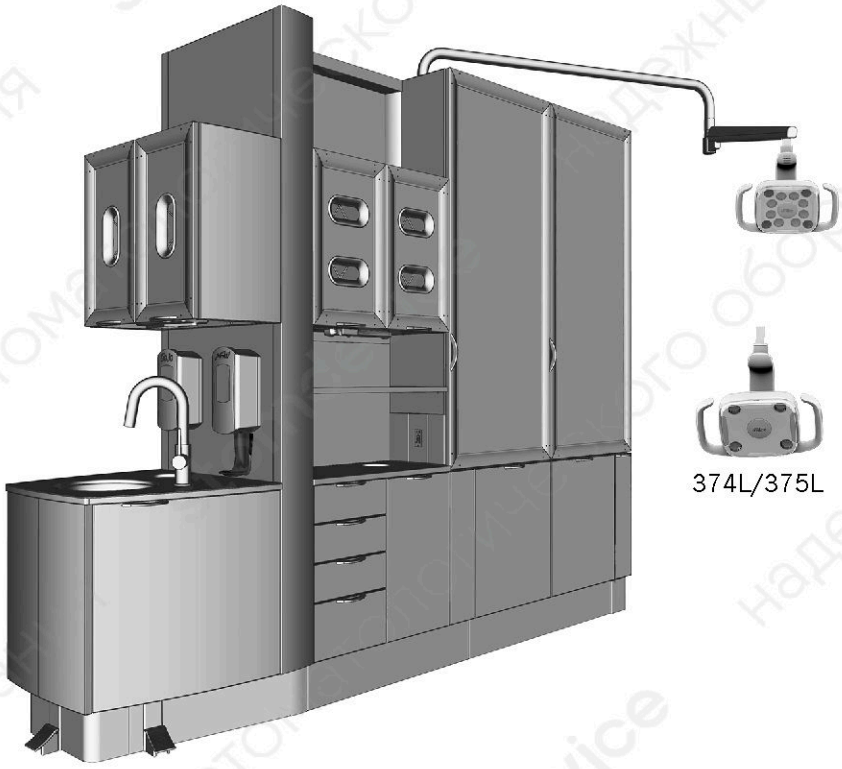
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A-dec 374L/375L/574L/575L Dental Lights on Cabinet/Wall

INSTALLATION GUIDE



374L/375L



A-dec 574L Dental Light Mounted on an A-dec Inspire® 592 Central Console

A-dec 574L Dental Light Mounted on a Preference Collection® Cabinet

Product Models and Versions Covered in this Document

Models	Versions	Description
374L/375L/574L/575L	A	Dental Light
592/593/595	A	Dental Furniture
Preference Collection	A	Dental Furniture

86.0334.00 Rev J

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Before You Begin

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

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.

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Install the Power Supply

See the section for the system's configuration:

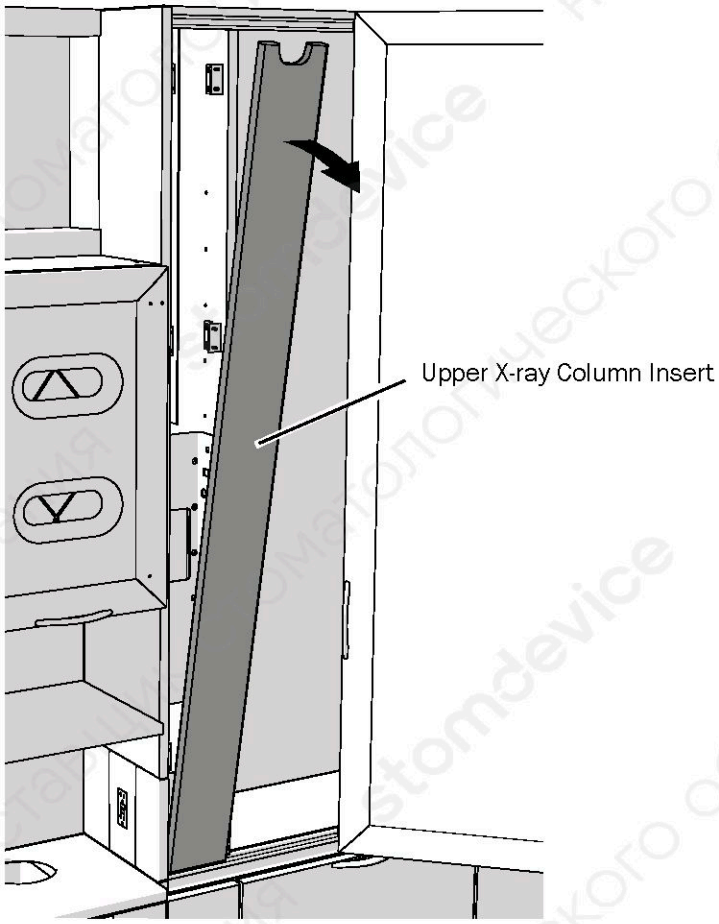
A-dec Inspire 592 Central Console and Preference Collection Cabinets 3
A-dec Inspire 593 Full Side Consoles and 595 Wall-Mounted Cabinets 7
Wall-Mount 10

A-dec Inspire 592 Central Console and Preference Collection Cabinets

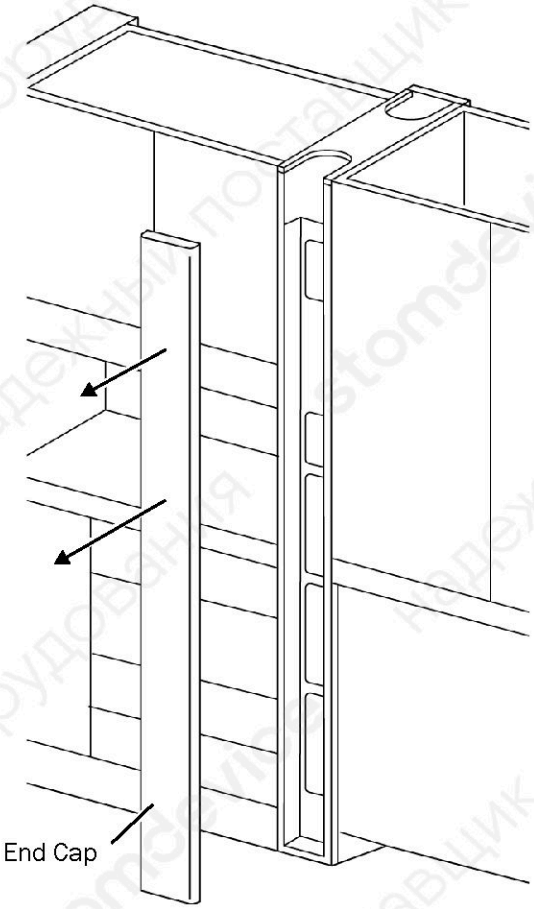
Recommended Tools

- 1/8" and 3/16" hex keys

Task 1.



592 Central Console



Preference Collection

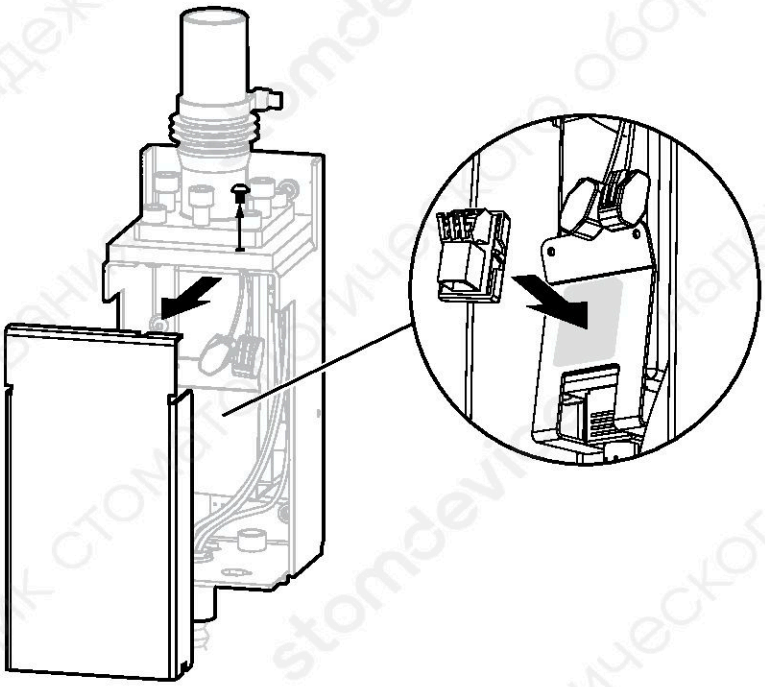
1 Remove the upper x-ray column insert or the end cap.

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Task 2.

CAUTION When you remove or replace the cover, take care not to damage any wiring or tubing. Verify that the cover is secure after you replace it.

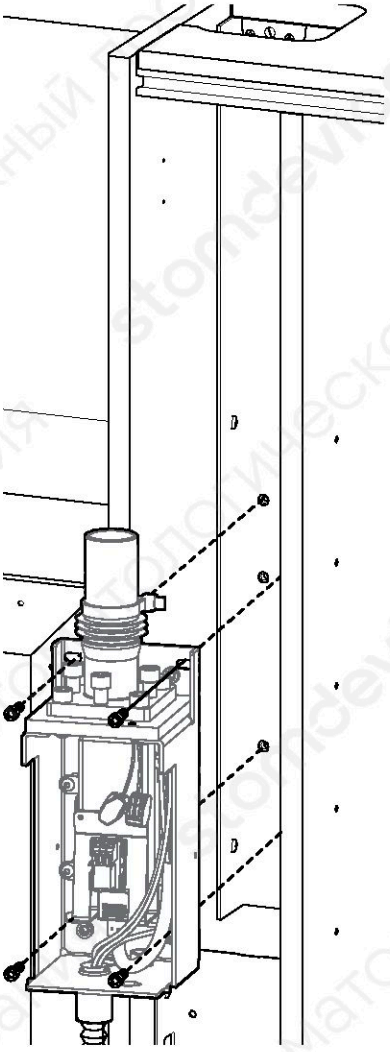


1. Remove the power supply cover.
2. Peel off the protective paper from the adaptor board.
3. Attach the adaptor board to the power supply bracket.

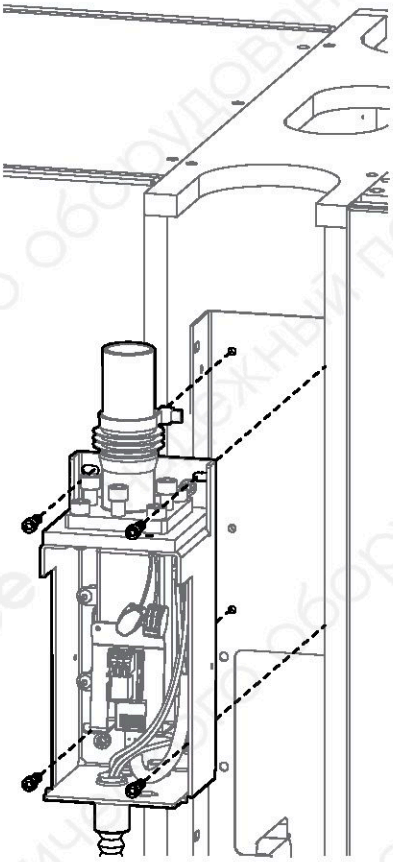
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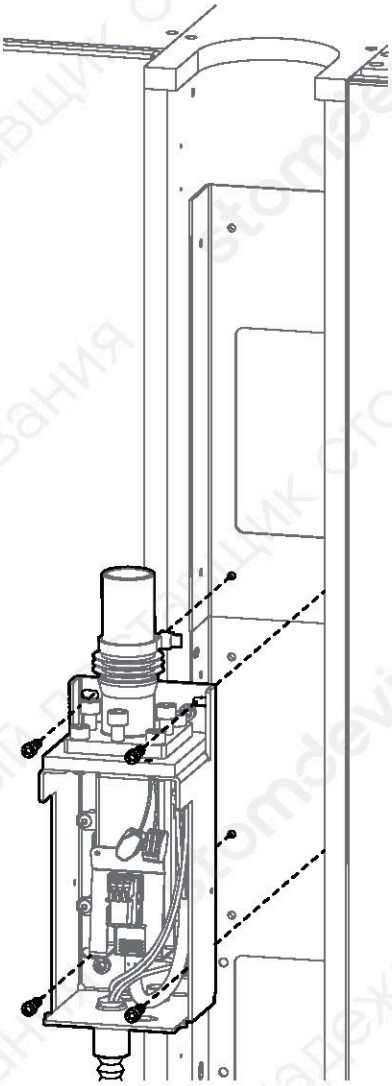
Task 3.



592 Central Console



Standard Preference Central Console



Tall Preference Central Console

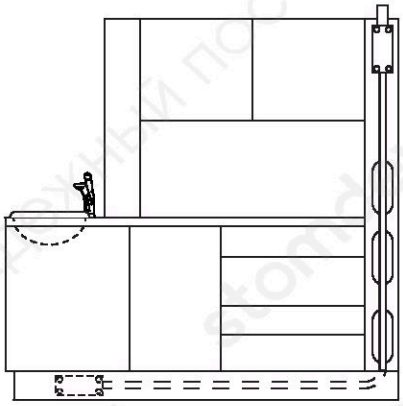
1 Apply Loctite® to the four mounting screws.

2 Use the four screws to mount the power supply.

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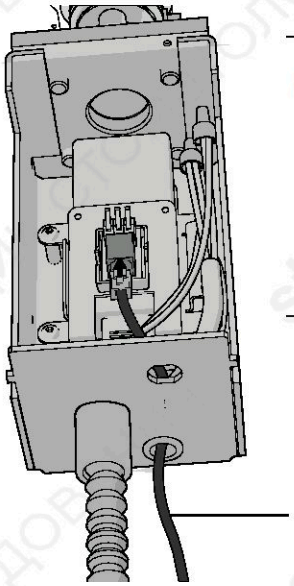
Task 4.



Preference Collection Shown

1 Route the conduit to the junction box below the sink module.

Task 5.



NOTE A data line has been included with the dental light for use with A-dec products that can operate the light through the touchpad. These products include the A-dec 500, A-dec 400, A-dec 300, A-dec 200, and Performer® (version B), as well as Decade®, Cascade®, and Performer (version A) dental chairs that have upgraded chair circuit boards and delivery system touchpads. The data line should never be plugged into a telephone jack. If the system does not include a touchpad, disregard the instructions for the data line.

1 Route the data line through the power supply frame.

2 Connect the data line.

Next step See "Install the Flexarm and Light Head" on page 13.

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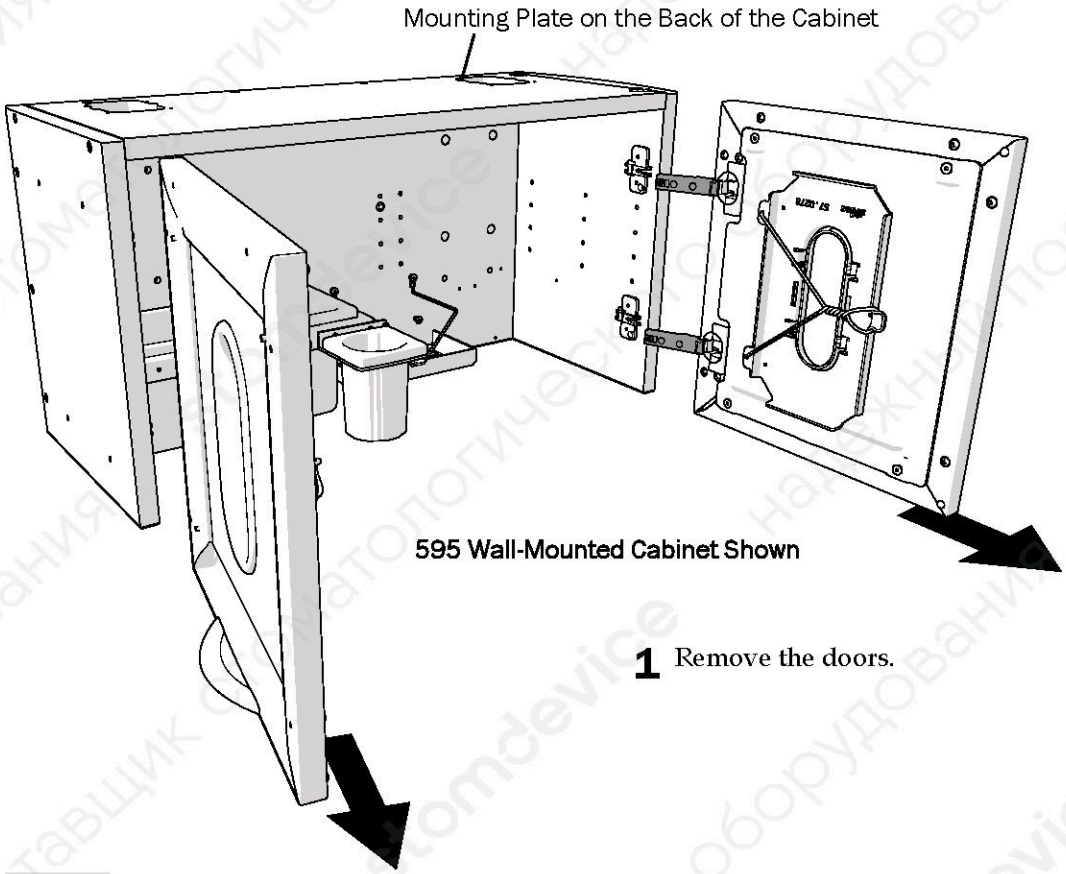
A-dec Inspire 593 Full Side Consoles and 595 Wall-Mounted Cabinets

READ THIS! **595 Wall-Mounted Cabinet Only.** The light can be installed toward either side of the cabinet. The mounting plate, which ships installed, is required for structural integrity of the light and cabinet assembly. For instructions on how to move the mounting plate, see the *A-dec Inspire 595 Wall-Mounted Cabinet Installation Guide*, p/n 86.0520.00.

Recommended Tools

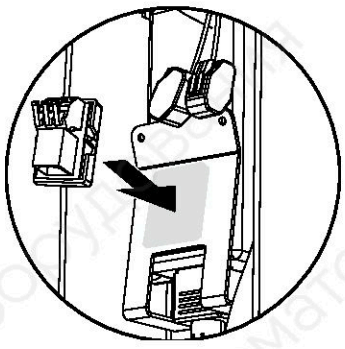
- Drill
- 3/16" hex key

Task 1.



1 Remove the doors.

Task 2.



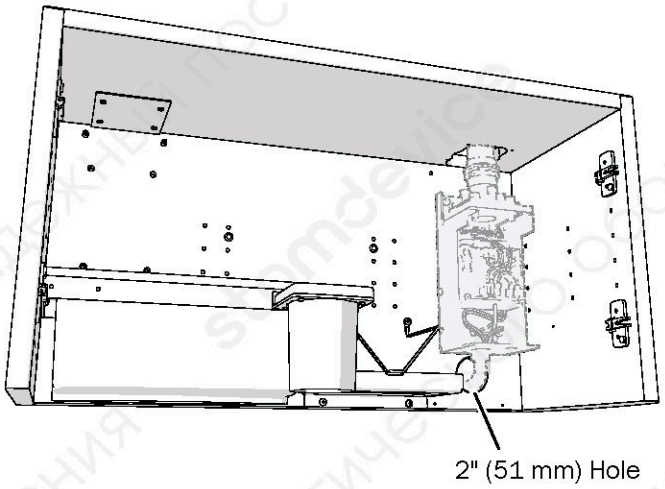
1 Peel off the protective paper from the adaptor board.

2 Attach the adaptor board to the power supply bracket.

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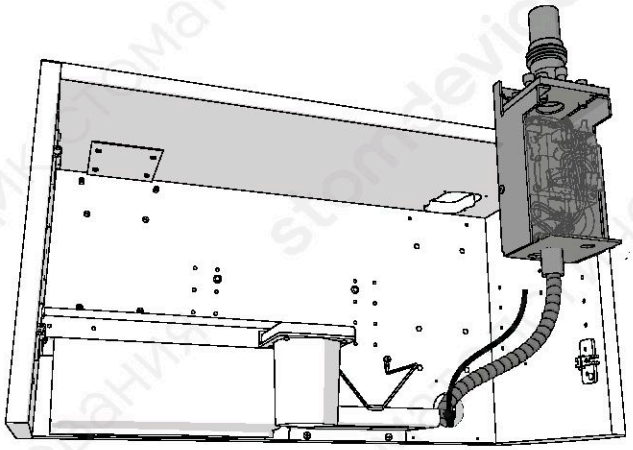
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Task 3. (595 Wall-Mounted Cabinets Only)

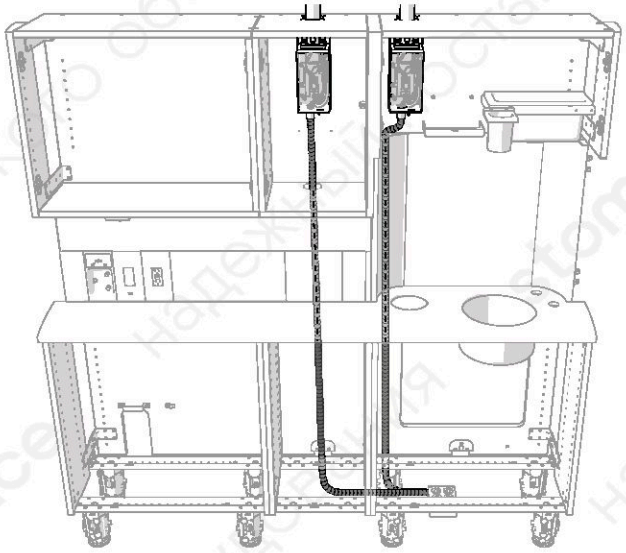


1 Drill a 2" (51 mm) hole in the cabinet and wall about 2" (51 mm) below where the power supply will be mounted. The hole is used for routing the conduit and data line.

Task 4.



595 Wall-Mounted Cabinet



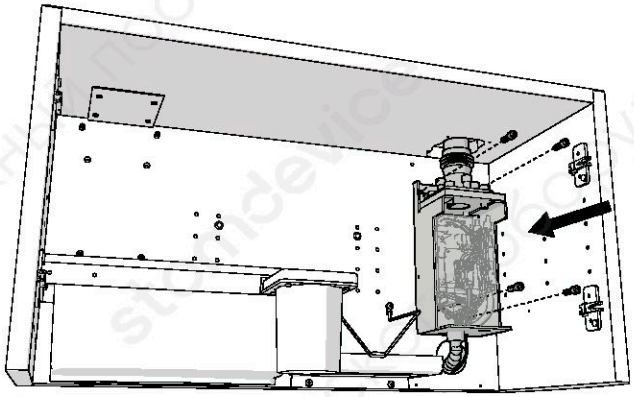
Possible Locations Shown on a 593 Full Side Console

1 Route the conduit to the junction box.

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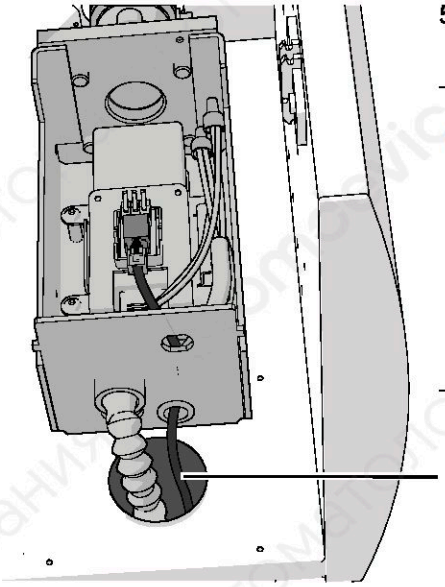
Task 5.



1 Apply Loctite to the four mounting screws.

2 Use the four screws to mount the power supply to the back of the cabinet.

Task 6.



595 Wall-Mounted Cabinet Shown

NOTE A data line has been included with the dental light for use with A-dec products that can operate the light through the touchpad. These products include the A-dec 500, A-dec 400, A-dec 300, A-dec 200, and Performer (version B), as well as Decade, Cascade, and Performer (version A) dental chairs that have upgraded chair circuit boards and delivery system touchpads. The data line should never be plugged into a telephone jack. If the system does not include a touchpad, disregard the instructions for the data line.

1 Route the data line through the cabinet and power supply frame.

2 Connect the data line.

Next step See "Install the Flexarm and Light Head" on page 13.

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Wall-Mount

Recommended Tools

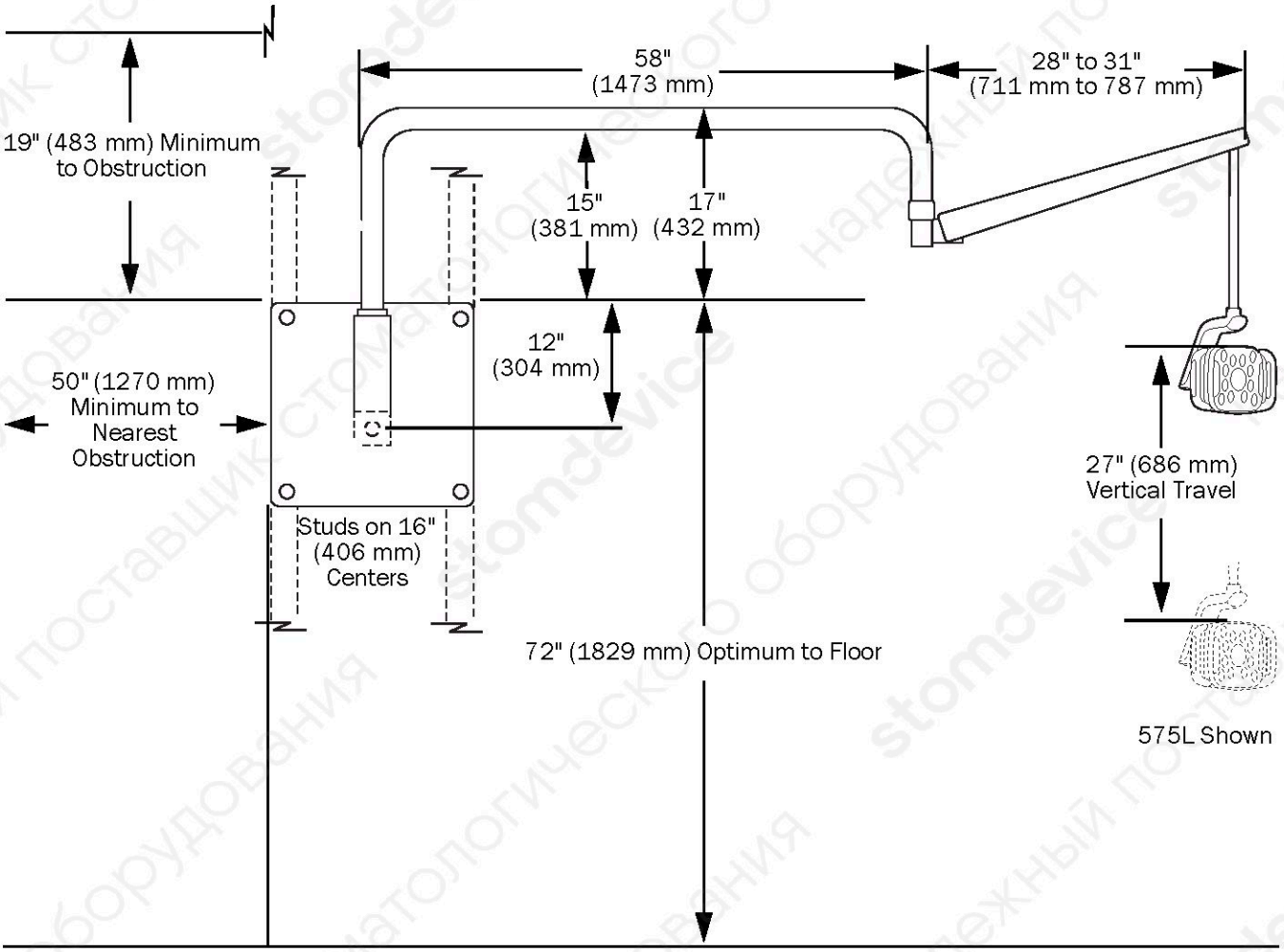
- Drill
- 3/16" and 1/2" bits
- 1/8" hex key
- 9/16" socket and ratchet
- Level

WARNING Do not use hollow wall fasteners that rely on non-structural elements. A-dec is not responsible for any damage resulting from the use of hollow wall fasteners.

WARNING Consult a licensed professional, i.e. structural or architectural engineer, for mounting to metal stud or masonry walls. Ensure that all installations conform to local codes. Walls must be designed to support a minimum shear load of 38 lb (169 N) and a minimum moment of 150 ft-lb (203 N·m).

Task 1.

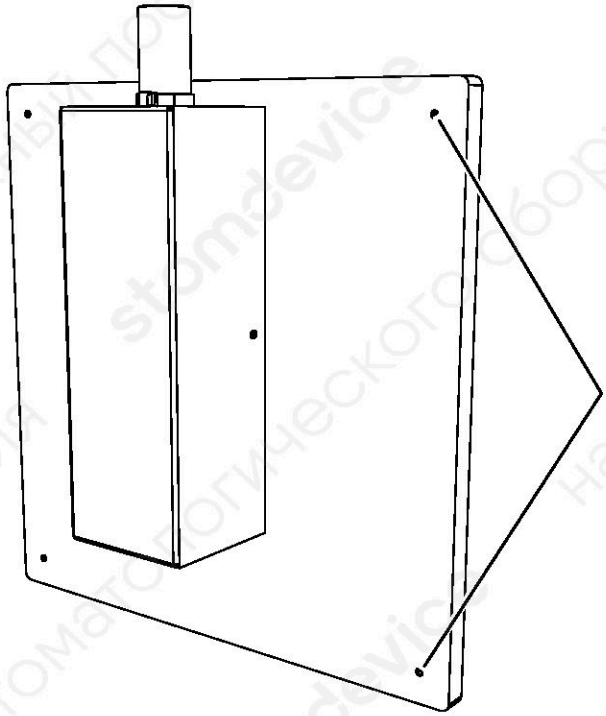
1 Determine where to mount the backboard.



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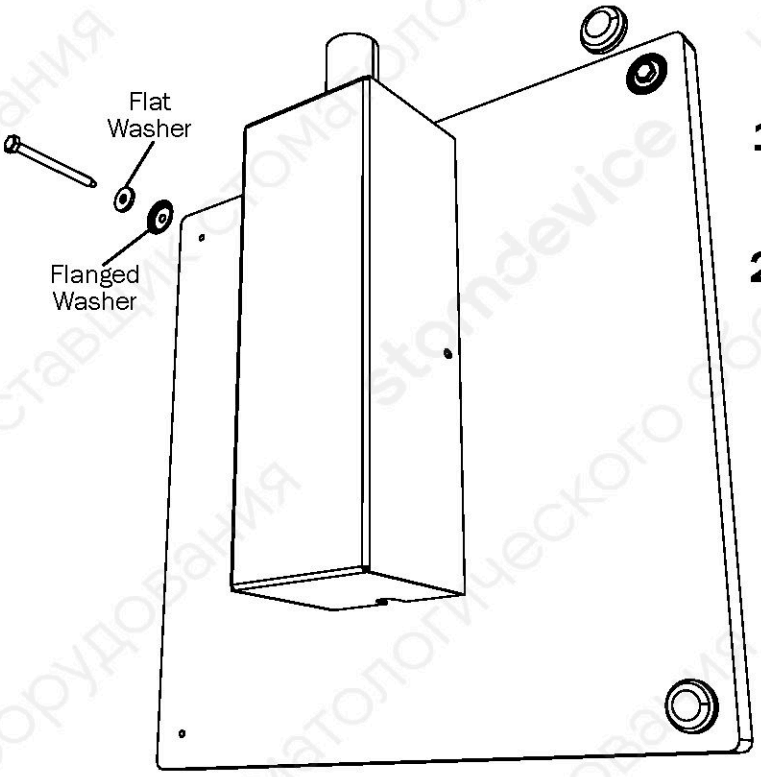
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Task 2.



1. Level the backboard and mark the mounting holes in each corner.
2. Set the backboard aside.
   Use a 3/16" bit to drill a hole at each mark.

Task 3.

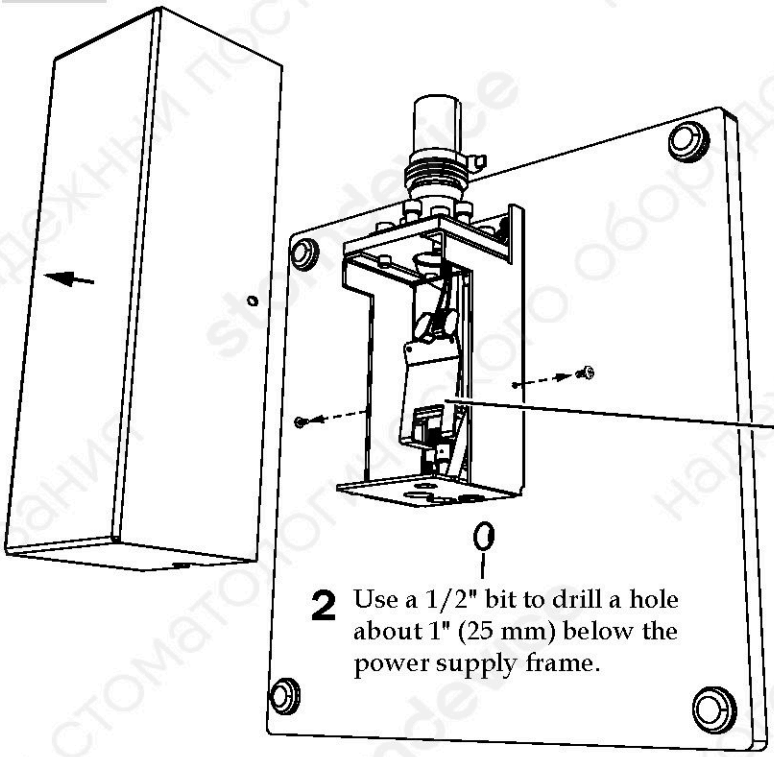


1. In each corner, use a 9/16" socket and ratchet to secure the backboard with a lag screw, flat washer, and flanged washer.
2. Press a cap over each lag screw.

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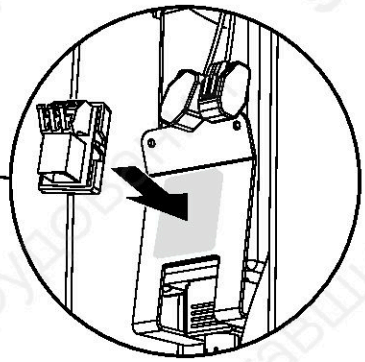
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Task 4.



1 Remove the power supply cover.

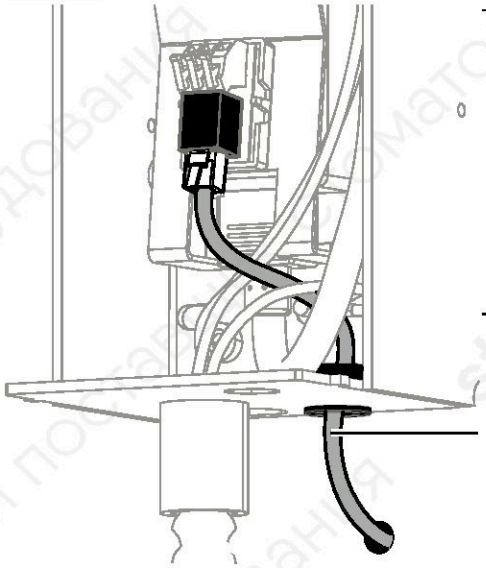
2 Use a 1/2" bit to drill a hole about 1" (25 mm) below the power supply frame.



3 Peel off the protective paper from the adaptor board.

4 Attach the adaptor board to the power supply bracket.

Task 5.



NOTE A data line has been included with the dental light for use with A-dec products that can operate the light through the touchpad. These products include the A-dec 500, A-dec 400, A-dec 300, A-dec 200, and Performer (version B), as well as Decade, Cascade, and Performer (version A) dental chairs that have upgraded chair circuit boards and delivery system touchpads. The data line should never be plugged into a telephone jack. If the system does not include a touchpad, disregard the instructions for the data line.

1 Route the data line through the wall and the power supply frame.

2 Connect the data line.

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Install the Flexarm and Light Head

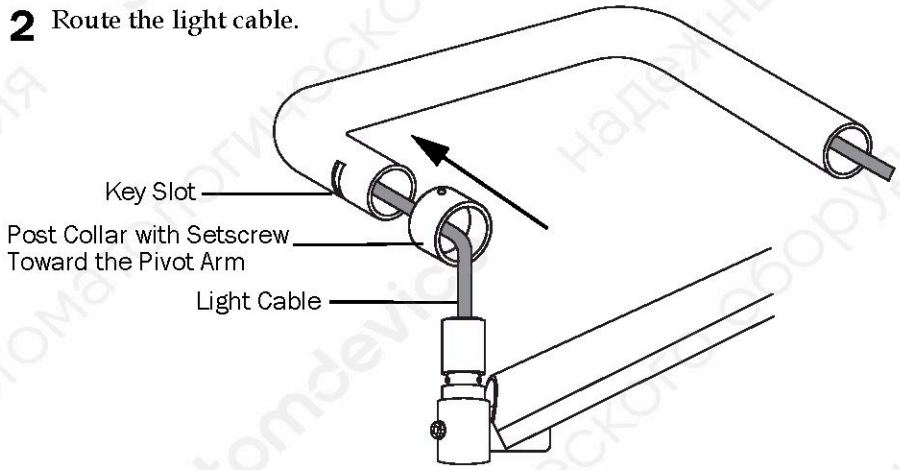
Recommended Tool

- 1/16" hex key

Task 1.

1 On a flat surface, place the parts as shown.

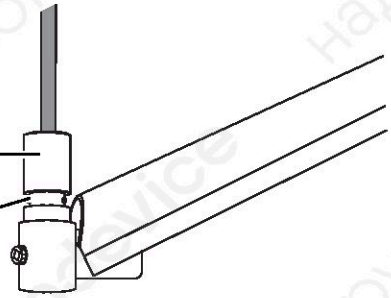
2 Route the light cable.

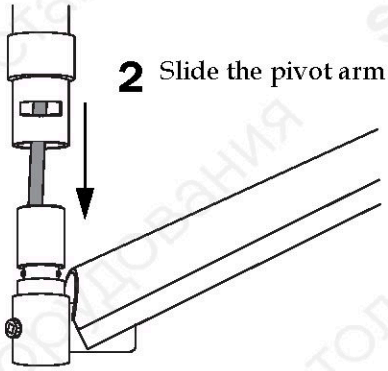


Task 2.

1 Lightly lubricate the flexarm hub.

Do not lubricate the groove where the key will sit.



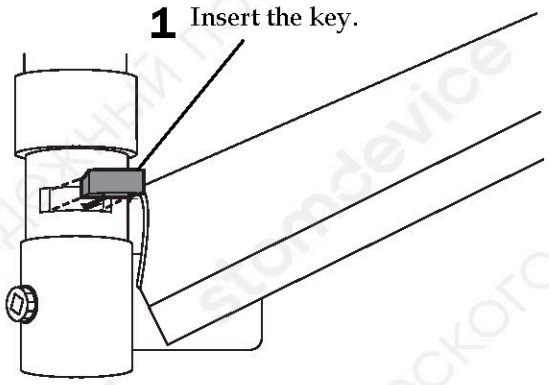


2 Slide the pivot arm onto the flexarm.

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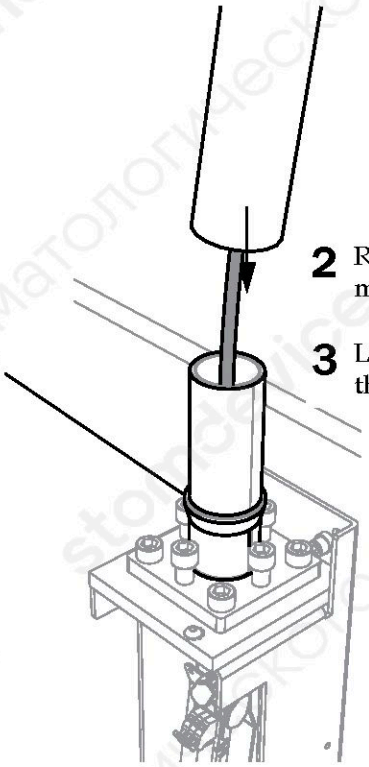
Task 3.



2 Lower the collar over the slot so that the setscrew is not over the key.

3 Firmly tighten the setscrew.

Task 4.



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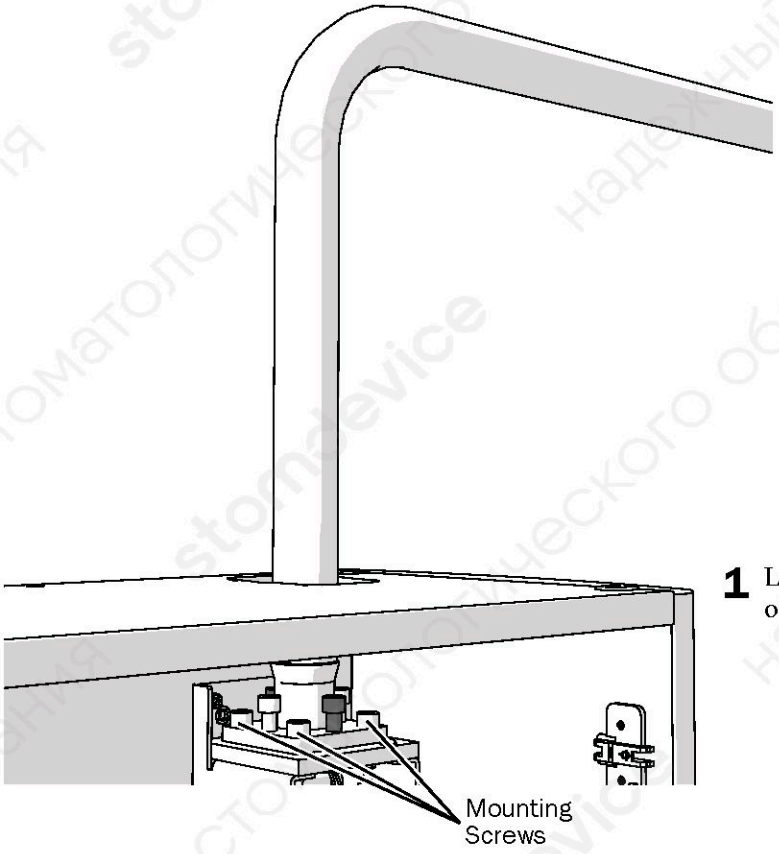
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Level the Light

Recommended Tool

- 5/16" hex key

Task 1.

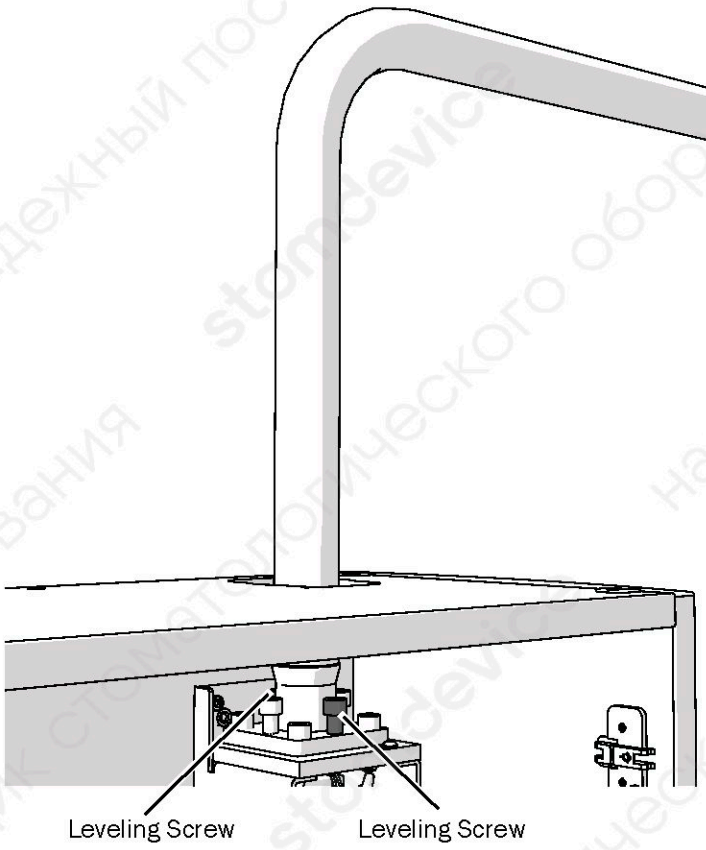


1 Loosen the four mounting screws in the corners of the power supply frame.

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Task 2.

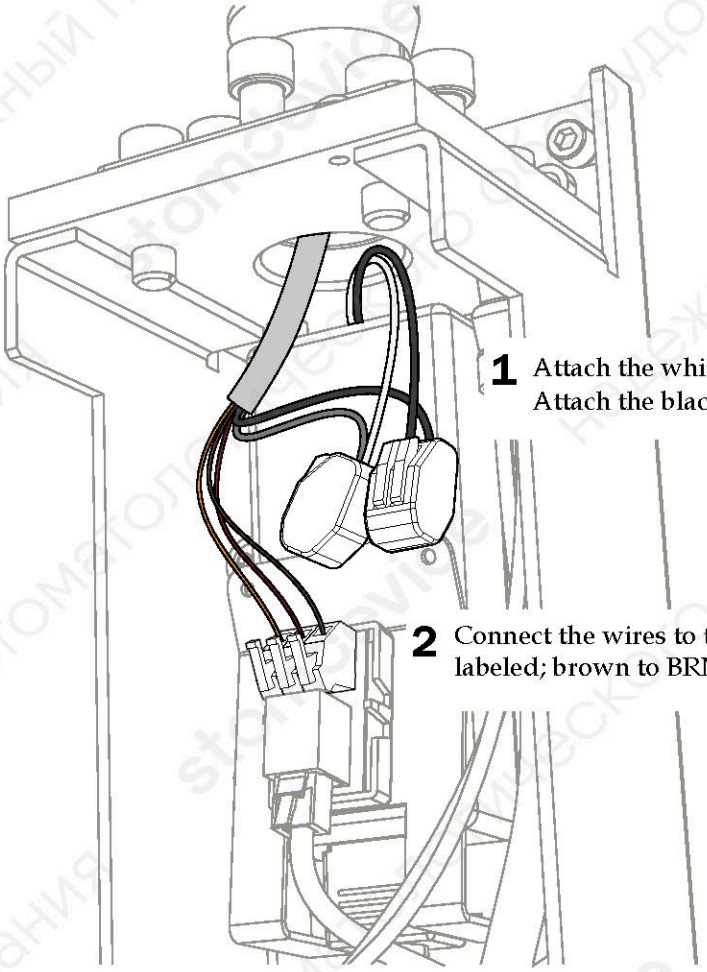


1. Place the light in multiple positions and check if it drifts.
2. If the light drifts in any position, adjust the leveling screws until the light holds its position.
3. Securely tighten the mounting screws.

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Connect the Light Cable



1 Attach the white wire to the WAGO® connector with the gray wire. Attach the black wire to the WAGO with the black wire.

2 Connect the wires to the positions on the adaptor board as labeled; brown to BRN, red to RED, and orange to ORN.

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Prepare and Adjust the Light

Adjust the Dental Light Flexarm Counterbalance

Check the dental light flexarm for drift. If the dental light drifts, complete the following steps to adjust the flexarm counterbalance.

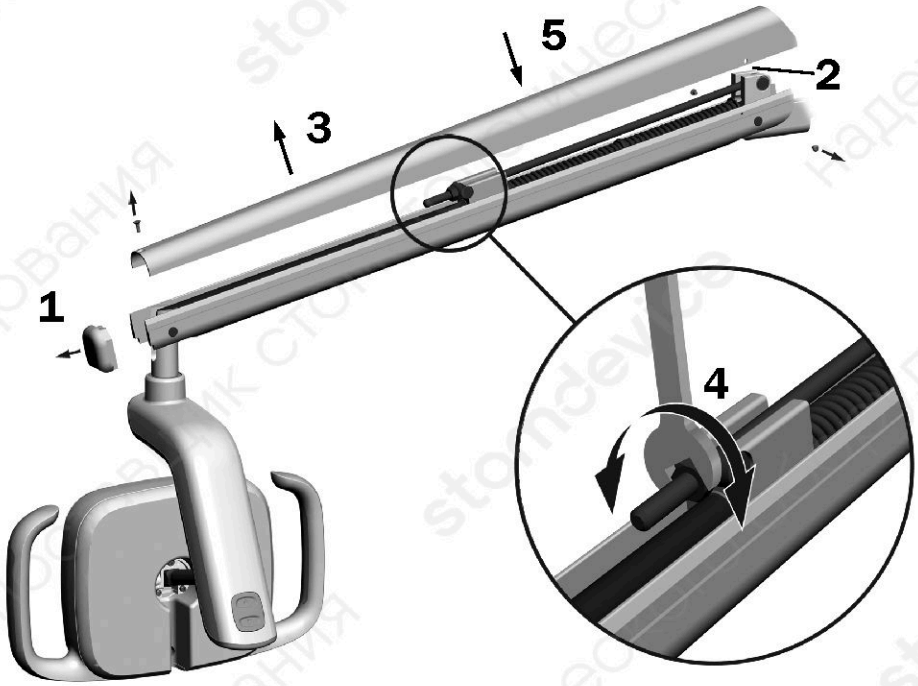
Recommended Tools

- 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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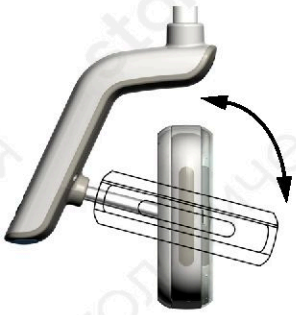
Adjust the Rotation Tension

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 you remove or replace the cover, take care not to damage any wiring or tubing. Verify that the cover is secure after you replace it.

1 Remove the two screws securing the driver housing cover.

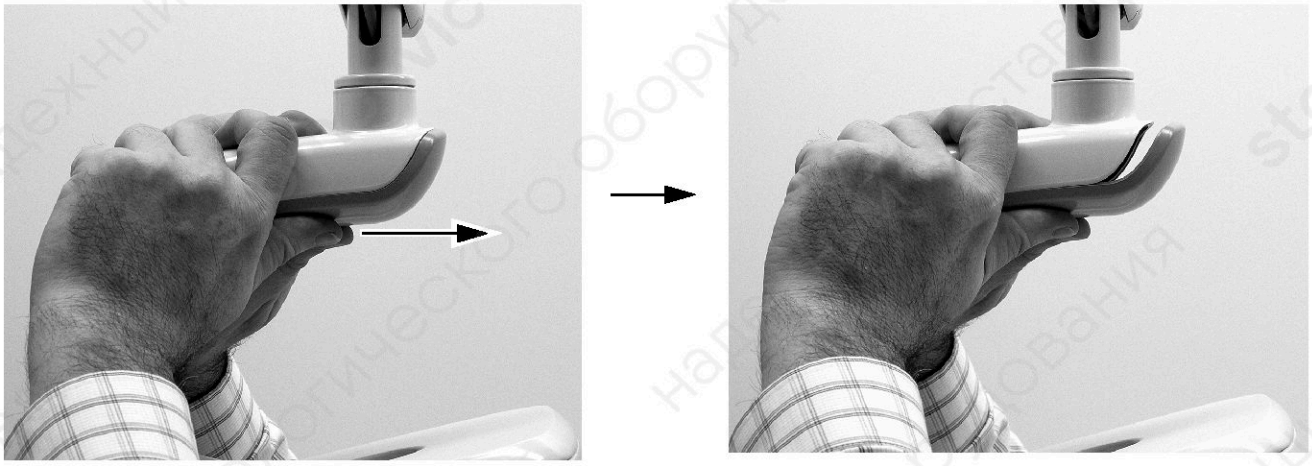


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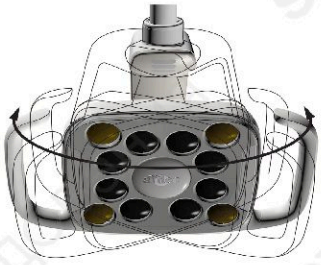
Task 2.

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

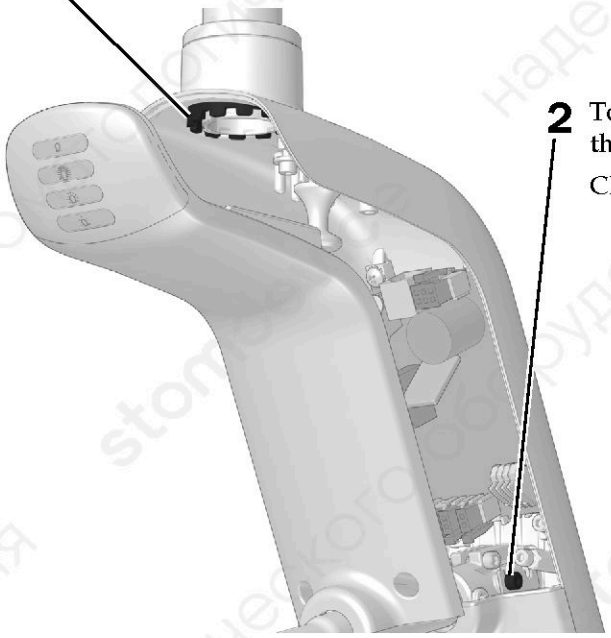


Task 3.

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



574L/575L Shown



2 To adjust diagonal tension, turn the setscrew.

Clockwise increases the tension.



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Test the Light

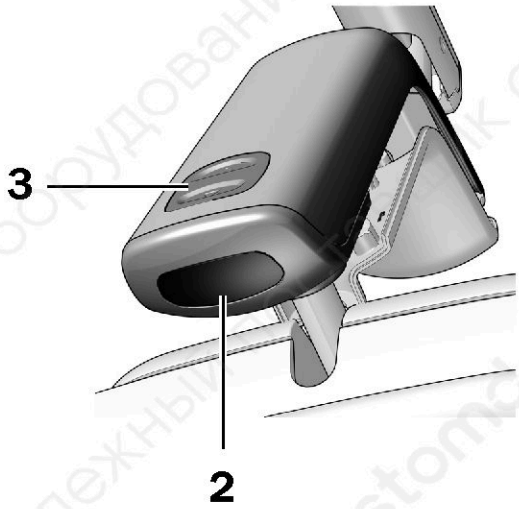
Perform the procedures appropriate to your light:

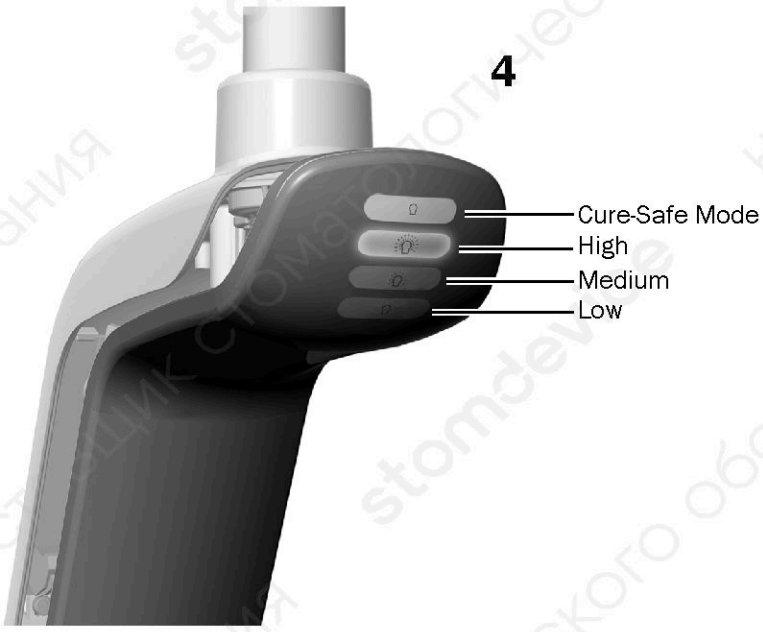
Test the Light From the A-dec 574L/575L Light Head 21
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Test the Light From the A-dec 574L/575L Light Head

Task 1.

1. Turn on the power to 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 buttons 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 wire connections.





Next Step See "Test the Light From the Touchpad" on page 23.

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Test the Light From the A-dec 374L/375L Light Head

Task 1.

1. Turn on the power to 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 wire connections.

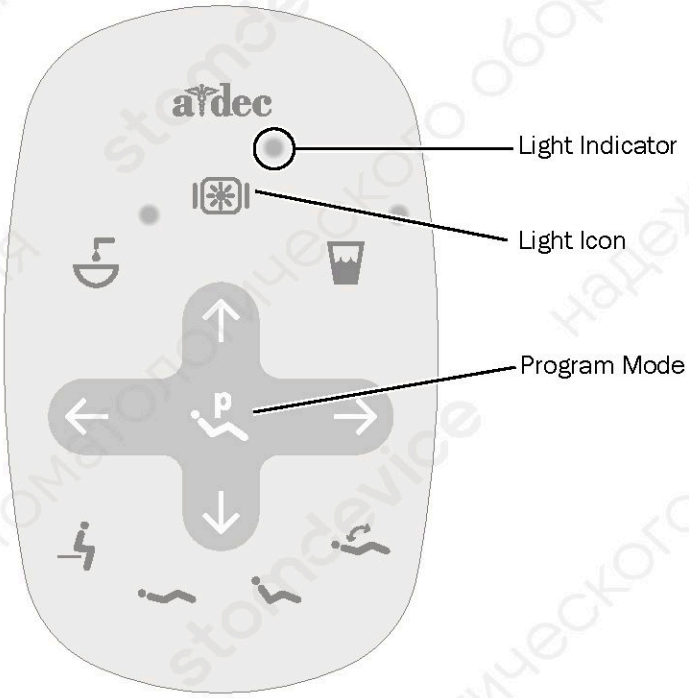


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Test the Light From the Touchpad

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 (574L/575L) or high and composite/low mode (374L/375L).

   NOTE When the 374L/375L is in the composite/low mode or the 574L/575L 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 you remove or replace the cover, take care not to damage any wiring or tubing. Verify that the cover is secure after you replace it.

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 and Doors

CAUTION When you remove or replace the cover, take care not to damage any wiring or tubing. Verify that the cover is secure after you replace it.

Preference

1. Use one screw at the top to reinstall the power supply cover.
2. Reinstall the end cap.

592 Central Console

1. Use one screw at the top to reinstall the power supply cover.
2. Reinstall the upper x-ray insert.

593 Full Side Console and 595 Wall-Mount Cabinet

1. Use four screws, two at the bottom and two at the top, to install the power supply cover.
2. Reinstall the cabinet doors.

Wall-Mount

Use two screws, one on each side, to reinstall the power supply cover.

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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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