



# A-dec 577L Dental Light on a Track Mount

## INSTALLATION GUIDE



## Before You Begin

Do not remove the track from the ceiling pallet.



**CAUTION** Two people are required to install the track light to prevent injury.

# Prepare the Ceiling

## Recommend Tools

Drill and 3/16" drill bit

Check local and state code authorities about installation requirements for this product. Consult your operatory floor plan to determine the installation location.



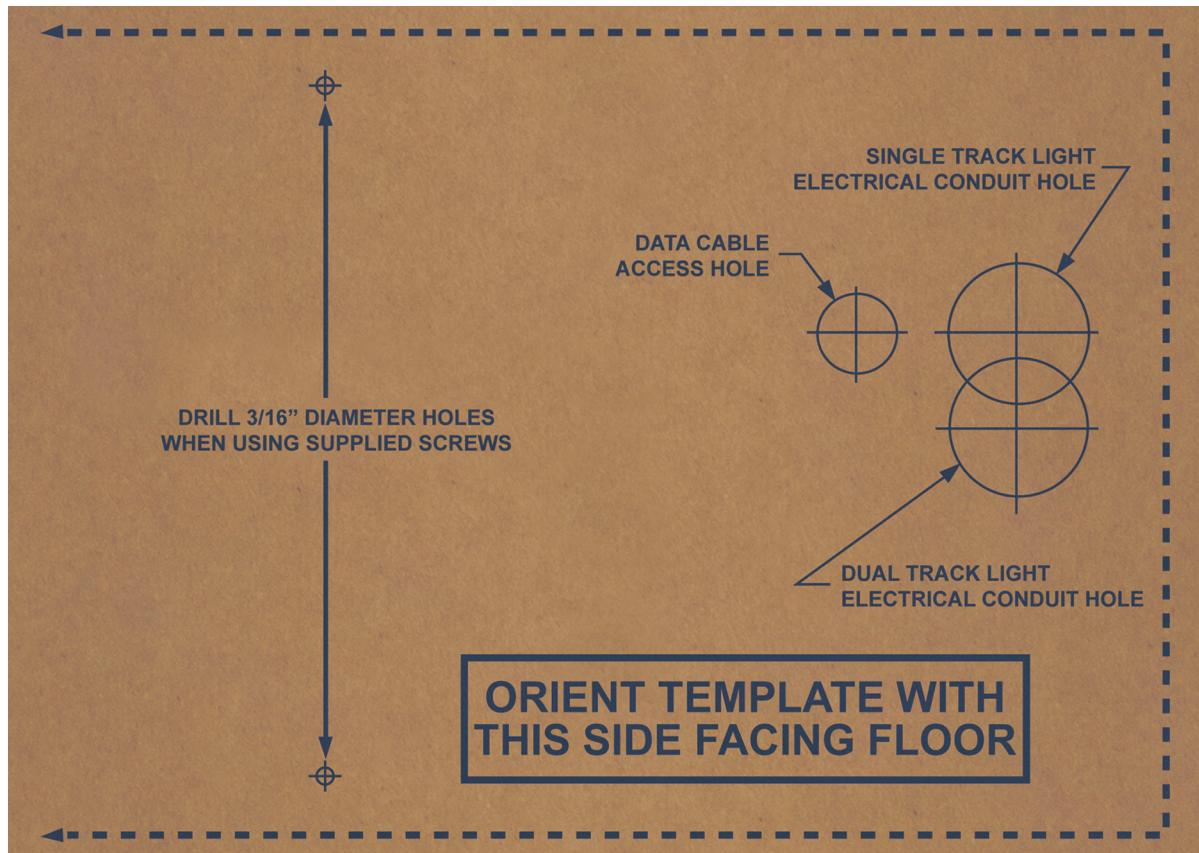
**CAUTION** Be sure the ceiling sub-structure supports a minimum of 200 lb (90 kg).

**Task 1.** Determine the location of the ceiling joists.

**Task 2.** Use the template printed on the shipping box to mark where to drill the holes for the mounting bolts, power stub, and data line.

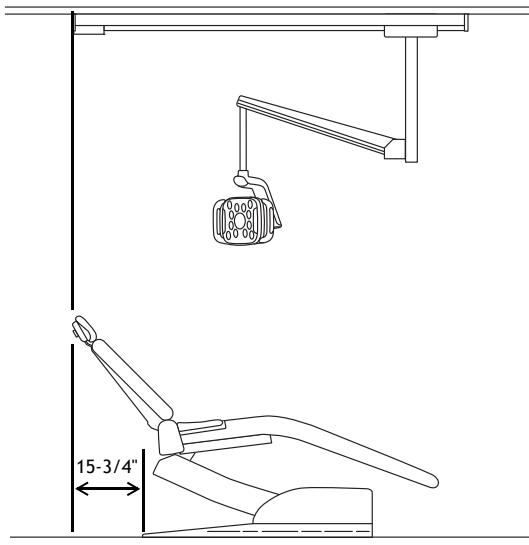


**NOTE** Read completely through this task before taking action.

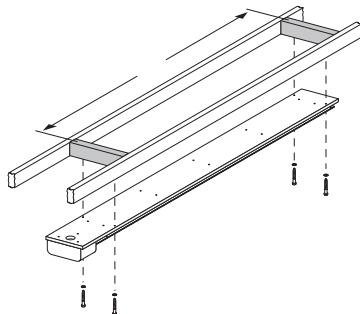


Template on the Shipping Box

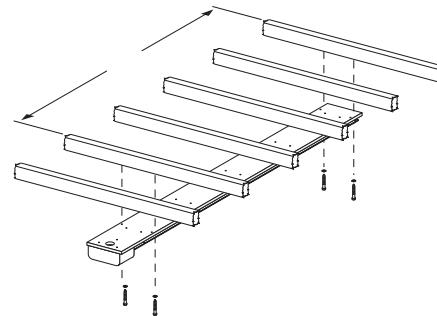
Position the template with the power supply housing 15-3/4" (400 mm) from the edge of the chair baseplate.



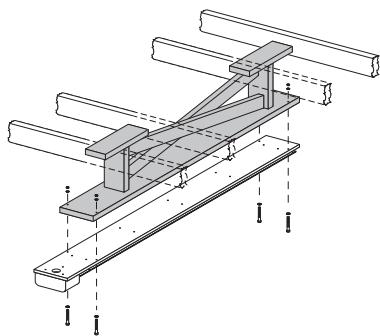
The screws must mount into a minimum of 2-1/2" (63.5 mm) of solid wood. If the installation requires different mounting hole locations, modify the ceiling sub-structure to accommodate the installation.



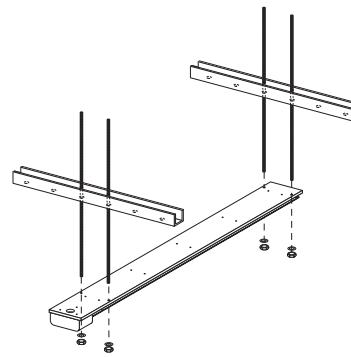
New Construction



Existing Construction



Suspended Ceiling, Wood Structure



Suspended Ceiling, Metal Structure

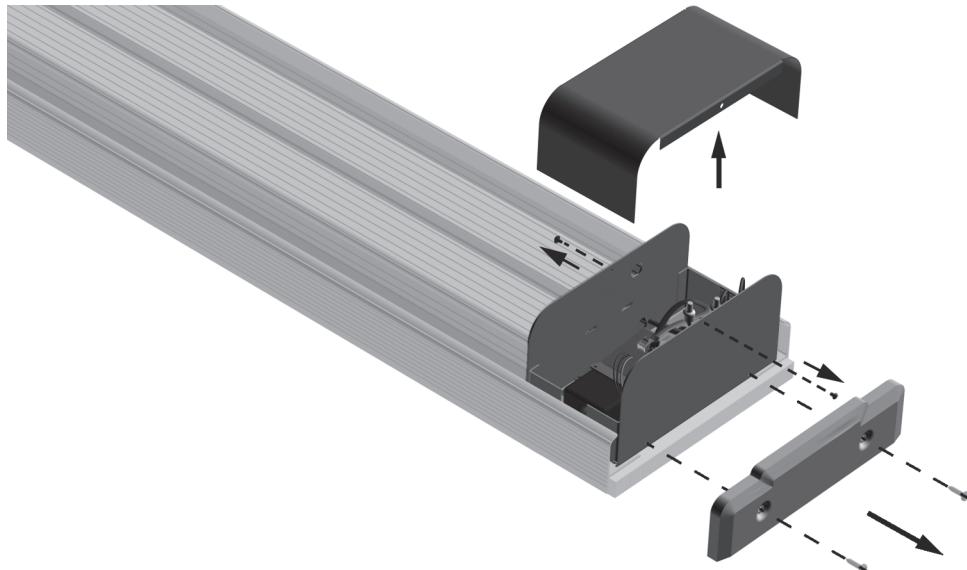
**Task 3.** Use a 3/16" bit to drill the pilot mounting holes. Drill the holes for the power stub and data line.

# Install the Track

## Recommended Tools

- Rubber mallet
- 5/64" hex key
- Phillips head screwdriver
- 7/16" socket and ratchet
- Level

**Task 1.** Remove the power supply housing and end cap.



**Task 2.** Use the handle of a rubber mallet to pry off the side trim covers.

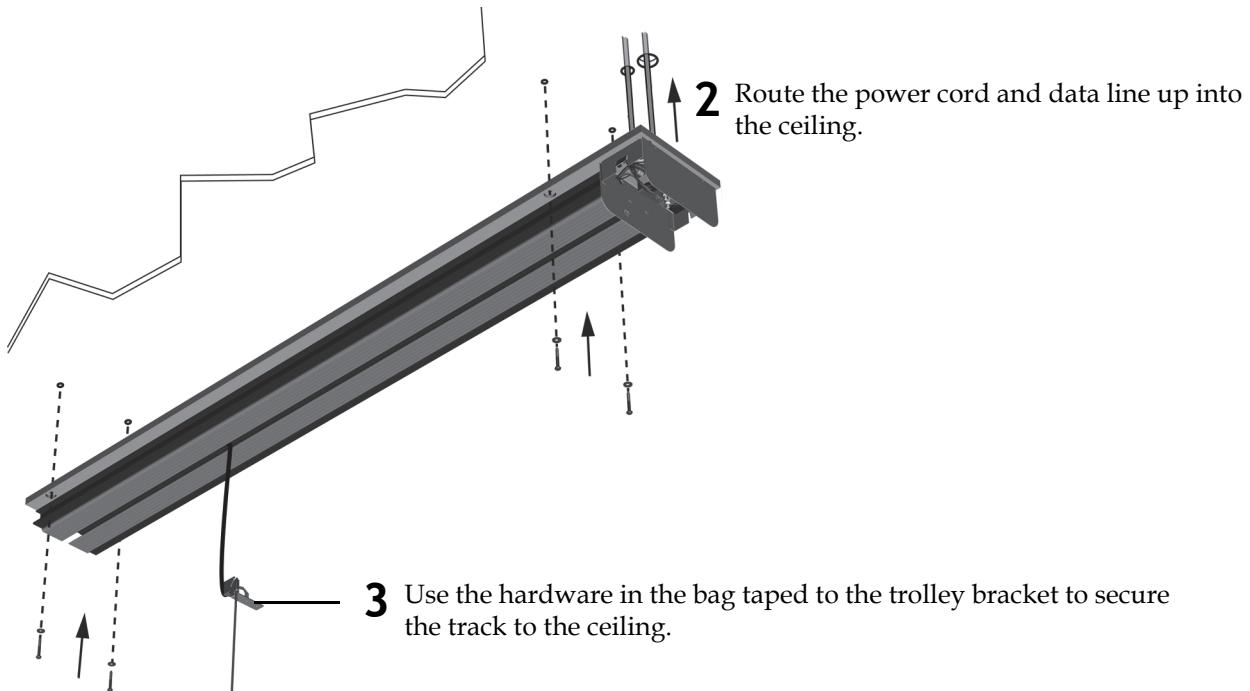


### Task 3.

- 1** Position the track where you drilled the pilot holes.

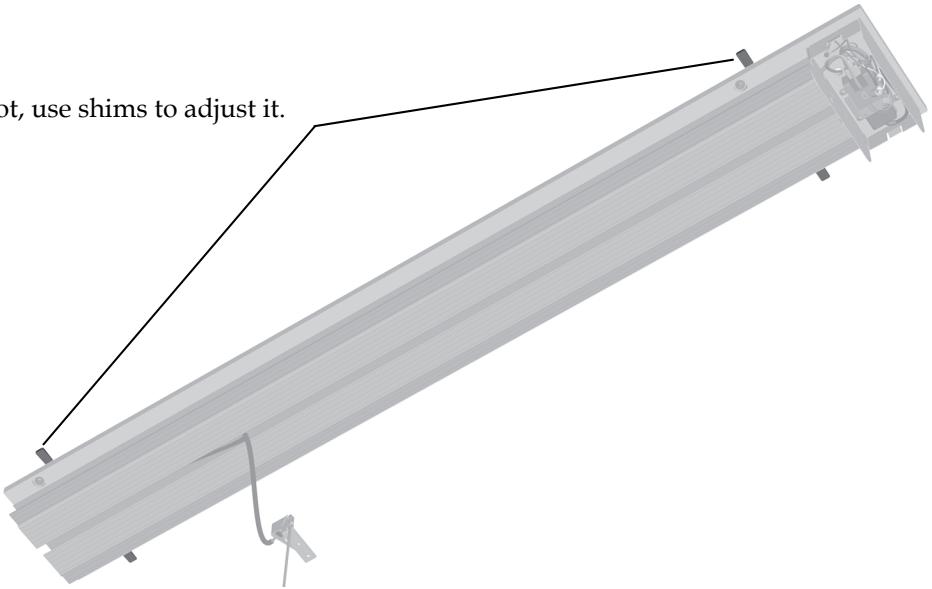


**NOTE** If the end of the track without the power supply is closer than 9-1/2" (241.3 mm) to a wall, the trolley and post assembly must be installed in the track before installing the track. Those instructions begin on the following page.



### Task 4.

Check that the track is level. If not, use shims to adjust it.



# Install the Trolley

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## Recommended Tools

- Phillips screwdriver
- 3/32" hex key

## Attach the Post

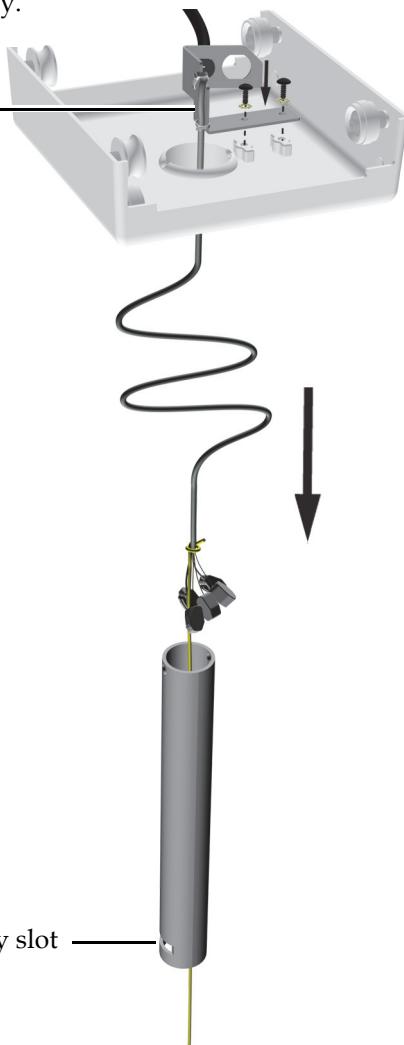
### Task 1.

**1** Route the light cable through the trolley.

**2** Use two screws to attach the bracket to the trolley.

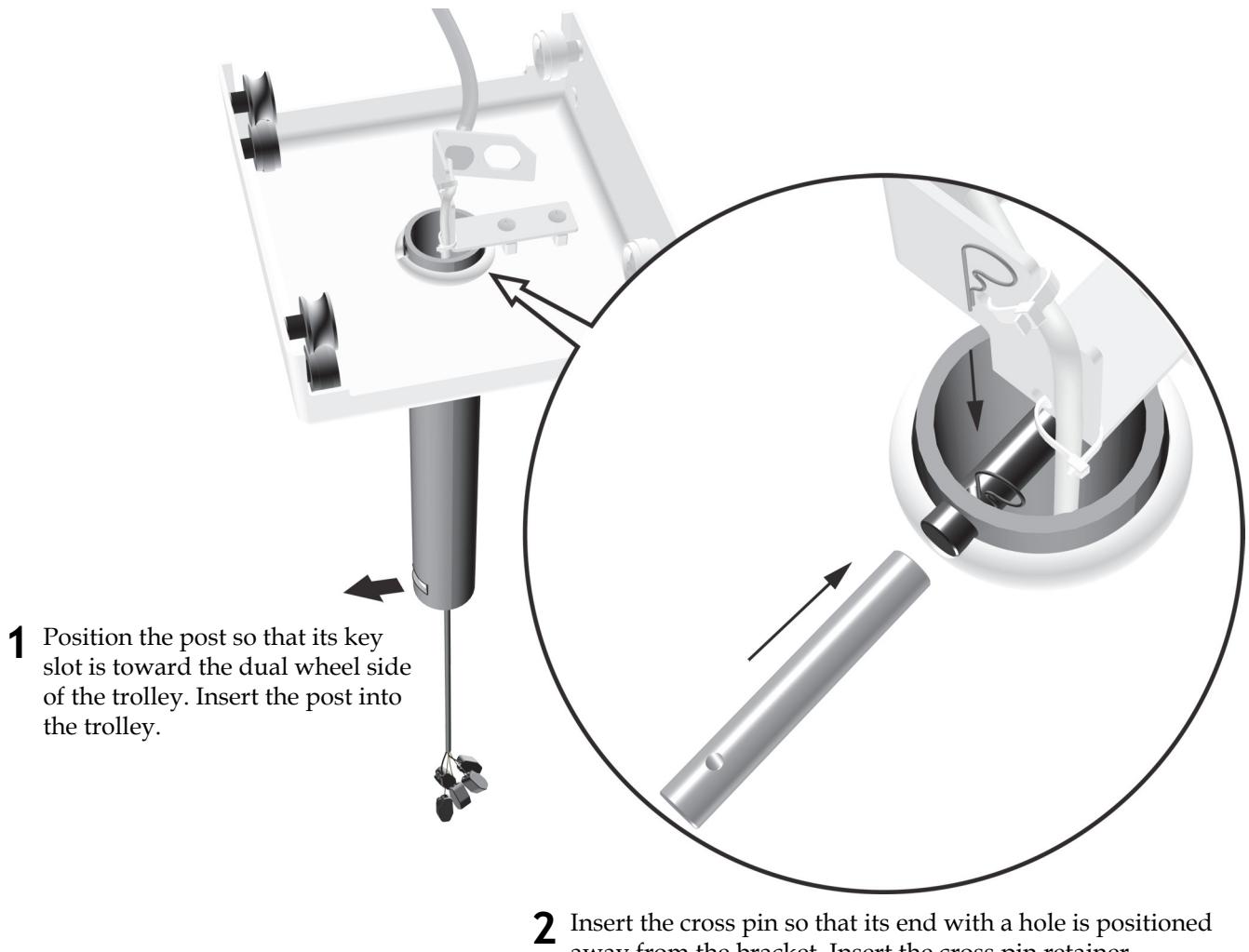
**3** Position the post so its end with the key slot is toward the floor.

Route the light cable through the post.



**TIP** Tie a piece of tubing to the cable so you can easily pull it through the post.

**Task 2.**



**Task 3.** Securely install the setscrews.



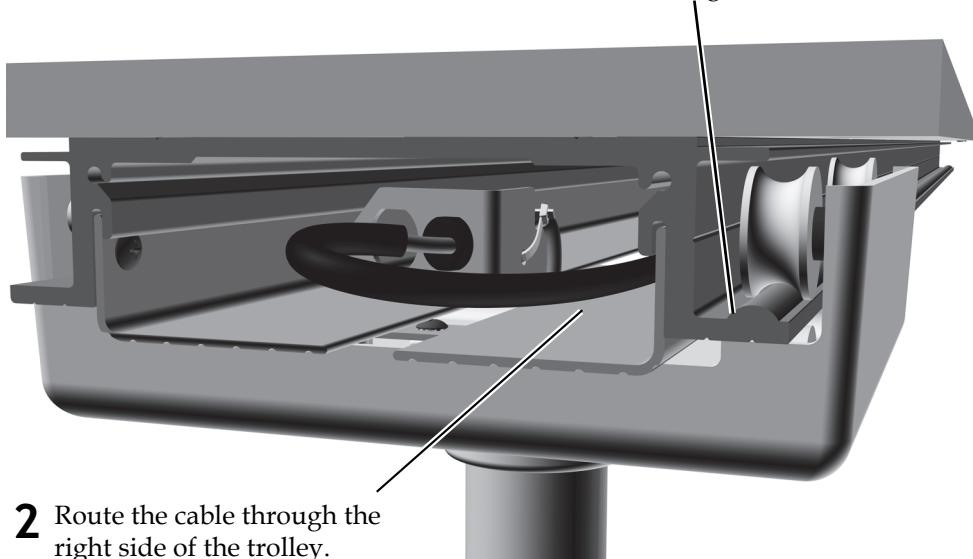
## Attach the Trolley Assembly

### Recommended Tool

5/32" hex key

#### Task 1.

- 1** On the end of the track that is away from the power supply, partially insert the trolley assembly so that the dual wheels are on the side with the track that has a ridge.



- 2** Route the cable through the right side of the trolley.

- 3** Slide the trolley completely onto the track.

#### Task 2.



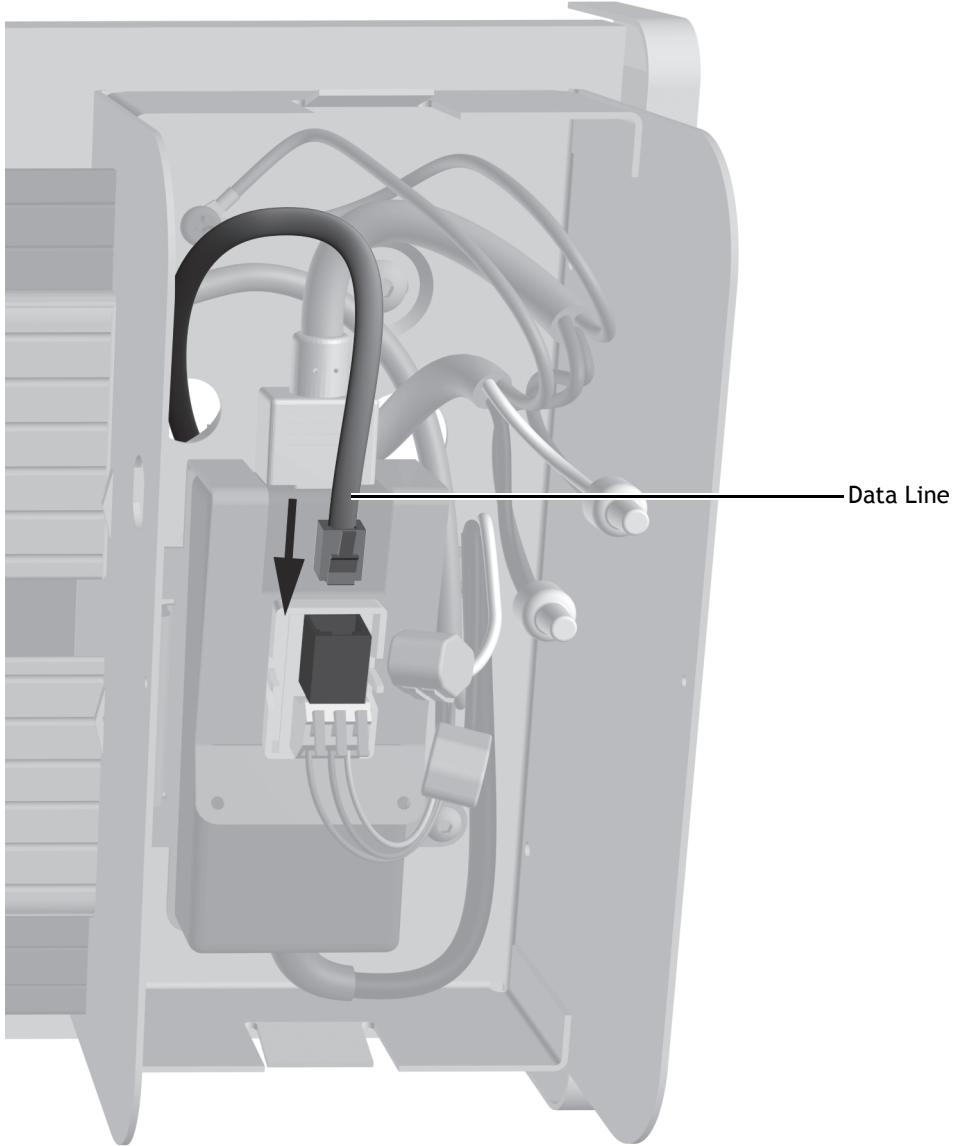
- 1** Install the stops.

- 2** Install the rubber bumpers.

## Connect the Data Line

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Plug in the data line.



## Connect the Mains Power

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Electrical junction box wiring must be installed by a licensed electrician and installed according to local building codes.

# Install the Flexarm and Light Head Assembly

## Recommended Tools

- 1/16", 5/32", and 5/16" hex keys
- Masking tape
- Phillips head screwdriver

Turn off the power to the system before you begin the installation.



**DANGER** Failure to turn off the power before you begin this procedure can lead to electrical shock.

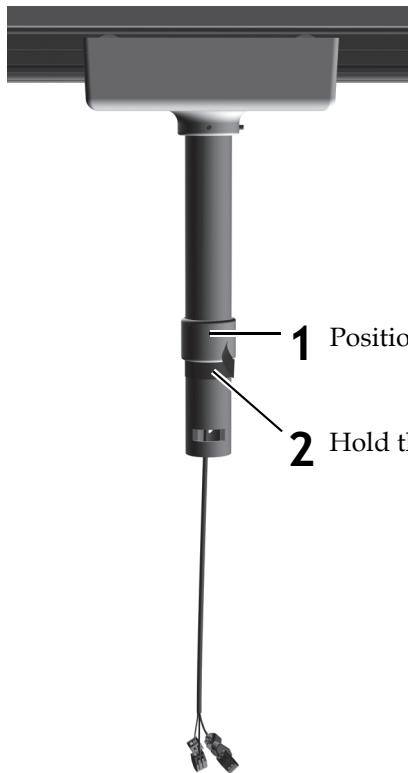


**WARNING** Failure to turn off the power before you begin this procedure can lead to product damage and result in serious injury or death.



**CAUTION** The circuit board is static sensitive. ESD precautions are required. The circuit board should be installed by an electrician or qualified service personnel.

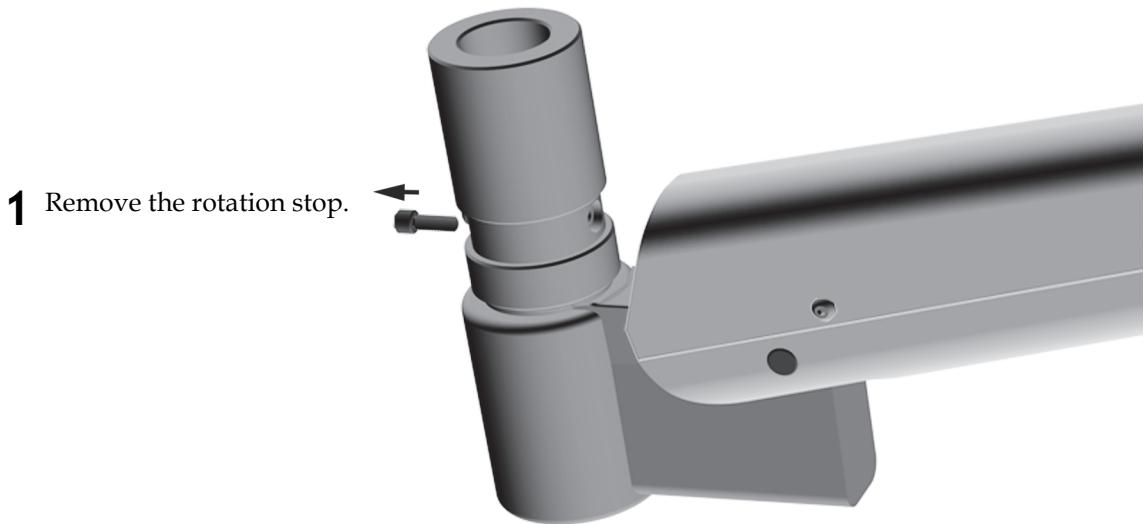
### Task 1.



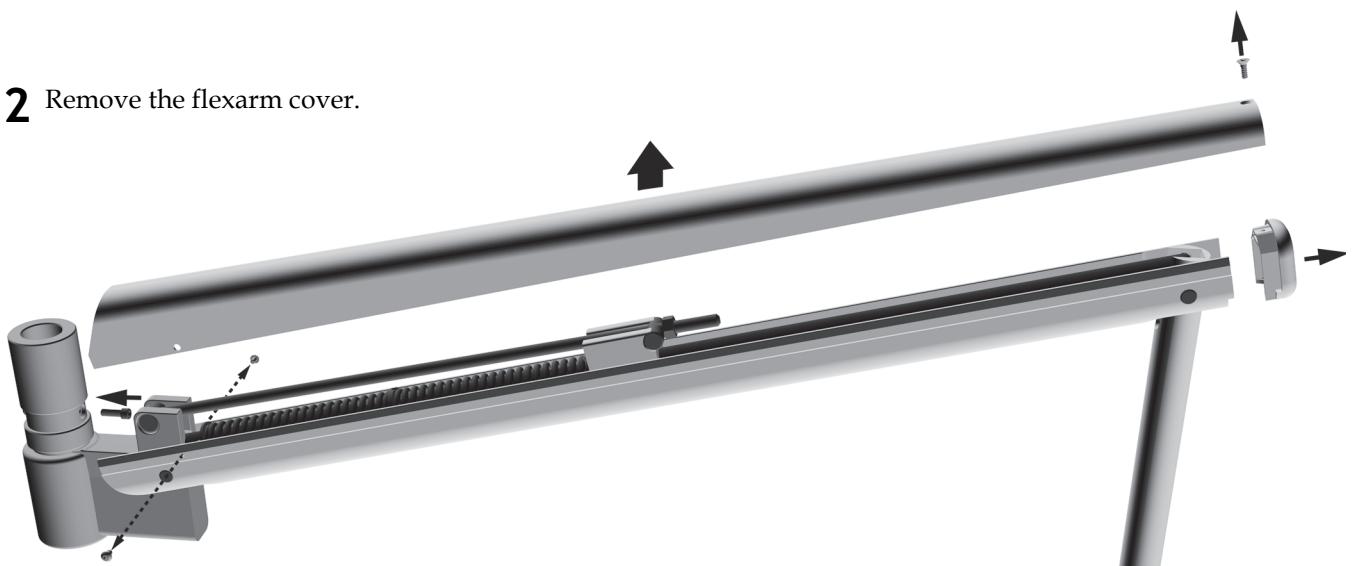
**1** Position the post collar with its setscrew toward the top.

**2** Hold the collar in place with a ring of tape.

**Task 2.** Optional - For Left-Handed Doctors Only



**2** Remove the flexarm cover.

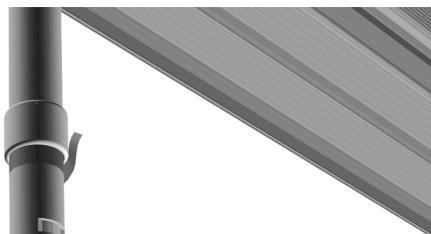


**3** Install the rotation stop in the hole over the flexarm.

### Task 3.



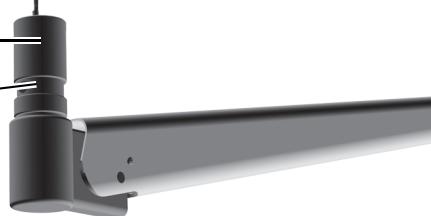
**NOTE** A tool is available (p/n 28.1832.00) to hold the flexarm in place while making the connections.



**1** Lightly lubricate the hub of the flexarm assembly.

Do not lubricate the groove where the key will sit.

**2** Attach matching colored wires in each WAGO connector.



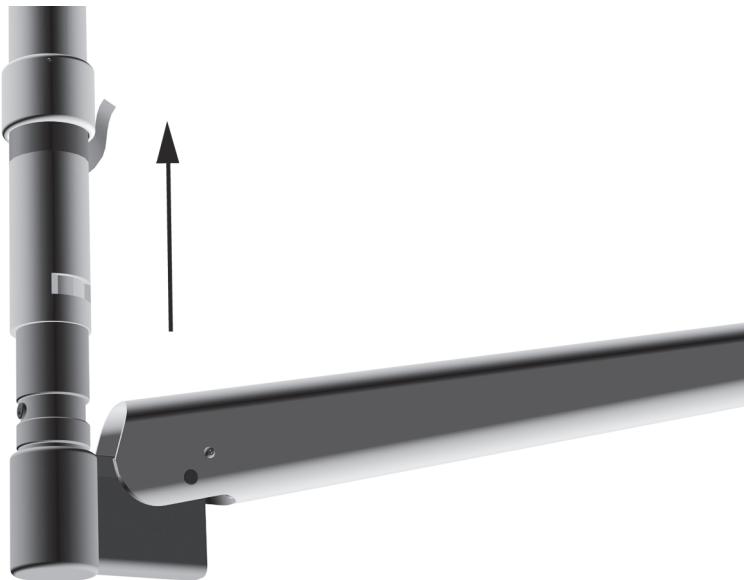
### Task 4. Slide the flexarm onto the post.



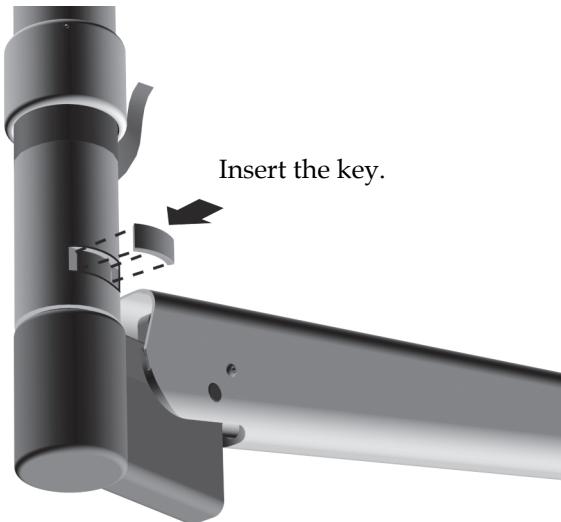
**CAUTION** Be careful when sliding the flexarm onto the post that the wires and WAGO connectors do not get caught in the key slot.



**NOTE** If the flexarm does not slide easily onto the post, check that the rotation stop is flush against the post.



**Task 5.**

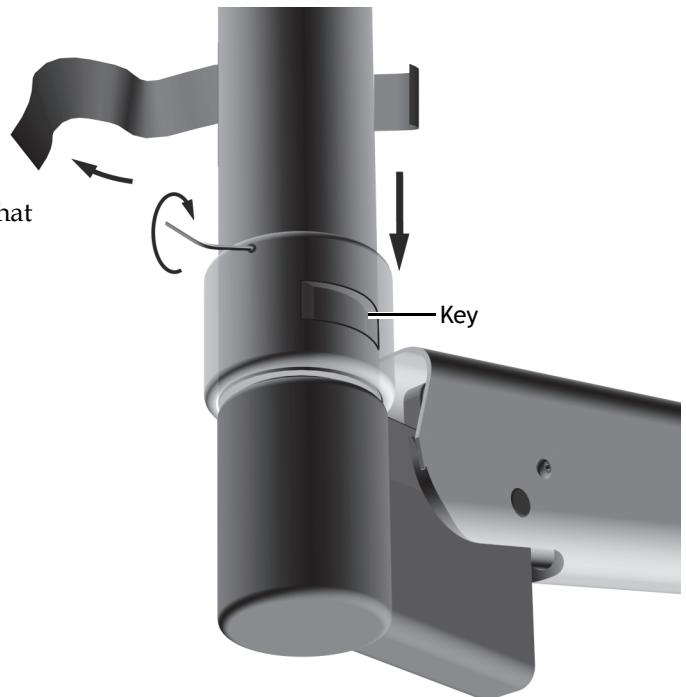


Insert the key.

**Task 6.**

- 1** Remove the tape. Lower the collar over the slot so that the setscrew is not over the key.

- 2** Firmly tighten the setscrew.



- Task 7.** Move the light along the track to make sure it rolls smoothly. If necessary, clean the track and wheels to remove debris.

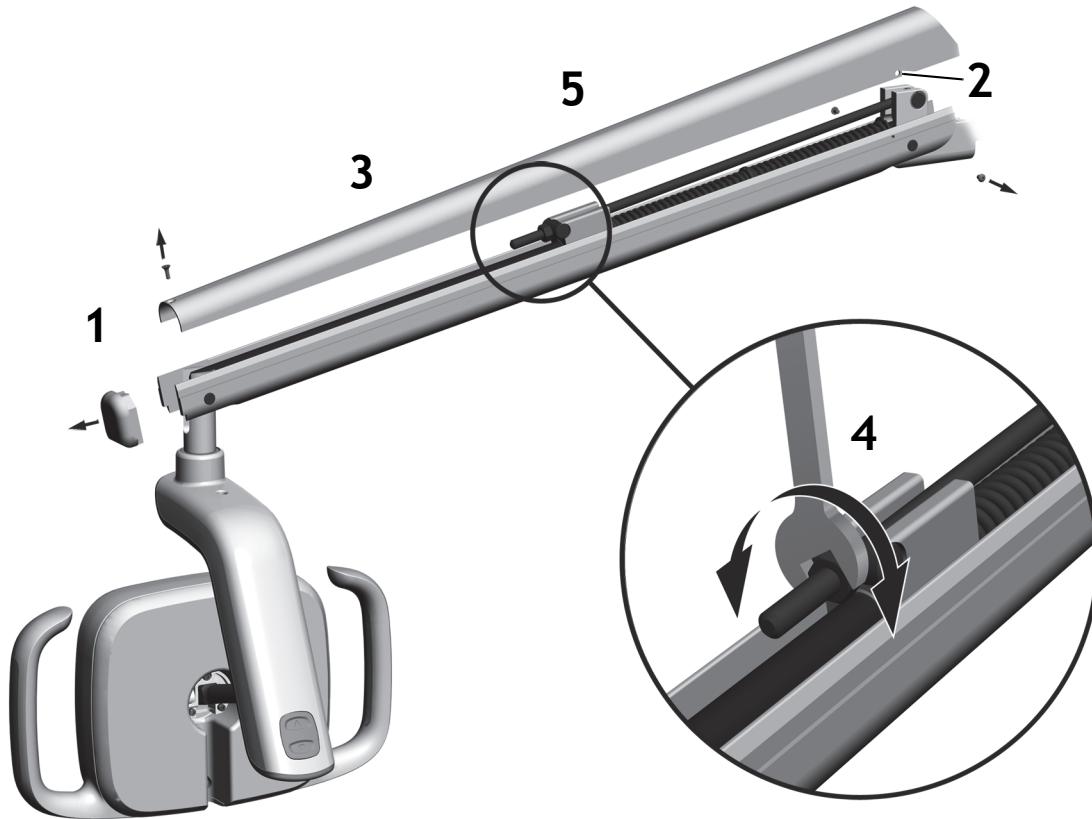
## Prepare and Adjust the Light

### Adjust the Dental Light Flexarm Counterbalance

#### Recommended Tools

- Phillips head screwdriver
- 5/64" hex key
- 1/2" combination wrench

1. Remove the end cap.
2. Remove the two screws that secure the cover.
3. Remove the cover.
4. Adjust the nut on the end of the spring.  
If the dental light drifts up, turn the nut counterclockwise.  
If the dental light drifts down, turn the nut clockwise.
5. Set the cover back onto the flexarm (but do not reattach it yet). Check for drift.
6. Repeat steps 4 and 5 until drift is eliminated.



**NOTE** An optional travel stop limit kit (p/n 90.1044.00) can be installed to limit the upward and downward motion of the flexarm.

## Adjust the Rotation Tension

### Recommended Tool

7/64" hex key

### Adjust the Horizontal and Diagonal Tension

**Task 1.** Remove the indicator cover.



**Task 2.**

**1** To adjust horizontal tension, rotate the friction adjustment.

Clockwise increases the tension.



## Adjust the Vertical Tension



## Touchpad Dental Light Functions

Standard Touchpad



- 1** Turn on the power to the system.

- 2** To verify the light turns on and off, and toggles between intensity modes, repeatedly press and release .

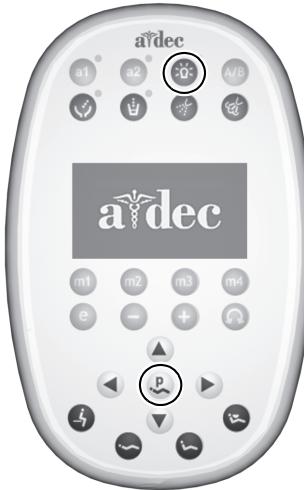
**NOTE** When the light is in the composite (or cure-safe) mode, the light indicator on the touchpad flashes.

- 3** To disable the auto on/off feature, press and hold and (or and on the A-dec 300 deluxe touchpad) at the same time for three seconds. One beep indicates that the auto on/off function is off. To re-enable, repeat this step. Three beeps indicate that the auto on/off feature is activated.

A-dec 300 Deluxe Touchpad



A-dec 500 Deluxe Touchpad



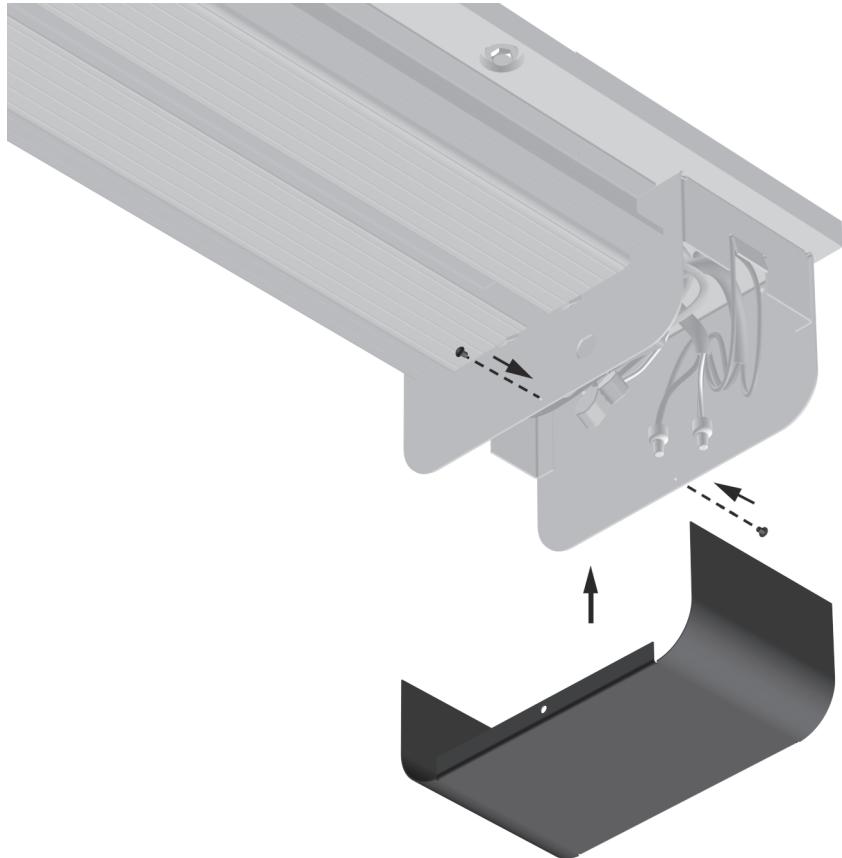
## Install the covers

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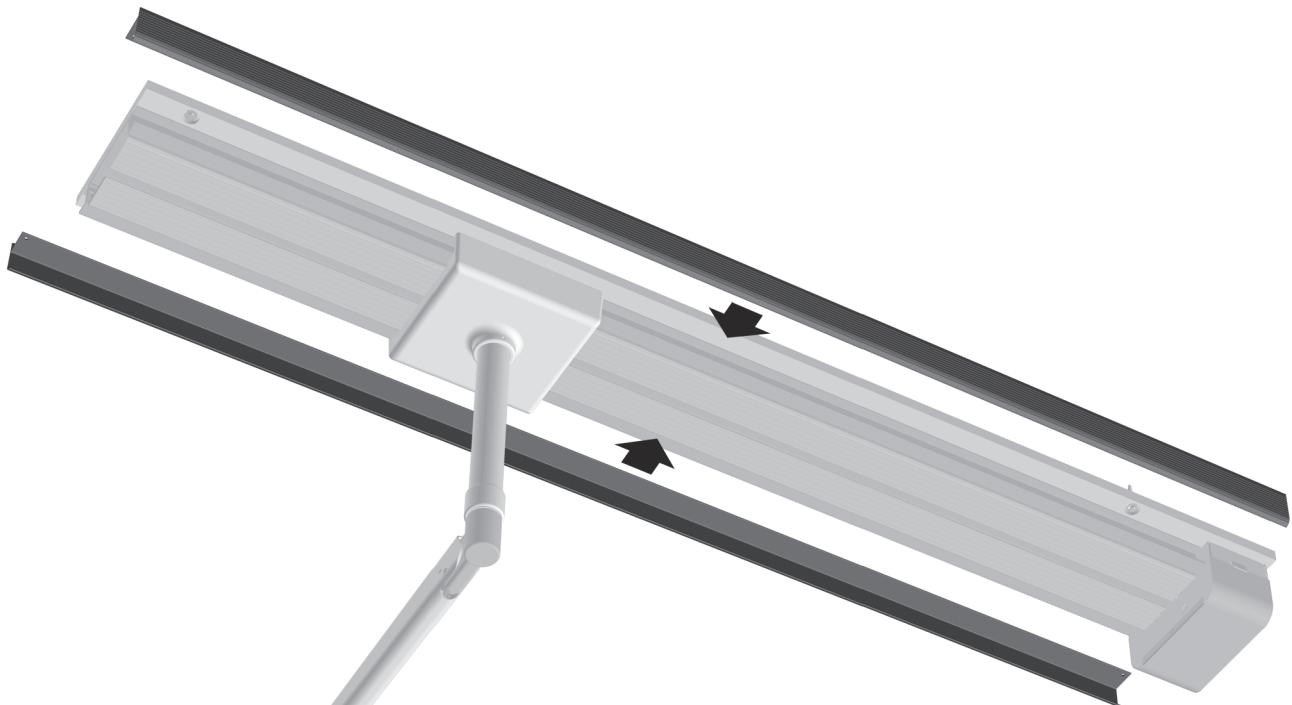
### Recommended Tools

- 5/64" hex key
- Phillips head screwdriver
- Rubber mallet

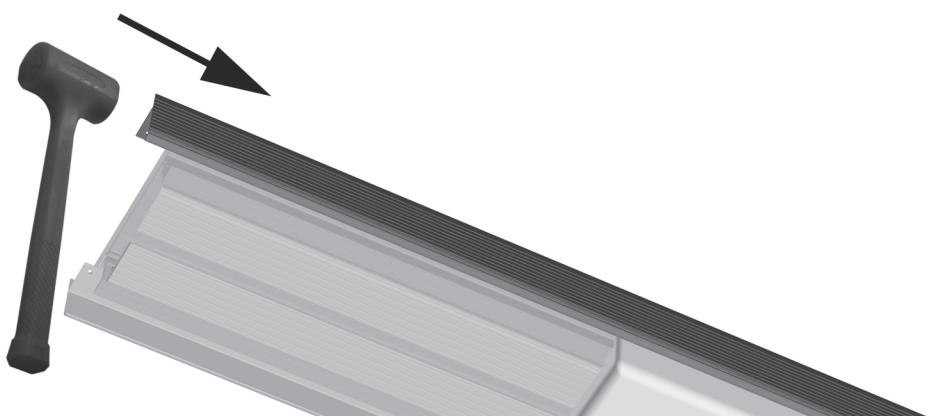
**Task 1.** Install the power supply cover.



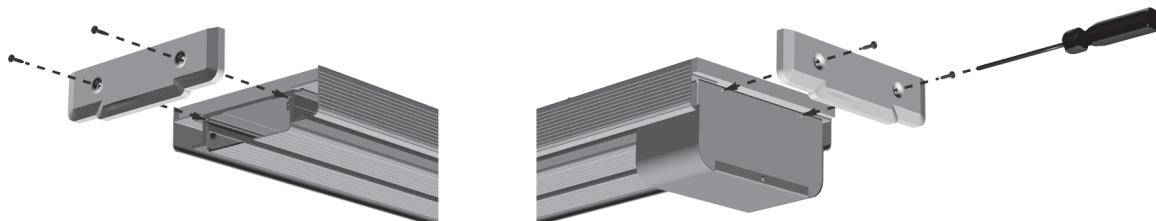
**Task 2.** Install the trim panels.



**NOTE** Make sure each trim panel is aligned with the ends of the track. If they need adjustment, lightly tap their ends with a rubber mallet.



**Task 3.** Install the end caps.



## Regulatory Information

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Regulatory information is provided with A-dec equipment as mandated by agency requirements. This information is delivered in the equipment's *Instructions for Use* or the separate *Regulatory Information and Specifications* document. If you need this information, please go to the Document Library at [www.a-dec.com](http://www.a-dec.com).

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