

Stenos Installation Instructions

Trimless Recessed Track

Please read all instructions 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. TYPE IC (CEILING AND WALL) INHERENTLY PROTECTED

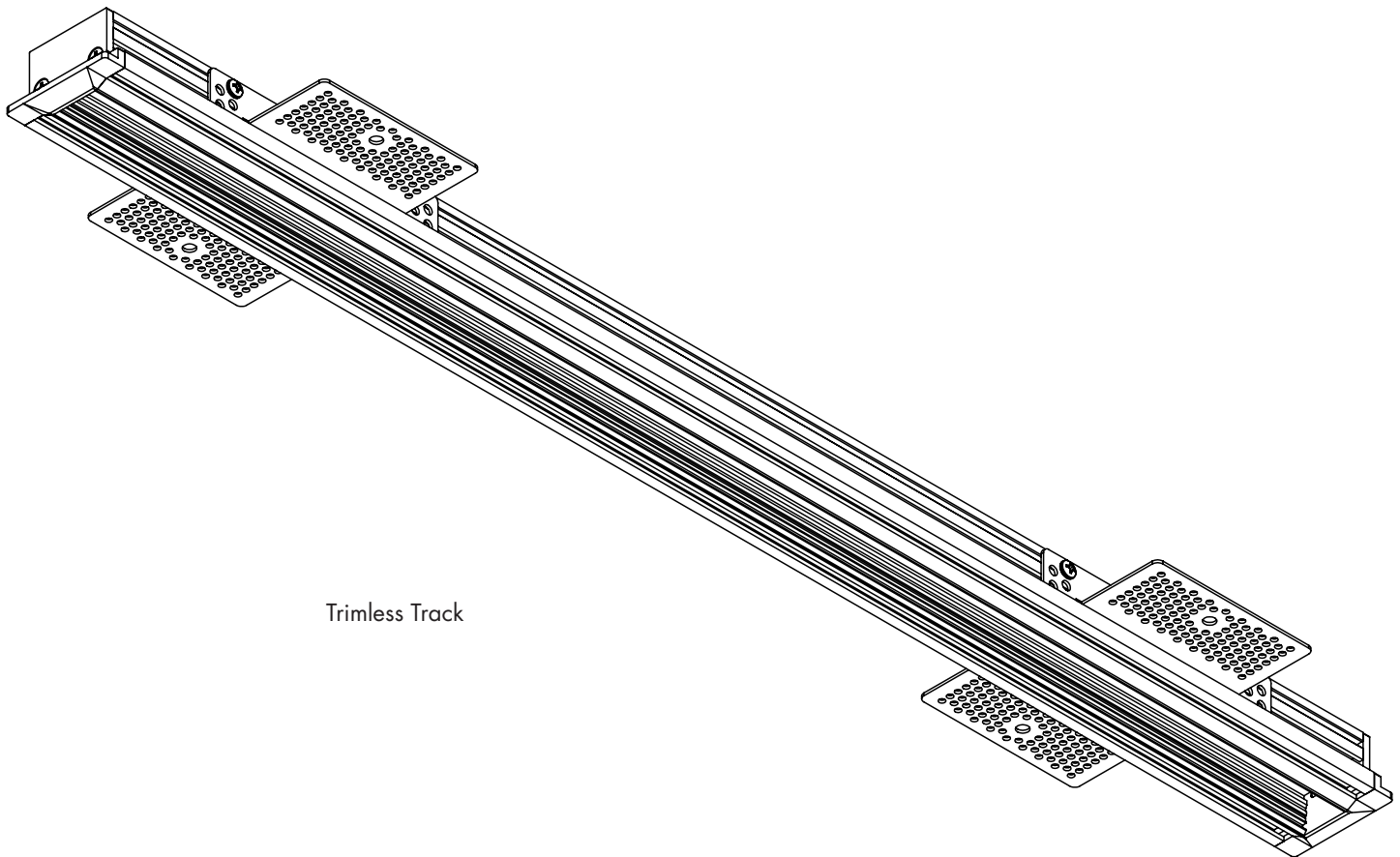


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Trimless Track



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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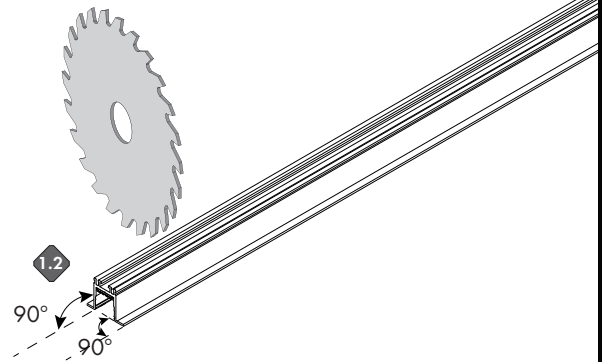
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Field Cutting

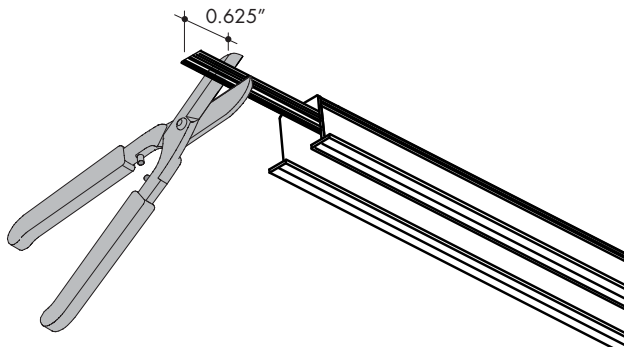
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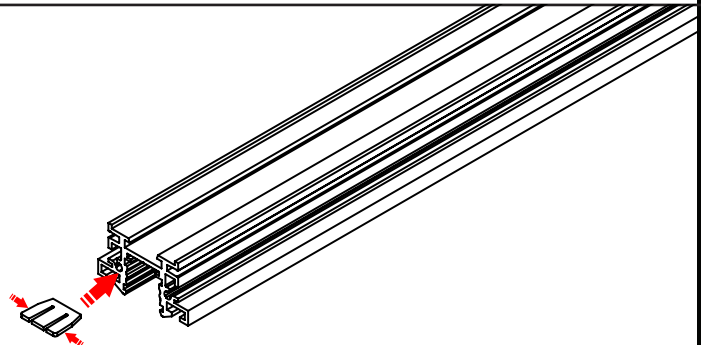
- 1.1** Pull out the insulator/spacer from the end of the extrusion to be cut.



- 1.2** When cutting the extrusion in field, ensure that the extrusion is sitting perpendicular to the cutting surface.



- 1.3** Trim the power track back 5/8" with hand shears to fit the length of the extrusion, so that there is enough room for the end insulator/spacer to be installed.



- 1.4** Re-install insulator/spacer onto cut end.

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Track Preparation

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Insulator/Spacer



- 2.1** Remove a spacer from one end to allow room for a power feed cable.

2.2



- 2.2** Using a hand drill, drill a 3/8" hole, 3/8" from the end of the track housing.

Bushing/grommet



0.375"

0.375"

- 2.3** Deburr the hole or add a bushing/grommet to protect the power feed cable from damage.

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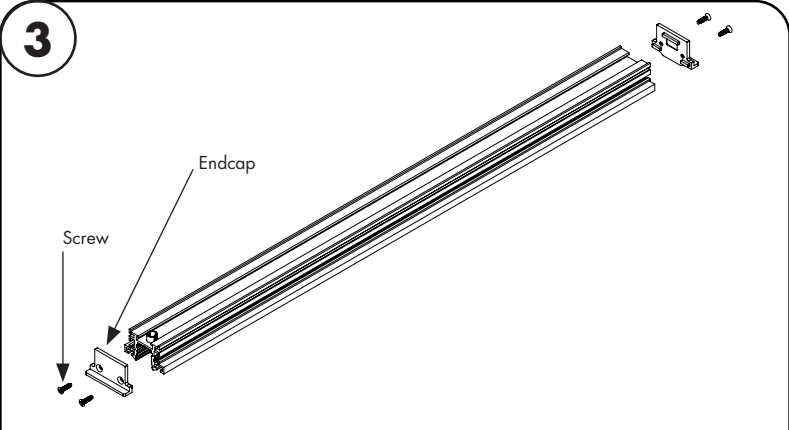
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Endcap Installation

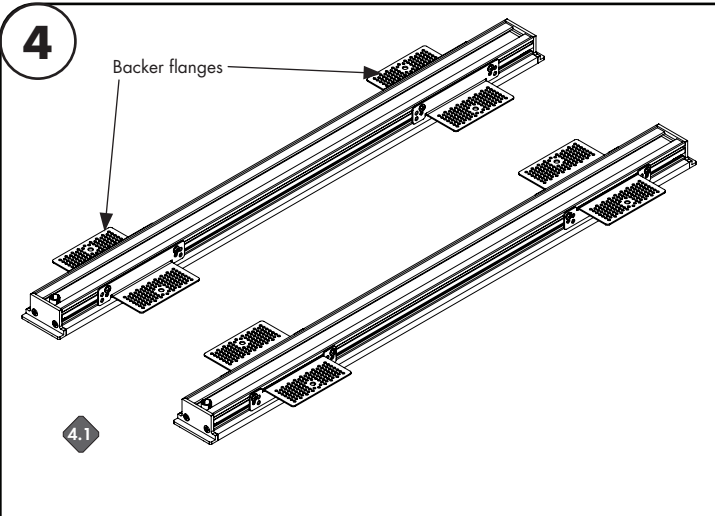
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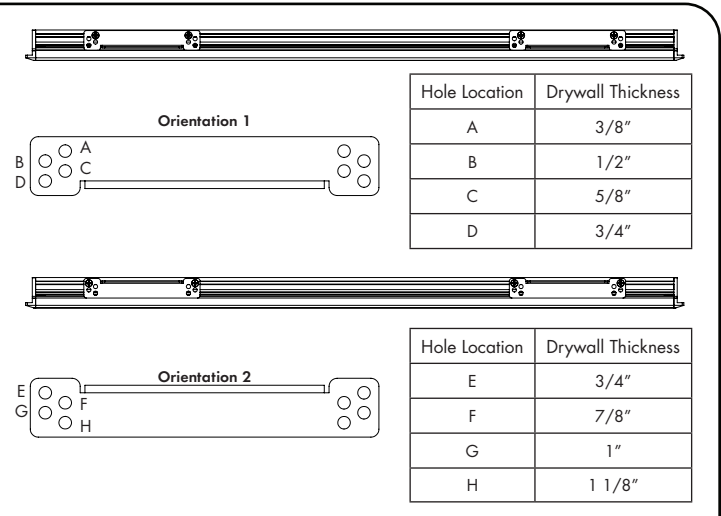
3.1 Using the provided screws, fasten the endcaps.

Backer Flange Installation

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4.1 Backer flanges should be installed on both sides of the track. The backer flange has four hole positions and two orientations.

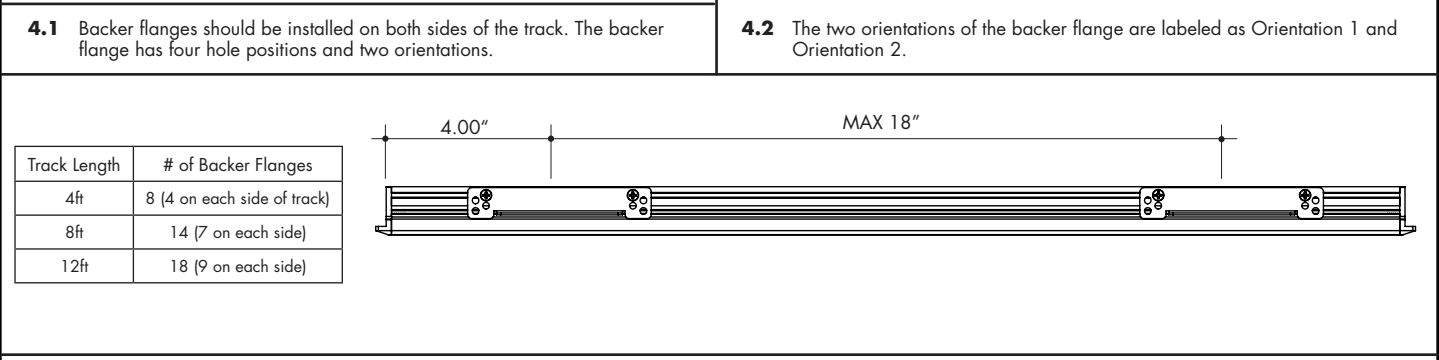


Hole Location	Drywall Thickness
A	3/8"
B	1/2"
C	5/8"
D	3/4"

Hole Location	Drywall Thickness
E	3/4"
F	7/8"
G	1"
H	1 1/8"

4.2 The two orientations of the backer flange are labeled as Orientation 1 and Orientation 2.

Track Length	# of Backer Flanges
4ft	8 (4 on each side of track)
8ft	14 (7 on each side)
12ft	18 (9 on each side)



4.3 Backer flanges should be located 3-4" from each end and spaced apart no greater than 18". All measurements are from the centerline of the backer flange.

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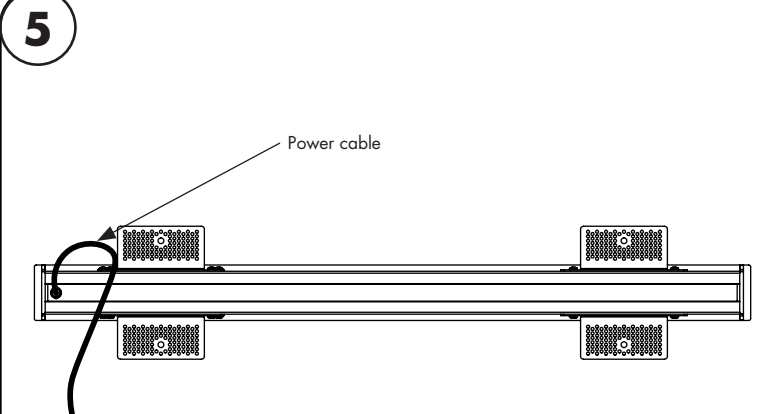
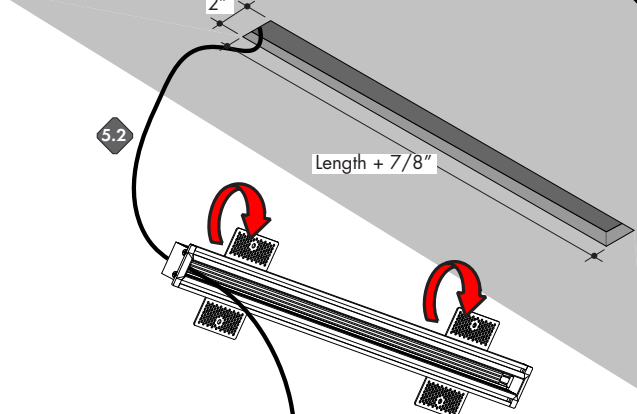
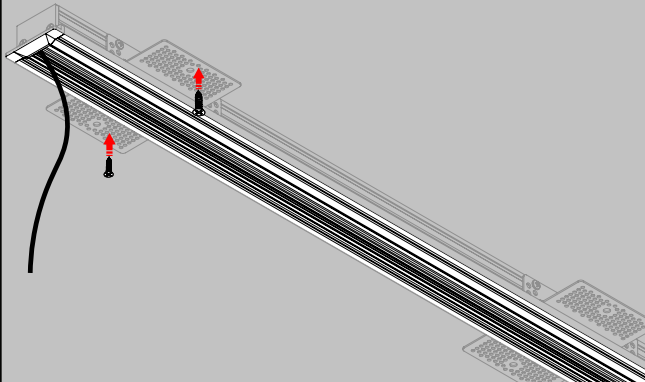
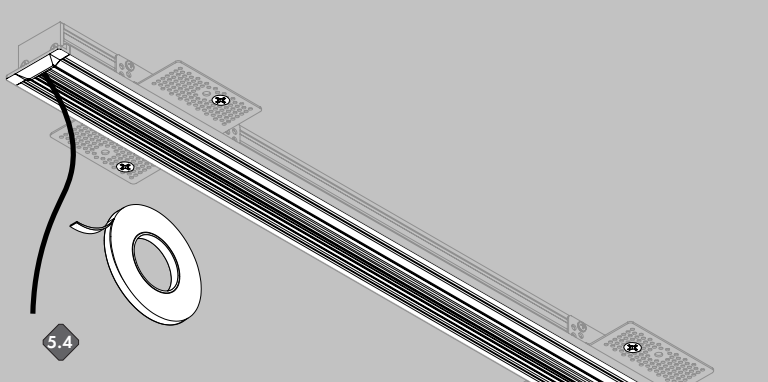
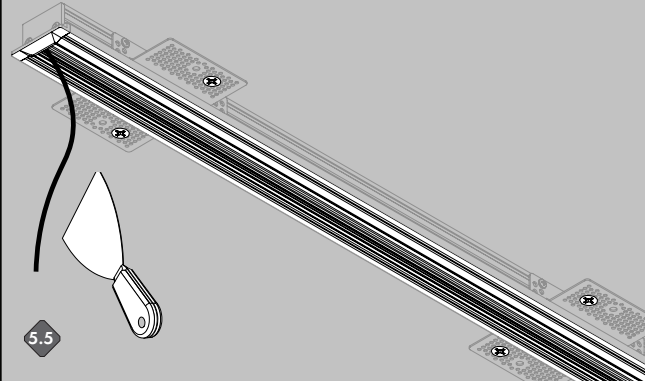
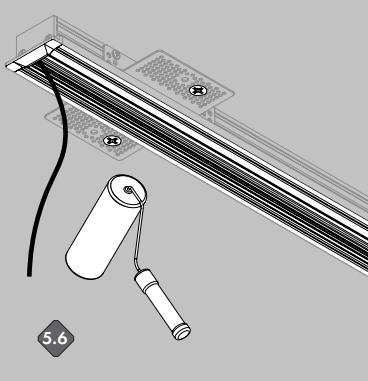
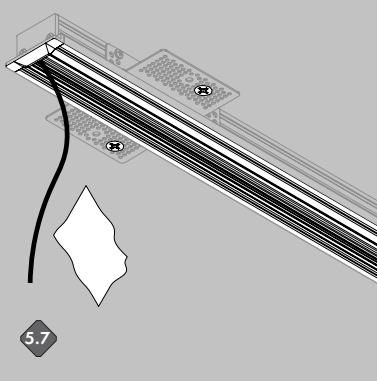
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Mounting Method 1: Remodel Install

 <p>5</p> <p>Power cable</p>	 <p>2"</p> <p>Length + 7/8"</p> <p>5.2</p>	
<p>5.1 Give the power cable 8"-12" of slack protruding from the track for wiring.</p>	<p>5.2 Route power feed cable through power feed hole, then insert the track into slot in drywall at an angle. Slot should be 2" width by (track length + 7/8") length.</p>	
 <p>5.3</p>	 <p>5.4</p>	
<p>5.3 Screw through drywall into backer flange perforations using #6 size drywall screws.</p>	<p>5.4 Apply mudding tape to perimeter of slot.</p>	
 <p>5.5</p>	 <p>5.6</p>	 <p>5.7</p>
<p>5.5 Begin the spackling process, taking care not to have debris accumulate on any contacts. Mud over the perimeter of the slot until the fixture is flush with the drywall.</p>	<p>5.6 Paint over the spackled perimeter.</p>	<p>5.7 Be sure to thoroughly clean track and remove any debris or dust before wiring.</p>

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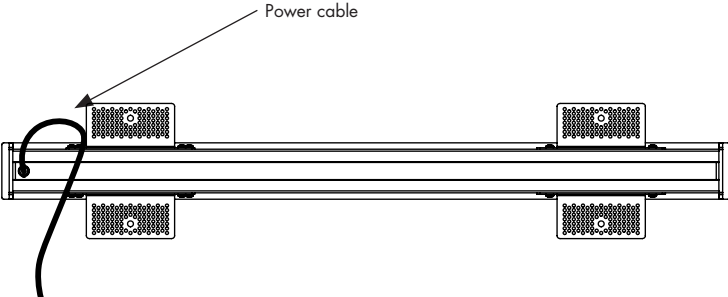
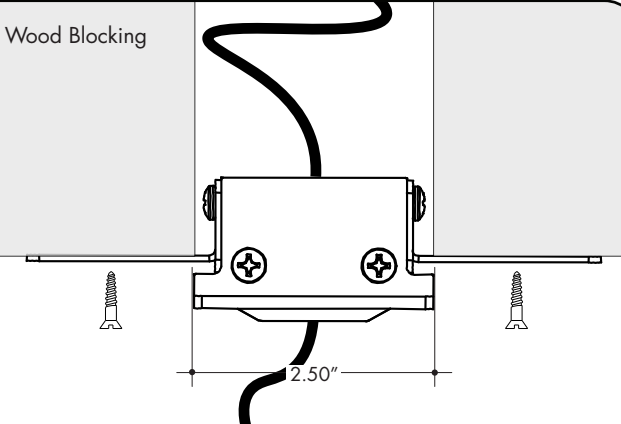
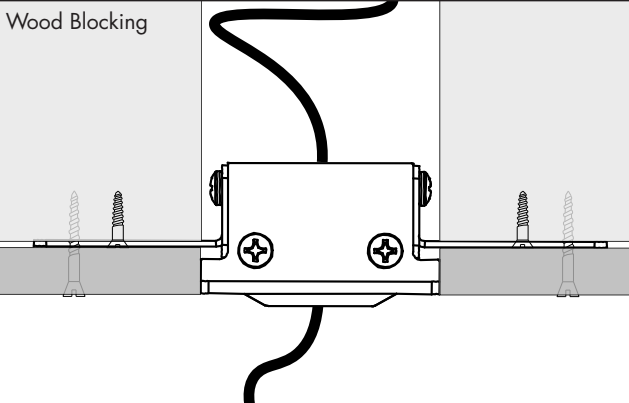
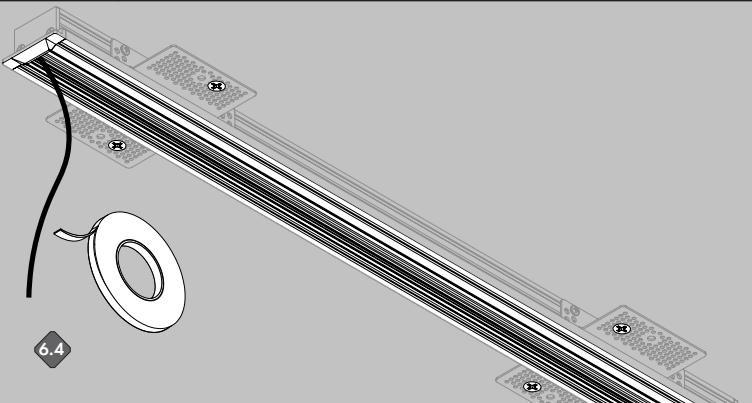
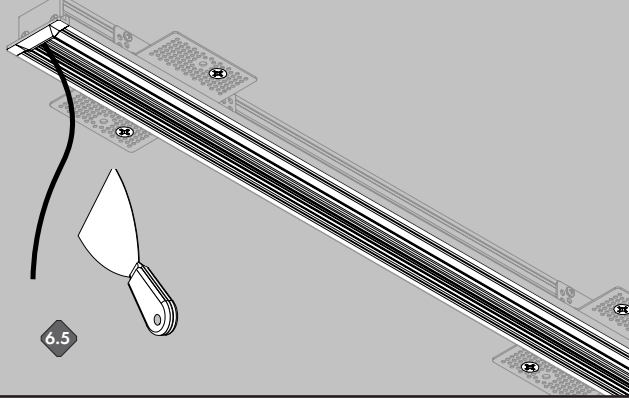
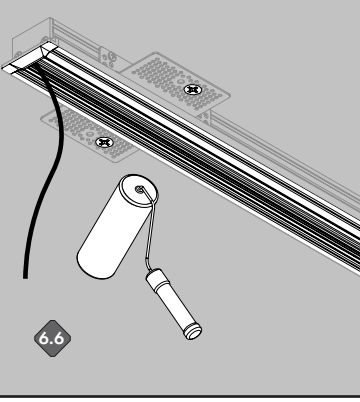
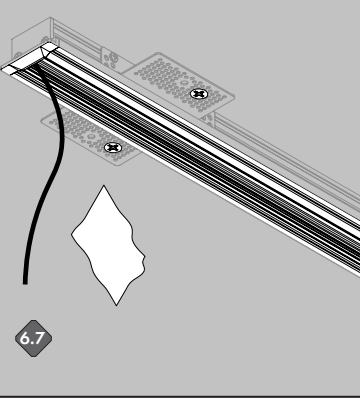
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Mounting Method 2: New Install with Blocking

 <p>6.1 Give the power cable 8"-12" of slack protruding from the track for wiring.</p>	 <p>6.2 Using wood blocking to create a 2-1/2" channel for the track to mount to. Route power feed cable through power feed hole, while ensuring the power feed is given enough slack for wiring the power feed to the cable. Fasten to wood using #6 flathead screws.</p>	
 <p>6.3 Screw through drywall into backer flange perforations using #6 size drywall screws.</p>	 <p>6.4 Apply mudding tape to perimeter of slot.</p>	
 <p>6.5 Begin the spackling process, taking care not to have debris accumulate on any contacts. Mud over the perimeter of the slot until the fixture is flush with the drywall.</p>	 <p>6.6 Paint over the spackled perimeter.</p>	 <p>6.7 Be sure to thoroughly clean track and remove any debris or dust before wiring.</p>

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Mounting Method 3: New Install with Mounting Bracket for Threaded Rod or Hangar Bars

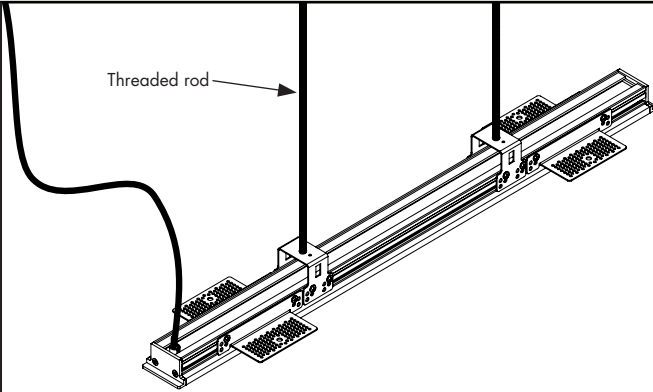
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Length of Track	# of Brackets
4ft	3
8ft	4
12ft	6



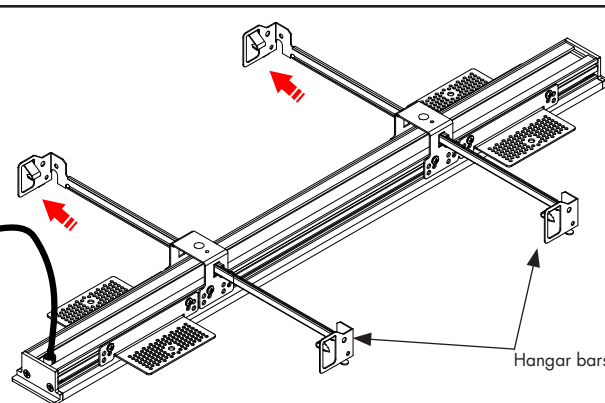
7.1 The mounting bracket is screwed onto the track using the same method as the backer flange. The brackets should be located up to 8" from each end and spaced apart no greater than 30". All measurements are from the centerline of the bracket.

*The mounting bracket is included if the track is ordered with mounting code MB.



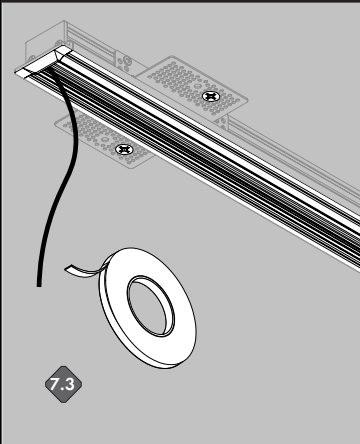
Threaded rod

7.2 If using threaded rod, the threaded rod should be secured to the structure above, then secured to the center hole of the bracket using two nuts (one on bottom and one on top). The mounting height of the track should be adjusted so that the bottom of the backer flange is flush with the bottom of the joists. Threaded rod and nuts are not supplied by Luminii.

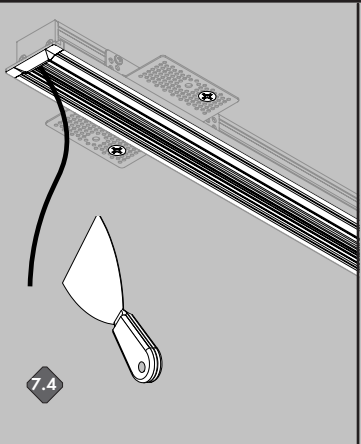


Hangar bars

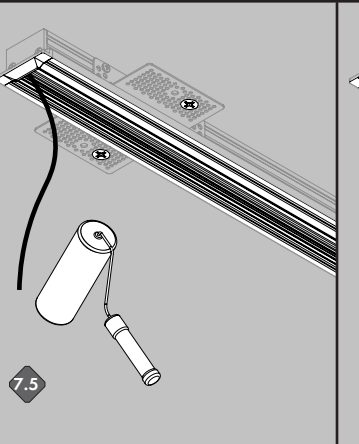
7.7 If using a hangar bar, the hangar bars should be inserted perpendicularly through the bracket, and the pincers hammered through wooden joists. The track can slide laterally on the hangar bars for positioning. Once the hangar bars are fastened, attach drywall to flanges with #6 drywall screws.



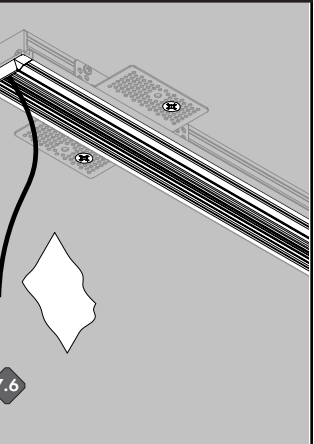
7.3 Apply mudding tape to perimeter of slot.



7.4 Begin the spackling process, taking care not to have debris accumulate on any contacts.



7.5 Paint over the spackled perimeter.



7.6 Be sure to thoroughly clean track and remove any debris or dust before wiring.

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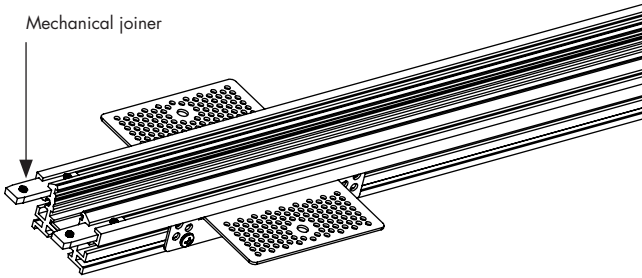
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Continuous Row Mounting

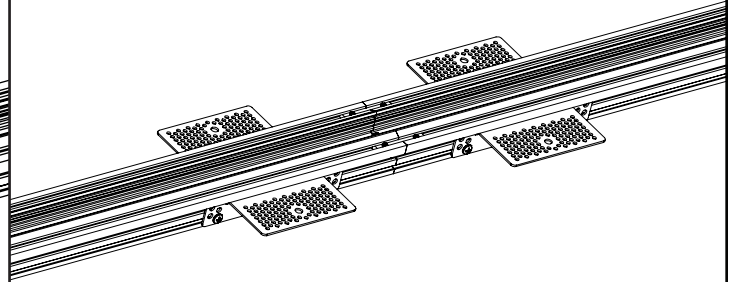
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- 8.1** Insert two mechanical joiners into one track housing on the outside front surface and tighten set screws.

Mechanical joiner



- 8.2** Slide the second track over the mechanical joiners and use the remaining set screws to make a secure, aligned join.

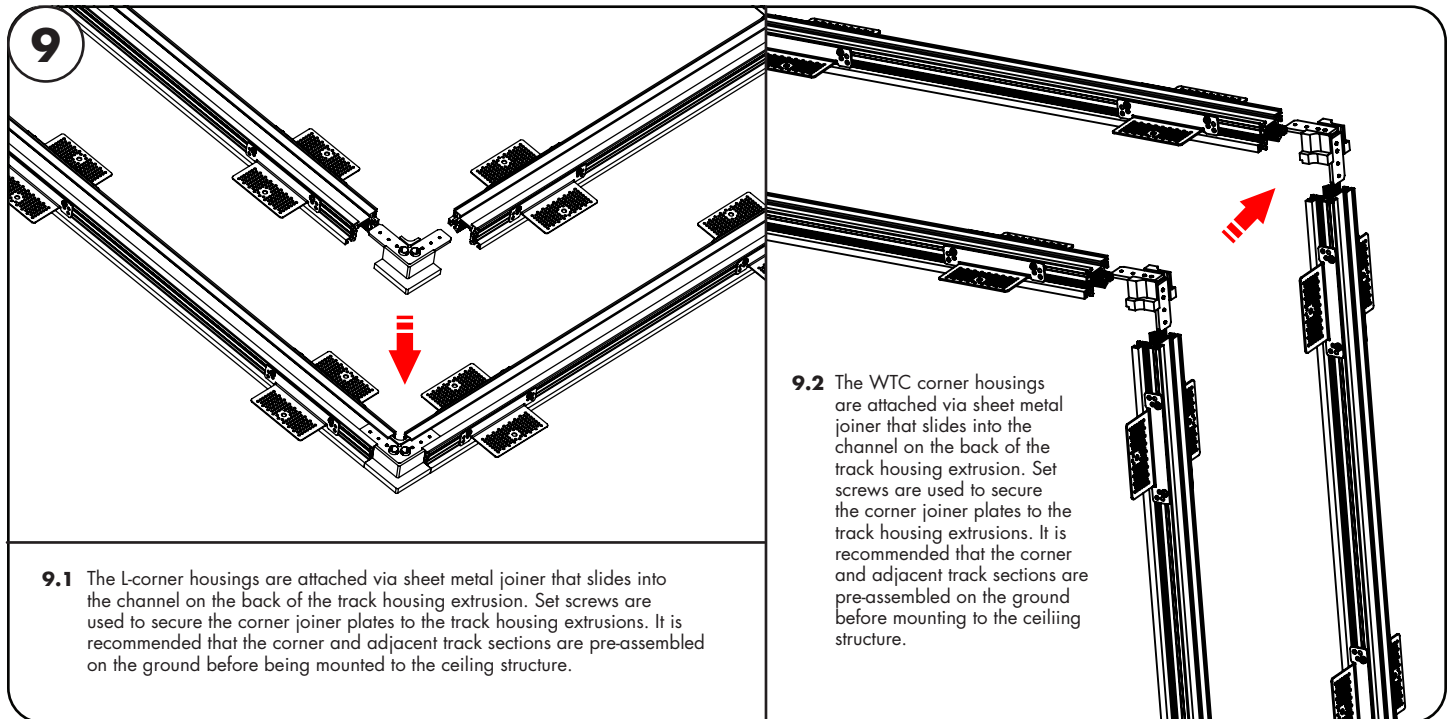


L and WTC Corner Housings

9

- 9.1** The L-corner housings are attached via sheet metal joiner that slides into the channel on the back of the track housing extrusion. Set screws are used to secure the corner joiner plates to the track housing extrusions. It is recommended that the corner and adjacent track sections are pre-assembled on the ground before mounting to the ceiling structure.

- 9.2** The WTC corner housings are attached via sheet metal joiner that slides into the channel on the back of the track housing extrusion. Set screws are used to secure the corner joiner plates to the track housing extrusions. It is recommended that the corner and adjacent track sections are pre-assembled on the ground before mounting to the ceiling structure.



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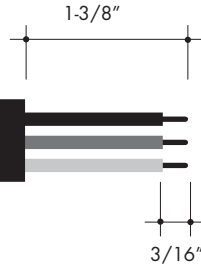
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Power Feed Install

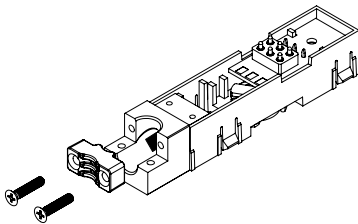
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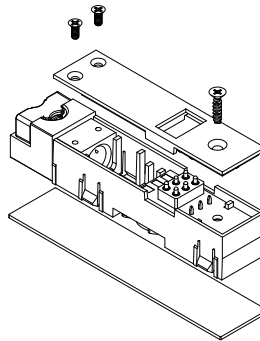
NOTE: USE ONLY WITH CLASS 2 POWER UNIT 24 VDC 4A MAX

- 10.1** Strip power cable back 1-3/8" in order to connect power feed. 18 AWG 3 conductor cable, maximum diameter of 0.26".

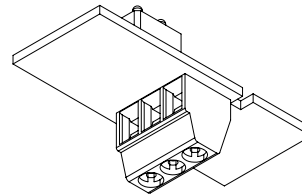
- 10.1** Remove the cover by unscrewing the three screws on top. Remove the magnetic cosmetic plate.



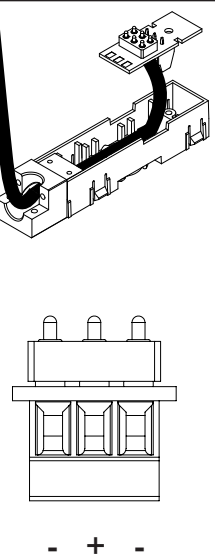
- 10.2** Remove the strain relief clamp by unscrewing the two screws.



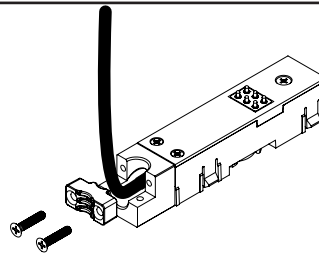
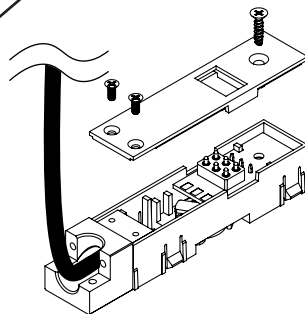
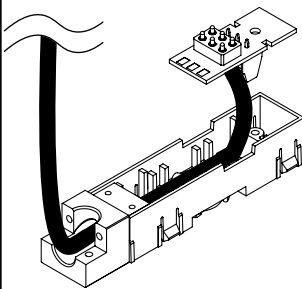
- 10.3** Remove the wiring terminal block PCB. Then, pass the power feed cable through the opening of the power feed.



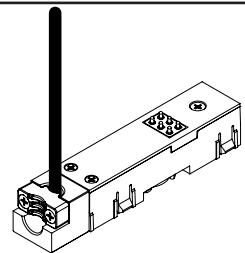
- 10.4** The center terminal is common positive (+) whereas the two outer terminals are separate negatives (-). The wiring terminal tightening torque is 2 in-lbs.



- 10.5** Reattach the wiring terminal block PCB into the power feed housing. Then, reattach the cover using the three screws.

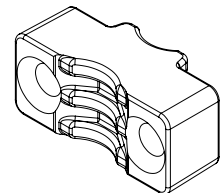
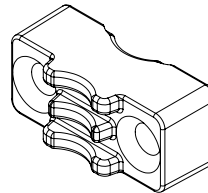


Side A: For small diameter cables



Side B: For large diameter cables

- 10.6** Bend the power feed cable 90° so the cable is going straight up towards the ceiling. Then, reattach the strain relief clamp. The strain relief clamp has two sides; one for smaller diameter cables and one for larger diameter cables. **NOTE: Take care not to overtighten the strain relief clamp to prevent damage to cable.**



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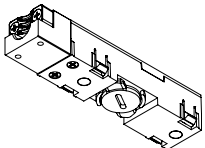
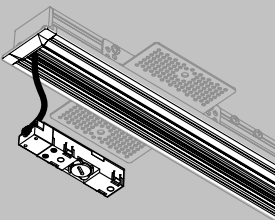
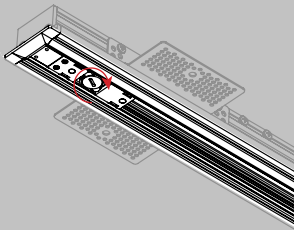
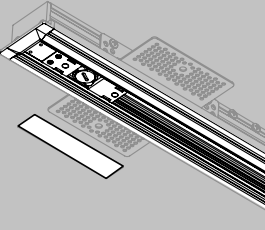
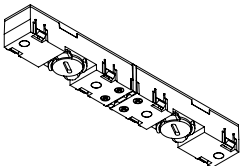
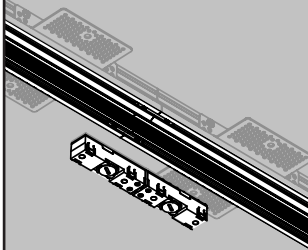
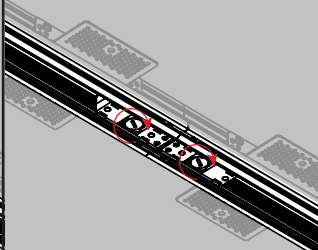
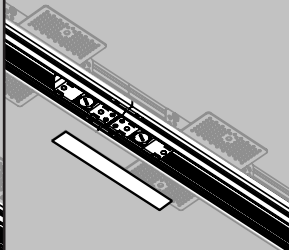
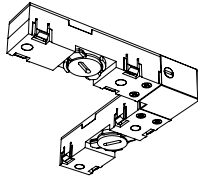
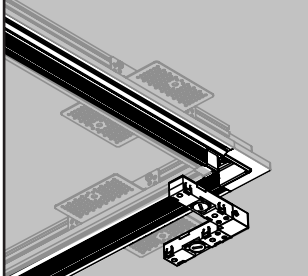
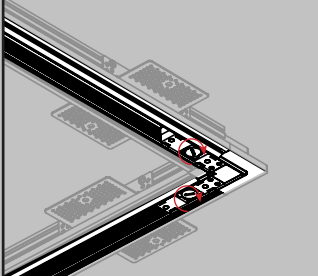
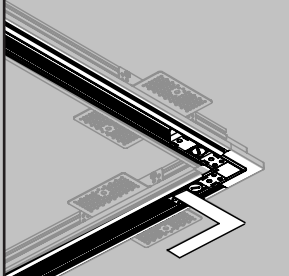
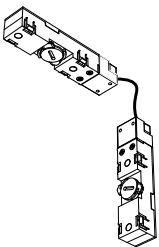
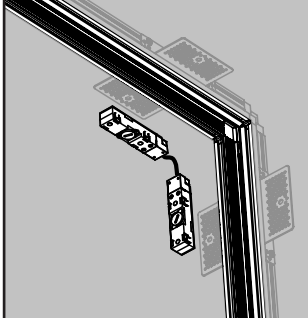
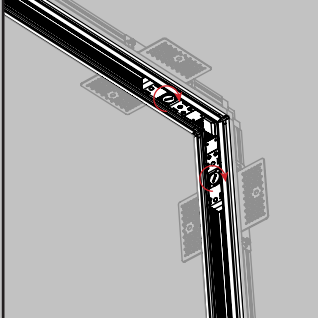
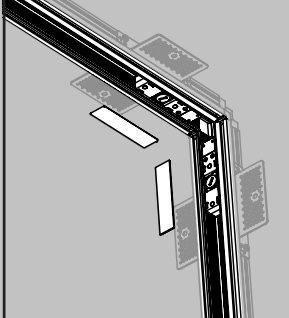
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Electrical Joiner Install

<div>11</div> <div>Power Feed</div> 			
<div>Straight Joiner</div> 			
<div>L Joiner</div> 			
<div>Flexible Joiner</div> 			
<p>Perform a continuity check between the track conductors and the power cable to ensure that the power feed is sitting properly in the track.</p>	<p>11.1 Snap the power feed into the track</p>	<p>11.2 Rotate locking cam, fix power feed in track.</p>	<p>11.3 Place magnetic cosmetic finish plate over power feed. Each joiner comes with one black and one white finish plate.</p>

Stenos Installation Instructions

Trimless Recessed Track

Please read all instructions 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. TYPE IC (CEILING AND WALL) INHERENTLY PROTECTED



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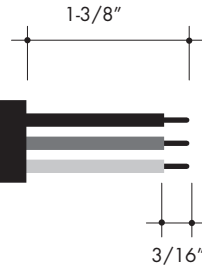
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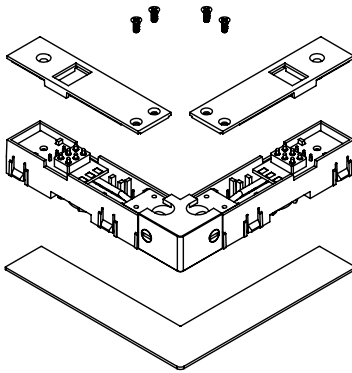
Converting L Joiner into a Power Feed

12



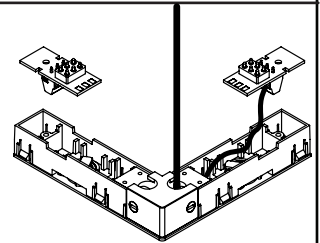
NOTE: USE ONLY WITH CLASS 2 POWER UNIT 24 VDC 4A MAX

- 12.1** Strip power cable back 1-3/8" in order to connect power feed. 18 AWG 3 conductor cable, maximum diameter of 0.26".

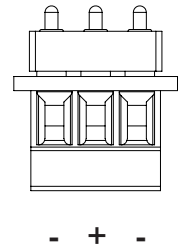


- 12.2** Remove the cover by unscrewing the three screws on top. Remove the magnetic cosmetic plate.

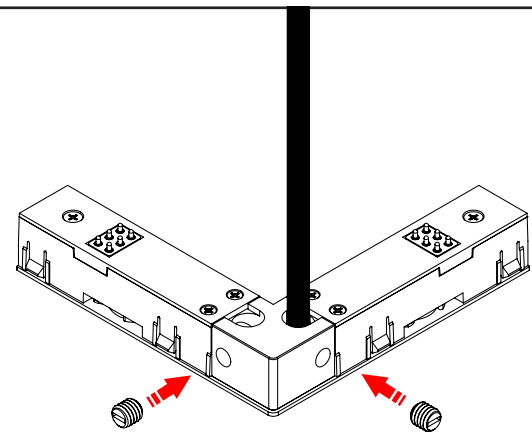
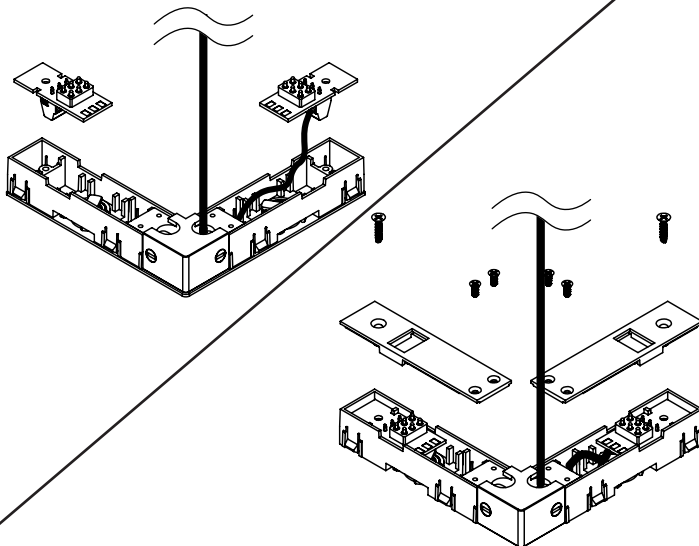
- 12.3** Remove the wiring terminal block PCB and discard jumper wires. Then, pass the power feed cable through the opening of the power feed.



- 12.4** The center terminal is common positive (+) whereas the two outer terminals are separate negatives (-). The wiring terminal tightening torque is 2 in-lbs.



- 12.5** Reattach the wiring terminal block PCB into the power feed housing. Then, reattach the cover using the three screws.



- 12.6** To provide strain relief for the power feed cable on the L joiner, tighten the nylon set screws, taking care not to overtighten and cause damage to the cable.

Stenos Installation Instructions

Trimless Recessed Track

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2. USE ONLY WITH CLASS 2 POWER UNIT
3. 24 VOLTS DC
4. SUITABLE FOR DRY LOCATIONS ONLY

5. TYPE IC (CEILING AND WALL) INHERENTLY PROTECTED



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Module and Cover Installation

13

Diagram 13.1 shows a long track housing with several modules installed. An ambient module is shown separately below the track. To the right, a track cover and a directional module are shown being snapped into the track housing.

13.1

13.1 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).

13.2

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

13.2

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

13.3

13.3 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.

Stenos Installation Instructions

Trimless Recessed Track

Please read all instructions prior to installation and keep for future reference!

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2. USE ONLY WITH CLASS 2 POWER UNIT
3. 24 VOLTS DC
4. SUITABLE FOR DRY LOCATIONS ONLY

5. TYPE IC (CEILING AND WALL) INHERENTLY PROTECTED



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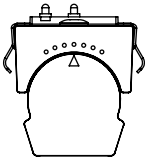


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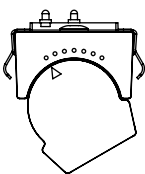
Module and Cover Installation (continued)

13

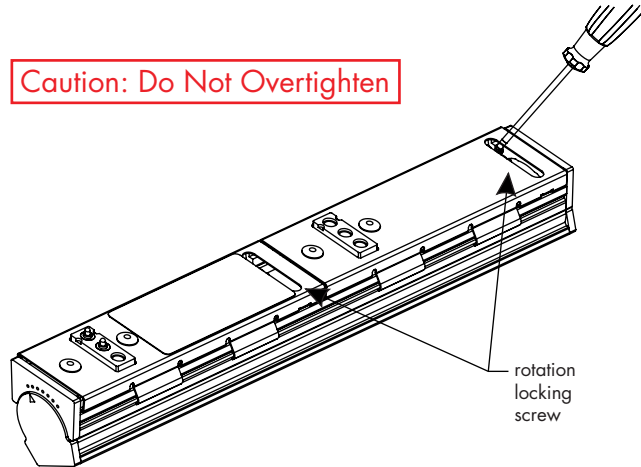
vertical position



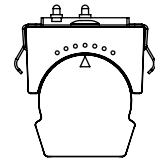
tilted position



Caution: Do Not Overtighten



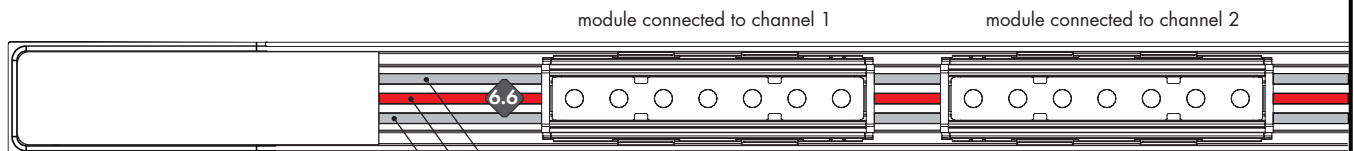
rotation
locking
screw



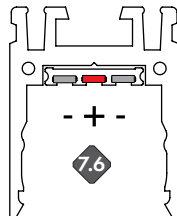
lens accessory

- 13.4** 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.

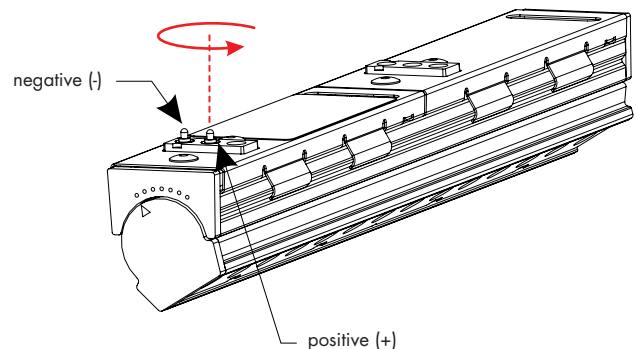
- 13.5** Optional lens accessories simply snap into fixture head of the Stenos Directional Module.



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



rotate 180°, if connecting
to other circuit



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

- 13.7** 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.

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