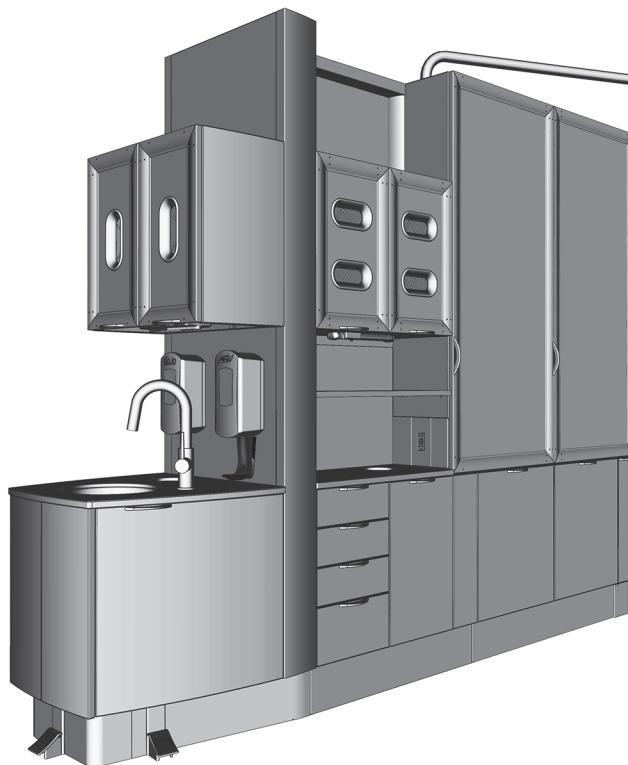




A-dec 574L and 575L Dental Lights on a Cabinet or Wall

INSTALLATION GUIDE



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

Before You Begin

1. 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.

Install the Power Supply

See the section for the system's configuration:

A-dec Inspire™ 592 Central Console and Preference Collection Cabinets page 2

A-dec Inspire™ 593 Full Side Consoles and 595 Wall-Mounted Cabinets page 6

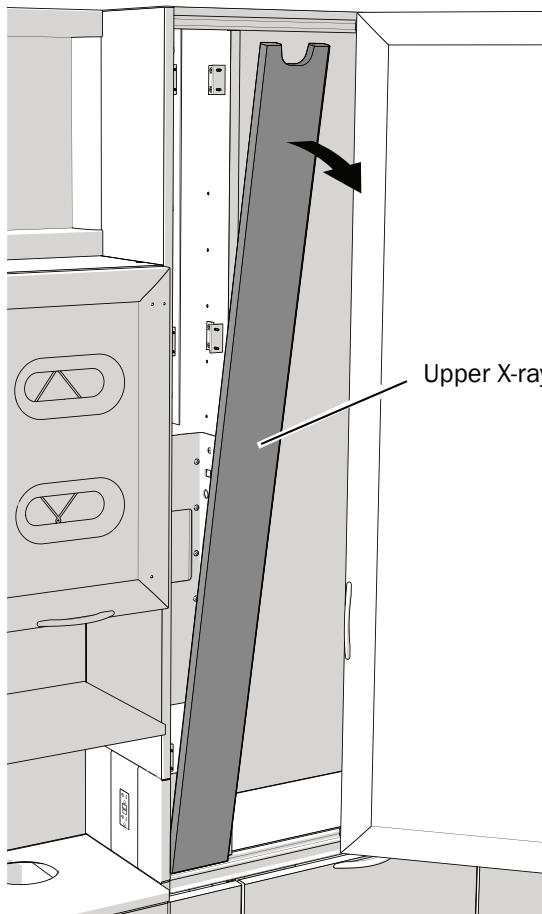
Wall-Mount..... page 9

A-dec Inspire 592 Central Console and Preference Collection Cabinets

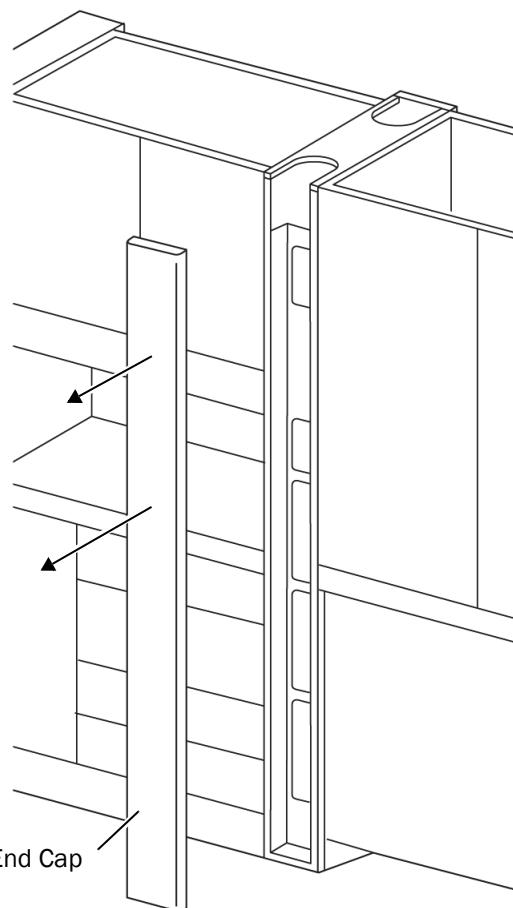
Recommended Tools

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

Task 1.



592 Central Console



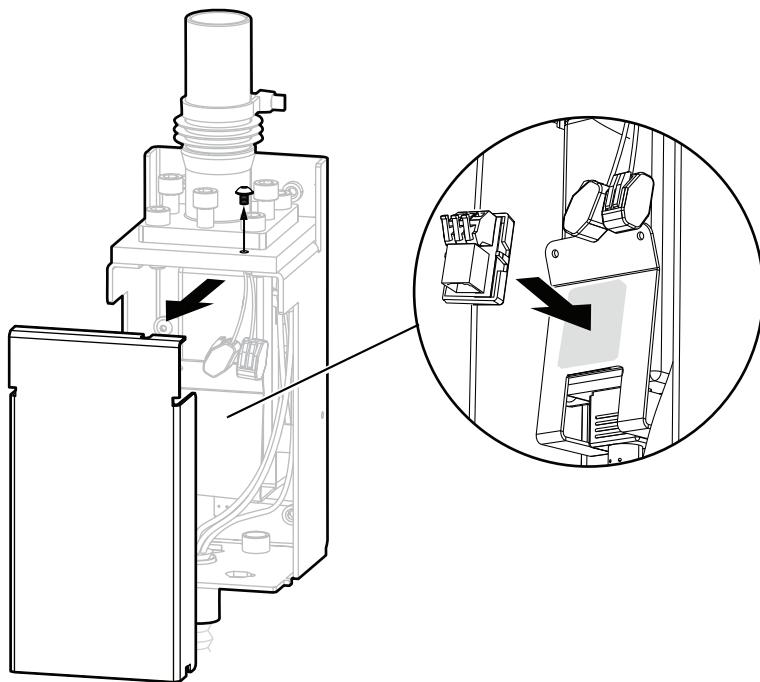
Preference Collection

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

Task 2.

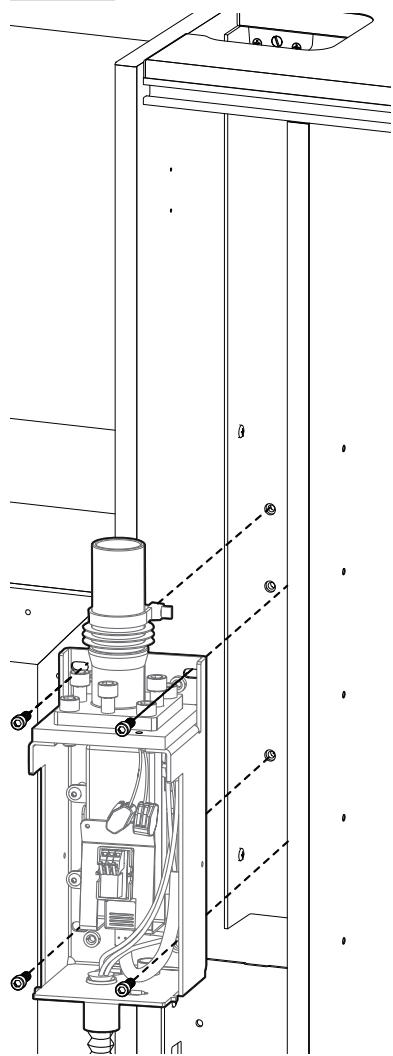


CAUTION When removing or replacing covers, take care not to damage any wiring or tubing.
Verify that the covers are secure after replacing them.

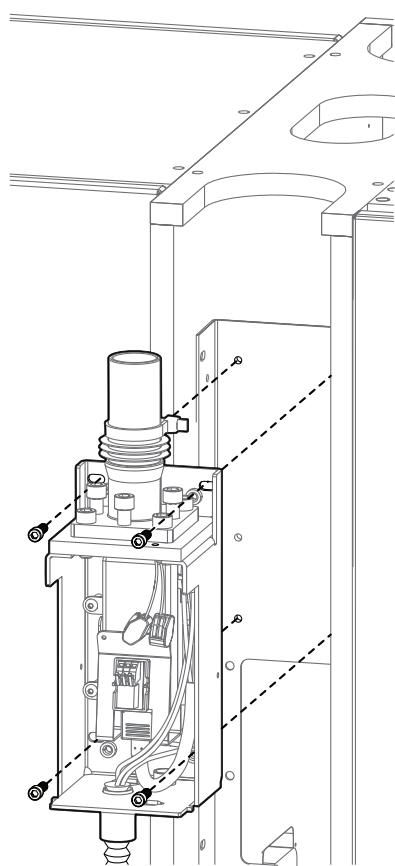


- 1** Remove the power supply cover.
- 2** Peel off the protective paper from the adaptor board.
- 3** Attach the adaptor board to the power supply bracket.

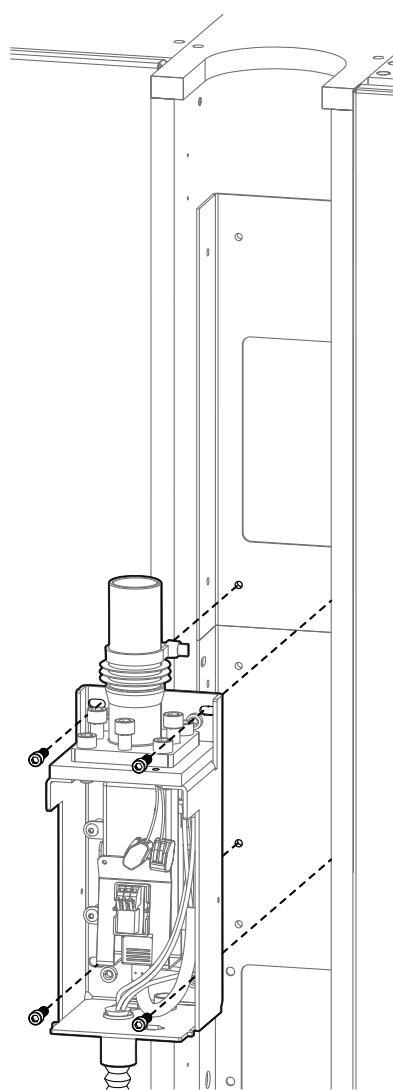
Task 3.



592 Central Console



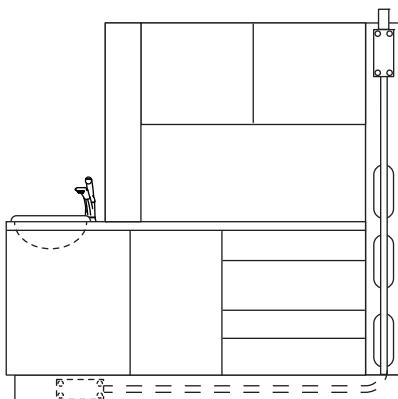
Standard Preference Central Console



Tall Preference Central Console

- 1 Use four screws to mount the power supply cover.

Task 4.

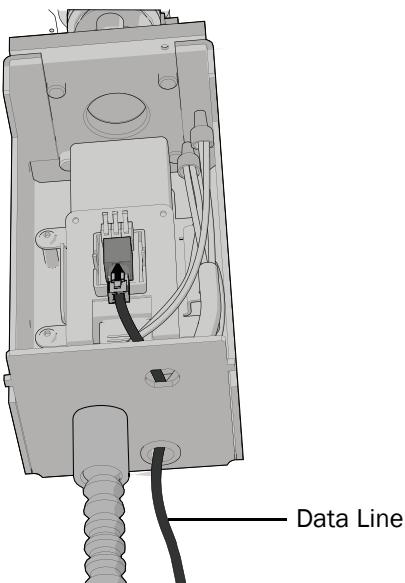


Preference Collection Shown

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

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

Task 5.



- 1 Route the data line through the power supply frame.

- 2 Connect the data line.

Next step See “Level the Hub” on page 12.

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

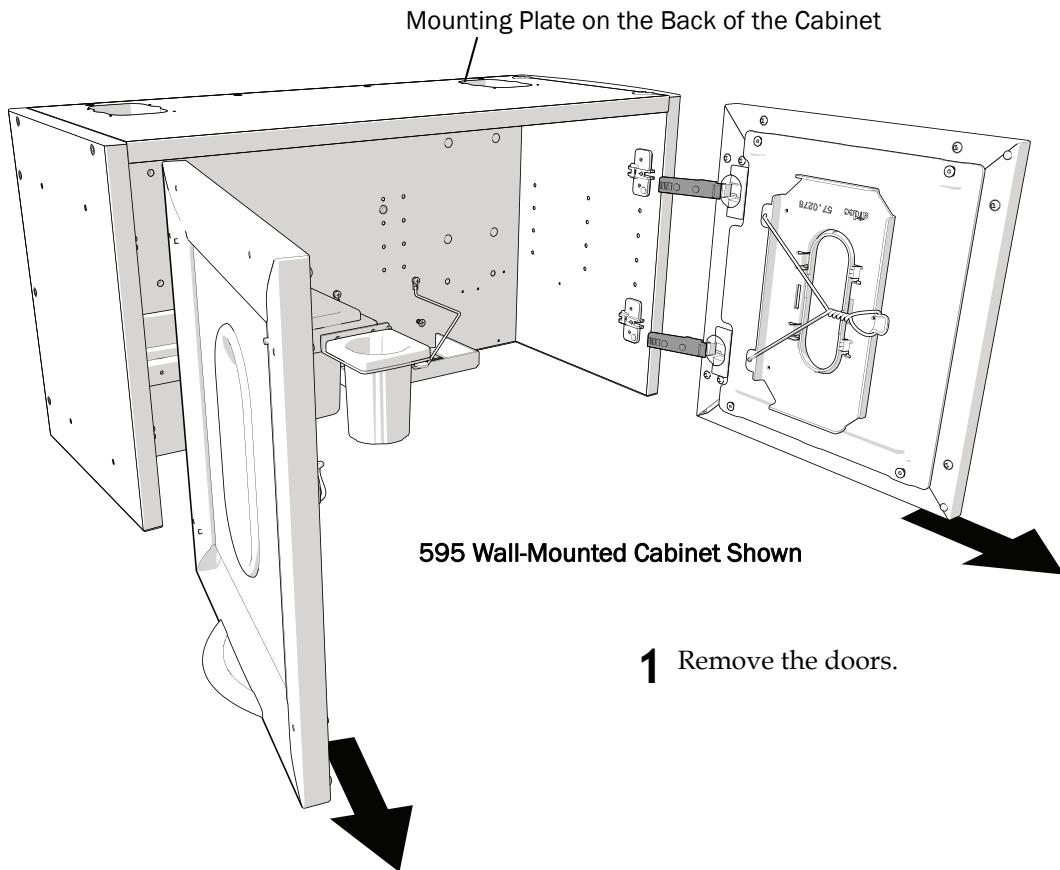


READ THIS! 595 Wall-Mounted Cabinet Only. The light can be installed toward either side of the cabinet. The mounting plate, which ships installed, is required for structural integrity of the light and cabinet assembly. For instructions on how to move the mounting plate, see the A-dec Inspire 595 Wall-Mounted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

Recommended Tools

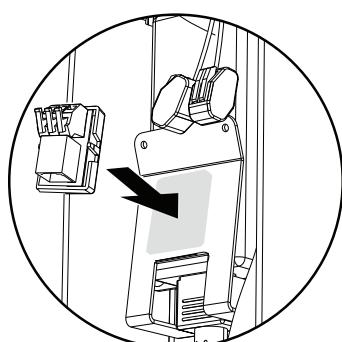
- Drill
- 3/16" hex key

Task 1.



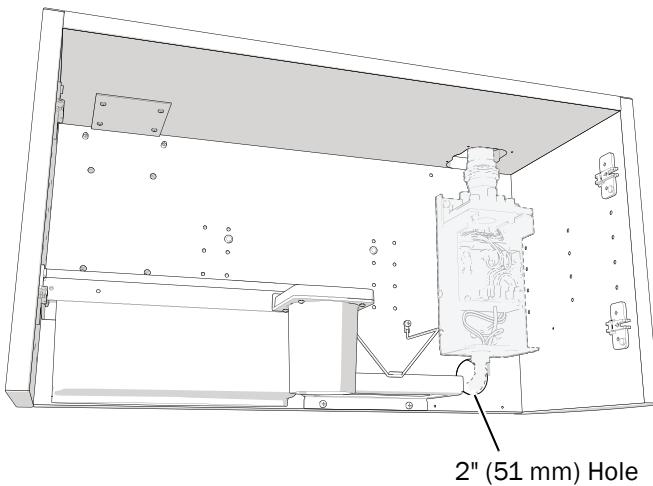
- 1 Remove the doors.

Task 2.



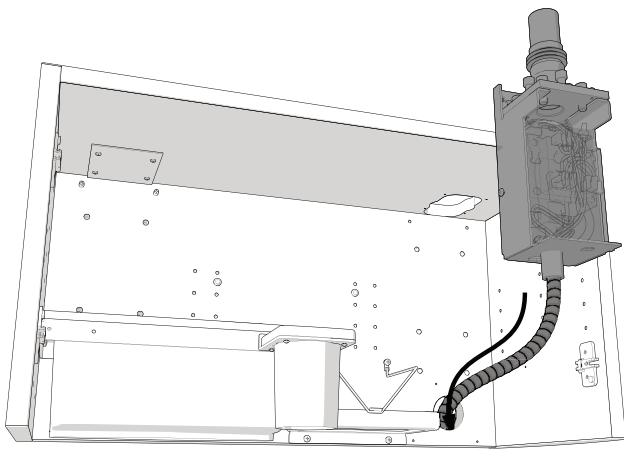
- 1 Peel off the protective paper from the adaptor board.
- 2 Attach the adaptor board to the power supply bracket.

Task 3. (595 Wall-Mounted Cabinets Only)

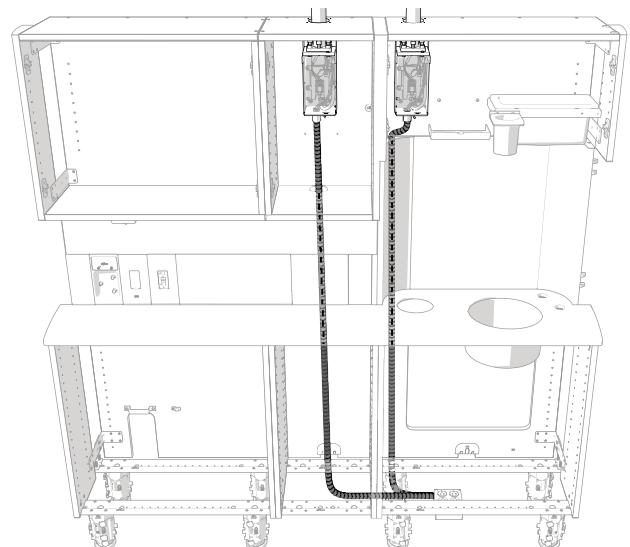


- 1 Drill a 2" (51 mm) hole in the cabinet and wall about 2" (51 mm) below where the power supply will be mounted. The hole is used for routing the conduit and data line.

Task 4.



595 Wall-Mounted Cabinet



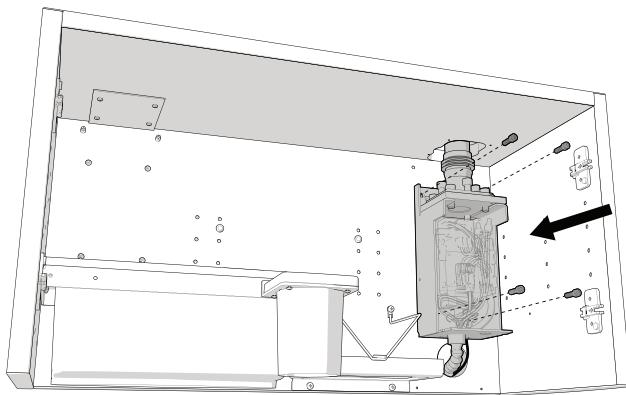
Possible Locations Shown on a 593 Full Side Console



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

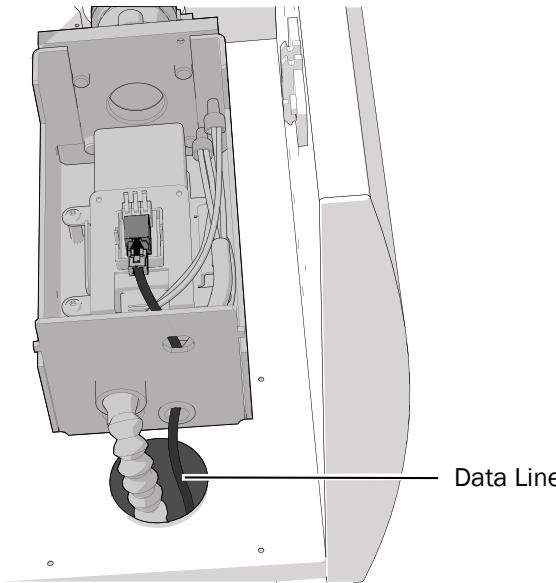
- 1 Route the conduit to the junction box.

Task 5.



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

Task 6.



595 Wall-Mounted Cabinet Shown

- 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.

Wall-Mount

Recommended Tools

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



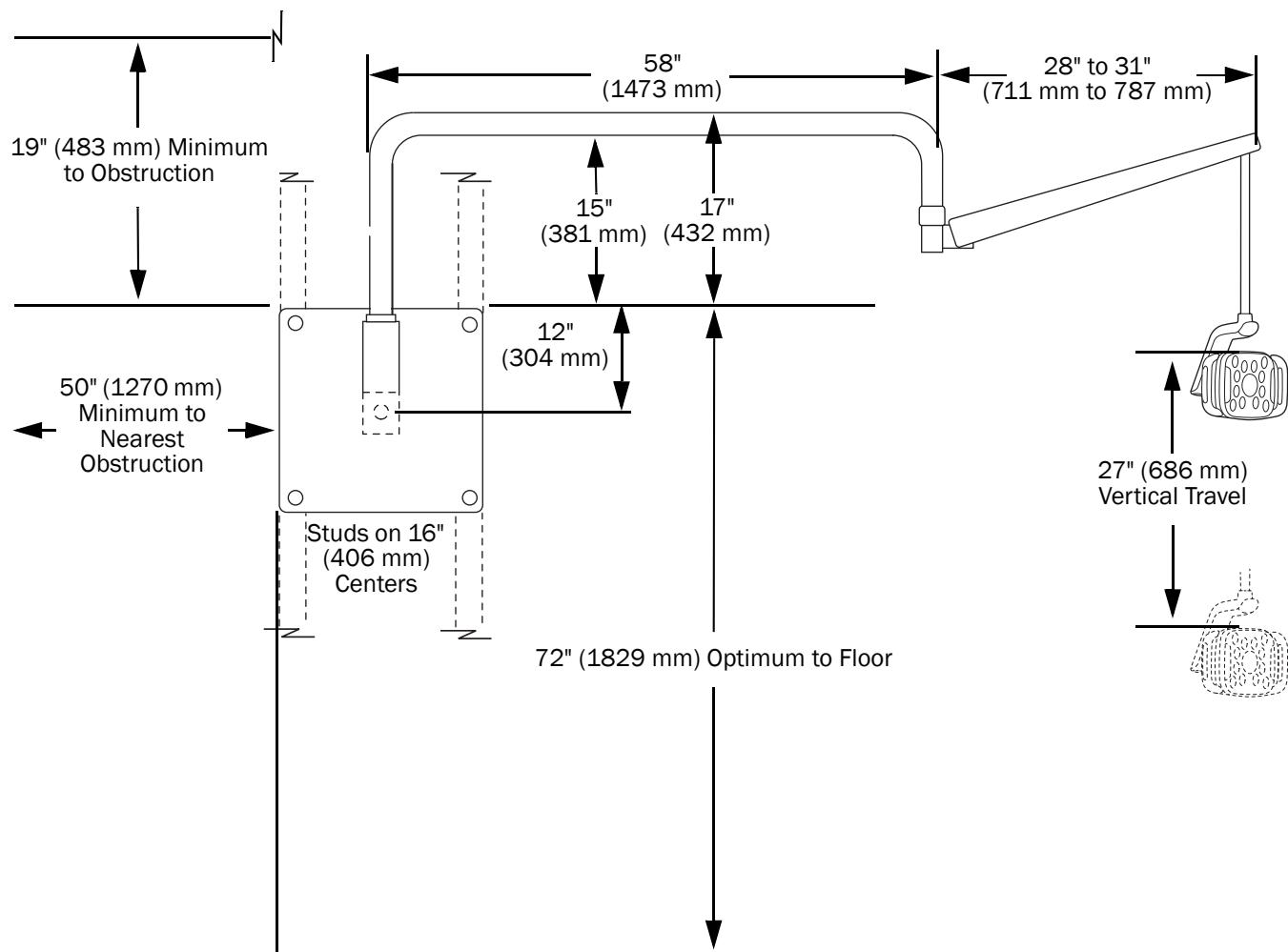
WARNING Do not use hollow wall fasteners that rely on non-structural elements. A-dec is not responsible for any damage resulting from the use of hollow wall fasteners.



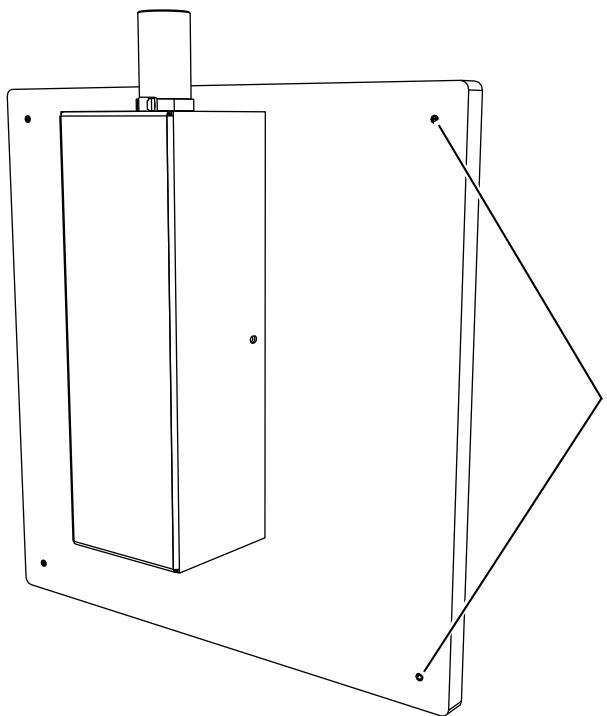
WARNING Consult a licensed professional, i.e. structural or architectural engineer, for mounting to metal stud or masonry walls. Ensure that all installations conform to local codes. Walls must be designed to support a minimum shear load of 38 lb (169 N) and a minimum moment of 150 ft-lb (203 N·M).

Task 1.

- 1 Determine where to mount the backboard.

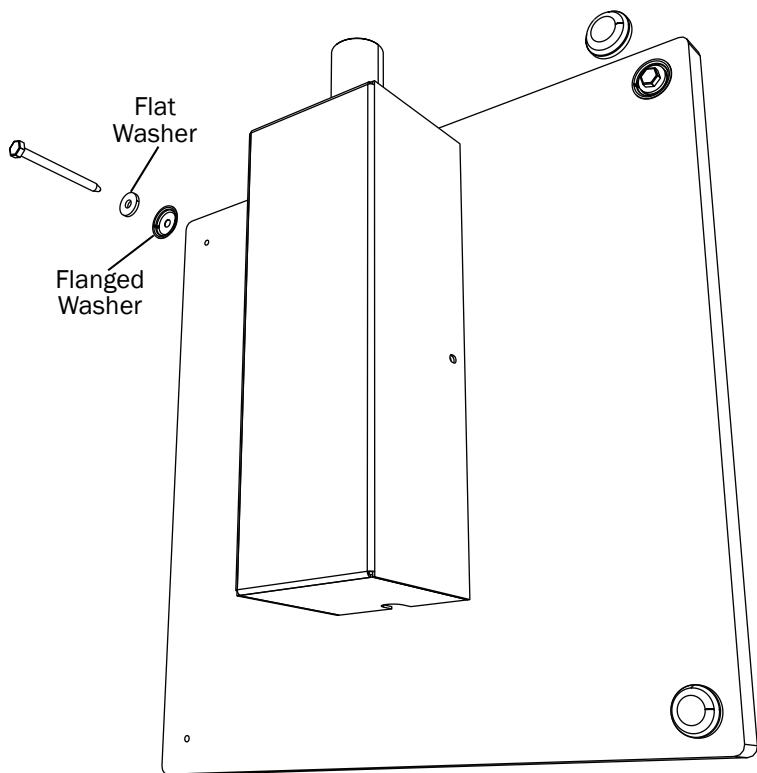


Task 2.



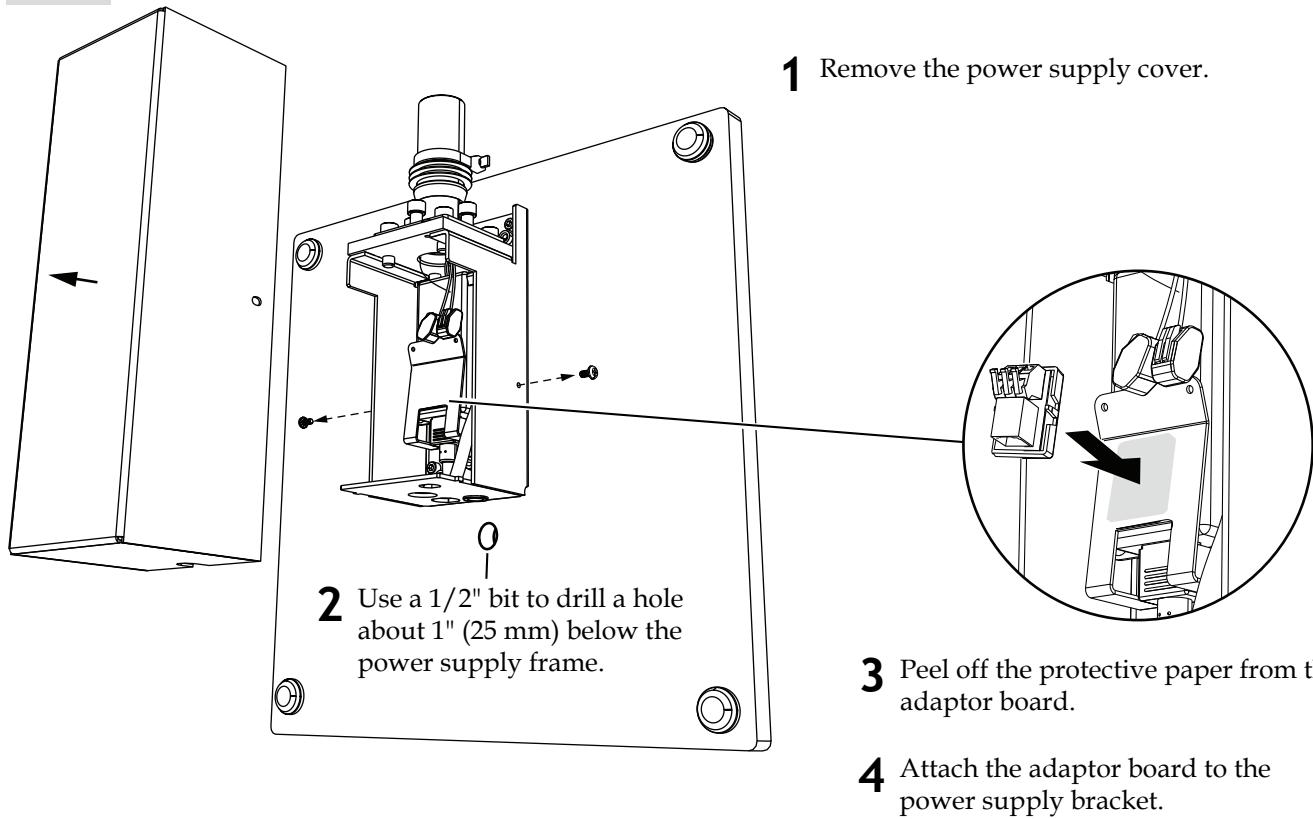
- 1** Level the backboard and mark the mounting holes in each corner.
- 2** Set the backboard aside.
Use a 3/16" bit to drill a hole at each mark.

Task 3.

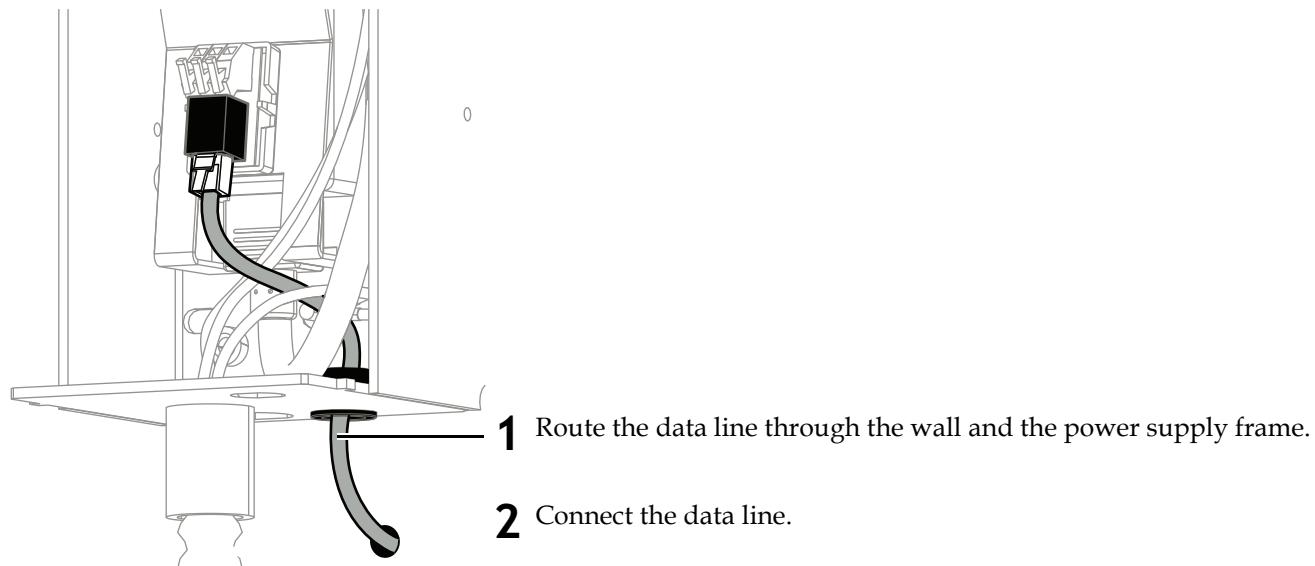


- 1** In each corner, use a 9/16" socket and ratchet to secure the backboard with a lag screw, flat washer and flanged washer.
- 2** Press a cap over each lag screw.

Task 4.



Task 5.



Next Step See "Level the Hub" on page 12.

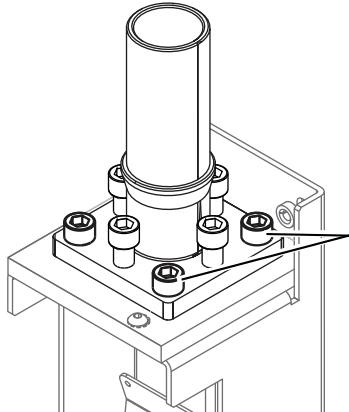
Level the Hub

Use these leveling instructions if installing the light on an 592 Central Console, a Preference Collection cabinet, or a Wall-Mount. If installing the light on a 593 Full Side Console or 595 Wall-Mounted Cabinet, continue with "Install the Flexarm and Light Head" on page 13.

Recommended Tools

- Torpedo level
- 5/16" hex key

Task 1.

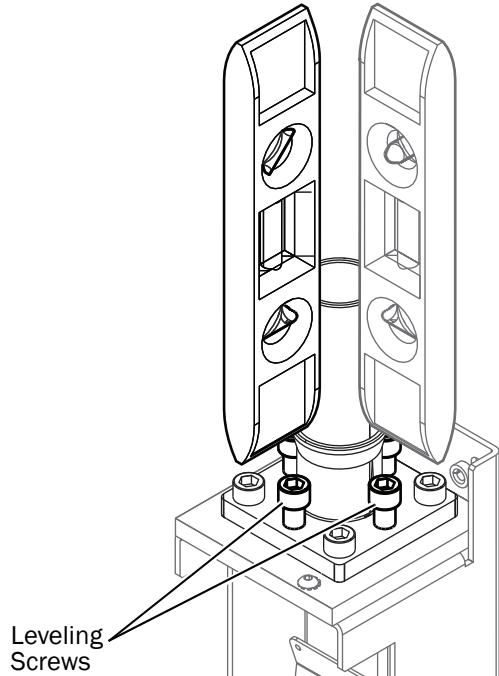


- 1 Loosen the four mounting screws in the corners of the power supply frame.

TIP Use a T-handle hex key to make adjustment easier.



Task 2.



- 1 Place a level vertically on the hub. Align it with a set of leveling screws.
- 2 Adjust the leveling screws.
- 3 Move the alignment of the level from one set of screws to the other.
- 4 Adjust the leveling screws.
- 5 Repeat adjusting each set of leveling screws until the hub is in a true vertical position.
- 6 Once the hub is level, securely tighten the mounting screws.

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

Install the Flexarm and Light Head

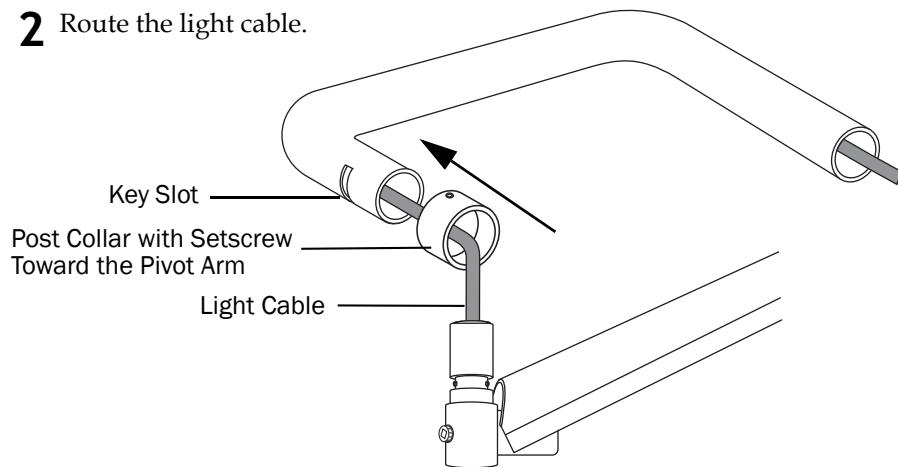
Recommended Tool

- 1/16" hex key

Task 1.

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

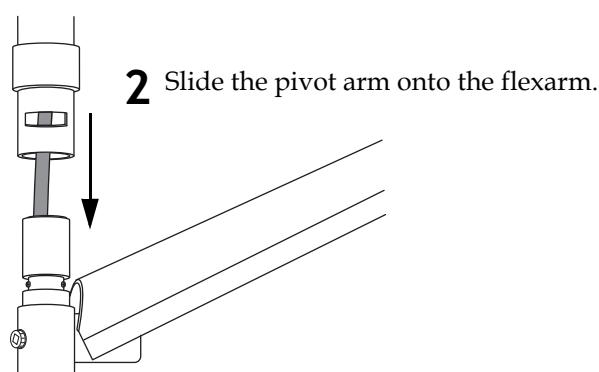
2 Route the light cable.



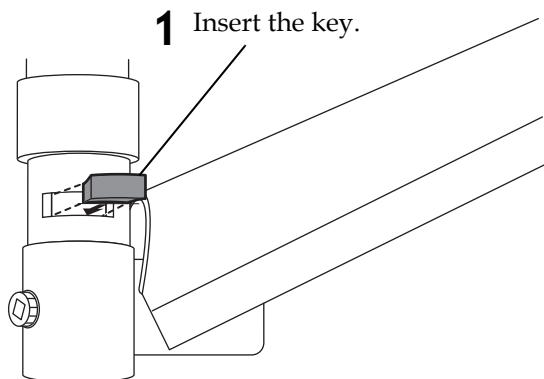
Task 2.

1 Lightly lubricate the flexarm hub.

Do not lubricate the groove where the key will sit.



Task 3.

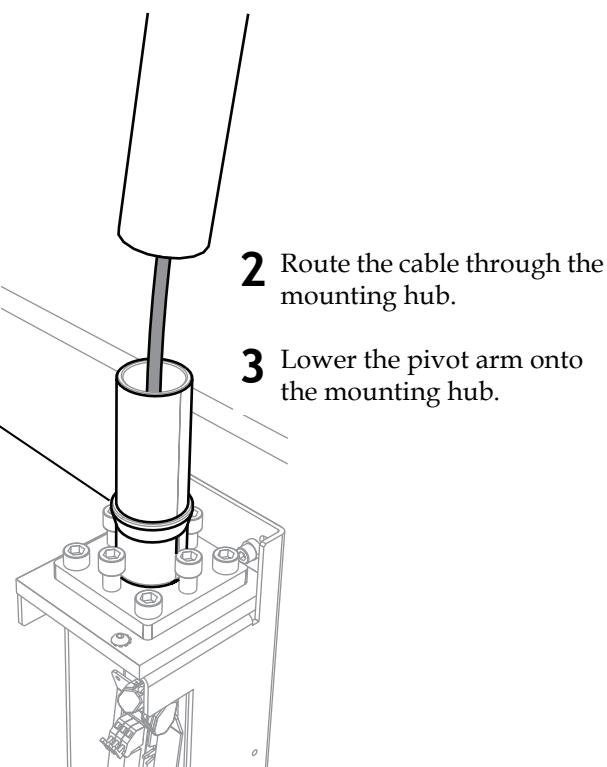


1 Insert the key.

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

3 Firmly tighten the setscrew.

Task 4.



1 Remove the cable tie holding the washers in place.

2 Route the cable through the mounting hub.

3 Lower the pivot arm onto the mounting hub.

Next steps

- For Preference, 592 Central Consoles, and Wall-Mount lights, see “Connect the Light Cable” on page 17.
- For 593 Full Side Systems and 595 Wall-Mounted Cabinets, see “Level the Pivot Arm” on page 15.

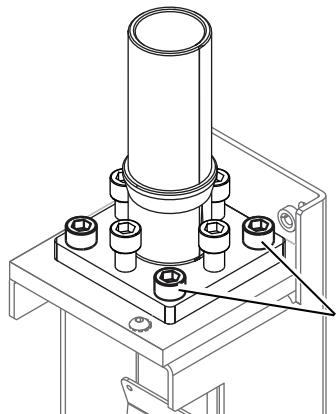
Level the Pivot Arm

Use these instructions when installing the light on a 593 Full Side Console and a 595 Wall-Mounted Cabinet.

Recommended Tools

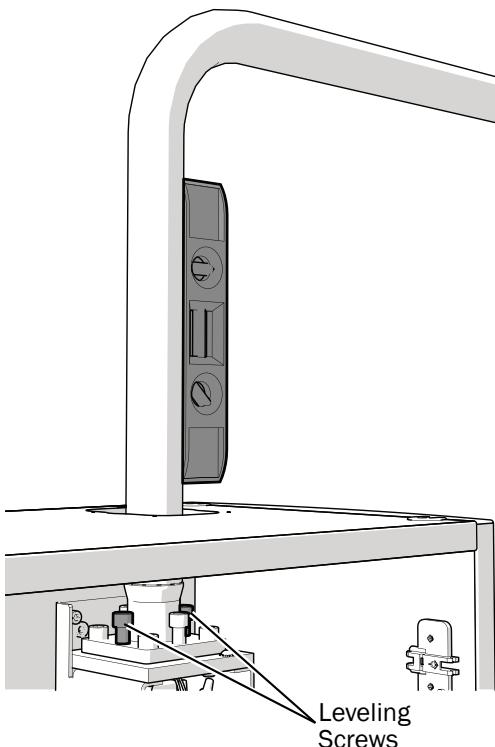
- Torpedo level
- 5/16" hex key

Task 1.



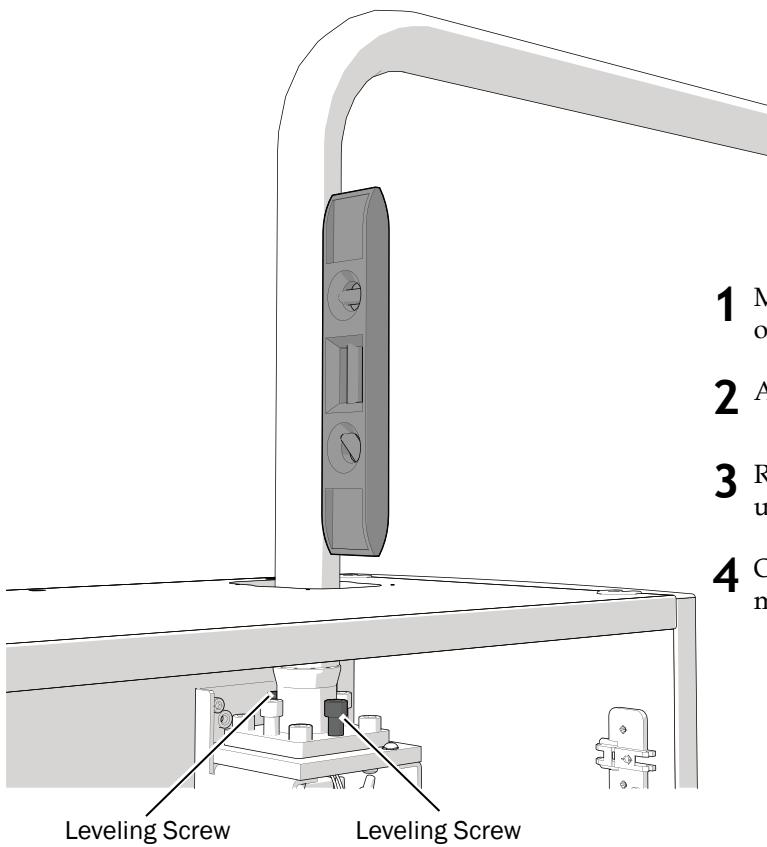
- 1 Loosen the four mounting screws in the corners of the power supply frame.

Task 2.



- 1 Place a level on the vertical section of the pivot arm. Align it with a set of leveling screws.
- 2 Adjust the leveling screws aligned with the level.

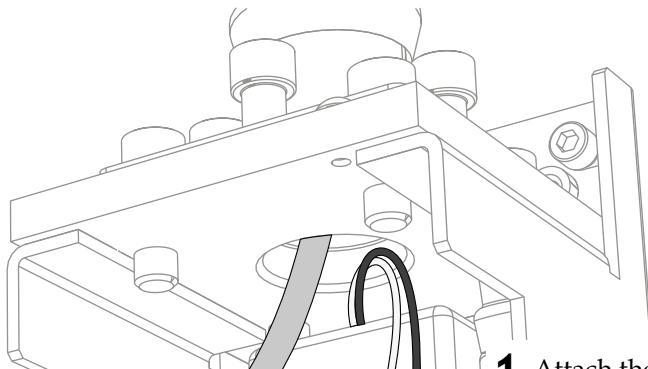
Task 3.



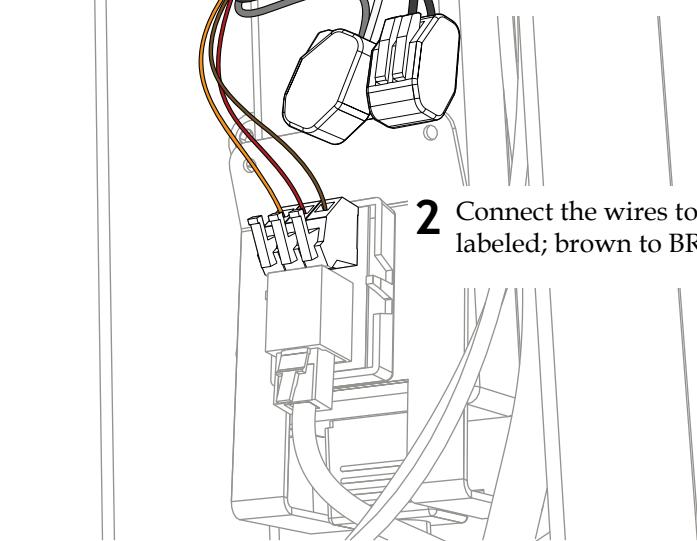
- 1** Move the alignment of the vertical level from one set of leveling screws to the other.
- 2** Adjust the leveling screws.
- 3** Repeat adjusting each set of leveling screws until the arm is in a true vertical position.
- 4** Once the arm is level, securely tighten the mounting screws.

Next Step See “Connect the Light Cable” on page 17.

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 adapter board as labeled; brown to BRN, red to RED, and orange to ORN.

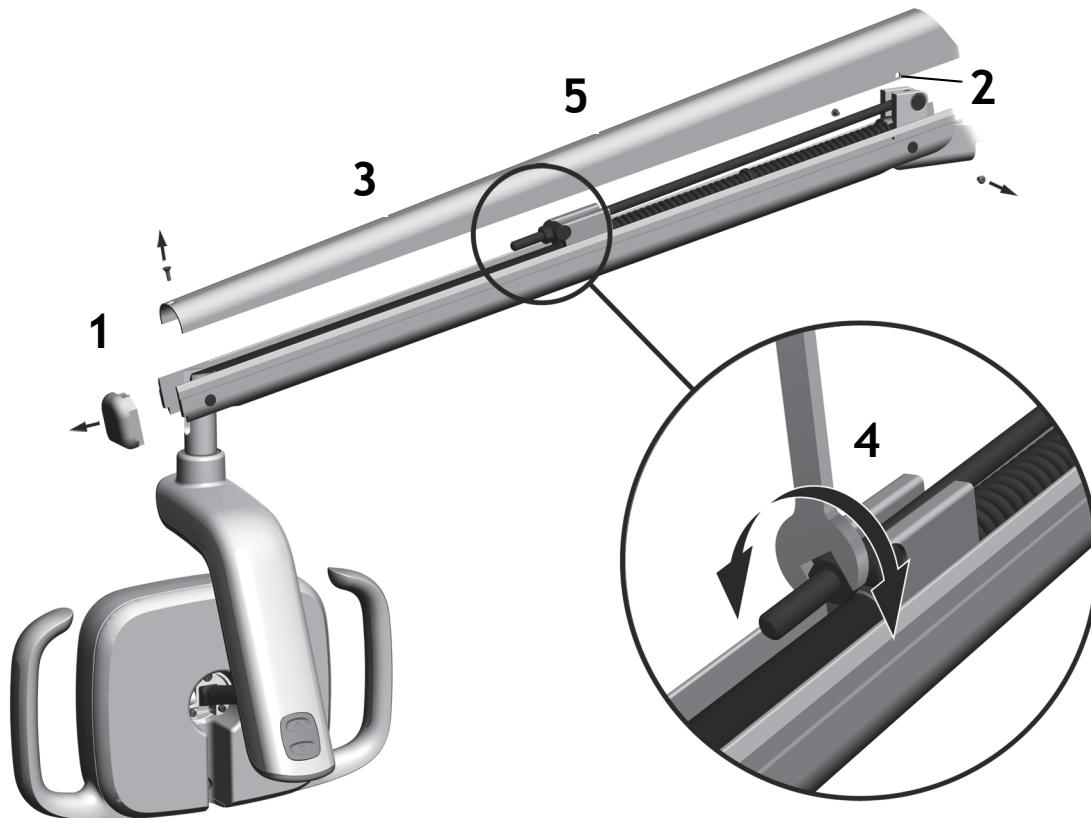
Prepare and Adjust the Light

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.

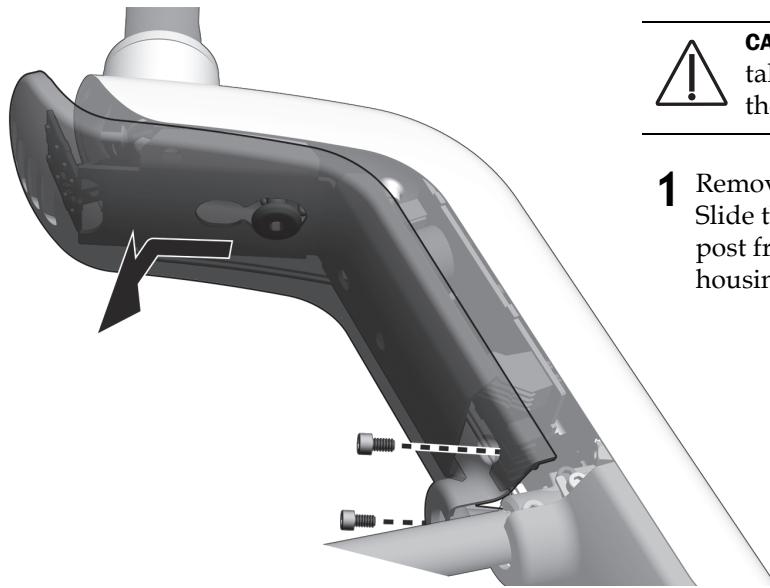
Adjust the Rotation Tension

Recommended Tool

- 7/64" hex key

Adjust the Horizontal and Diagonal Tension

Task 1.

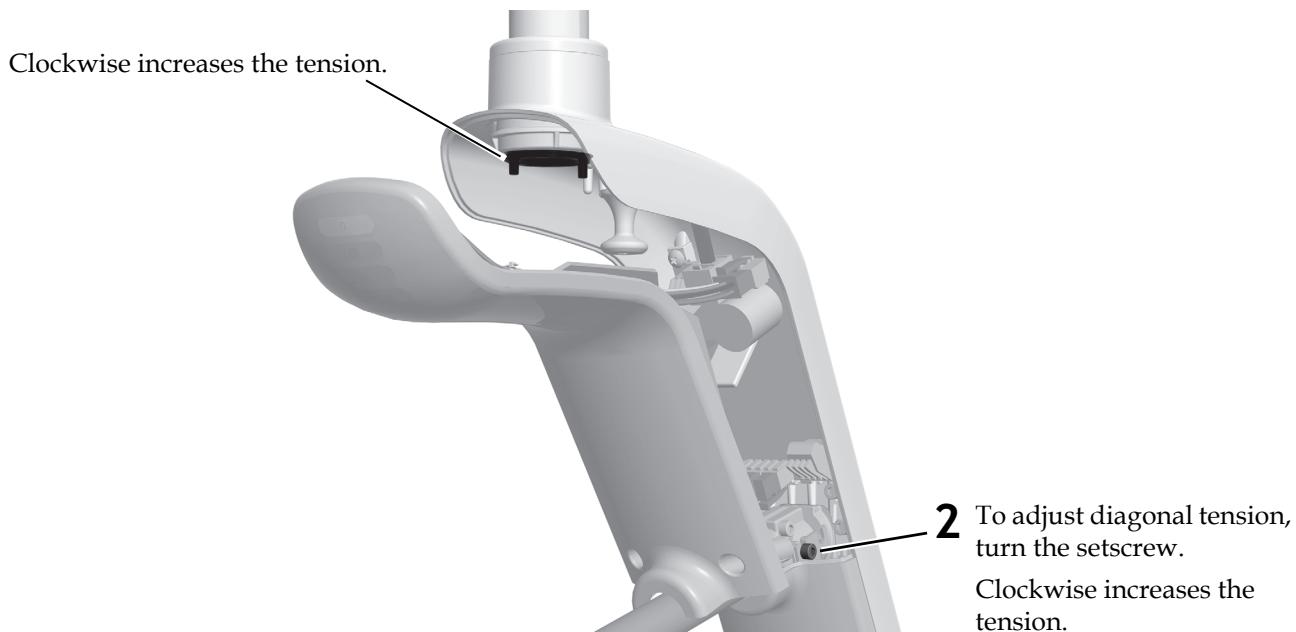


CAUTION When removing or replacing covers, take care not to damage any wiring. Verify that the covers are secure after replacing them.

- 1 Remove the two screws securing the display housing. Slide the cover along the driver housing to free the post from the snap connector and pull the display housing down to remove it.

Task 2.

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



Adjust the Vertical Tension



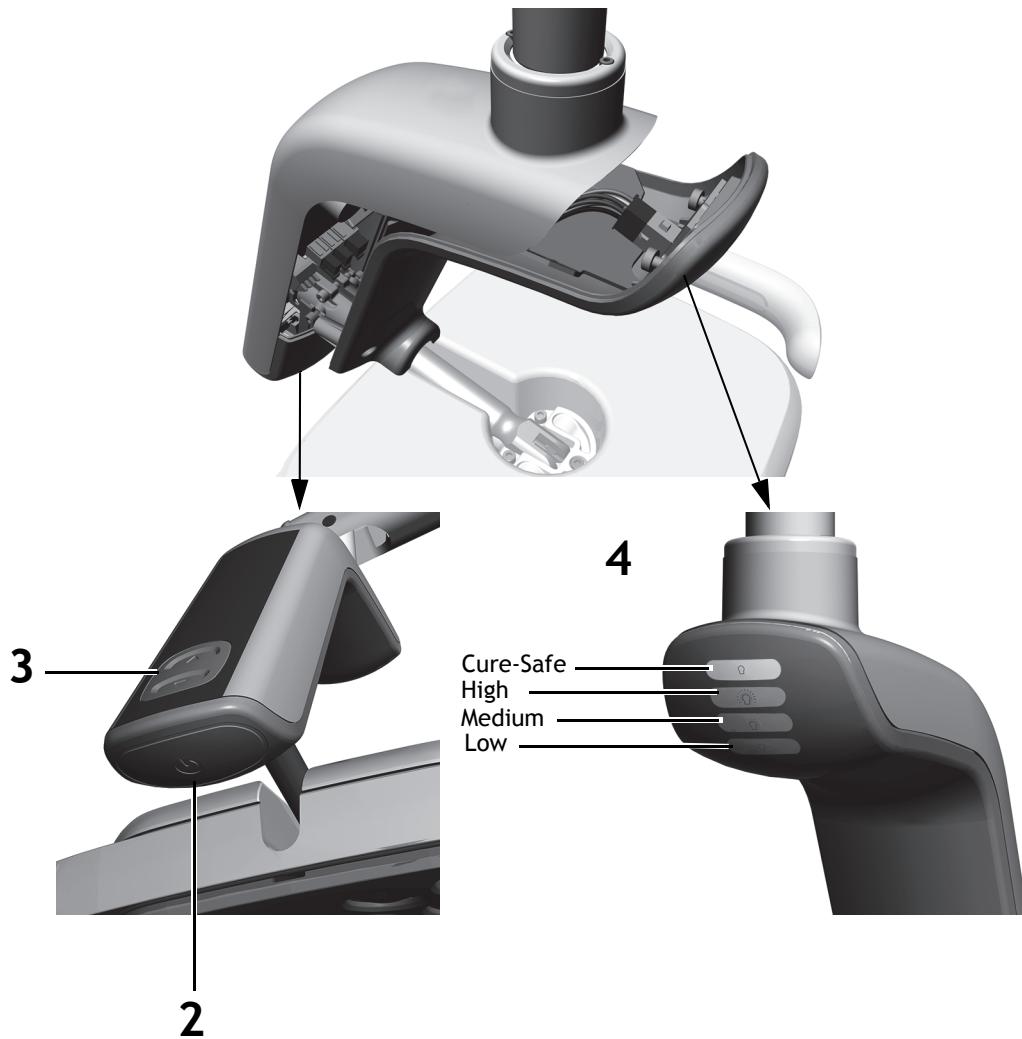
To adjust the tension, turn the screw.

Clockwise increases the tension.

Test the Light

Task 1.

1. Turn on the power to the system.
2. Turn on the light.
3. Press the buttons to test the light in each mode.
4. For each mode, verify that the correct light on the display housing is illuminated.
5. If the light does not work properly, check the wire connections.



Task 2.



- 1** Slide the display housing so the keyhole fits around the post; then use the two screws to secure the housing.



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

Use the Touchpad

Standard Touchpad



A-dec 300 Deluxe Touchpad



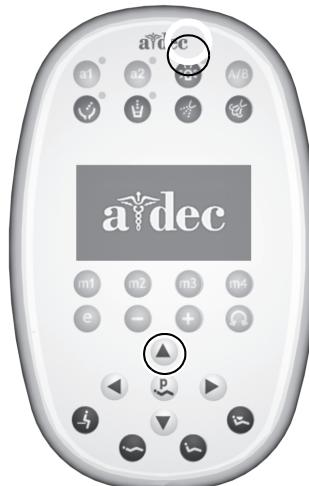
1 Turn on the power to the system.

2 To verify the light turns on and toggles between intensity modes, repeatedly press and release . To turn off the light, press and hold the button.

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 500 Deluxe Touchpad



Install the Covers and Doors



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

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.

Regulatory Information

Regulatory information mandated by agency requirements is provided in the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00), which is available in the Document Library at www.a-dec.com.

Product Models and Versions Covered in this Document

Models	Versions	Description
A-dec 574L/575L	A	Dental Light
A-dec Inspire 592 Central Console	N/A	Dental Cabinet
A-dec Inspire 593 Full Side System	N/A	Dental Cabinet
A-dec Inspire 595 Wall-Mounted Cabinet	N/A	Dental Cabinet
A-dec Preference Collection	N/A	Dental Cabinet

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