



A-dec 574L and 575L

Dental Light on a Cabinet or Wall

INSTALLATION GUIDE



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

Before You Begin

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 appropriate section for the system's configuration.

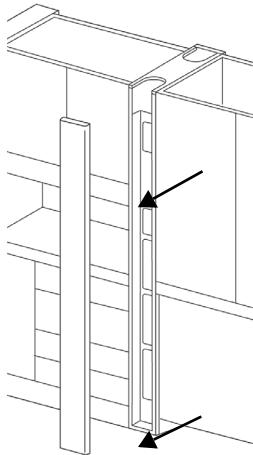
Preference Collection Cabinet	this page
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Preference Collection Cabinet

Recommended Tools

1/8" and 3/16" hex keys

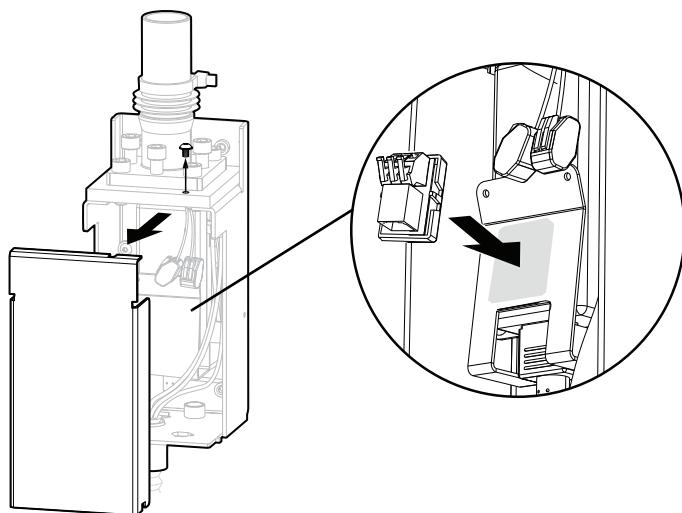
Task 1.



- 1 Pull the end cap out from the x-ray column.

Task 2.

- 1 Remove the power supply cover.

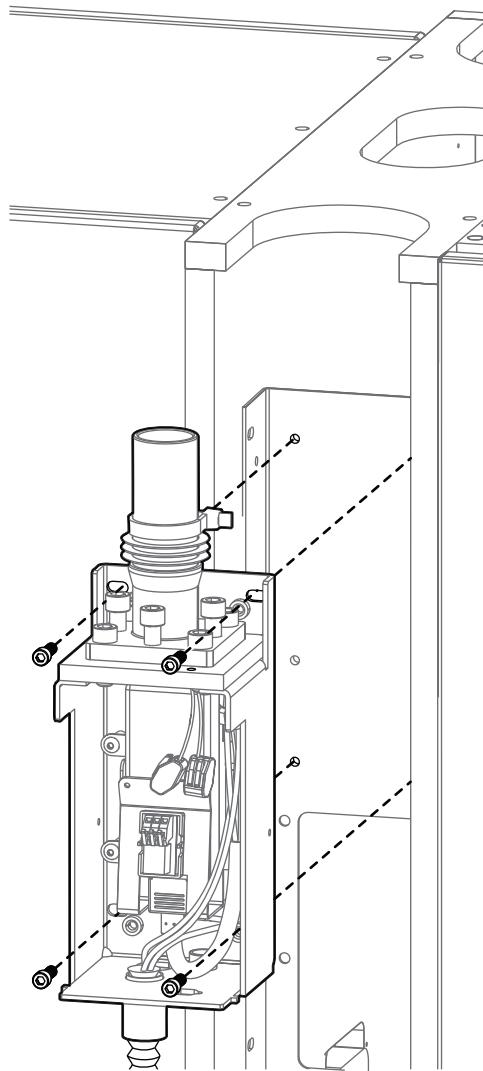


- 2 Peel off the protective paper from the adaptor board.

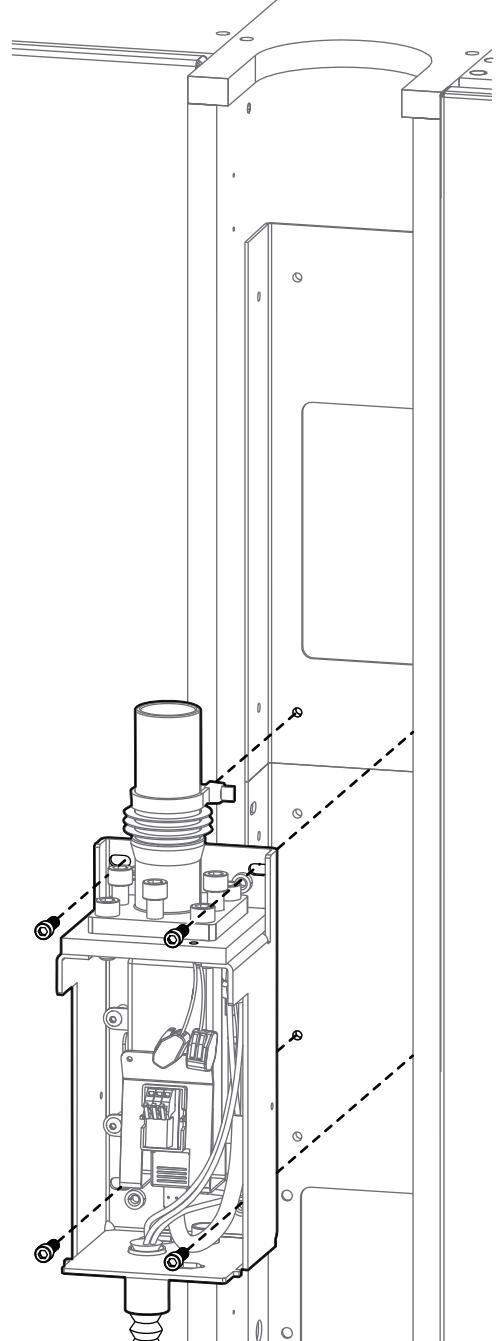
- 3 Attach the adaptor board to the power supply bracket.

Task 3.

Standard Central Console



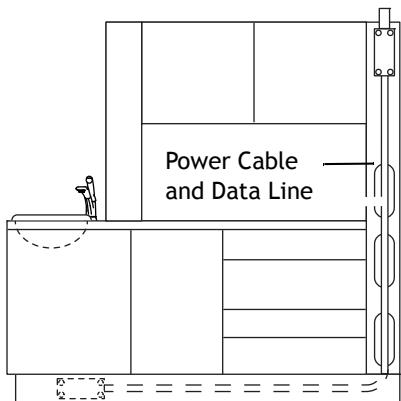
Tall Central Console



- 1 Use four screws to mount the power supply.

Task 4.

- 1** Route the power cable and data line to the junction box located under the sink module. Connect the data line.



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

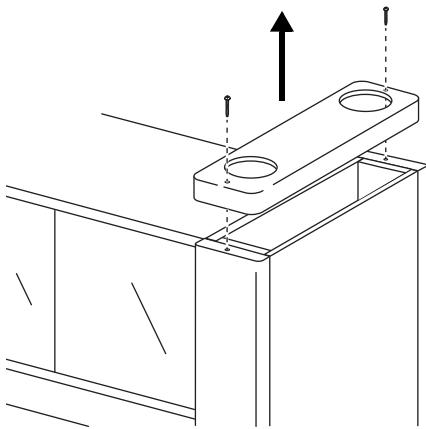
- 2** Go to "Level the Hub" on page 10.

Preference II Cabinet

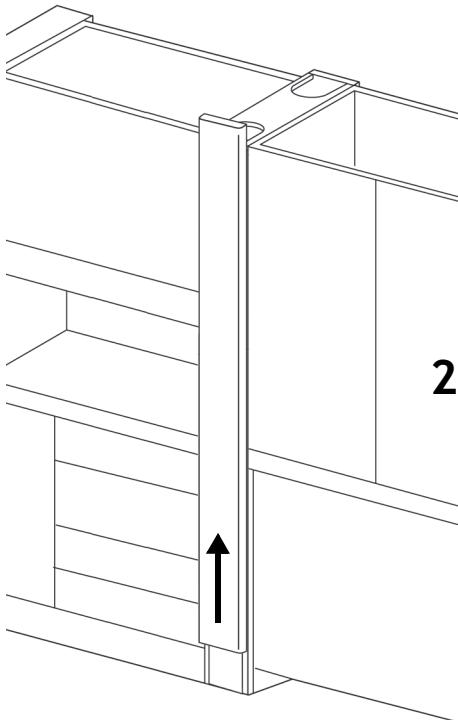
Recommended Tools

- Phillips head screwdriver
- 1/8" and 5/32" hex keys

Task 1.



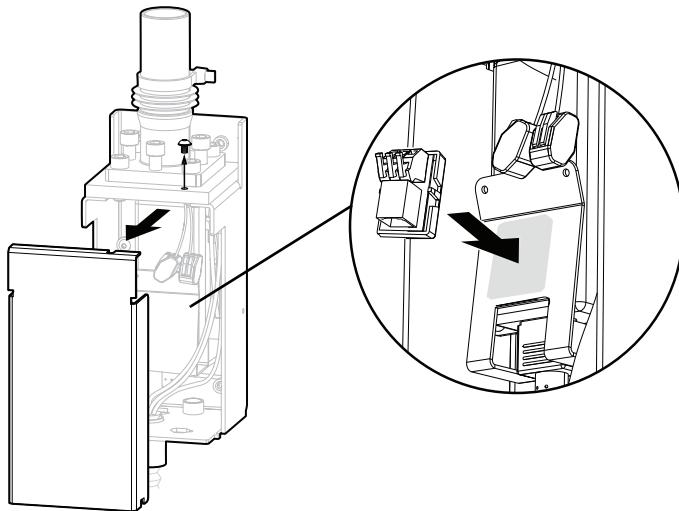
1 Remove the two screws and lift the top cap off.



2 To remove the end cap, push up from the bottom.

Task 2.

- 1 Remove the power supply cover.



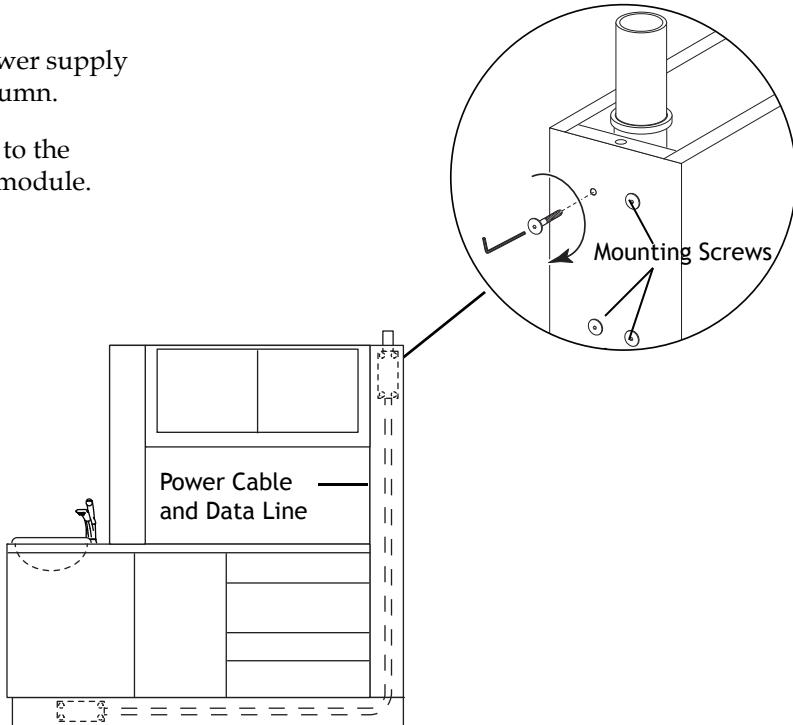
- 2 Peel off the protective paper from the adaptor board.

- 3 Attach the adaptor board to the power supply bracket.

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

Task 3.

- 1 Apply Loctite® to the four mounting screws.
- 2 Use the four screws to mount the power supply on the inside surface of the x-ray column.
- 3 Route the power cable and data line to the junction box located under the sink module. Connect the data line.
- 4 Go to "Level the Hub" on page 10.



Wall-Mount

Recommended Tools

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



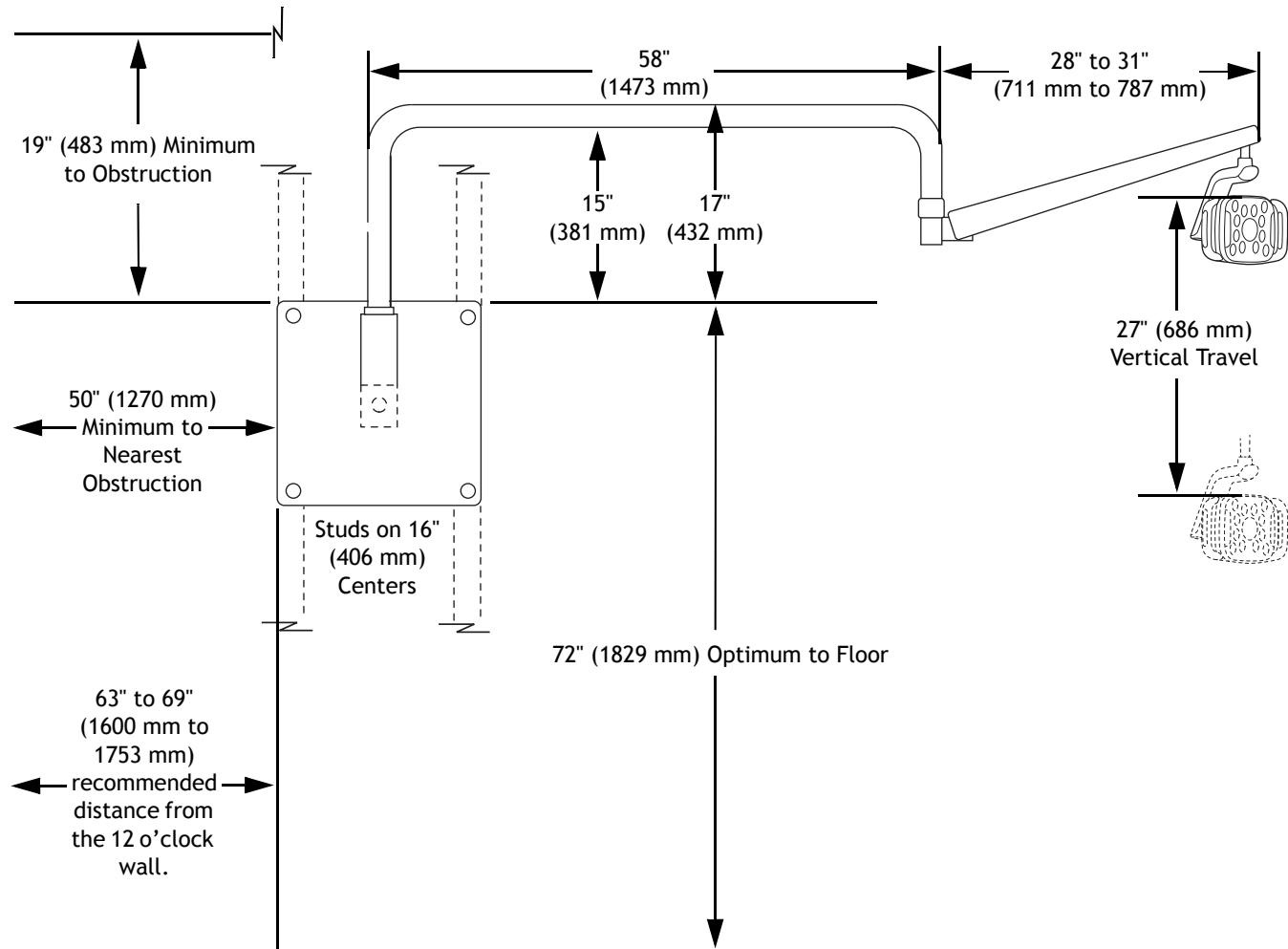
WARNING Do not use hollow wall fasteners that rely on non-structural elements. A-dec is not responsible for any damage resulting from the use of hollow wall fasteners.



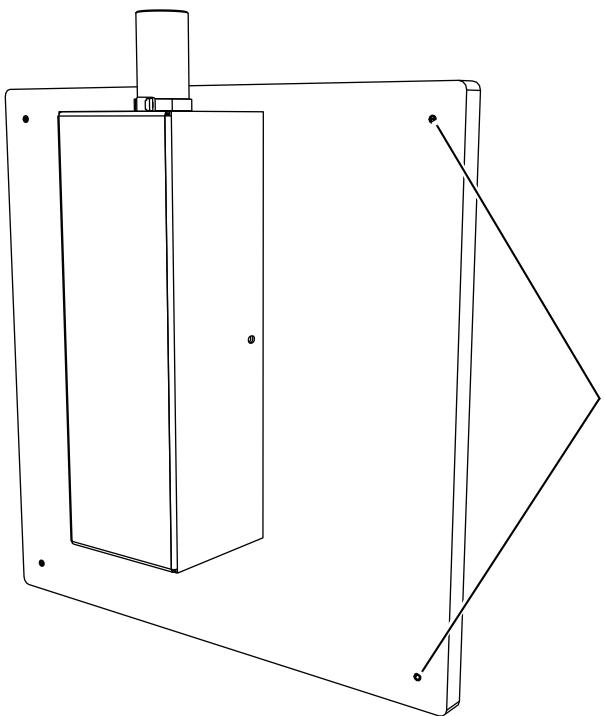
WARNING Consult a licensed professional, i.e. structural or architectural engineer, for mounting to metal stud or masonry walls. Ensure that all installations conform to local codes. Walls must be designed to support a minimum shear load of 38 lb (169 N) and a minimum moment of 150 ft-lb (203 N·M).

Task 1.

- 1 Determine where to mount the backboard.



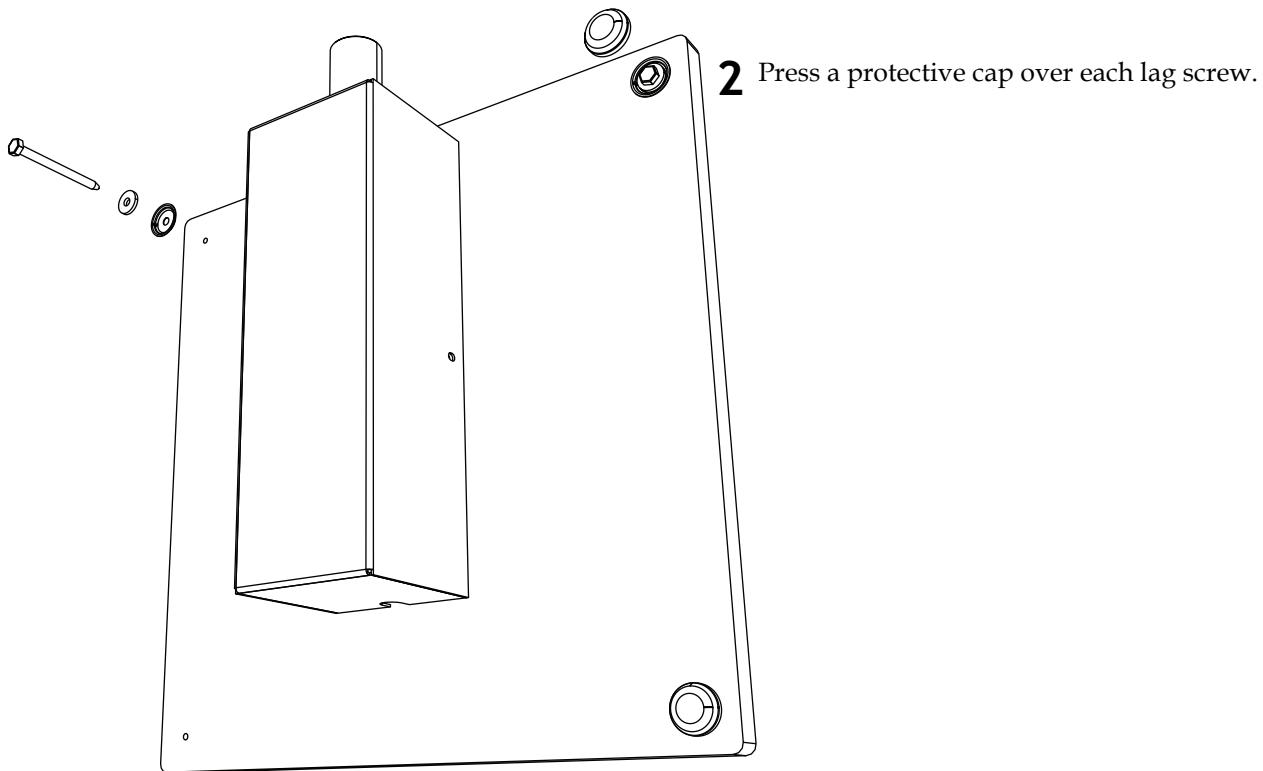
Task 2.



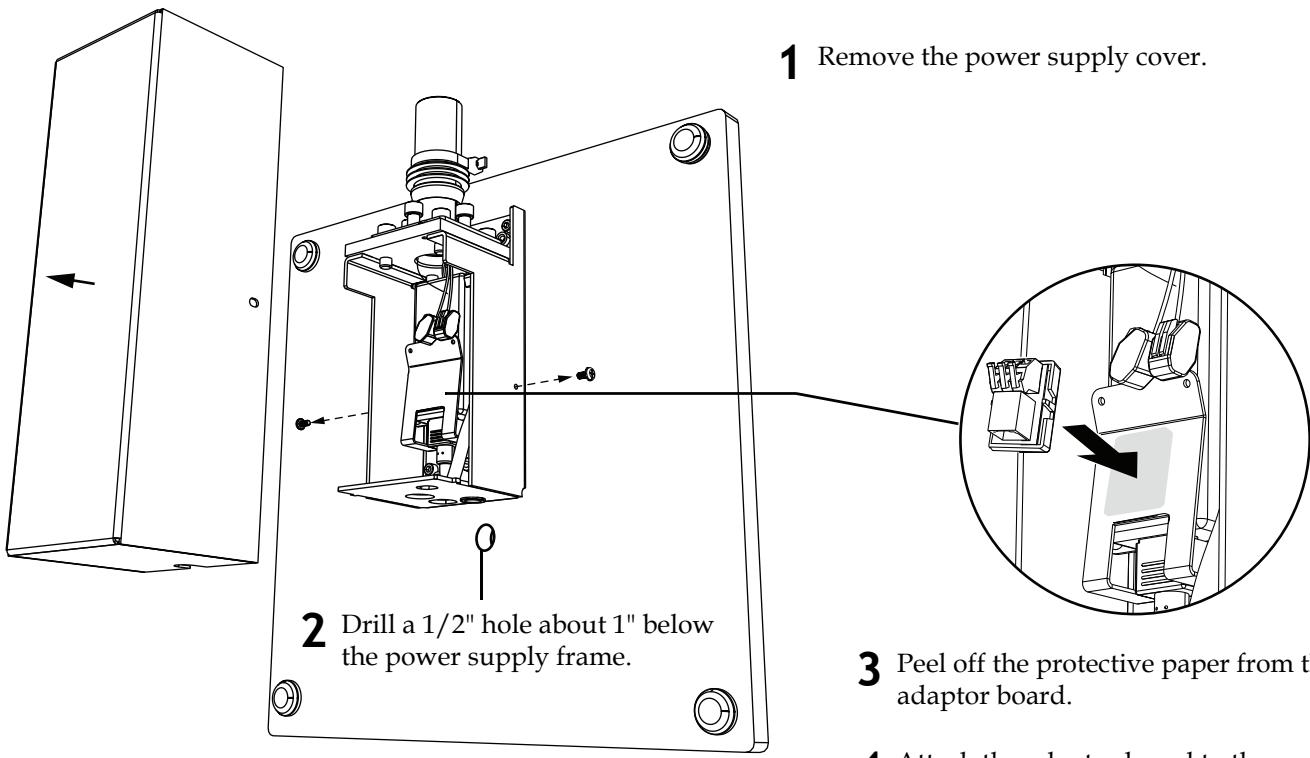
- 1** Level the backboard and mark the mounting holes in each corner.
- 2** Set the backboard aside.
Drill a $3/16"$ (5 mm) wide hole at each mark.

Task 3.

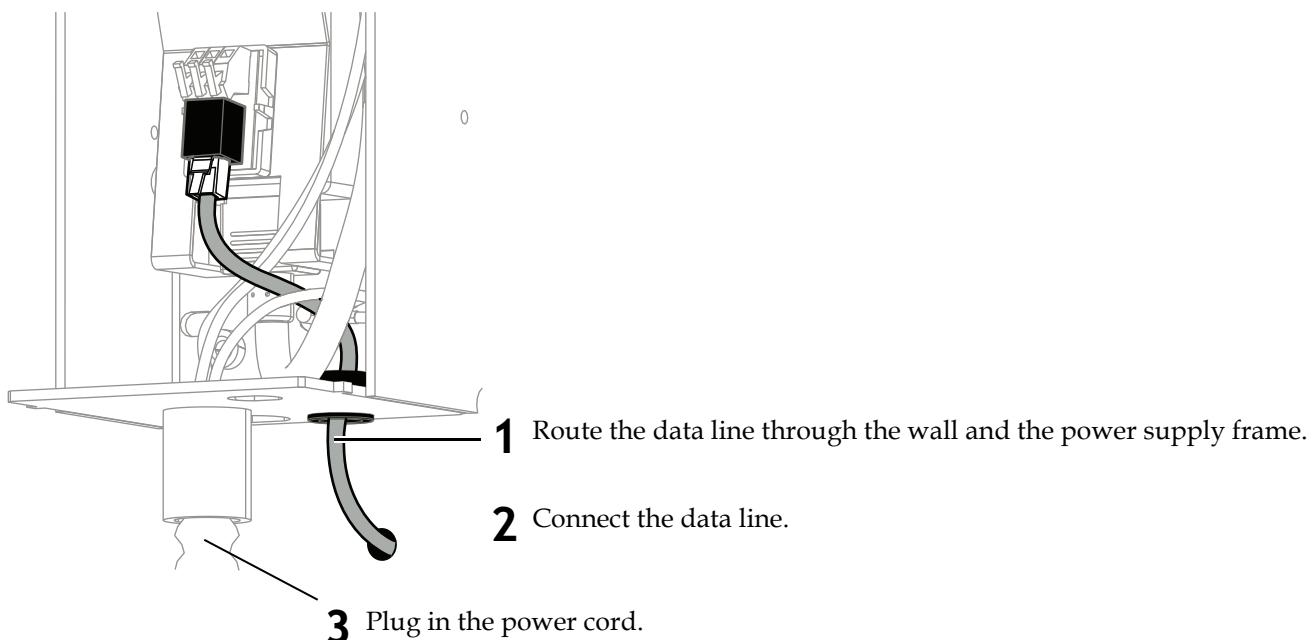
- 1** Use four lag screws, flat washers, and flanged washers in each corner to mount the backboard.



Task 4.



Task 5.

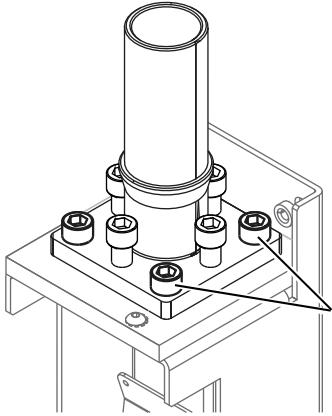


Level the Hub

Recommended Tools

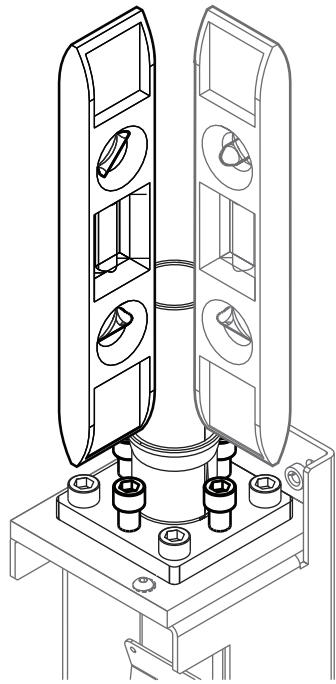
- Level
- 5/16" hex key

Task 1.



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

Task 2.



- 1 Place a level 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.

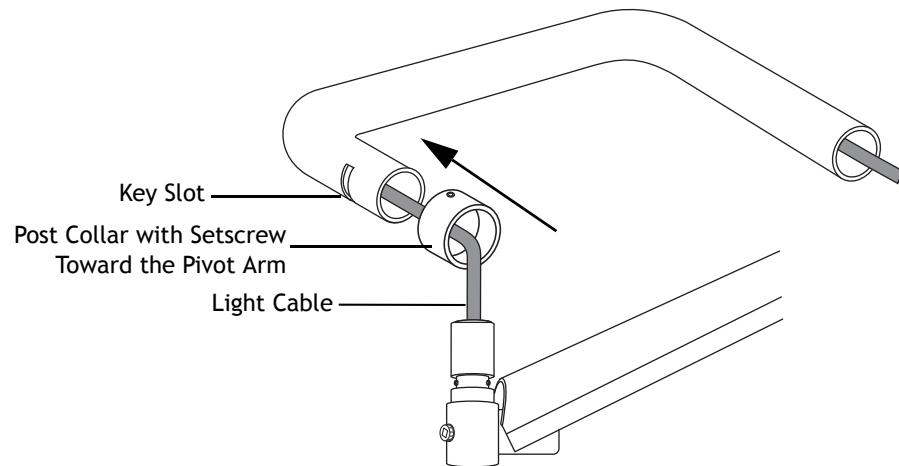
Install the Flexarm and Light Head

Recommended Tool

1/16" hex key

Task 1.

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

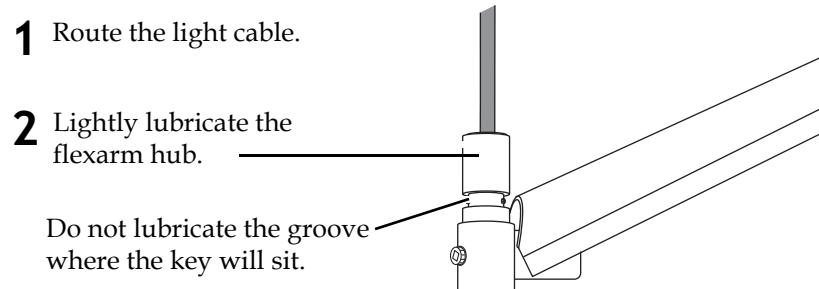


Task 2.

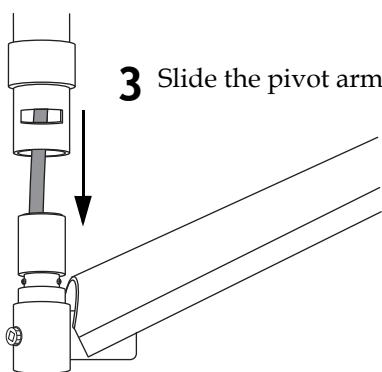
- 1 Route the light cable.

- 2 Lightly lubricate the flexarm hub.

Do not lubricate the groove where the key will sit.

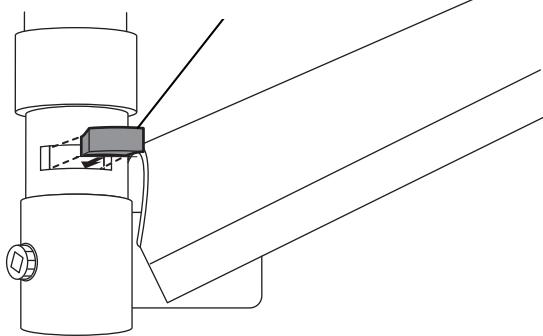


- 3 Slide the pivot arm onto the flexarm.



Task 3.

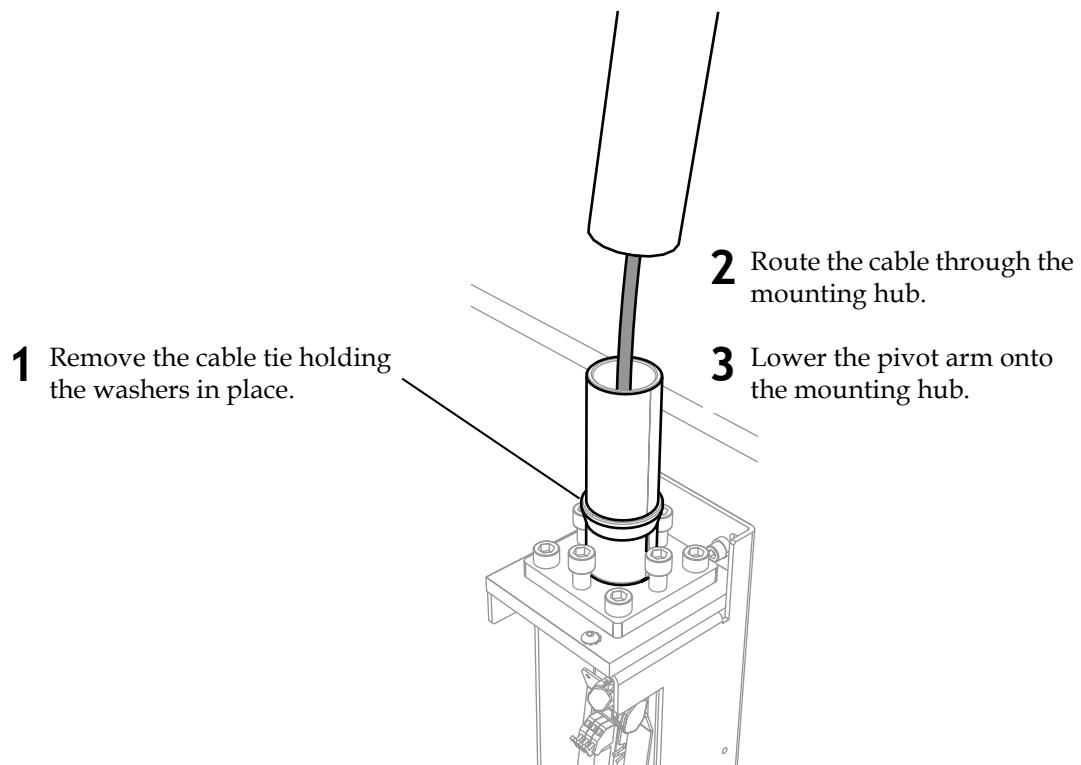
- 1** Insert the key.



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

- 3** Firmly tighten the setscrew.

Task 4.

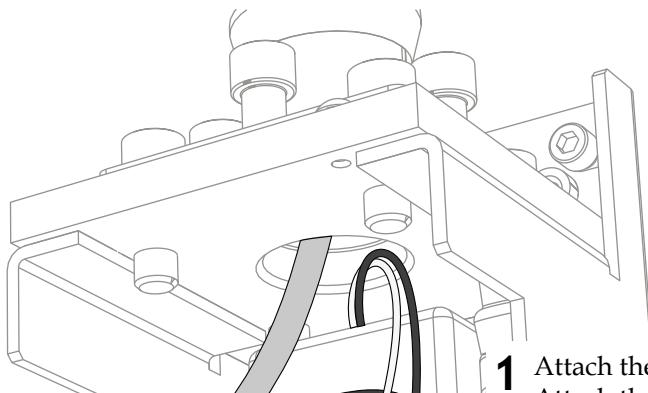


- 1** Remove the cable tie holding the washers in place.

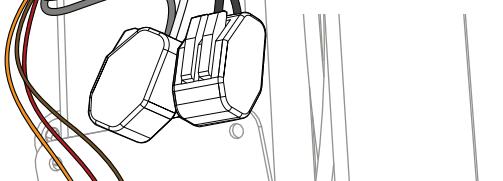
- 2** Route the cable through the mounting hub.

- 3** Lower the pivot arm onto the mounting hub.

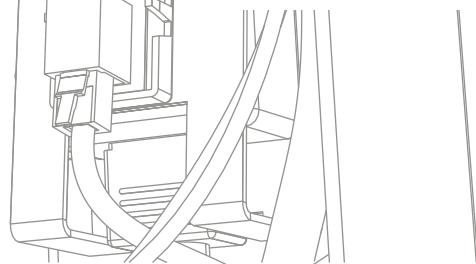
Connect the Light Cable



- 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.



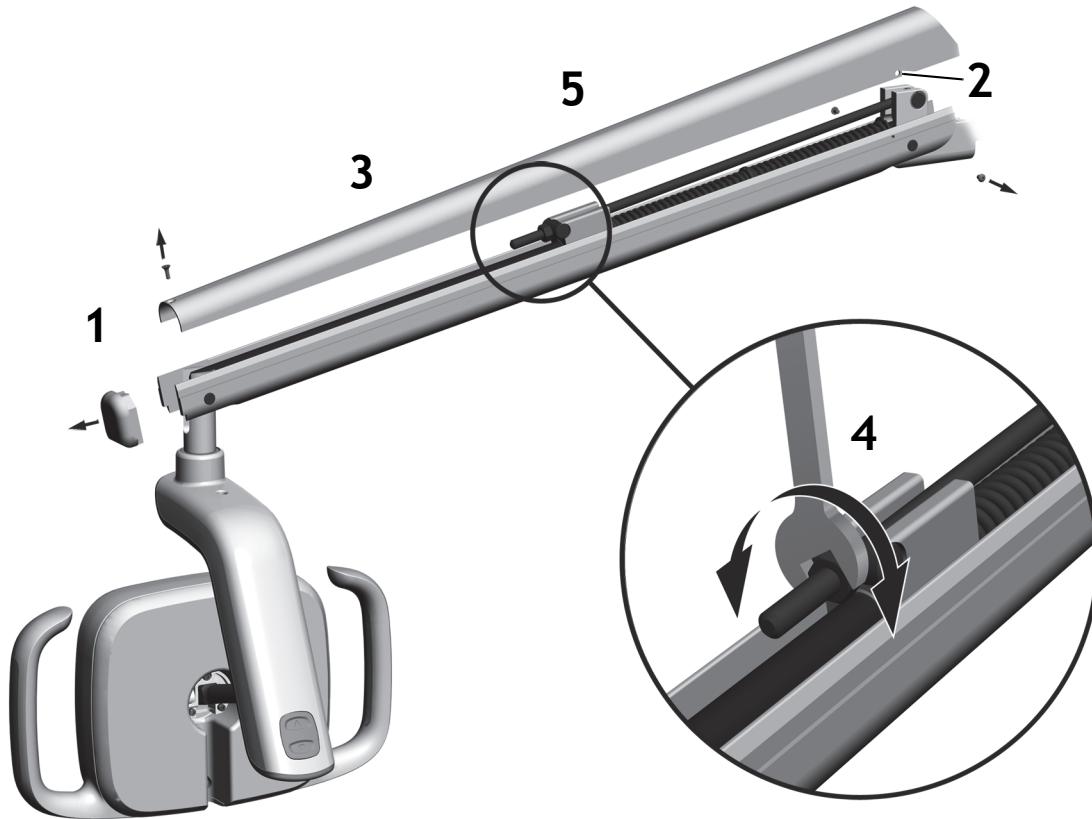
Prepare and Adjust the Light

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.



- 1 Remove the indicator cover.



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

Task 2.

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

Clockwise increases the tension.



- 2 To adjust diagonal tension, turn the setscrew.

Clockwise increases the tension.

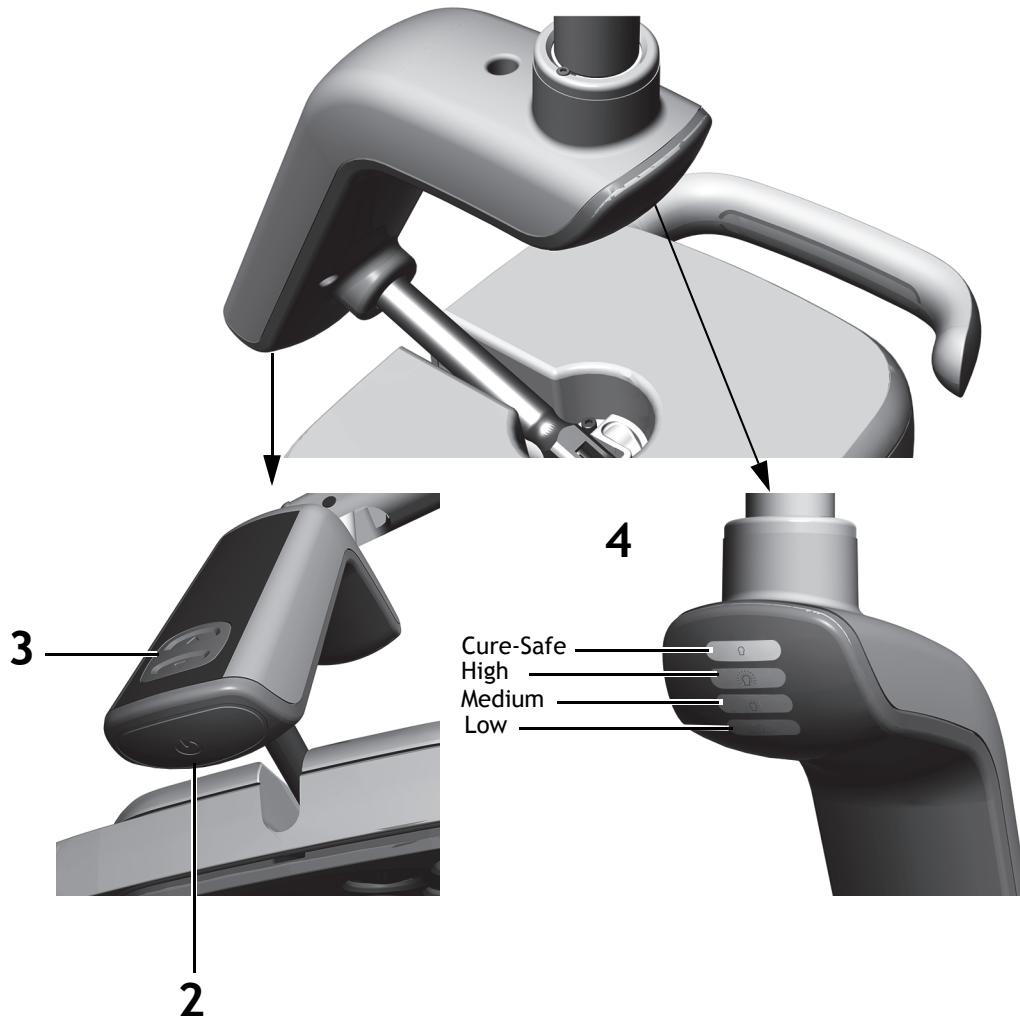
Adjust the Vertical Tension



Test the Light

Use the Buttons

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 indicator cover is illuminated.
5. If the light does not work properly, check the wire connections.



Use the Touchpad

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 the lightbulb button.

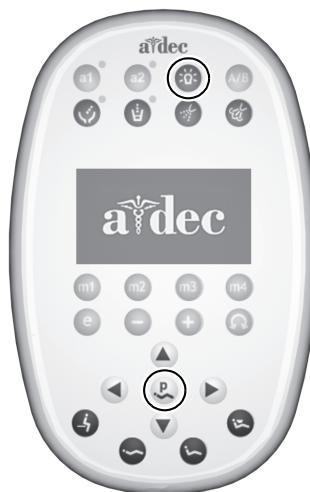
NOTE When the light is in the composite (or cure-safe) mode, the light indicator on the touchpad flashes.

- 3 To disable the auto on/off feature, press and hold the lightbulb button and the 'p' button (or the 'p' button and the lightbulb button 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



Regulatory Information

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.

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