

# Stenos Track System - Installation Instructions

Models STS-XX-FC-XX

**Please read complete instruction prior to installation and keep for future reference!**

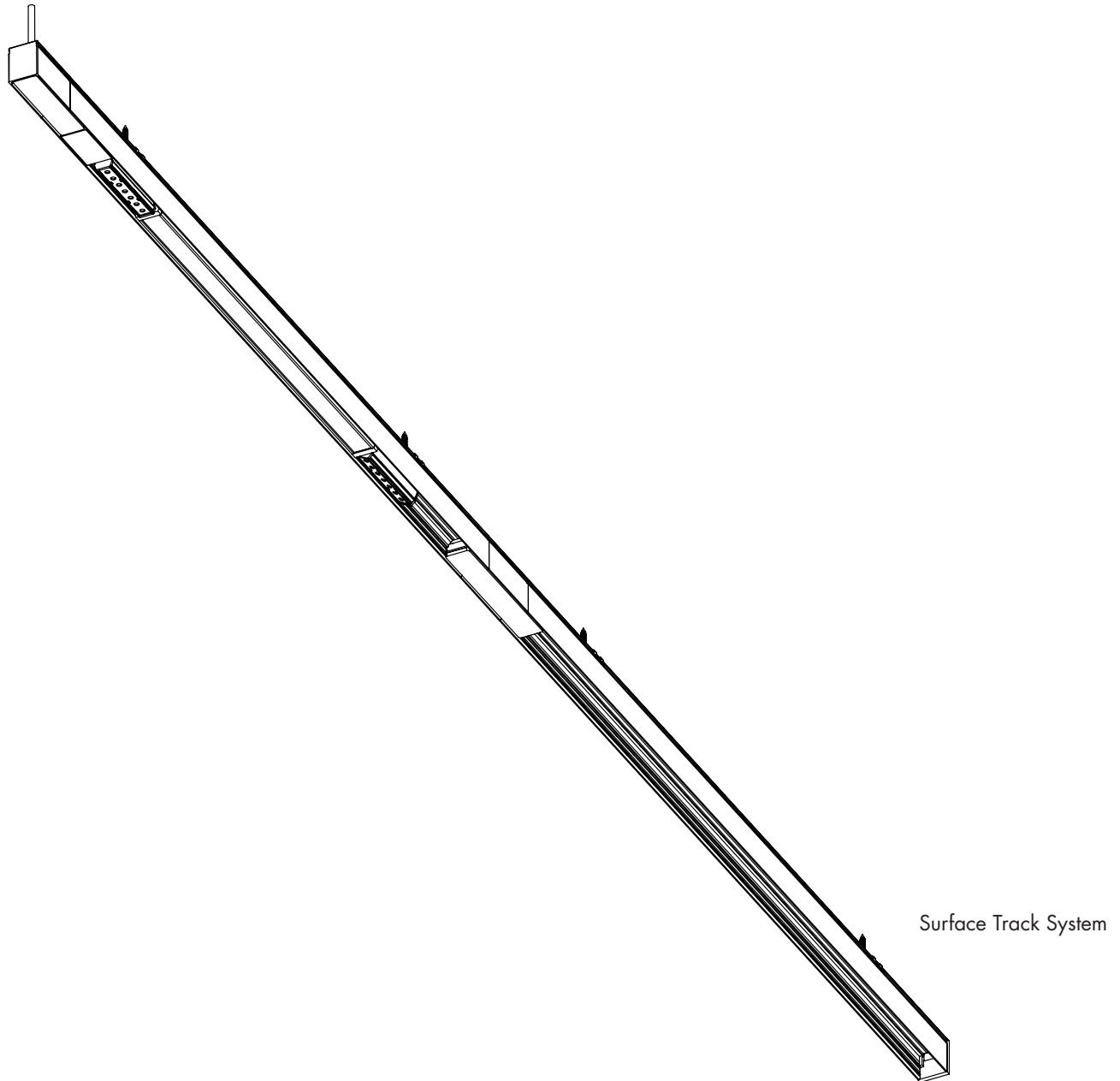
1. PRODUCT TO BE INSTALLED BY A QUALIFIED ELECTRICIAN.
2. USE ONLY WITH CLASS 2 POWER UNIT
3. 24 VOLTS DC
4. SUITABLE FOR DRY LOCATIONS ONLY
5. SURFACE TRACK IS SUITABLE FOR UNDER CABINET INSTALLATIONS



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Page 1 of 13



Surface Track System



## **IMPORTANT SAFETY INSTRUCTIONS!**

WHEN INSTALLING OR USING THIS TRACK SYSTEM, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING:

- A. READ ALL INSTRUCTIONS.
- B. DO NOT INSTALL THIS TRACK IN DAMP OR WET LOCATIONS.
- C. DO NOT INSTALL ANY PART OF THE TRACK SYSTEM LESS THAN 5 FEET ABOVE THE FLOOR.
- D. DO NOT INSTALL ANY LUMINAIRE ASSEMBLY CLOSER THAN 6 INCHES FROM ANY CURTAIN, OR SIMILAR COMBUSTIBLE MATERIAL.
- E. DISCONNECT ELECTRICAL POWER BEFORE ADDING TO OR CHANGING THE CONFIGURATION OF THE TRACK.
- F. DO NOT ATTEMPT TO ENERGIZE ANYTHING OTHER THAN LIGHTING TRACK LUMINAIRES ON THE TRACK. TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT ATTEMPT TO CONNECT POWER TOOLS, EXTENSION CORDS, APPLIANCES, AND THE LIKE TO THE TRACK.

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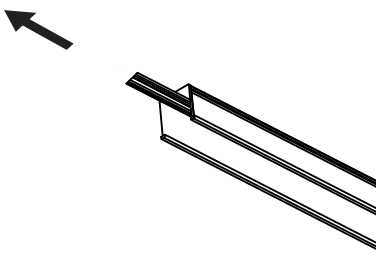
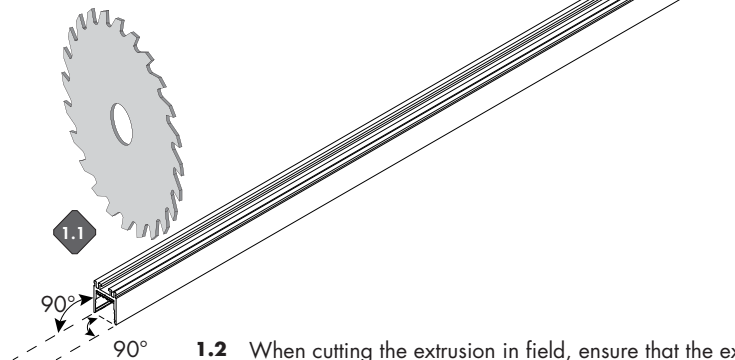
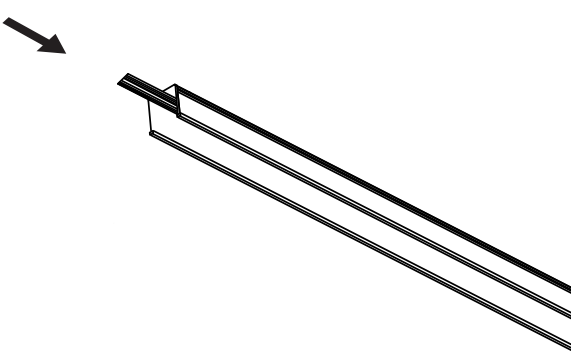
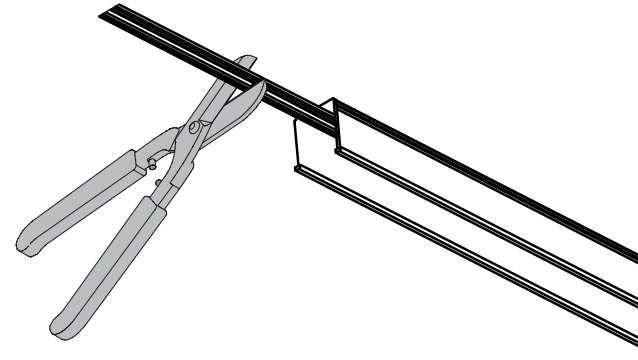


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Page 2 of 13

## Field Cutting Instructions

<p><b>1</b></p>  <p><b>1.1</b> Slide the power track out of the extrusion.</p>	 <p><b>1.2</b> When cutting the extrusion in field, ensure that the extrusion is sitting perpendicular to the cutting surface.</p>
 <p><b>1.3</b> Slide the power track back into the extrusion</p>	 <p><b>1.4</b> Trim the power track with hand shears to fit the length of the extrusion.</p>

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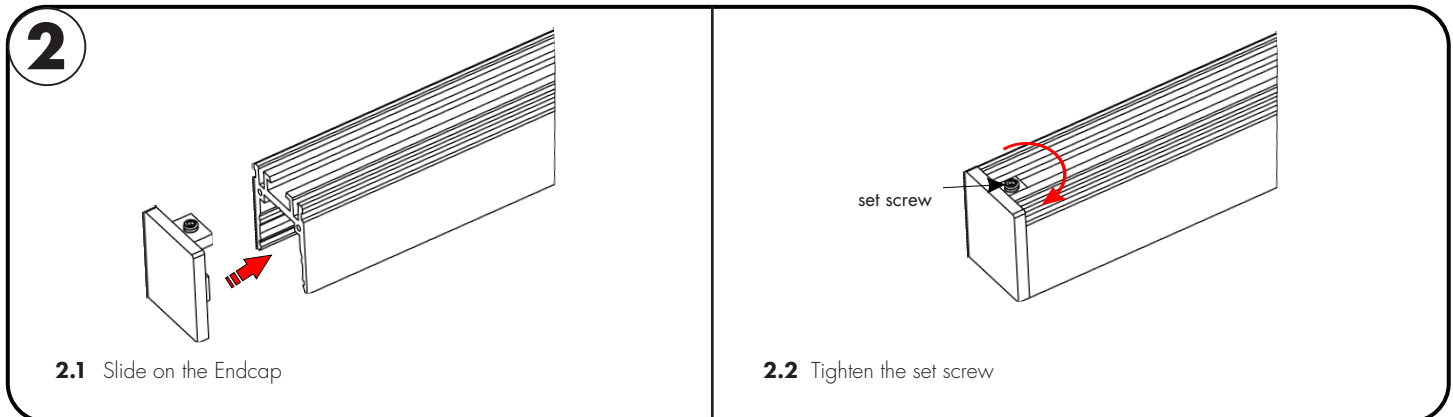
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Page 3 of 13

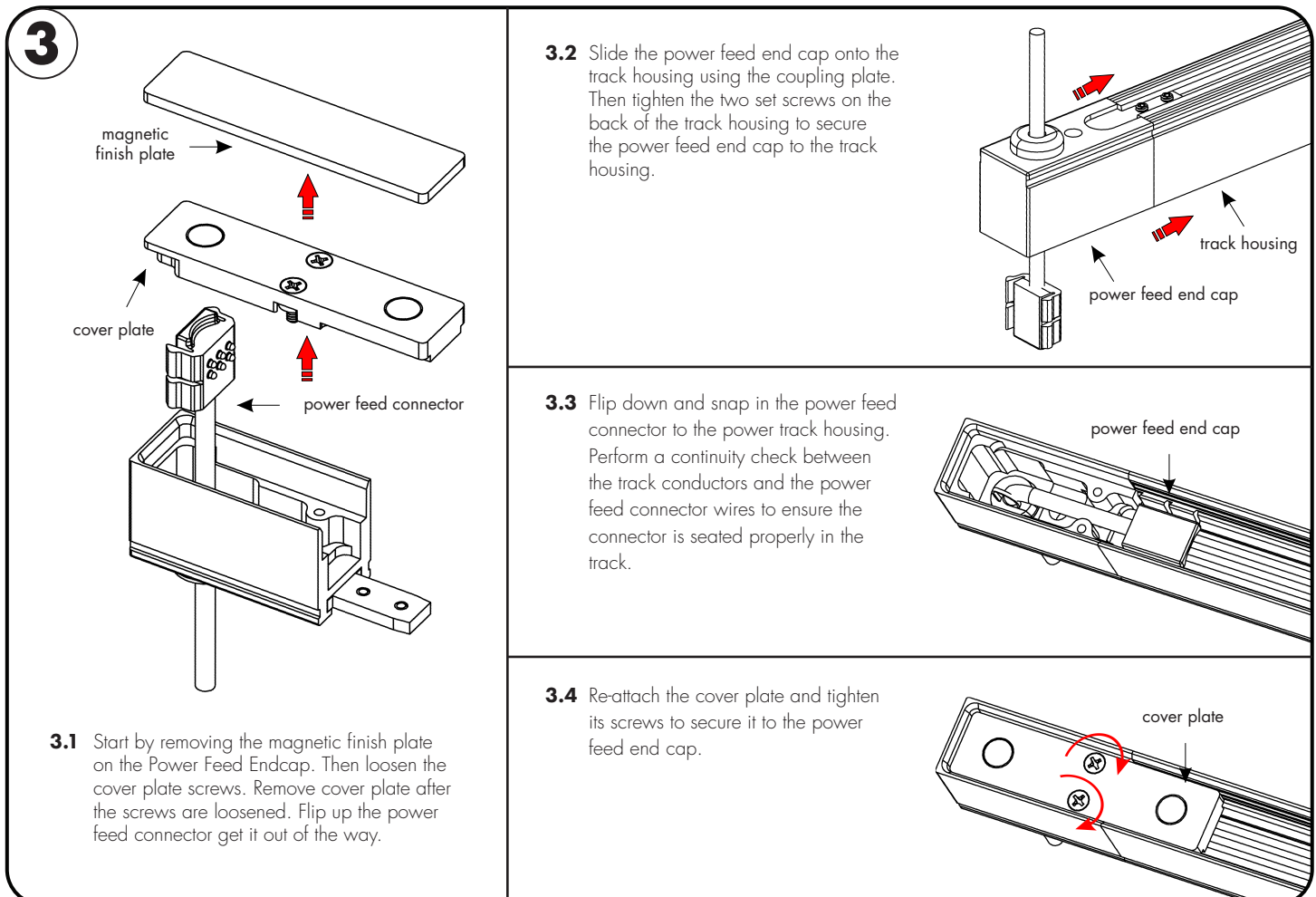
Luminii recommends not to exceed 24ft or 3 track joiners per power feed to minimize system voltage drop and avoid output variation across the run. Long runs of track can be accomplished using multiple power feeds. See page 10 for details on converting a joiner to a power feed using accessory TJ-1-72.

## Blank Endcap Installation - EC-STH3-XX



## Power Feed End Cap Installation - PF-STH3-XX

It is recommended to perform these steps before the track housing is installed on the ceiling.



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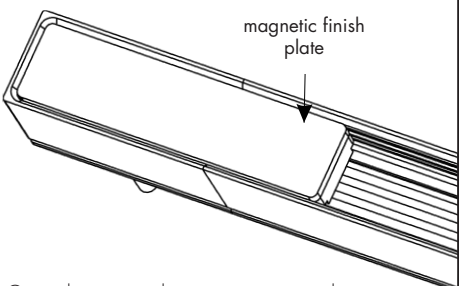
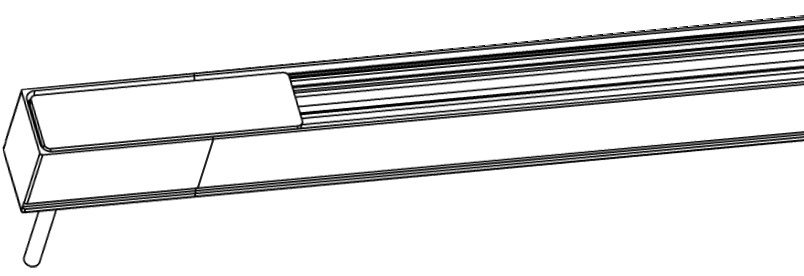
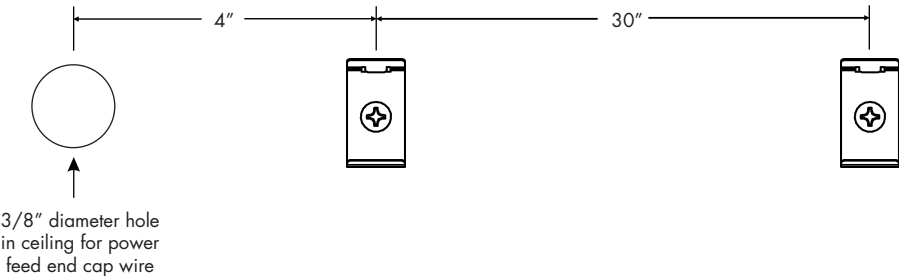
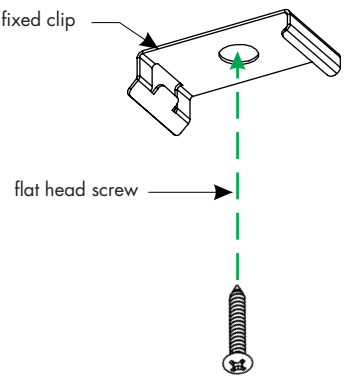
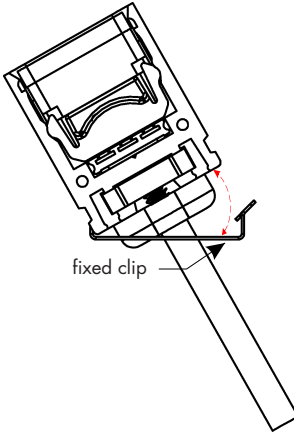
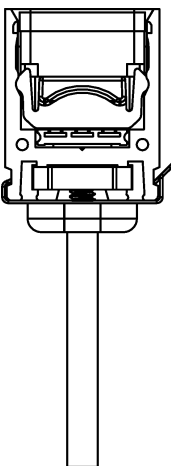
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Page 4 of 13

## Power Feed End Cap Installation (continued)

It is recommended to perform these steps before the track housing is installed on the ceiling.

<p><b>3</b></p>  <p><b>3.5</b> Once the cover plate is secure, attach the magnetic finish plate to it.</p>	 <p><i>*This is what the installation should look like so far.</i></p>	
<p><b>3.6</b> Determine the location of where the fixture(s) will be installed. Drill a 3/8" (0.375") hole in the ceiling for the power feed cable. Once that is complete, lay the fixture(s) on the surface, and make any necessary reference marks for the fixed mounting clips. Mark 4" from the center of the power feed end cap wire hole where the first fixed clip will go. Subsequent track mounting brackets should be marked 30" from the previous one.</p>  <p>3/8" diameter hole in ceiling for power feed end cap wire</p>		
 <p><b>3.7</b> Lay the fixed clip onto the reference mark points and secure using the provided #6 oval head screws.</p>	 <p><b>3.8</b> Snap the power track housing into all of the installed track mounting brackets and feed the power feed endcap wire through the hole in the ceiling.</p>	 <p><b>3.9</b> Connect the power feed wires to the remote power supply. For more information, please refer to the power supply wiring instructions.</p>

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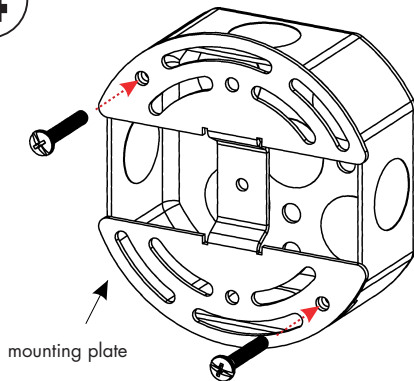
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Page 5 of 13

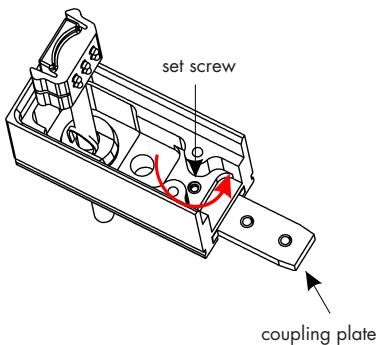
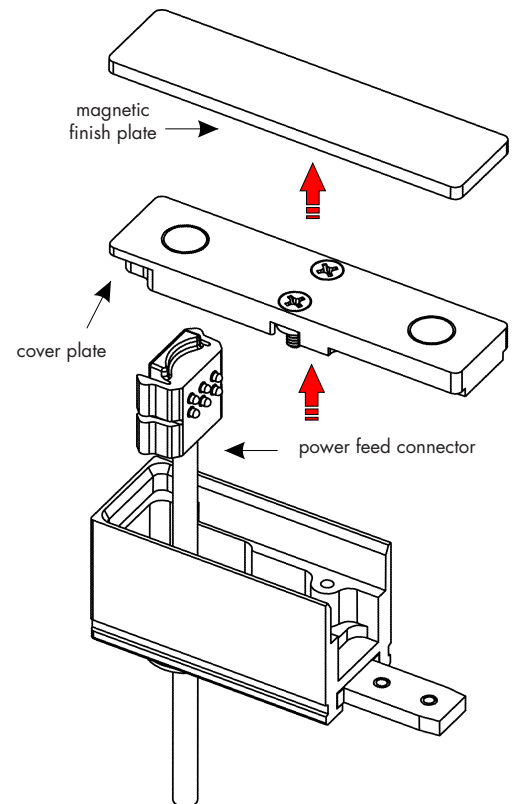
## Installation using Junction Box Cover JB4-STX-XX and Power Feed End Cap

**4**

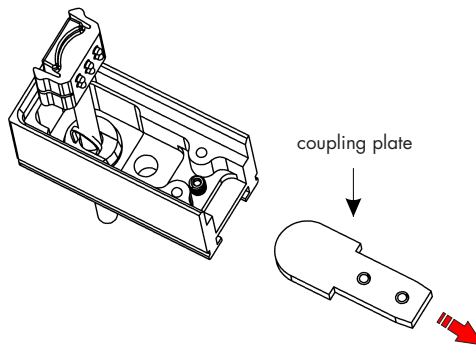


- 4.1** Affix the mounting plate to the junction box (4" square or octagon, supplied by others) using the 1" long, 8-32 screws.

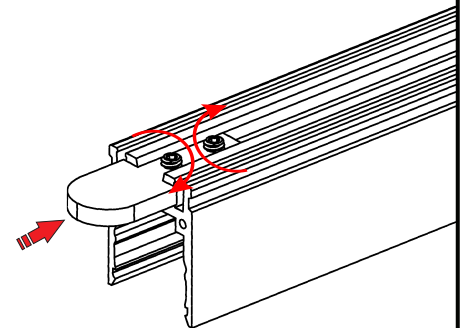
- 4.2** Remove the magnetic finish plate on the Power Feed Endcap. Then loosen the cover plate screws. Remove cover plate after the screws are loosened. Flip up the power feed connector to gain access to a set screw shown in the next step.



- 4.3** Loosen the now exposed set screw until the coupling plate is loose.



- 4.4** Remove the coupling plate.



- 4.5** Now slide the coupling plate to the backside of the track then secure it to the housing by tightening the set screws.

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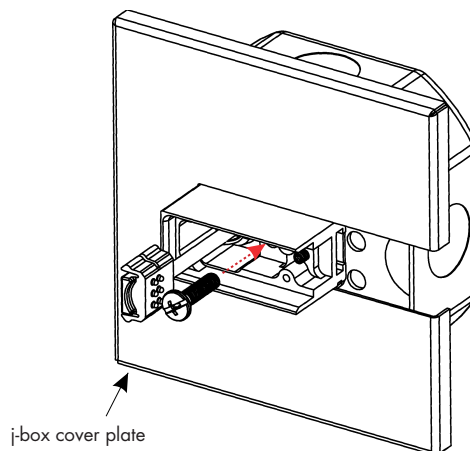
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Page 6 of 13

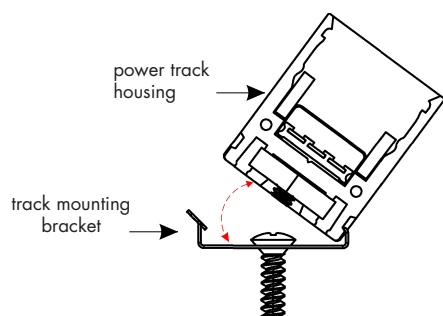
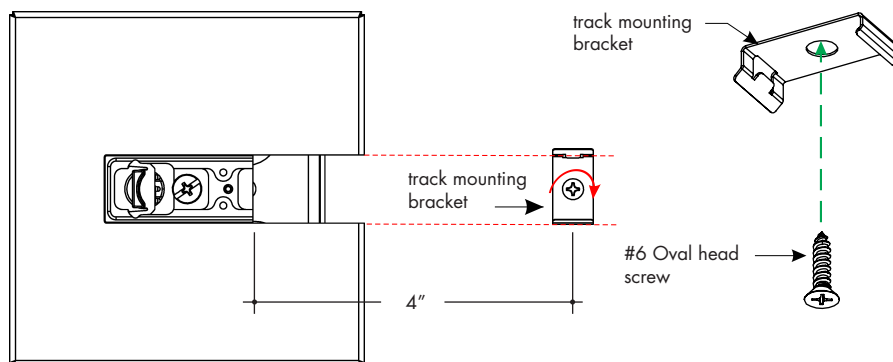
## Power Feed End Cap with Junction Box Installation (continued)

**4**

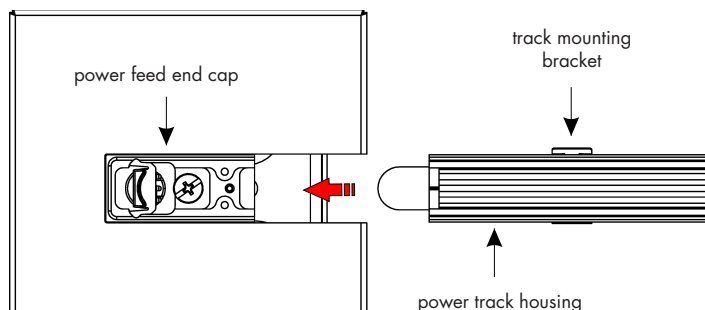
- 4.6** Trim the power feed cable short enough to fit into the junction box, then make the connections to the power supply wires.
- 4.7** Now use a 1" long, 8-32 screw through both the power feed end cap and the jbox cover plate to mount them to the mounting plate. This bolt secures both the jbox cover plate and the power feed end cap to the jbox.



- 4.8** Align and mount the track mounting brackets to the ceiling. The track mounting brackets should be 4" from either end and a maximum of 30" spacing from one another.



- 4.9** Snap the power track housing into all of the installed track mounting brackets.



- 4.10** While the power track housing is snapped into each track mounting bracket, slide the power track housing into the power feed end cap.

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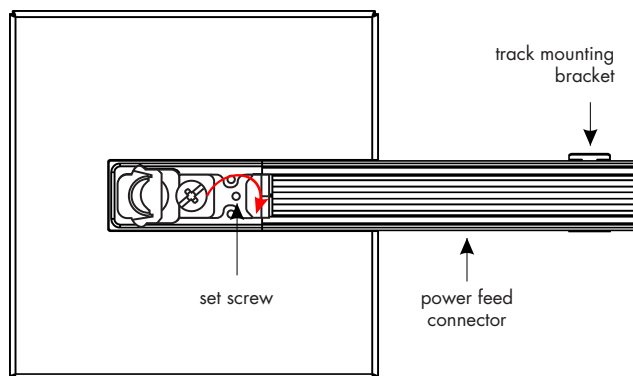
Page 7 of 13



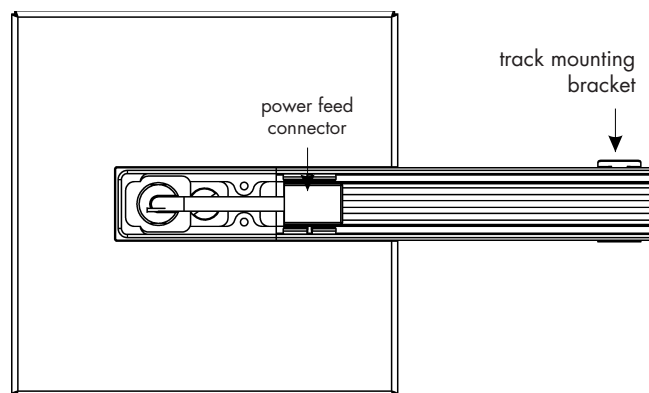
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## Power Feed End Cap with Junction Box Installation (continued)

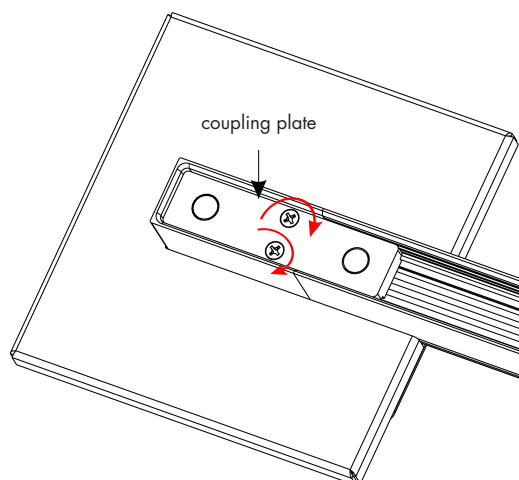
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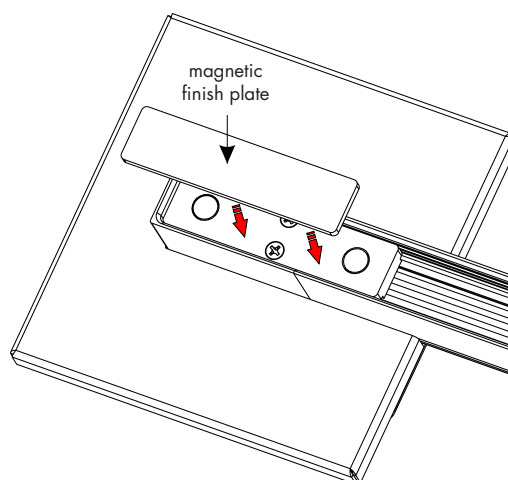
- 4.11** Tighten the exposed set screw until the power feed end cap is secure to the power track housing.



- 4.12** Flip down and snap in the power feed connector to the power track housing.



- 4.13** Re-attach the cover plate and tighten its screws to secure it to the power feed end cap.



- 4.14** Once the cover plate is secure, attach the magnetic finish plate to it.

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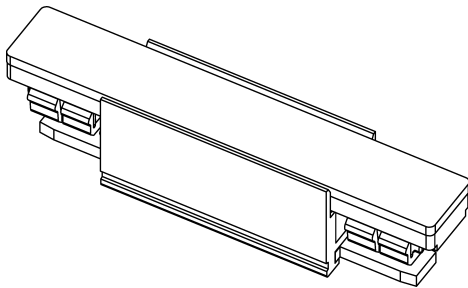
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Page 8 of 13

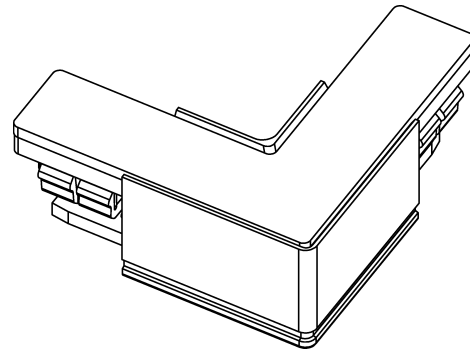
## Installation of Joiners

**5**

Straight Joiner

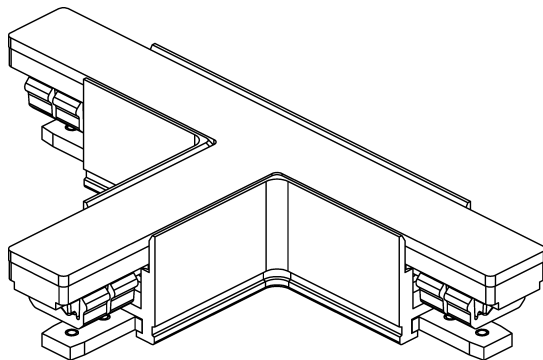


L-Joiner



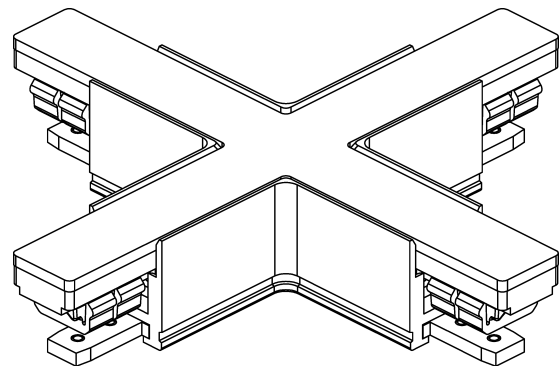
Use the same installation method for the L-joiner as the straight power feed joiner

T-Joiner



Use the same installation method for the T-joiner as the straight power feed joiner

X-Joiner



Use the same installation method for the X-joiner as the straight power feed joiner



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Page 9 of 13

## Installation of Joiners (continued)

**5**

power track housing

power track housing

power feed joiner

**5.1** Remove the magnetic finish plate on the Power Feed Joiner. Remove cover plate after the screws are loosened. Remove power feed connector to gain access to two set screws shown in the next step.

magnetic finish plate

cover plate

power feed connector

coupling plate

set screw

coupling plate

**5.2** Loosen the now exposed set screws, then remove the coupling plates.

**5.3** Slide the coupling plate into the back of the track housing, then tighten the set screws to secure them.

**5.4** Install the 1st track section per Step #2.6-2.9 or #3.8-3.12 depending on if you are installing to a jbox or not.

coupling plate

power track joiner

set screw

**5.5** Now that the power track is mounted and installed, slide the joiner end cap over the coupling plate and secure by tightening the set screw on the power track joiner.

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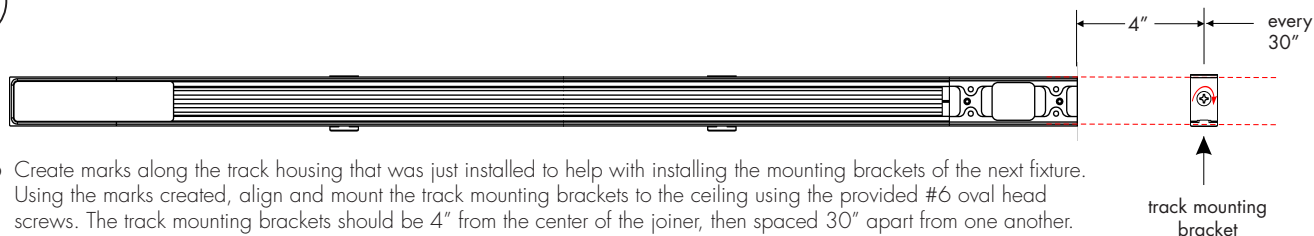


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Page 10 of 13

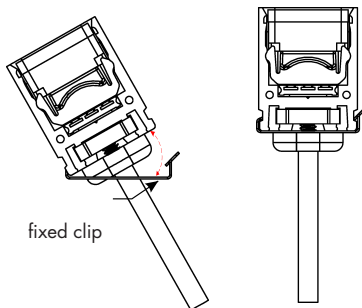
## Straight Power Feed Joiner Installation (continued)

**5**

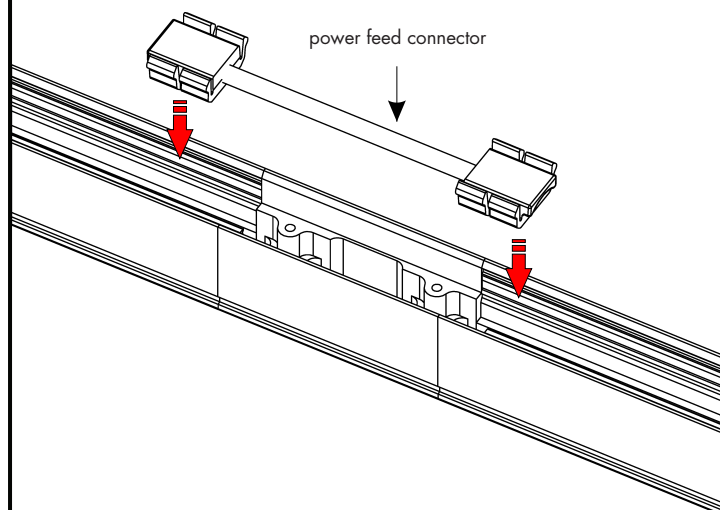


- 5.6** Create marks along the track housing that was just installed to help with installing the mounting brackets of the next fixture. Using the marks created, align and mount the track mounting brackets to the ceiling using the provided #6 oval head screws. The track mounting brackets should be 4" from the center of the joiner, then spaced 30" apart from one another.

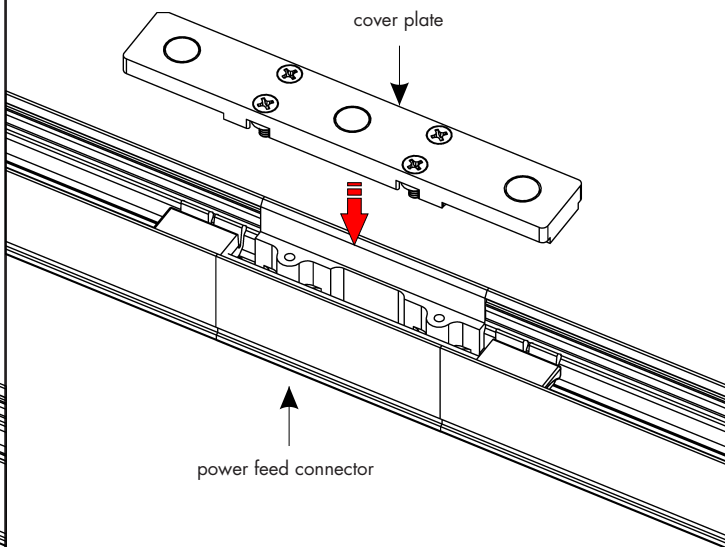
- 5.7** Snap the power track housing into all of the installed track mounting brackets.



- 5.8** Now that the next power track has been mounted and installed, slide it to the previously installed power joiner end cap and secure it using the set screw on the power joiner end cap.



- 5.9** Snap in the power feed connector to either end of the power track housing. Perform a continuity check between the track conductors to ensure the connector is seated properly in the track. If you have power feeds on each end, skip this step to provide electrical isolation.



- 5.10** Re-attach the cover plate and tighten its screws to secure it to the power feed joiner.

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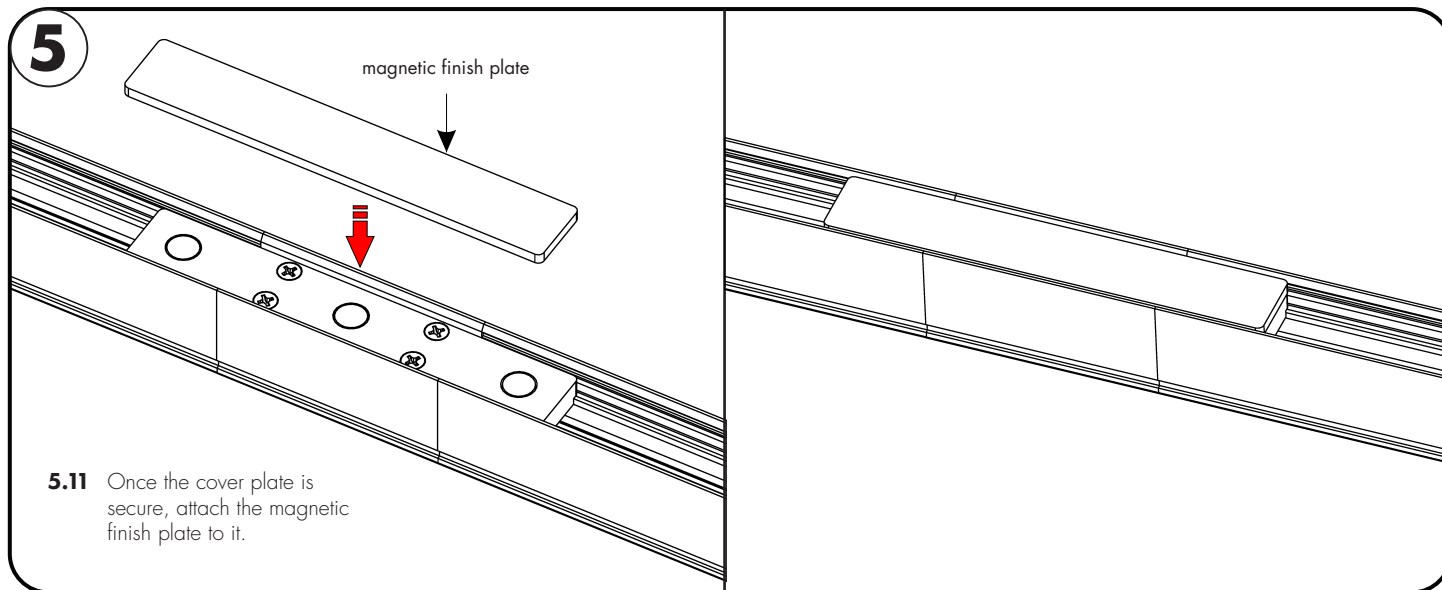


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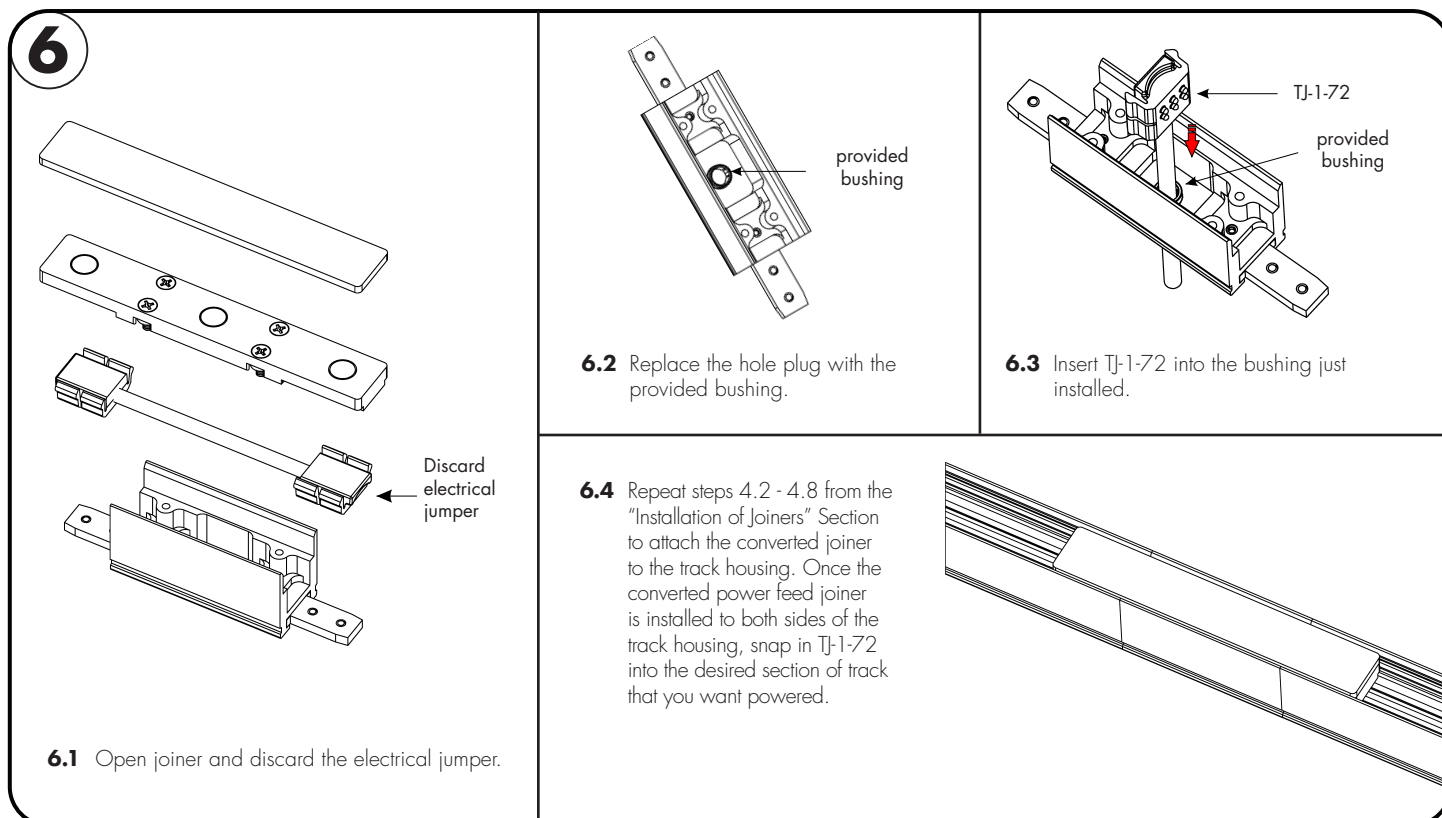
Page 11 of 13

## Straight Power Feed Joiner Installation (continued)



## Converting a Joiner to a Power Feed

For long continuous runs and closed patterns (i.e. rectangle), power feeds may need to be added to the Joiners. The following steps describe how to convert a standard Joiner to a Power Feed Joiner using TJ-1-72.



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Page 12 of 13

## Module and Cover Installation

### 7

power feed end cap

track housing

power feed joiner

track cover

directional module

ambient module

directional module

### 7.1

**CORRECT**

**INCORRECT**

track housing

directional module

**7.1** Carefully align then snap the ambient or directional module fixture into the surface/recessed track housing. When doing this installation, it is easier to install each fixture at an angle like in the image above. Be careful to ensure that the module has full connection to the track and isn't sitting at an odd angle (see picture to the left).

### 7.2

Track covers may be cut to length in the field and installed between modules to create a closed aesthetic look.

track cover

directional module

track cover

ambient module

### 7.3

Plastic Tool

**7.3** To remove the directional or ambient modules from the track housing, use the provided plastic tool to pry out the modules from the ends. It is easier to remove one end at a time as in the image shown.

**Note:** Total wattage of installed modules must not exceed 96W, 4A  
Maximum per power feed.

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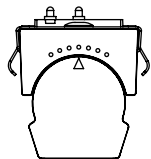
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Page 13 of 13

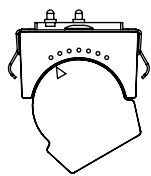
## Module and Cover Installation (continued)

**7**

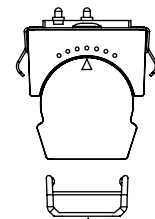
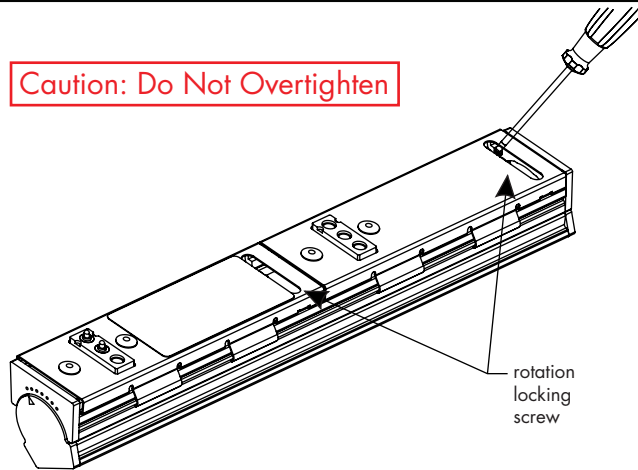
vertical position



tilted position



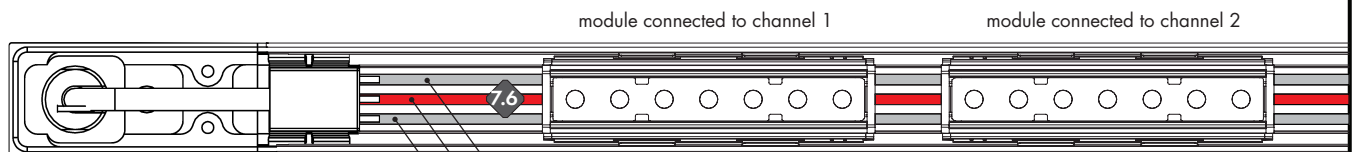
**Caution: Do Not Overtighten**



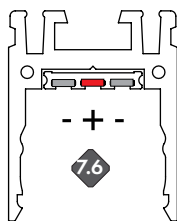
lens accessory

**7.4** The directional modules can be aimed  $\pm 30^\circ$  by loosening the rotation locking screws and setting to the desired angle. Retighten the rotation locking screws before inserting the directional module into the track housing to lock in the desired angle.

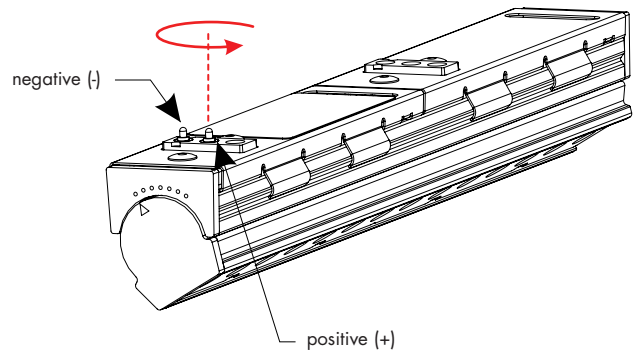
**7.5** Optional lens accessories simply snap into fixture head of the Stenos Directional Module.



channel 1, negative (-)  
positive (+)  
channel 2, negative (-)



rotate 180°, if connecting to other circuit



**7.6** The power track contains three copper conductors: The center conductor is a common positive (+), while the outer conductors are separate negatives (-).

**7.7** The ambient and directional modules have asymmetric electrical contact pins that allow for 2-channel installations depending upon the module orientation when inserted into the track housing. This 2-channel feature of the power track allows for the creation of two separately controllable lighting zones. For example, all ambient modules can be controlled on channel #1 and all directional modules can be controlled on channel #2.

**7.8** If only 1 channel control is desired, the separate negative (-) power feed wires can be tied together when wiring the remote power supply.