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a-dec

A-dec 377L/577L Dental Light on Track Mount

Installation Guide



Product Models and Versions Covered in this Document

Models	Versions	Description
377L/577L	A	Dental Light

86.0336.00 Rev F

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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

WARNING Mounting structures must be designed to support a minimum static load of 200 lb (91 kg). Consult a licensed professional, i.e. structural or architectural engineer as needed. Ensure that all installations conform to local code requirements.

Recommended Tools

- Drill and 3/16" drill bit

Consult your operatory floor plan to determine the installation location.

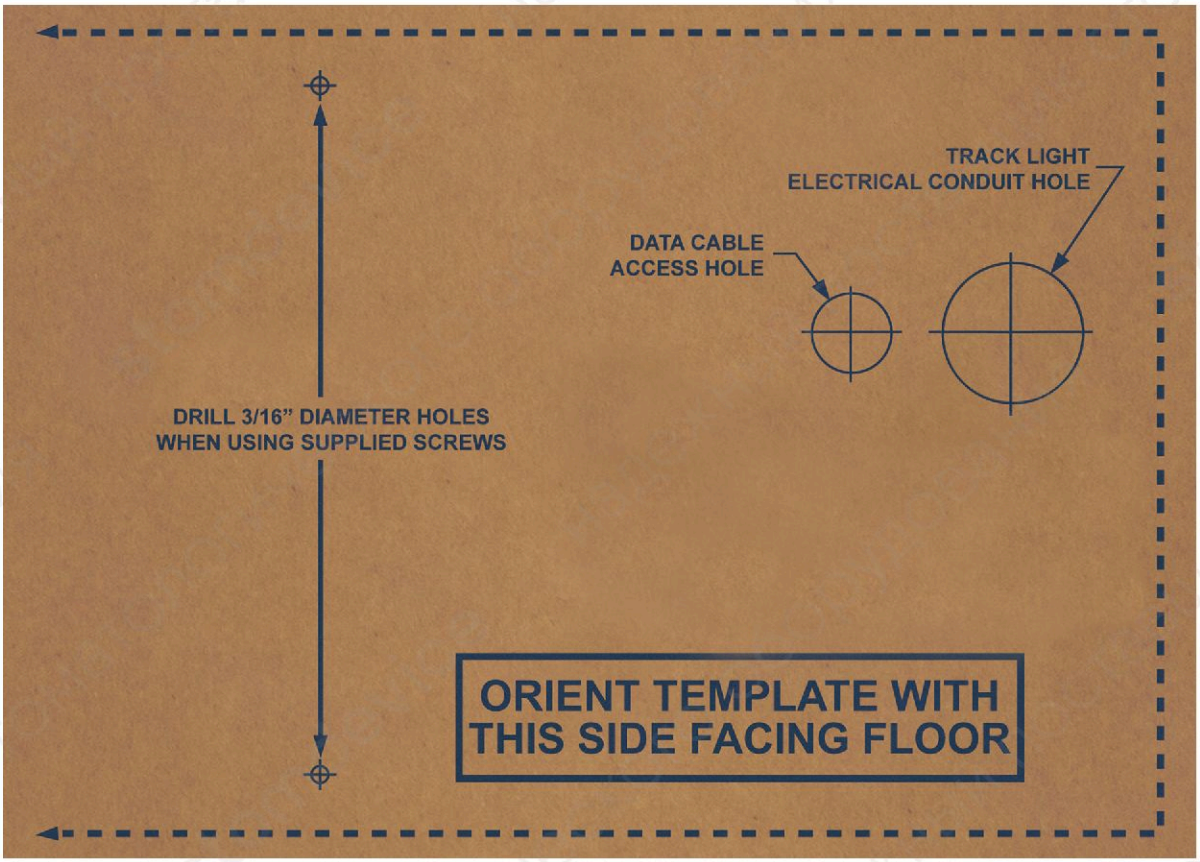
Task 1. Determine the location of the ceiling joists.

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. If the shipping box is not available, contact A-dec Customer Service to order the *A-dec Dental Light Track-Mount Template* (p/n 86.0736.00).

NOTE Read completely through this task before taking action.

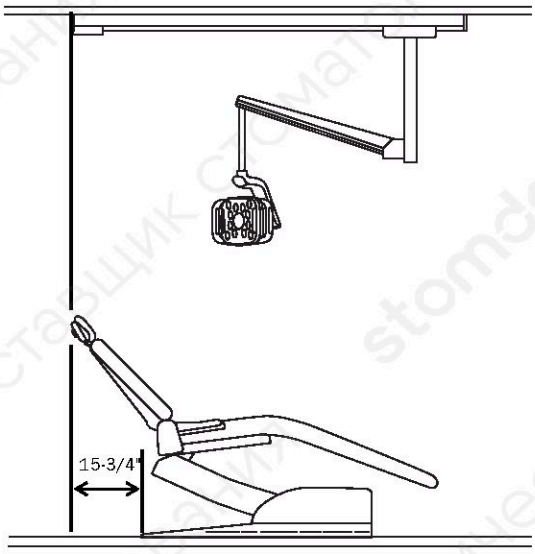
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Template on the Shipping Box

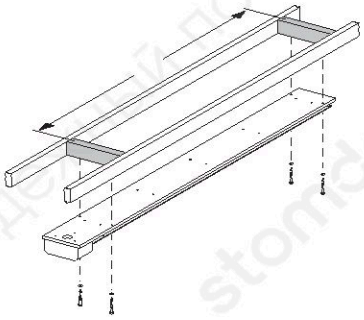
Position the template with the power supply housing 15-3/4" (400 mm) from the edge of the chair baseplate.



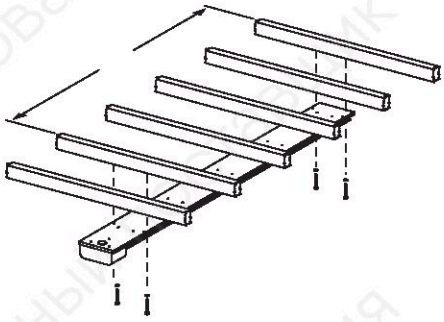
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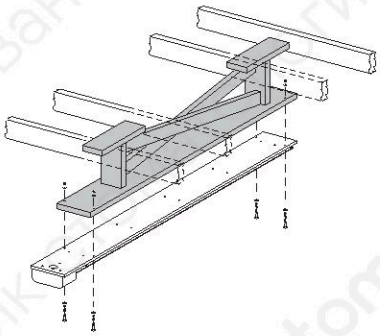
The screws must mount into a minimum of 2-1/2" (63.5 mm) of solid wood. If the installation requires different mounting hole locations, modify the ceiling sub-structure to accommodate the installation.



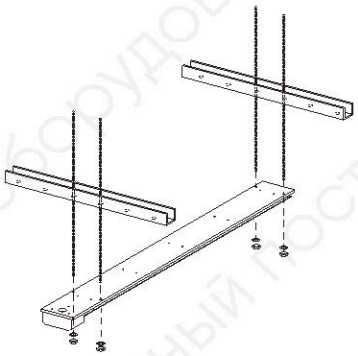
New Construction



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

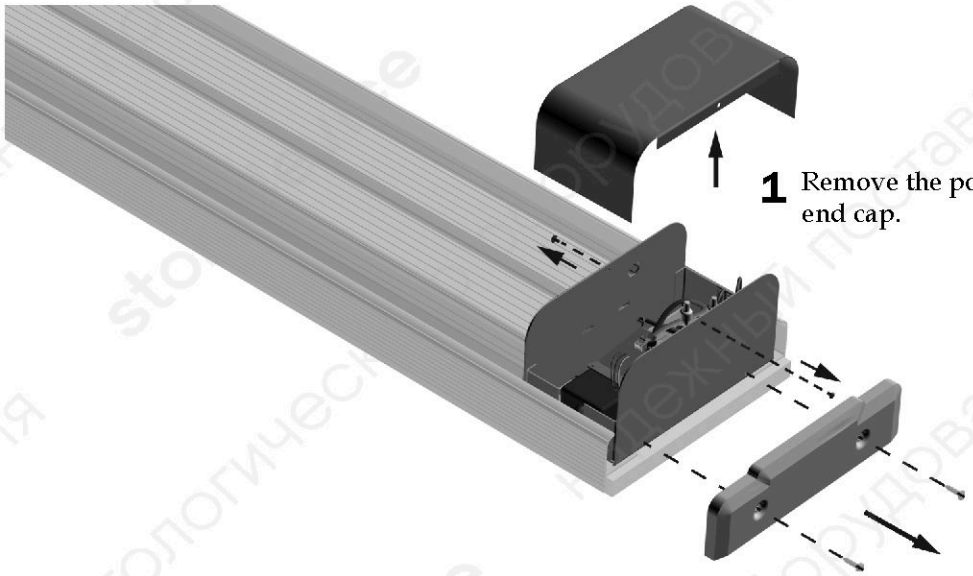
Recommended Tools

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

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Task 1.



1 Remove the power supply housing and end cap.

Task 2.



1 Use the handle of a rubber mallet to pry off the side trim covers.

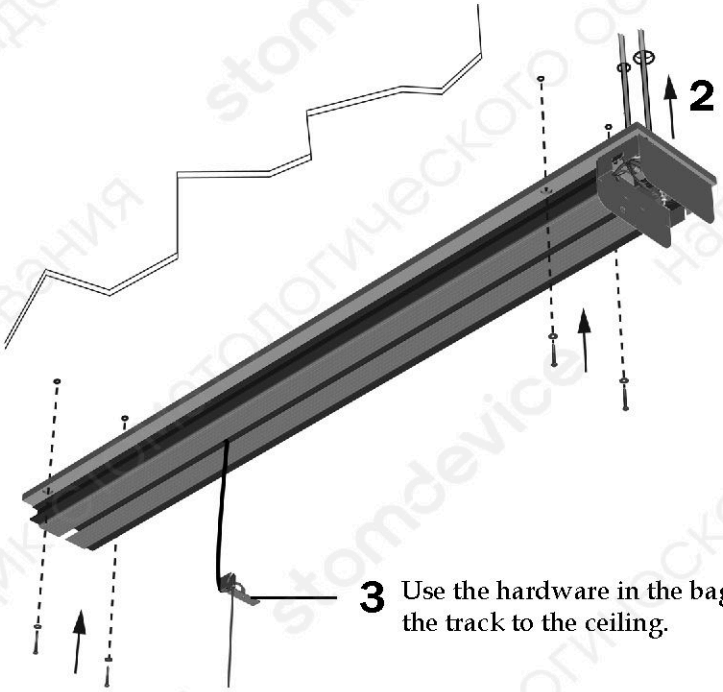
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Task 3.

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.

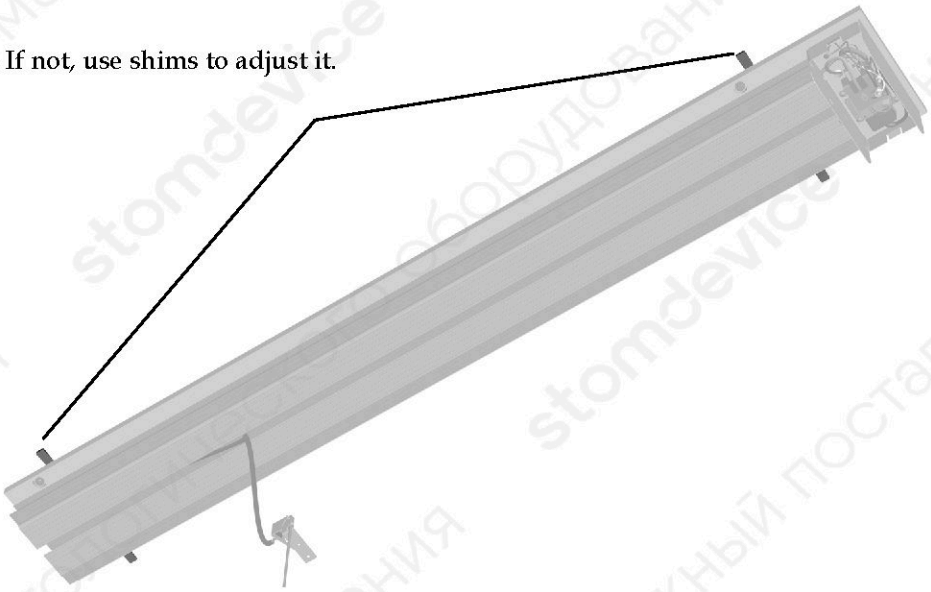


2 Route the power cord and data line up into the ceiling.

3 Use the hardware in the bag taped to the trolley bracket to secure the track to the ceiling.

Task 4.

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



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Install the Trolley

Recommended Tools

- Phillips head 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.



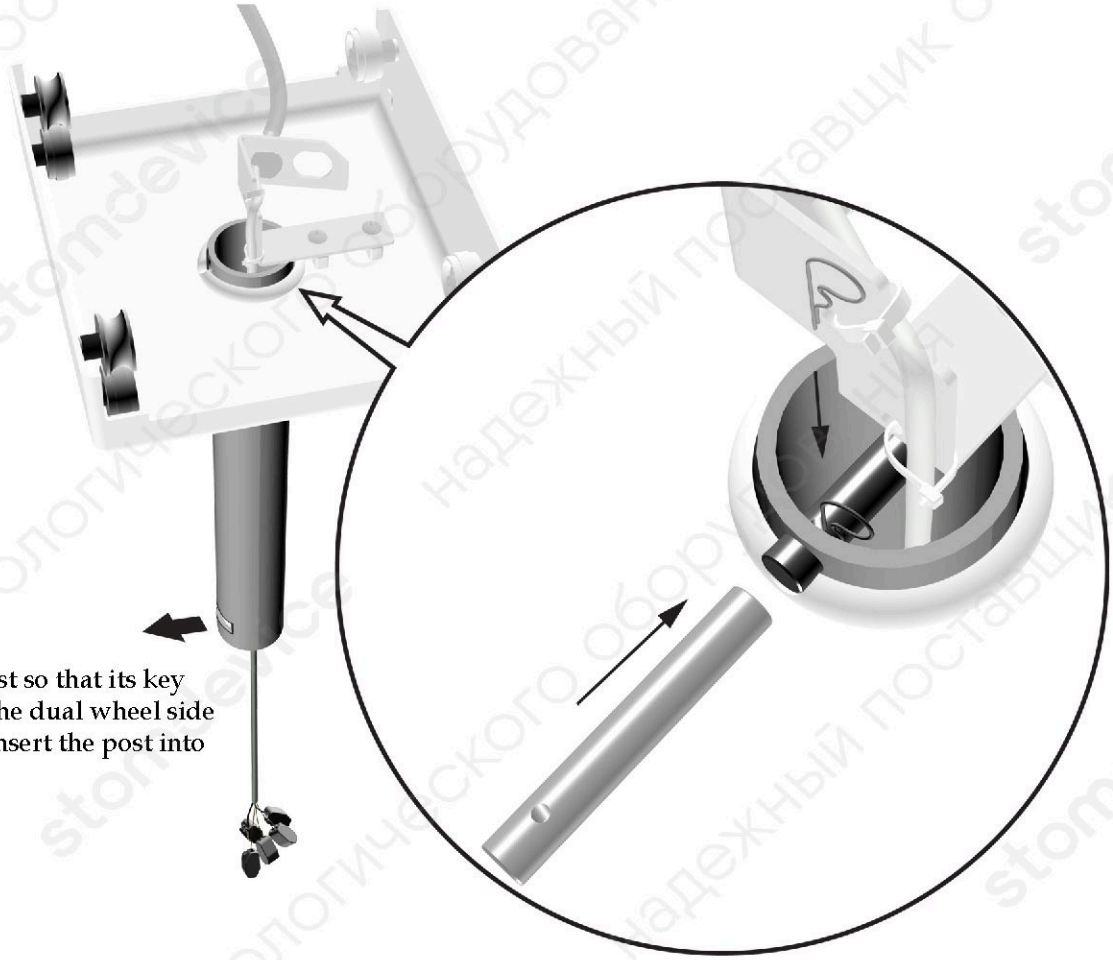
3 Position the post so its end with the key slot is toward the floor. Route the light cable through the post.

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

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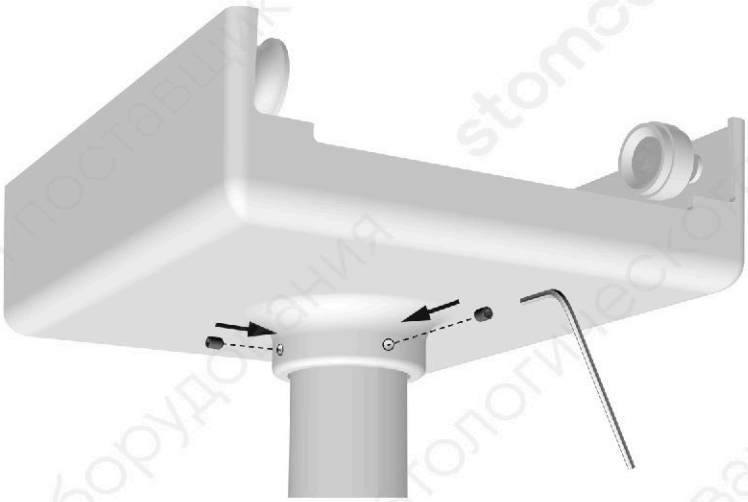
Task 2.



1 Position the post so that its key slot is toward the dual wheel side of the trolley. Insert the post into the trolley.

2 Insert the cross pin so that its end with a hole is positioned away from the bracket. Insert the cross pin retainer.

Task 3.



1 Securely install the setscrews.

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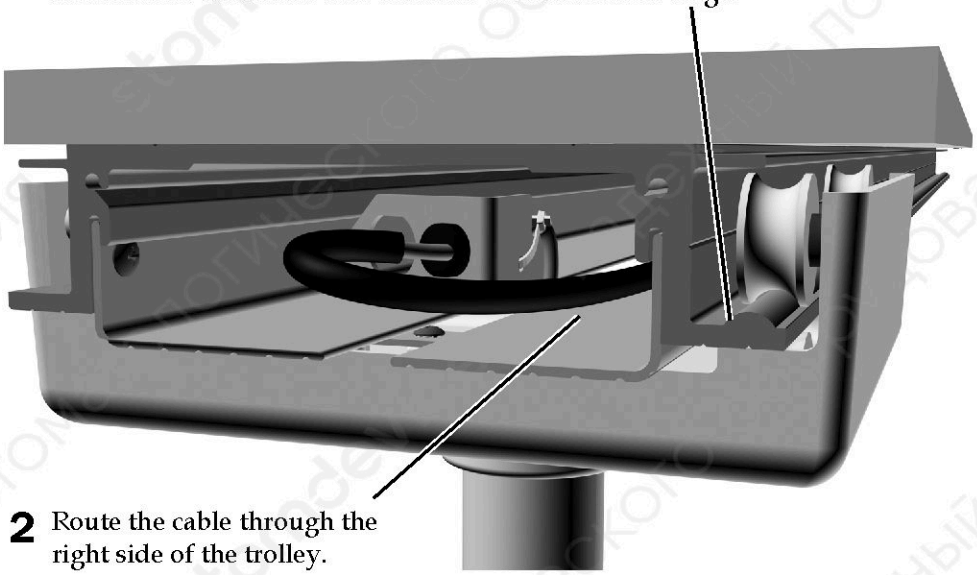
Attach the Trolley Assembly

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.

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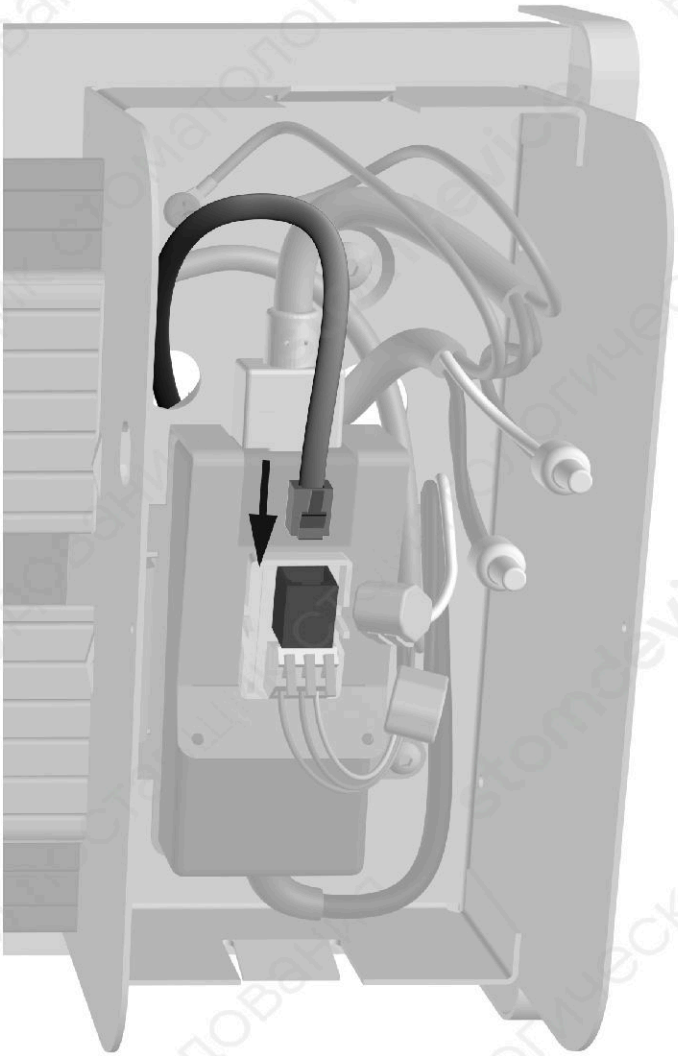
Connect the Data Line

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

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

ATTENTION Circuit boards are sensitive to static electricity. Electrostatic Discharge (ESD) precautions are required when touching a circuit board or making connections to or from the circuit board. Circuit boards should be installed only by an electrician or qualified service person.

Task 1.



1 Plug in the data line.

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Connect the Mains Power

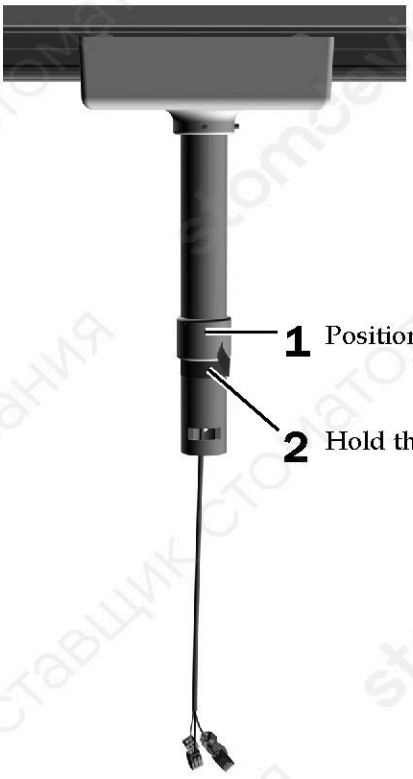
CAUTION Electrical mains wiring (100 – 240 VAC) must be installed by a licensed electrician or other qualified personnel according to local codes and regulations.

Install the Flexarm and Light Head Assembly

Recommended Tools

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

Task 1.



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

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

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Task 2.

Optional - for Left-Handed Doctors Only



1 Remove the rotation stop.



2 Remove the flexarm cover.

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

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Task 3.

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



2 Attach matching colored wires in each WAGO® connector.

1 Lightly lubricate the hub of the flexarm assembly.

Do not lubricate the groove where the key will sit.

Task 4.

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.

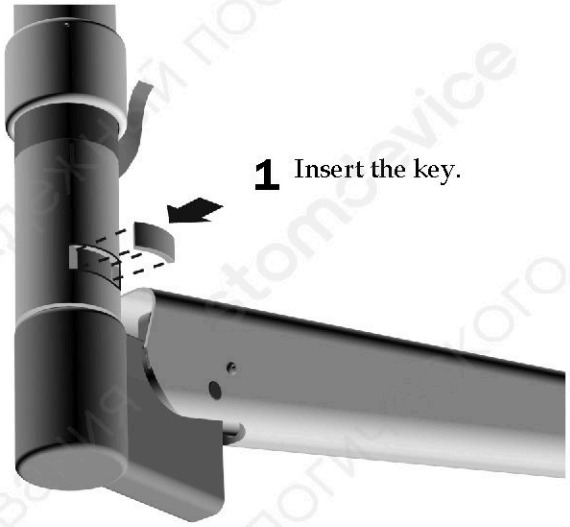


1 Slide the flexarm onto the post.

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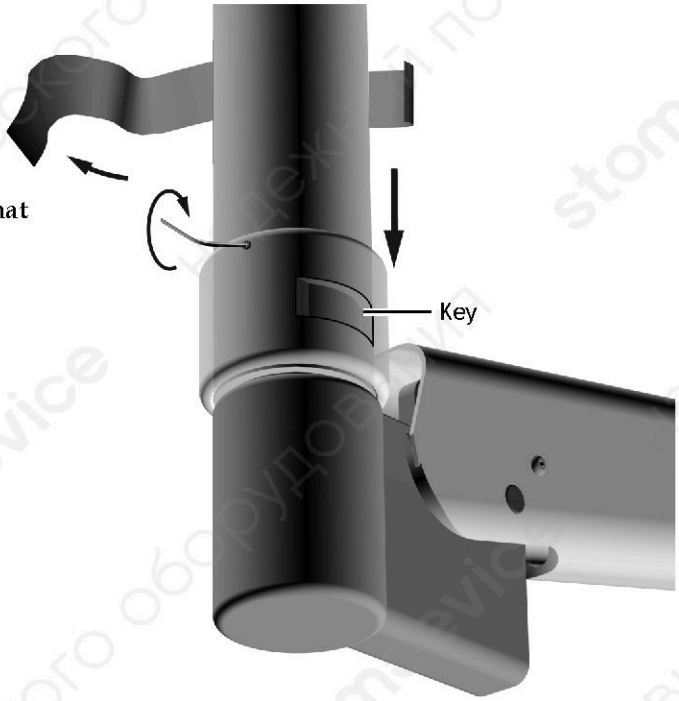
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Task 5.



1 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.

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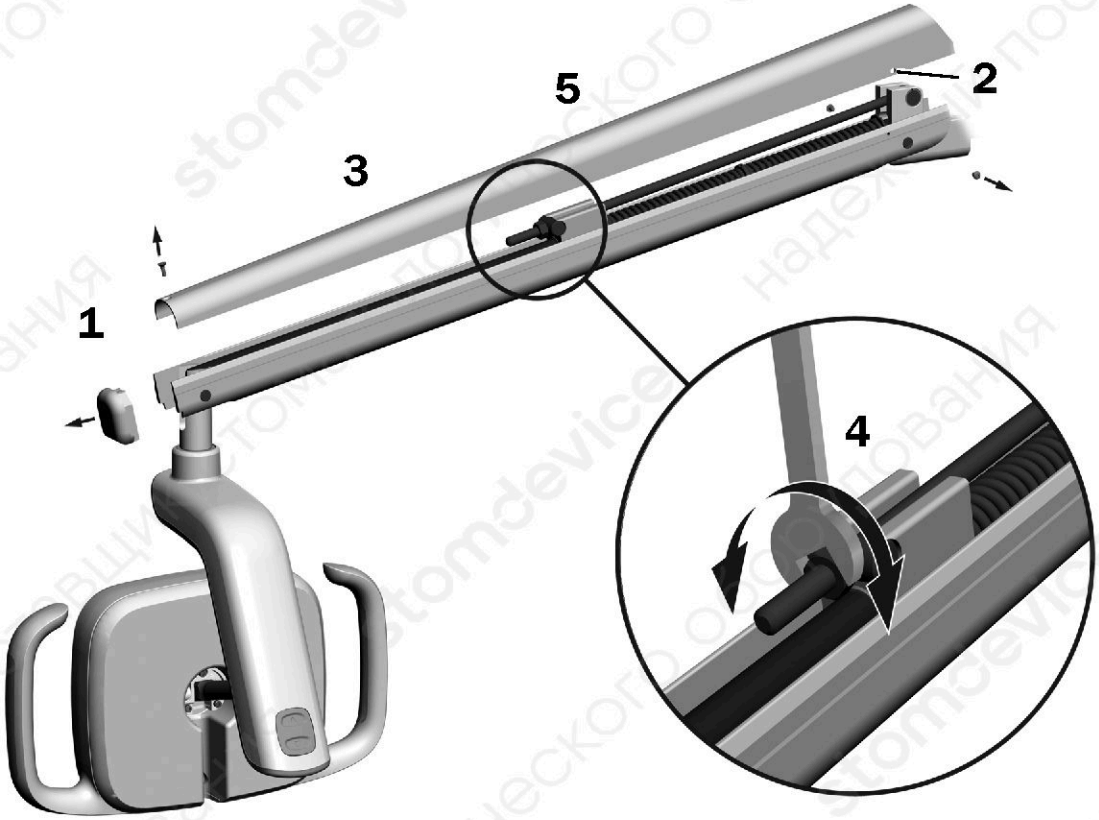
Prepare and Adjust the Light

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.

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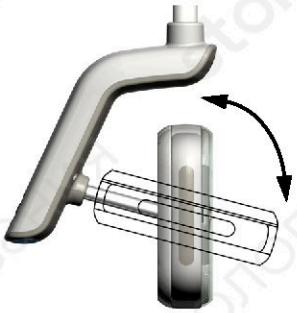
Adjust the Rotation Tension

Test the rotation tension of the light head. If it needs to be adjusted, follow the directions for the type of tension that you will adjust.

Recommended Tool

- 7/64" hex key

Adjust the Vertical Tension





1 To adjust the tension, turn the screw. Clockwise increases the tension.

Adjust the Horizontal and Diagonal Tension

Task 1.

CAUTION When removing or replacing covers, take care not to damage any wiring. Verify that the covers are secure after replacing them.

1 Remove the two screws securing the driver housing cover.

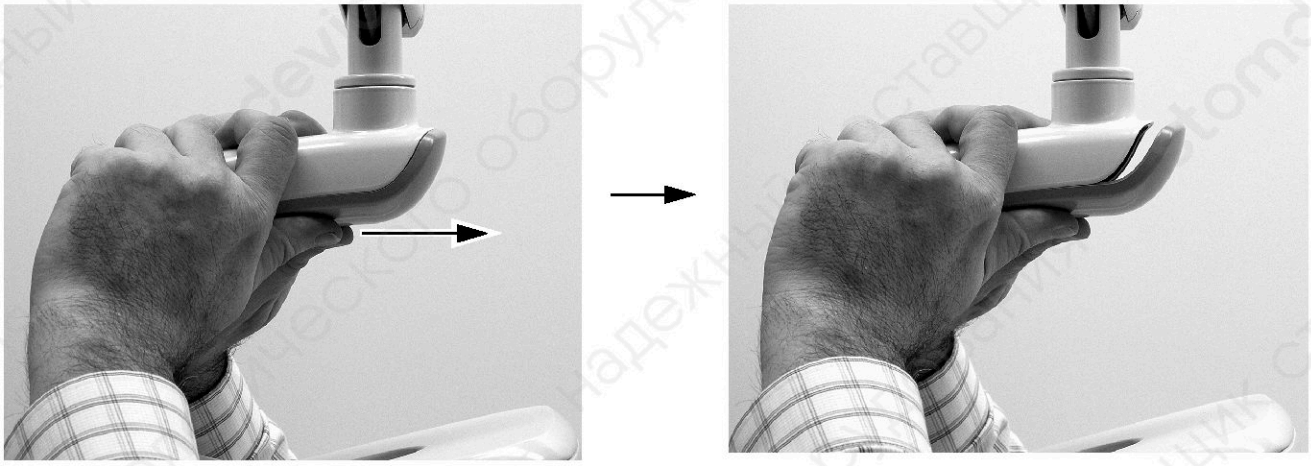


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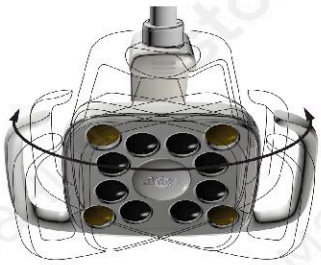
Task 2.

1 Grasp the driver housing and use your thumbs to push the driver housing cover away from the driver housing.

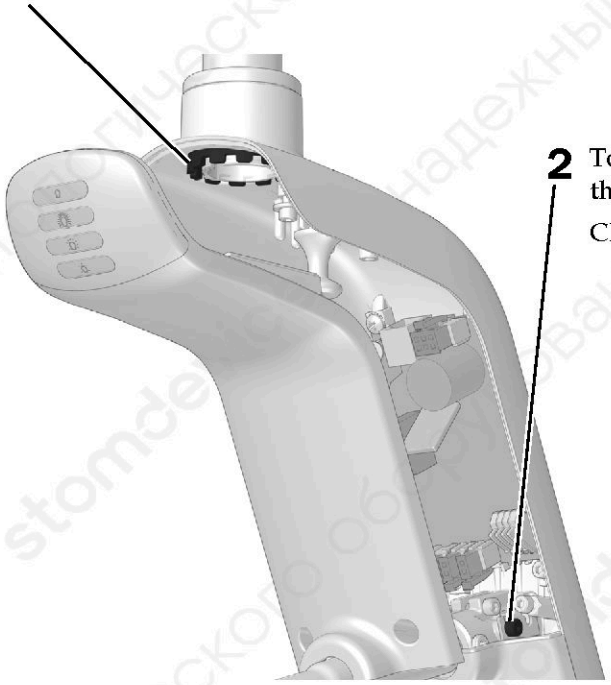


Task 3.

1 To adjust horizontal tension, rotate the friction adjustment. Clockwise increases the tension.



577L Shown



2 To adjust diagonal tension, turn the setscrew.

Clockwise increases the tension.



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Test the Light

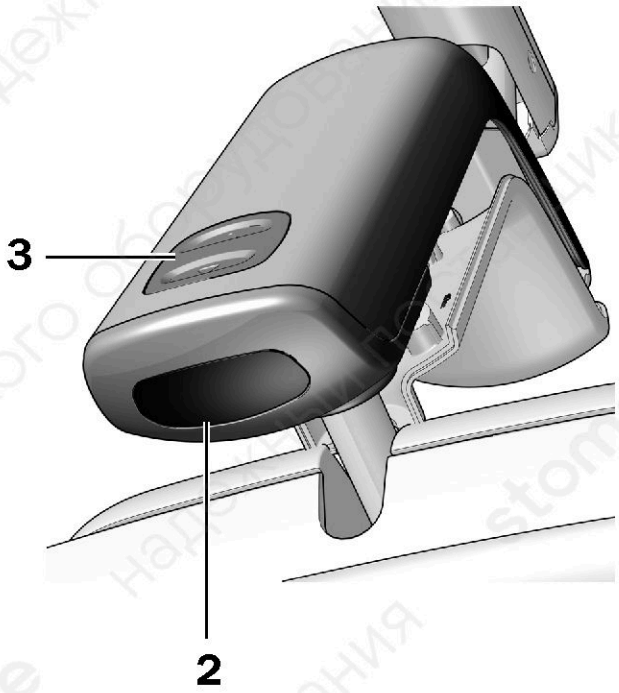
Perform the procedures appropriate to your light:

Test the Light From the A-dec 577L Light Head 18
Test the Light from the A-dec 377L Light Head 19
Test the Light From the Touchpad 20

Test the Light From the A-dec 577L Light Head

Task 1.

1. Turn on the system.
2. Move your hand within 3" (76 mm) of the touchless on/off sensor to turn on the light.
3. Press the mode button to test the light in each mode.
4. For each mode, verify that the correct light on the driver housing cover is illuminated.
5. If it doesn't work properly, check the wiring connections.





Next Step See "Test the Light From the Touchpad" on page 20.

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Test the Light from the A-dec 377L Light Head

Task 1.

1. Turn on the system.
2. Press the power button several times to verify the light switches between off and on. Leave the light off.
3. If it doesn't work properly, check the wiring connections.

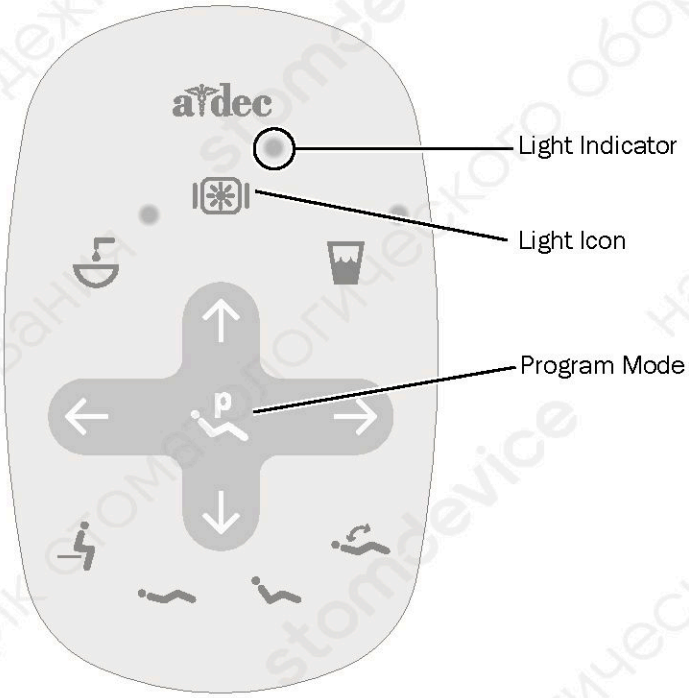


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Test the Light From the Touchpad

NOTE Touchpad symbols and icons are proprietary to A-dec Inc.



A-dec 300 Standard Touchpad

1. Turn on the power to the system.
2. Repeatedly press and release to verify the light turns on and toggles between the intensity modes: high, medium, low, and cure-safe mode (577L) or high and composite/low mode (377L).

NOTE When the 377L is in the composite/low mode or the 577L is in cure-safe mode, the light indicator on the touchpad flashes.

3. Press and hold to turn off the light.
4. Press and hold and at the same time until the system beeps to disable or enable the auto on/off function.
   - **One beep** indicates this function is off.
   - **Three beeps** indicate this function is on.

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Reinstall the Driver Housing Cover

CAUTION When removing or replacing covers, take care not to damage any wiring. Verify that the covers are secure after replacing them.

Task 1.



1 Position the driver housing cover so the keyhole fits around the post; then push the driver housing cover into position with your palm.



2 Use two screws to secure the cover.

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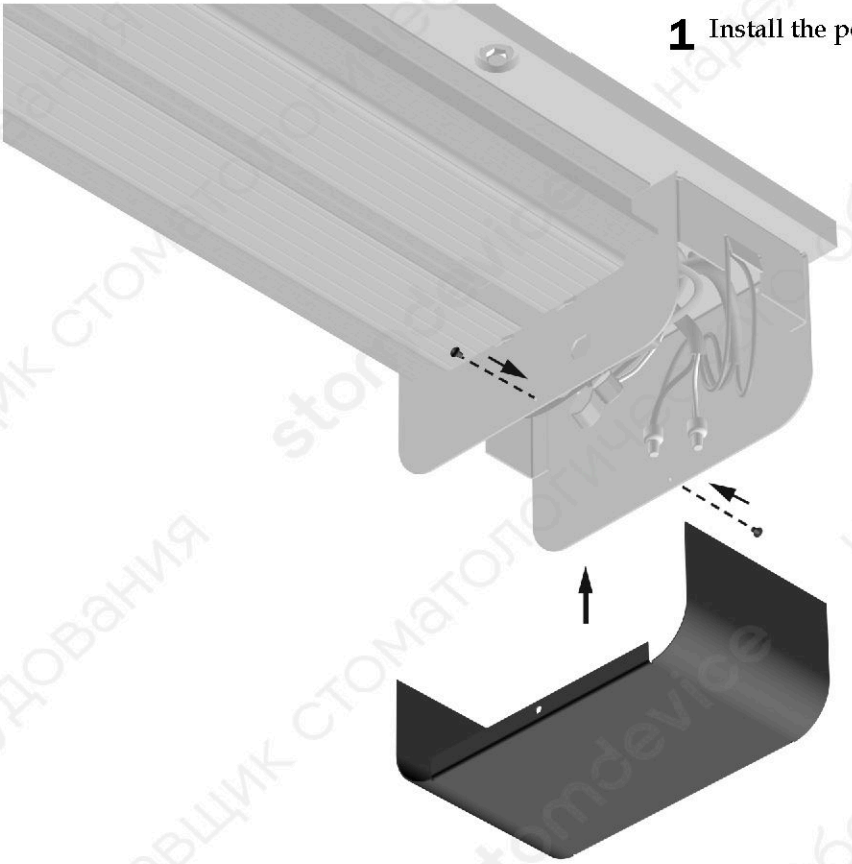
Install the Covers

Recommended Tools

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

CAUTION When removing or replacing covers, take care not to damage any wiring or tubing. Verify that the covers are secure after replacing them.

Task 1.

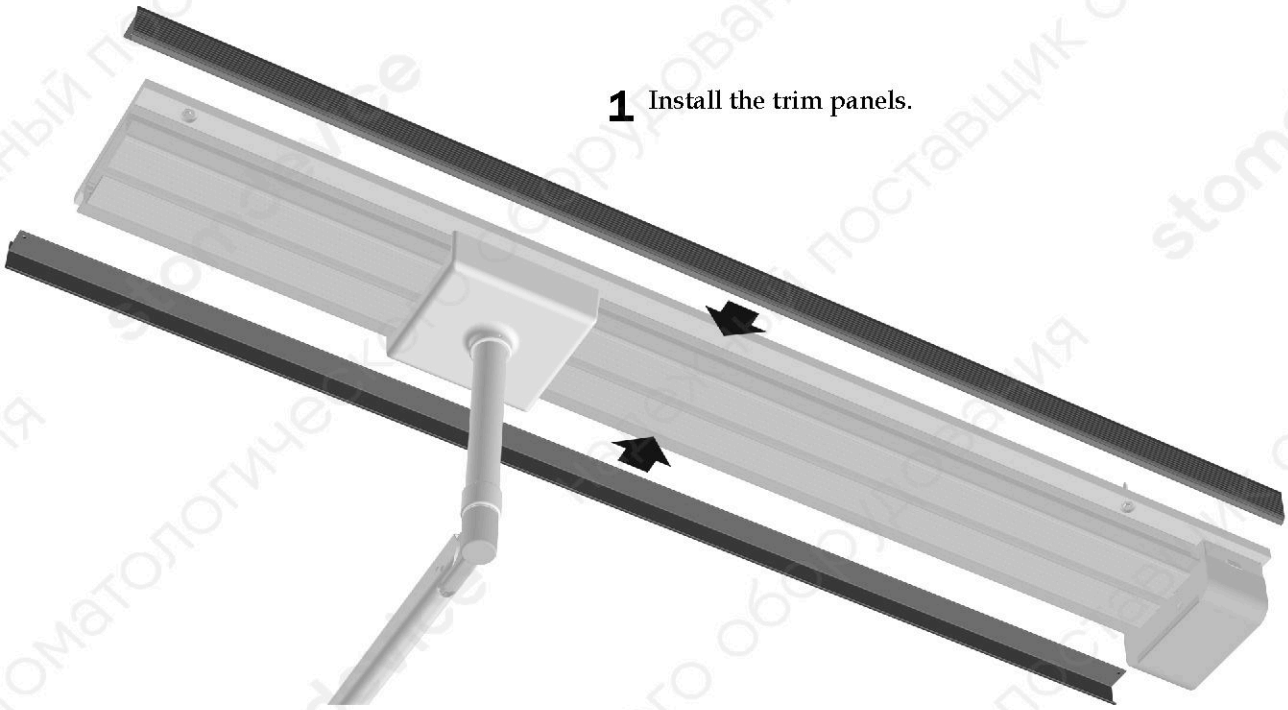


1 Install the power supply cover.

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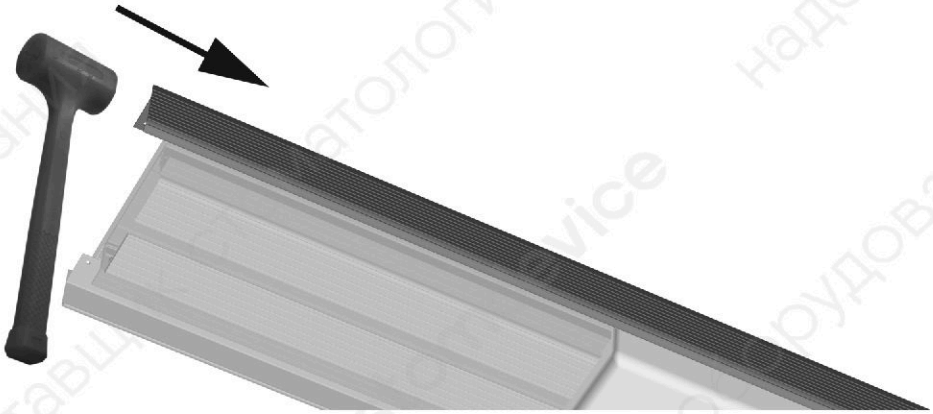
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Task 2.



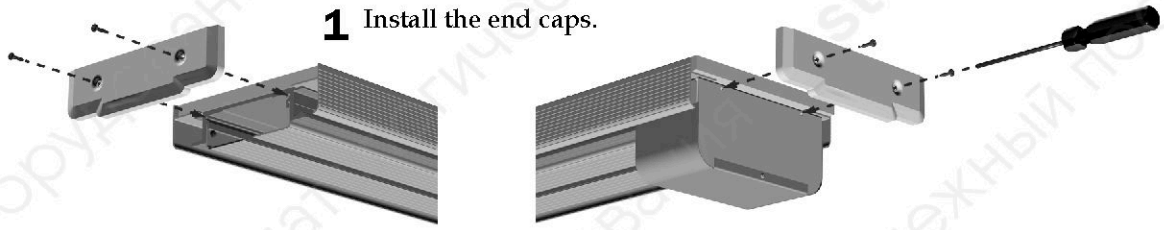
1 Install the trim panels.

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.

1 Install the end caps.



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Regulatory Information and Warranty

For required regulatory information and the A-dec warranty, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) available in the Resource Center at www.a-dec.com.

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A-dec Headquarters
2601 Crestview Drive
Newberg, OR 97132 USA
Tel: 1.800.547.1883 Within USA/CAN
Tel: +1.503.538.7478 Outside USA/CAN
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