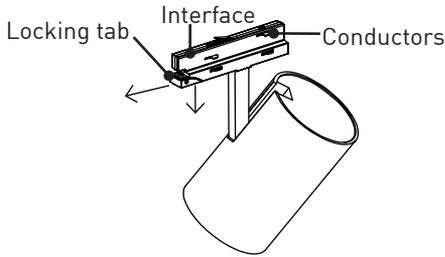
With the leveling brackets turned to the side of the track, press cable release and adjust track to desired height.

**Caution:** Do not cut cable until track heads are installed and track is leveled in Step J.

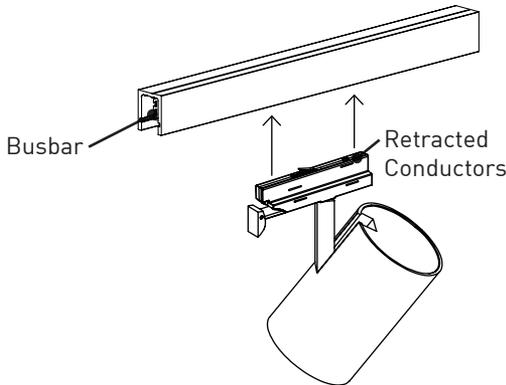


## J. TRACK HEAD INSTALLATION

Pull down on locking tab and slide out from interface to retract conductors.

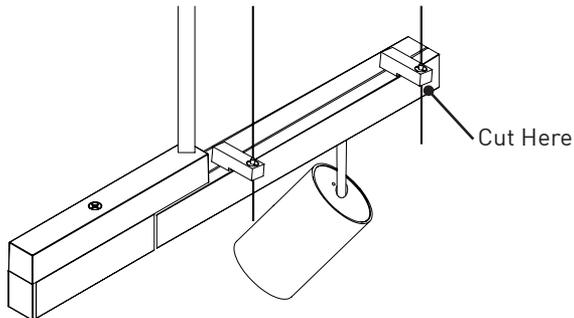


With conductors retracted and track head in a tilted position, align conductors with busbar and gently push track head adaptor into track section. Slide locking tab back into place. Reverse process to remove track heads by sliding locking tab open and pulling straight down on interface.



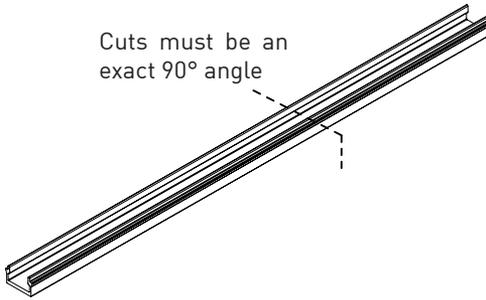
## PENDANT TRACK

Once trackheads are installed and adjusted, rotate the leveling brackets to level the track system. Once level cut the remainder of cable off beneath the leveling brackets.

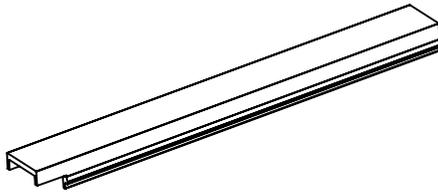


## K. TRACK GAP COVER INSTALLATION

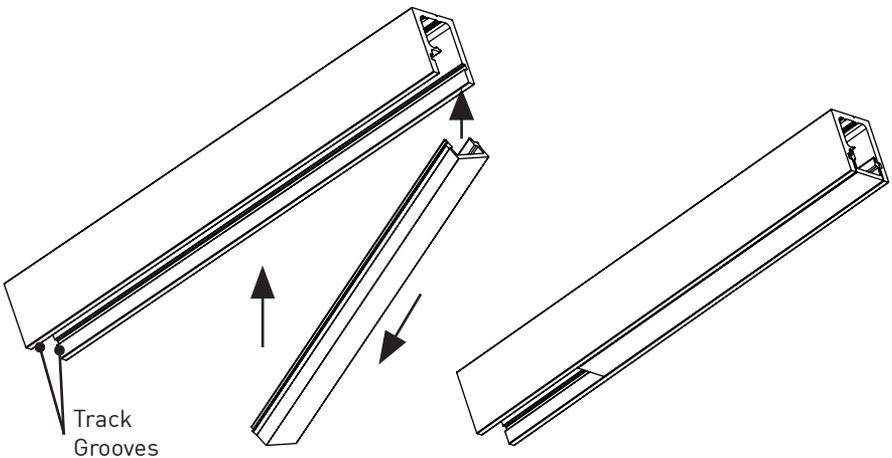
With trackheads installed measure the distance between trackheads and cut track gap cover to the required lengths. Ensure that a 0.50" gap is left in the track cover system to allow for removal of fixtures.



Cut a notch into the end of the track gap cover that will be installed over the dead end fitting.



Snap one end of cover into the track grooves and carefully snap the rest of cover into place.



# LIMITED WARRANTY

LUCIFER LIGHTING COMPANY (Seller) warrants that for a period of one (1) year from date of sale to the first non-retail purchaser, Seller will repair or replace, at the Seller's sole option, free of charge, any defective products purchased from Seller provided that prior authorization is obtained from the Seller and the products are sent prepaid to the Seller's manufacturing facility. Lamps are not warranted or guaranteed in any manner for any length of time, except LED lamp modules and power supplies used in Seller's recessed, surface mount and exterior lighting fixtures, are warranted to operate with 70% lumen maintenance from the date of sale by Seller for five (5) years. LED MR-16 style lamps supplied by Seller are only warranted as provided by their original maker. Please refer to the following limiting conditions.

1. The Citizen, Bridgelux, Xicato, Sharp and Lumenetix LED lamp modules provided by Seller are only suitable for use in ceiling or plenum conditions where the maximum operating temperature of the module does not exceed 90°C (194°F) and/or the ambient temperature does not exceed 40°C (104°F) or lower threshold as featured on Seller's product specification literature.
2. These terms only cover the power supply (if purchased from Seller) and Citizen, Bridgelux, Xicato, Sharp, and Lumenetix LED modules.
3. If installed outdoors, the power supply must always be shielded from direct sunlight. The power supply cannot be installed in areas where liquids may pool.
4. The end user must ensure that the AC input voltage has measures in place to prevent lightning strike surges and that large load shift surges are reduced or eliminated prior to the input of the power supply. Power supplies returned with this type of damage are not covered under Seller's Limited Warranty.
5. Seller reserves the right to physically evaluate the LED module and driver supplied by Seller for compliance with these conditions. An end user's refusal to return such fixture articles shall void Seller's Limited Warranty.
6. The LED module will be considered in working condition and therefore not warrantable if it meets or exceeds 70% of its original flux and remains within a range of 3 duv.
7. The color temperature of the Citizen, Bridgelux, Xicato, Sharp and Lumenetix LED module is guaranteed to remain within a range of 3 duv for a period of five (5) years from date of sale by Seller.
8. Any tampering or disassembly of the LED module or LED heat-sink assembly without Seller's prior written consent will immediately void the warranty.

Where Seller's fixtures are used in conjunction with drivers/power supplies sourced by others and/or where POE (power over ethernet) systems are present, Seller's warranty will only apply to the Seller supplied lighting fixtures. In all instances where drivers/power supplies and/or POE are by others, the responsibility to confirm the selected power supply(s) conforms to operating parameters of Seller's fixtures shall be the responsibility of others. Approved parameters (involving voltage, current, and power quality for the selected fixtures and outputs) will be provided by Seller upon request, however the parameters should not be considered exhaustive for the purpose of the warranty and represents a good faith effort by Seller to support its customers. All warranty claims are subject to Seller's review and if Seller determines the root cause of the issue involves supplied power supply(s) by others, Seller's warranty shall not be applicable. Further, in such events of supplied power supply(s) by others, Seller makes no guarantee as to fixture operating performance (startup time, flicker, shimmer, pop-on/pop-off, dimming, etc.). In no event shall Seller's obligations under this warranty extend beyond the initial cost of the products and, accordingly, consequential damages arising out of any claimed product defect are expressly excluded. This Warranty does not cover the costs, if any, in re-installation of products serviced under this Warranty. This Warranty does not cover damage or failure caused by acts of God, abuse, misuse, abnormal usage, or use in violation of any applicable standard, code or instructions for use in installations including those contained in the latest National Electrical Code (NEC), the standards for safety of Underwriters Laboratory, Inc. (UL), standards for the American National Standards Institute (ANSI) or, in Canada, the Canadian Standards Association (CSA), or, in the European Union, the Conformité Européenne (CE Marking), faulty installation, or any repairs or modifications other than those made by the Seller. This Warranty does not cover damage or failure caused by abnormal spikes in power, dirty power, and light fixtures used with power supplies or other products not supplied by Seller, nor shall it apply to defects for which written notice thereof is not received by Seller.

In the event that any of the terms of this Warranty are in conflict with any rule of law or statutory provision or otherwise unenforceable under the laws or regulations of any government or subdivision thereof, such terms shall be deemed stricken from this Warranty, but such invalidity or unenforceability shall not invalidate any of the other terms of this Warranty and this Warranty shall continue in force.

EXCEPT AS TO SELLER'S WARRANTY OF REPAIR OR REPLACEMENT SET FORTH ABOVE, THERE ARE NO UNDERSTANDINGS, AGREEMENTS, REPRESENTATIONS, OR WARRANTIES, EXPRESS OR IMPLIED (INCLUDING ANY REGARDING THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT, AND ANY WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE), RESPECTING LUCIFER LIGHTING COMPANY PRODUCTS. THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE SELLER FOR THE REPAIR OR REPLACEMENT AT SELLER'S OPTION OF DEFECTIVE LUCIFER LIGHTING PRODUCTS. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THE PRODUCTS SOLD HEREUNDER.

For service under this warranty, please provide the original date of sale and nature of difficulty being experienced. All service matters should be directed to:

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