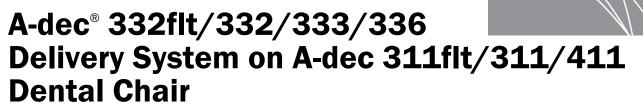
a dec



INSTALLATION GUIDE

Contents

Before You Begin 2
Install the Rigid Arms 3
Install the Delivery System 9
Connect the Wires and
Data Line 26
Connect the Tubing 29
Connect the Floor Box
Utilities 35
Prepare and Adjust
the System 37
Customize Touchpad and
Handpiece Settings 49
Test the System 52
Install the Covers 53
Regulatory Information
and Warranty 56
-



A-dec 411 Dental Chair

Product Models and Versions Covered in This Document*

Models	Versions	Description
332flt	n/a	Delivery System
332/333/336	A	Delivery System
311flt	n/a	Dental Chair
311	В	Dental Chair
411	А	Dental Chair

*Some product models, versions, and options in this document may not be available in certain regions.

Before You Begin



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.



NOTE Information that is critical to a successful installation is shaded like this note throughout the guide.



WARNING Shock hazard. When you remove or replace the covers, take care not to damage any wiring or tubing. Verify that the covers are secure after you replace them.

- Verify that manual air and water shut-offs are installed.
- Purge any debris from air and water lines.
- Check with local building and code authorities about installation requirements specific to your location.

Recommended Tools

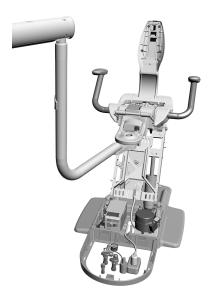
- Hex key set
- 15/16" socket and ratchet (2)
- 5/16" and 3/8" combination wrench
- Diagonal CuttersVoltmeter

Phillips head screwdriver

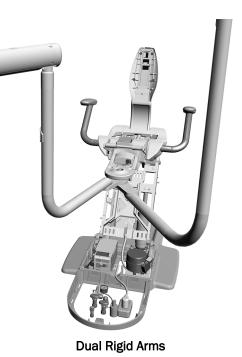
- Sleeve pusher
- Level
- Handpiece pressure gauge

Install the Rigid Arms

The instructions for installing the rigid arms apply to both the A-dec 311 and 411 dental chairs.



Delivery System Rigid Arm Only



86.0922.00 Rev C

A-dec 332flt/332/333/336 Delivery System on A-dec 311flt/311/411 Dental Chair Installation Guide

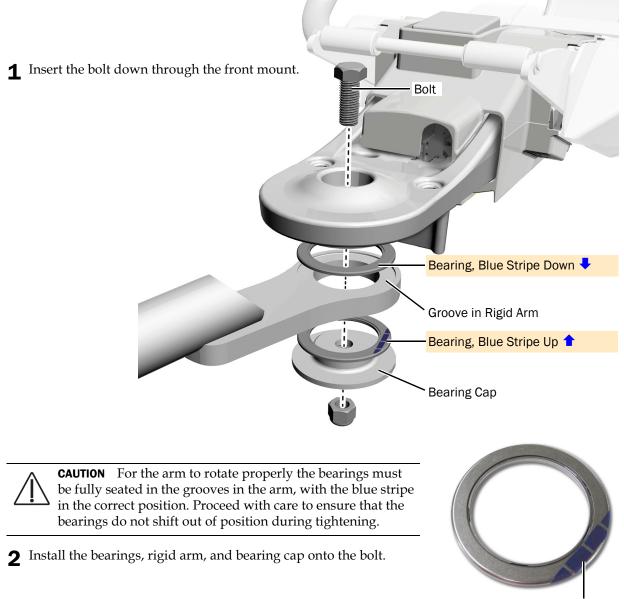
Install the Delivery System Rigid Arm Only

Use these instructions if the system includes only a delivery system attached to the front mount.

Recommended Tools

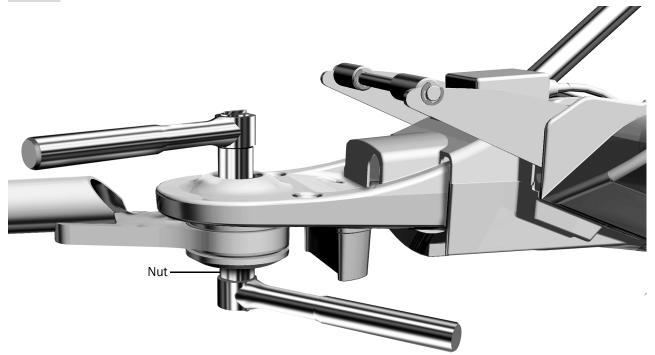
• 15/16" socket and ratchet (2)

Task 1.



Blue Stripe on Bearing

Task 2.



1 Tighten the nut until the arm can move smoothly but is not loose and does not drift.

Next Step Continue with "Install the Delivery System" on page 9.

A-dec 332flt/332/333/336 Delivery System on A-dec 311flt/311/411 Dental Chair Installation Guide

Install Dual Rigid Arms

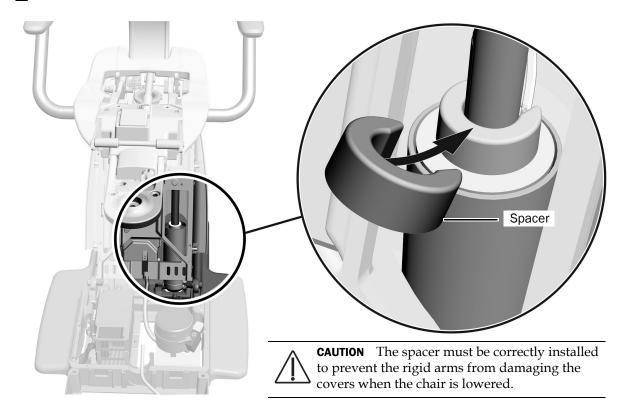
Use these instructions if the system includes a delivery system and a dental light or monitor mount attached to the front mount.

Recommended Tool

• 15/16" socket and ratchet

Task 1.

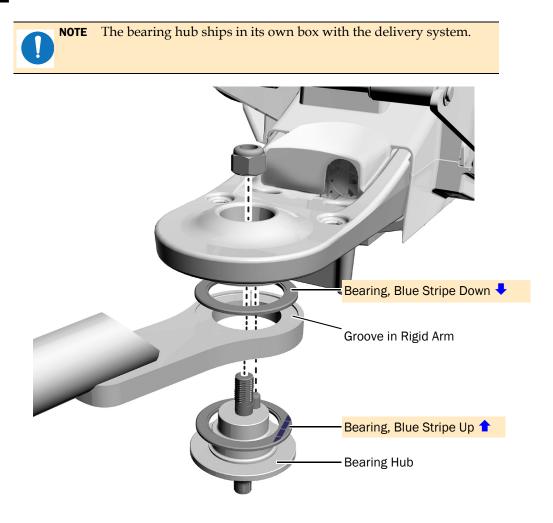
1 Fully raise the chair base.



2 Place the spacer (which ships with the light and the monitor mount) with its solid side up and its opening toward the low-pressure tubing.

Task 2.

1 Securely install the delivery system rigid arm, bearings, and bearing hub onto the front mount.



CAUTION For the arm to rotate properly the bearings must be fully seated in the grooves in the arm, with the blue stripe in the correct position. Proceed with care to ensure that the bearings do not shift out of position during tightening.

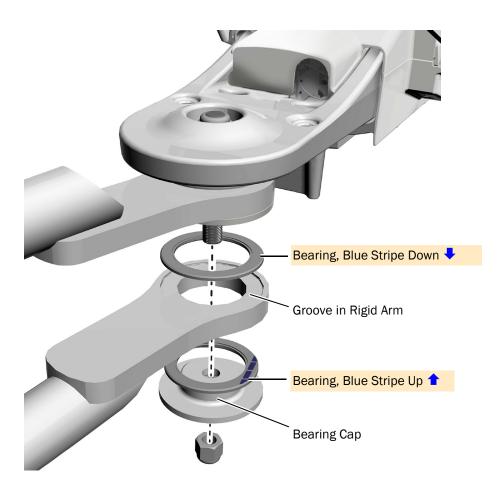
2 Tighten the nut until the arm can move smoothly but is not loose and does not drift.



Blue Stripe on Bearing

Task 3.

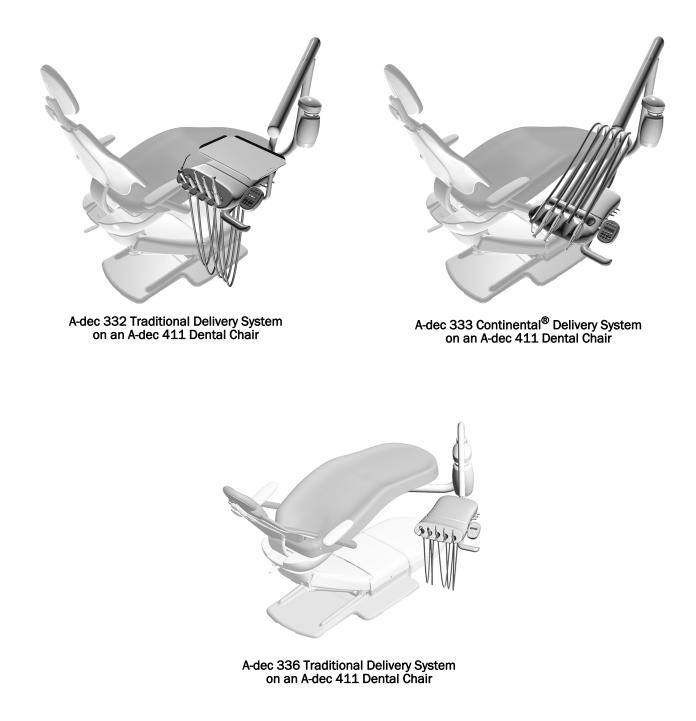
1 Install the dental light/monitor mount rigid arm, bearings, and bearing cap onto the bearing hub.



2 Tighten the nut until the arm can move smoothly but is not loose and does not drift.

Install the Delivery System

The instructions for installing an A-dec 332flt/332/333/336 apply to each of the A-dec 311flt/311/411 dental chairs.



Install the Water Bottle Mount on the Delivery System Rigid Arm (A-dec 332flt/332/333 only)

STOP

STOP

READ THIS! If you are installing an A-dec 336 delivery system, the water bottle mount is installed at the factory. Continue with "Install the A-dec 336 Delivery System" on page 14.

READ THIS! If you are installing a remote water bottle or a support center with a water bottle, do not complete this procedure. Instead, remove the plate from the delivery system rigid arm, and insert the plug from the kit into the hole.

Recommended Tool

• 5/16" combination wrench

Task 1.



1 Use a 5/16" combination wrench to remove the mount screw, washer, and plate from the rigid arm.

Task 2.



Route the water bottle tubing through the plate, 1 into the hole in the rigid arm, and out the bottom of the arm.



TIP Leave the water bottle mount in the bubble wrap to protect the post.





1 Reinstall the plate. Leave the screw protruding enough for the water bottle mount to slide over it.

Task 4.



1 Slide the water bottle mount down over the screw and secure it to the arm.

Install the A-dec 332flt/332/333 Delivery System

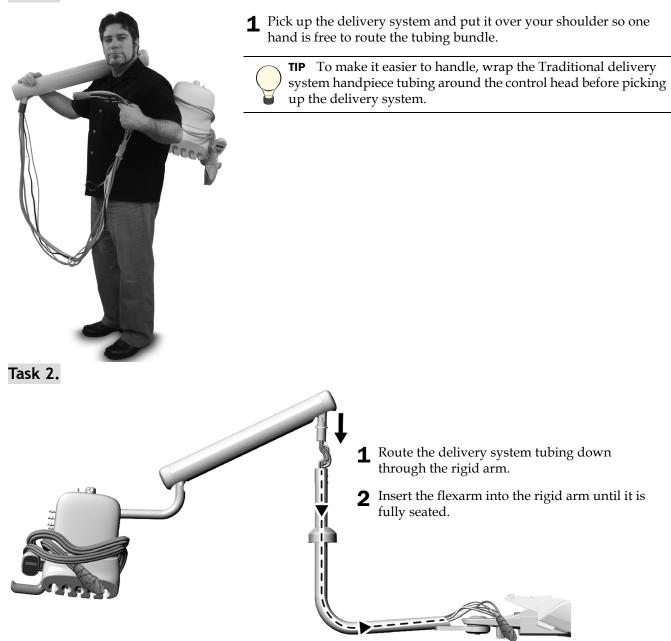
STOP

READ THIS! If you are installing an A-dec 336 delivery system, do not use this procedure. See "Install the A-dec 336 Delivery System" on page 14.

Recommended Tool

• 5/32" hex key

Task 1.



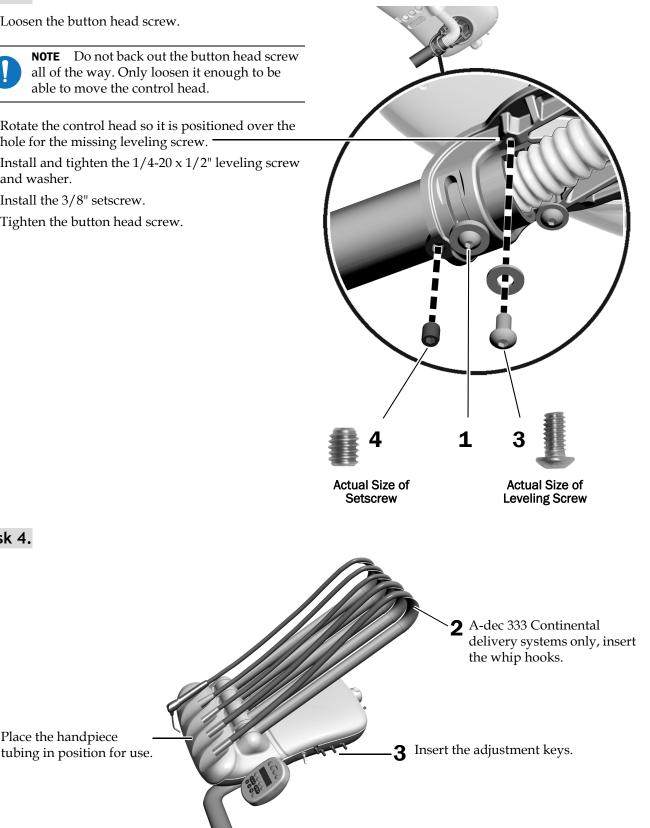
Task 3.

1. Loosen the button head screw.



NOTE Do not back out the button head screw all of the way. Only loosen it enough to be able to move the control head.

- **2.** Rotate the control head so it is positioned over the hole for the missing leveling screw.
- 3. Install and tighten the 1/4-20 x 1/2" leveling screw and washer.
- **4.** Install the 3/8" setscrew.
- **5.** Tighten the button head screw.



1 Place the handpiece

Task 4.

Install the A-dec 336 Delivery System

Recommended Tool

• 3/32" hex key

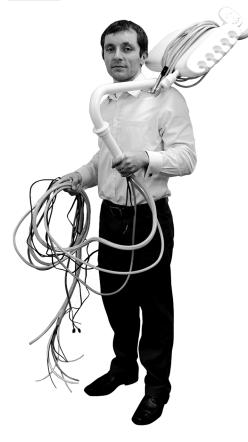


NOTE To avoid problems, read all of this procedure before attempting to install the delivery system.

Task 1.

- **1** If there is room, place the box containing the delivery system next to the chair. If you can't place the box next to the chair, proceed with Task 2.
- **2** Route as much of the tubing into the rigid arm as you can.

Task 2.

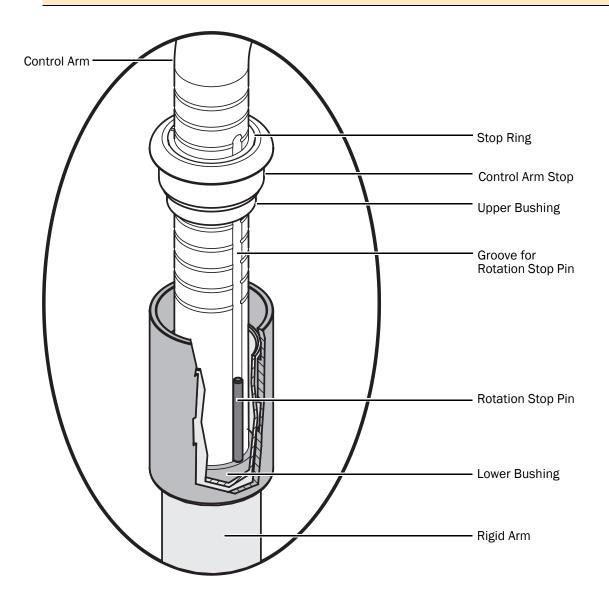


- **1** Pick up the delivery system and put it over your shoulder so one hand is free to route the tubing bundle.
 - **TIP** To make it easier to handle, wrap the delivery system handpiece tubing around the control head before picking up the delivery system.

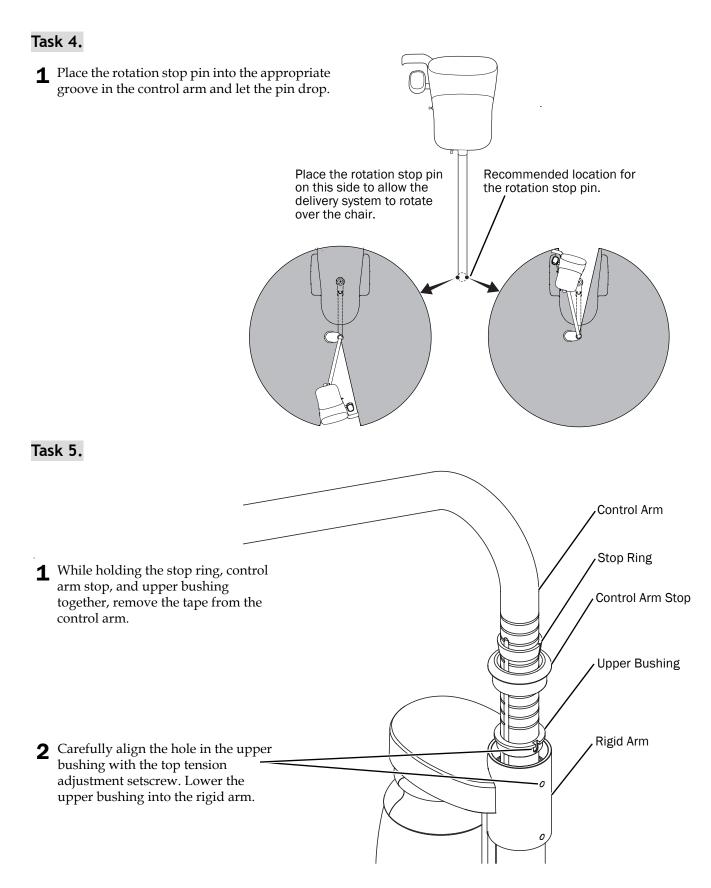
Task 3.

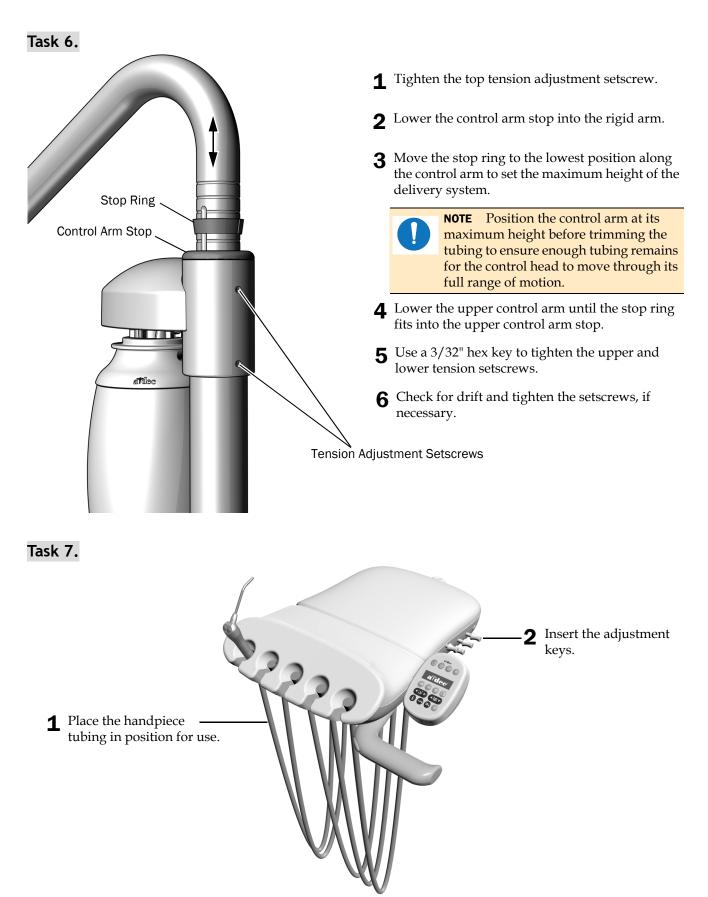
- **1** Remove the rotation stop pin (that is taped to the control arm) from the control arm.
- **2** Route the delivery system tubing through the rigid arm.
- **3** Carefully lower the control arm into the rigid arm until the end of the control arm is past the top of the lower bushing.

NOTE If the end of the control arm is not inserted past the lower bushing, the rotation stop pin can fall into the rigid arm. The rotation stop pin prevents the delivery system from rotating continuously and twisting the delivery system tubing.



A-dec 332flt/332/333/336 Delivery System on A-dec 311flt/311/411 Dental Chair Installation Guide





Route the Tubing and Wiring

Complete the instructions for the system's configuration. Route the Tubing and Wiring on an A-dec 311flt/311 Dental Chair18 Route the Tubing and Wiring on an A-dec 411 Dental Chair21

Route the Tubing and Wiring on an A-dec 311flt/311 Dental Chair

Recommended Tools

- 3/16" hex key
- Diagonal cutters

Task 1.

1 Make sure the chair back and base are fully raised.





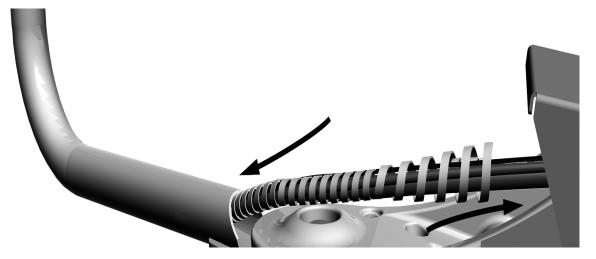
WARNING Failure to turn off or disconnect the power before you begin this procedure can lead to product damage and result in serious injury or death.

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.

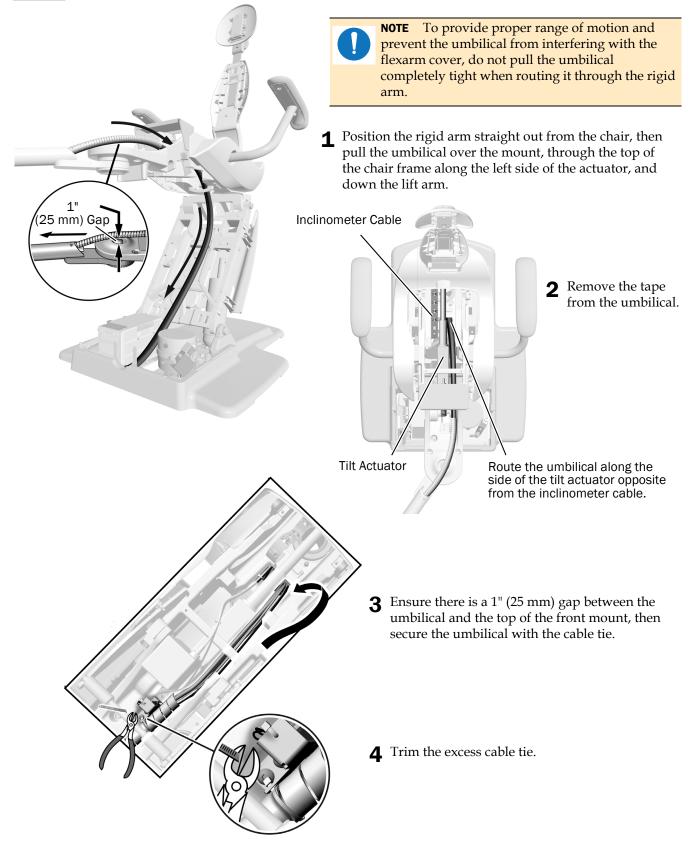
2 Turn off the power to the chair.

Task 2.

- **1** Install the wrap around the tubing for the water bottle and delivery system.
- **2** Slide the wrap slightly into the rigid arm.



Task 3.



Route the Tubing and Wiring on an A-dec 411 Dental Chair

Recommended Tools

- 3/16" hex key
- Diagonal cutters

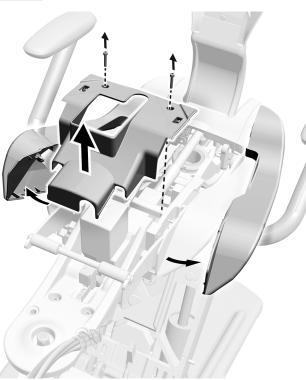
Task 1.



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.





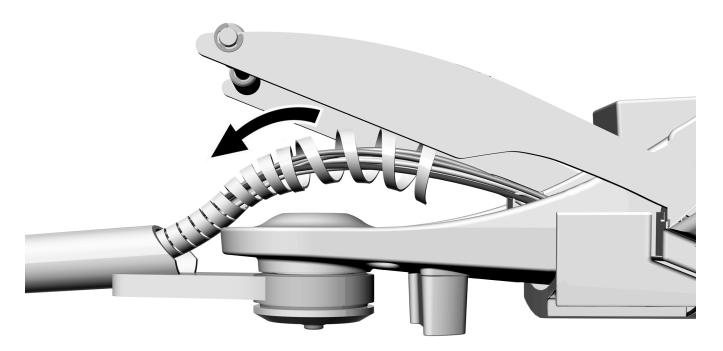
2 Turn off the power to the chair.

- **1** Remove the two screws securing the guard.
- **2** Pull out the side covers.
- **3** Remove the guard.

A-dec 332flt/332/333/336 Delivery System on A-dec 311flt/311/411 Dental Chair Installation Guide

Task 3.

- **1** Install the wrap around the tubing for the water bottle and delivery system.
- **2** Slide the wrap slightly into the rigid arm.

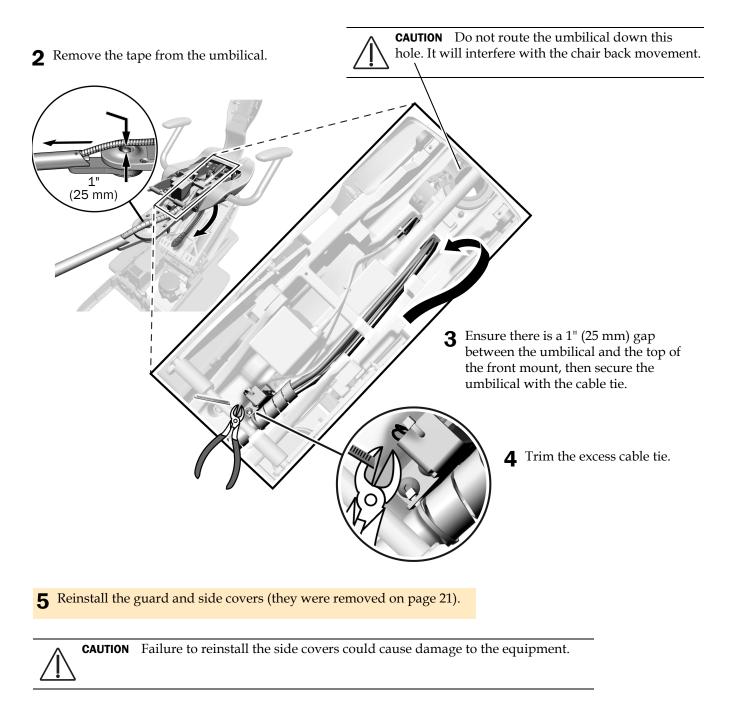


Task 4.



NOTE To provide proper range of motion and prevent the umbilical from interfering with the flexarm cover, do not pull the umbilical completely tight when routing it through the rigid arm.

1 Position the rigid arm straight out from the chair, then pull the umbilical over the mount, through the cable tie, and down the lift arm.



A-dec 332flt/332/333/336 Delivery System on A-dec 311flt/311/411 Dental Chair Installation Guide

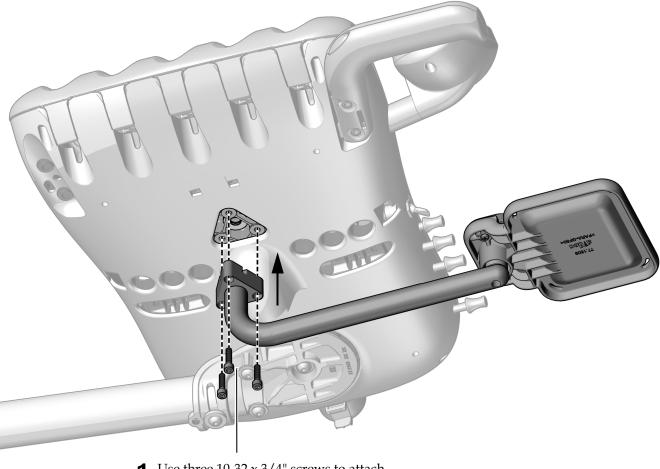
Install the Tray Holder (optional)

Select the procedure for the system's type of control head.

Install the Tray Holder Mount on a Continental Delivery System

Recommended Tool

• 5/32" hex key



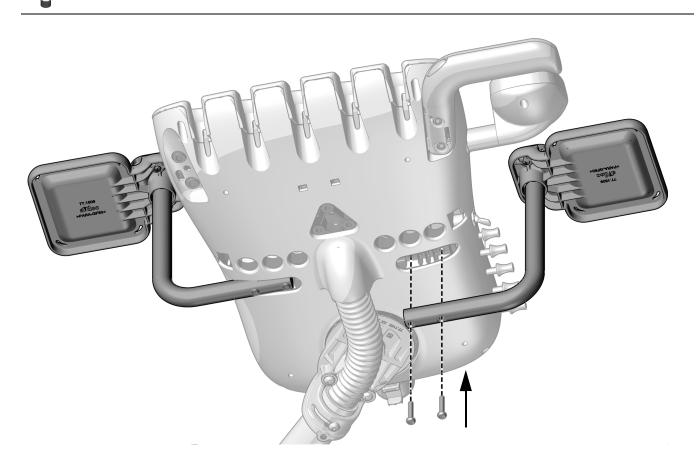
1 Use three 10-32 x 3/4" screws to attach the mount arm.

Install the Tray Holder Mount on a Traditional Delivery System

Recommended Tool

• 1/8" hex key

TIP To provide better access to the adjustment keys, mount the tray holder on the side of the control head opposite of the keys.



1 Use two $10-32 \times 1^{"}$ button head screws to attach the mount arm to either side of the bottom of the control head.

Connect the Wires and Data Line

The connections on an A-dec 311 are the same as the connections for the A-dec 411.



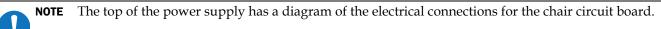
ATTENTION Circuit boards are sensitive to static electricity. Electrostatic Discharge (ESD) precautions are required when touching a circuit board or making connections to or from the circuit board. Circuit boards should be installed only by an electrician or qualified service person.



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.



CAUTION To avoid damaging or disconnecting wires and tubing, don't connect anything until all of the system's modules are installed.



1. Turn off the power to the chair.

Complete the following section according to which power supply the system includes.



Connect the Wires and Data Line to an A-dec Universal Power Supply Manufactured After June 202327



Connect the Wires and Data Line to an A-dec 311/411 Power Supply Manufactured Before June 2023 28

Connect the Wires and Data Line to an A-dec Universal Power Supply Manufactured After June 2023

Recommended Tool

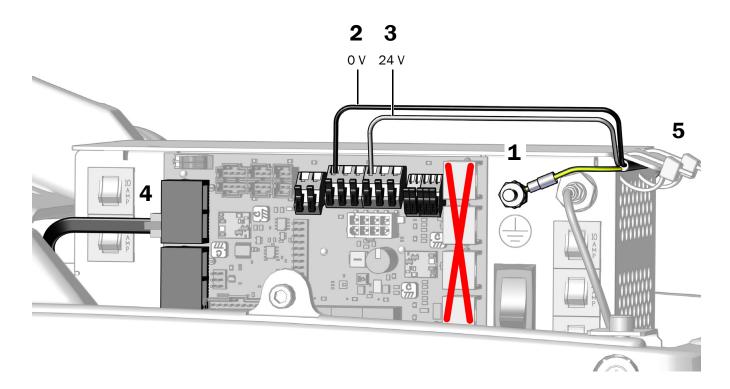
- 3/8" combination wrench
- Diagonal cutters
- **1.** Attach the delivery system's ground wire.
- 2. Connect the black wire from the delivery system cable to the 0 V wire connector.
- 3. Connect the gray wire from the delivery system cable to the 24 V wire connector.

NOTE If needed, you can connect more than one wire to a single terminal.



CAUTION Plugging the black DCS1 data line into a DCS2 port toward the toe of the chair can damage the product.

- 4. Plug the black DCS1 data line into a port toward the head of the chair.
- **5.** After all of the electrical connections have been made for the system's modules, secure the wires under the lip on the power supply. The data line does not get secured.



Next Step See "Connect the Tubing" on page 29.

Connect the Wires and Data Line to an A-dec 311/411 Power Supply Manufactured Before June 2023

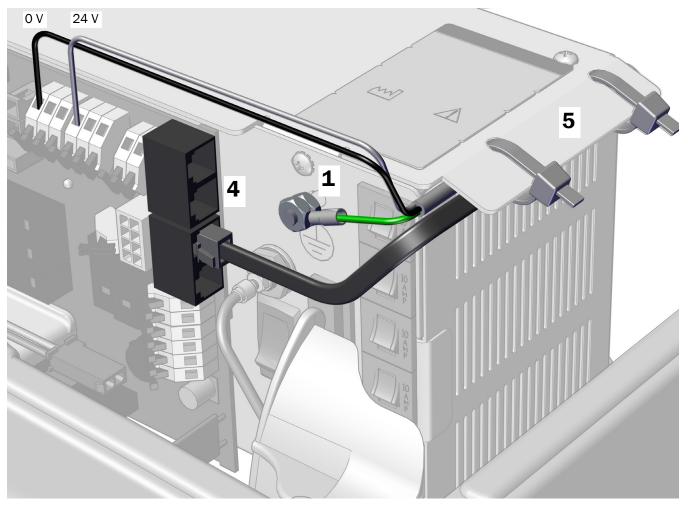
Recommended Tools

- 3/8" combination wrench
- Diagonal cutters
- 1. Attach the delivery system's ground wire.
- 2. Connect the black wire from the delivery system cable to the 0 V connector.
- 3. Connect the gray wire from the delivery system cable to the 24 V connector.

NOTE If needed, you can connect more than one wire to a single terminal.

- **4.** Plug the data line into any data port.
- **5.** After all of the electrical connections have been made for the system's modules, secure the wires under the lip on the power supply.

2 3



Connect the Tubing

 \triangle

CAUTION To avoid damaging or disconnecting wires and tubing, don't connect anything until all of the system's modules are installed.

Route the Foot Control Tubing

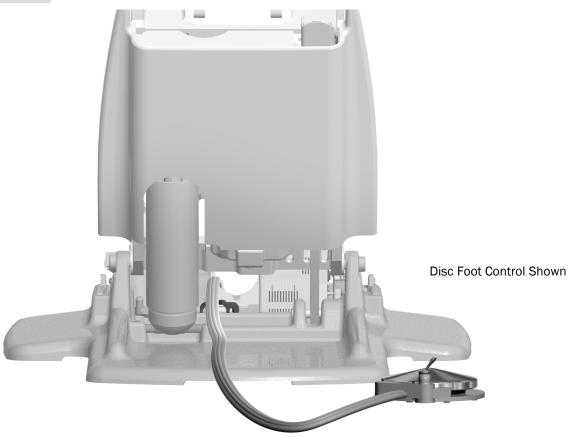


NOTE The connections for the disc foot control and the lever foot control are the same.

Recommended Tool

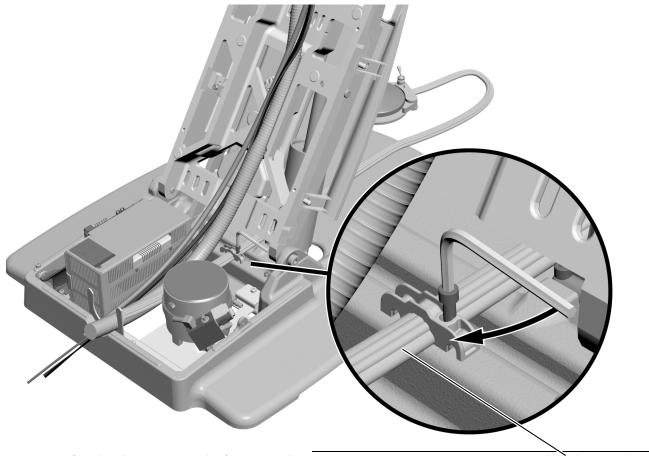
• 3/16" hex key





1 From the back of the chair, route the foot control tubing over the strain relief and behind the power supply.





1 Use a 3/16" hex key to secure the foot control tubing to the chair base in the strain relief.

NOTE For proper positioning, the ridges on the foot control tubing face up to match the grooves in the strain relief.

Connect the A-dec 336 Saliva Ejector Tubing (optional)

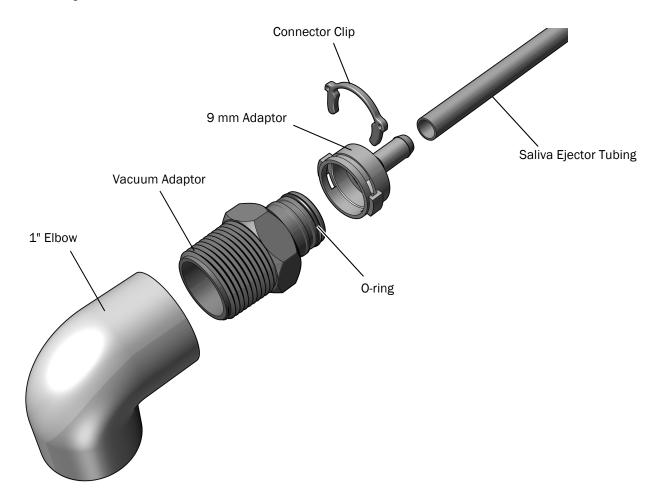
If you installed an A-dec 336 Delivery System with the optional saliva ejector, follow this procedure to connect the vacuum line for it.

Connect the Saliva Ejector Tubing on a Chair Without Assistant's Instrumentation

Task 1.

- **1** Locate the 5/16" saliva ejector tubing in the delivery system tubing bundle.
- **2** Route the saliva ejector tubing through the convolute into the floor box.
- **3** Connect the vacuum adaptor (copper with a brass collar attached) to the vacuum line.
- **4** Route the saliva ejector tubing to the vacuum adaptor. Trim the tubing to remove excess tubing leaving enough tubing for a service loop.

- **5** Push the saliva ejector tubing onto the 9 mm adaptor.
- **6** Verify that an O-ring is installed on the vacuum adaptor. If it is not, install an O-ring in the first groove on the adaptor.
- 7 Attach the saliva ejector 9 mm adaptor to the vacuum adaptor. Secure the tubing connector to the vacuum adaptor with the connector clip.



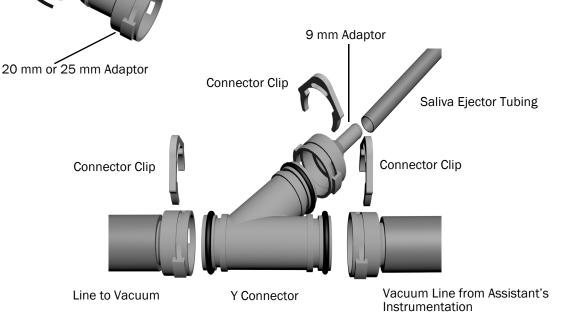
Connect the Saliva Ejector Tubing on a Chair With A-dec 351 or 551 Assistant's Instrumentation

Task 1.

- **1** Route the assistant's instrumentation vacuum line through the convolute into the floor box.
- **2** Route the saliva ejector tubing through the convolute into the floor box.
- **3** Position the Y connector in the floor box next to the assistant's instrumentation vacuum line. Cut the vacuum line at a point next to the top of the Y connector.
- **4** Spread Loctite[®] 411[™] around the lip on one of the adaptors. If a 351 is installed, use 20 mm adaptors. If a 551 is installed, use 25 mm adaptors.
- **5** Use a twisting motion to push the side of the vacuum line that comes from the convolute on to the adaptor.

Use Loctite[®] 411[™] Here

- 6 Attach the adaptor to the main top opening of the Y connector. Secure the adaptor to the Y connector with a connector clip.
- 7 Spread Loctite[®] 411[™] around the lip on one of the remaining adaptors.
- **8** Use a twisting motion to push the remaining piece of vacuum line onto the adaptor.
- **9** Connect the vacuum line to the vacuum source.
- **10** Attach the adaptor to the lower opening of the Y connector. Secure the adaptor to the Y connector with a connector clip.
- **11** Push the saliva ejector tubing onto the 9 mm adaptor.
- **12** Attach the saliva ejector tubing adaptor to the side opening of the Y connector. Secure the adaptor to the Y connector with a connector clip.



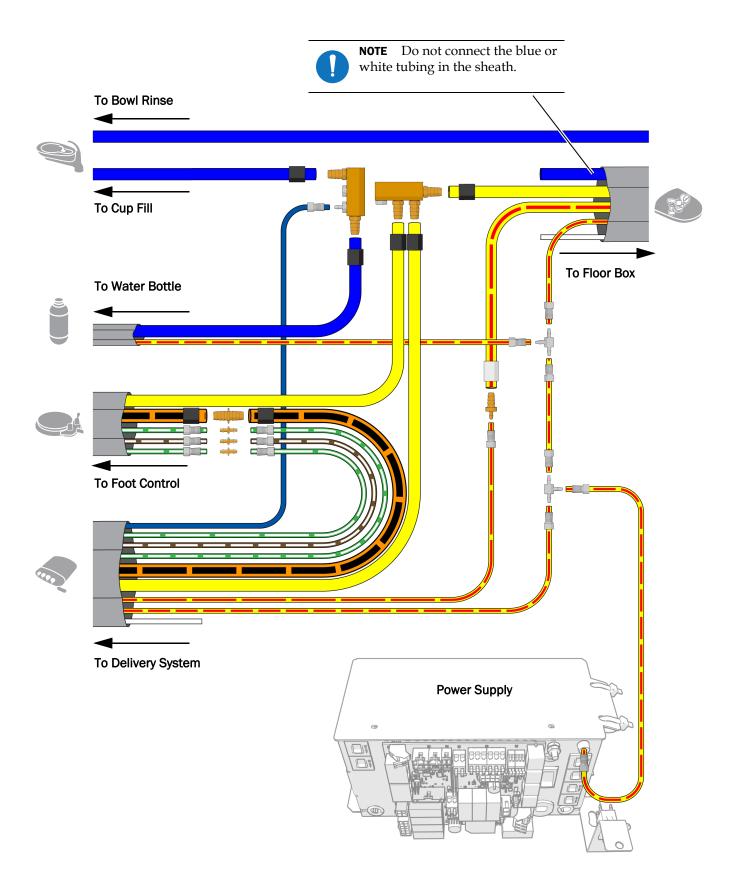
Prepare and Connect the Tubing

Recommended Tools

- Diagonal cutters
- Sleeve pusher
- **1.** Strip and remove 3' (1 m) of the sheath from around the water bottle tubing.
- 2. Connect the tubing according to the flow diagram on the following page.

STOP READ THIS! Be sure to position the control arm of the A-dec 336 at its maximum height before trimming its tubing to retain the full range of motion for the control head. For instructions on setting the control arm to its maximum height, see "Adjust the Control Head Height" on page 41.

NOTE When installing the water manifold, be sure to connect to the barb on the end to prevent standing water in the manifold.



Connect the Floor Box Utilities

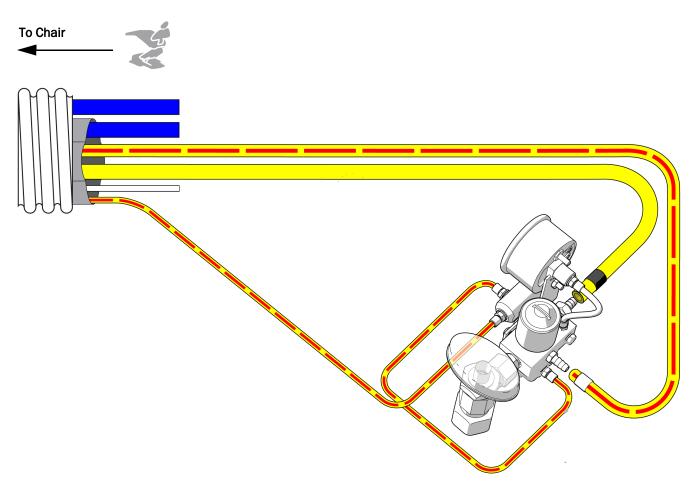
Complete the connections for the system's configuration.	
Connect a Delivery System Only	35
Connect a System with Multiple Modules	36

Connect a Delivery System Only

Use this diagram if the system does not include any other modules except a delivery system.

Recommended Tools

- Diagonal cutters
- Sleeve pusher



A-dec 332flt/332/333/336 Delivery System on A-dec 311flt/311/411 Dental Chair Installation Guide

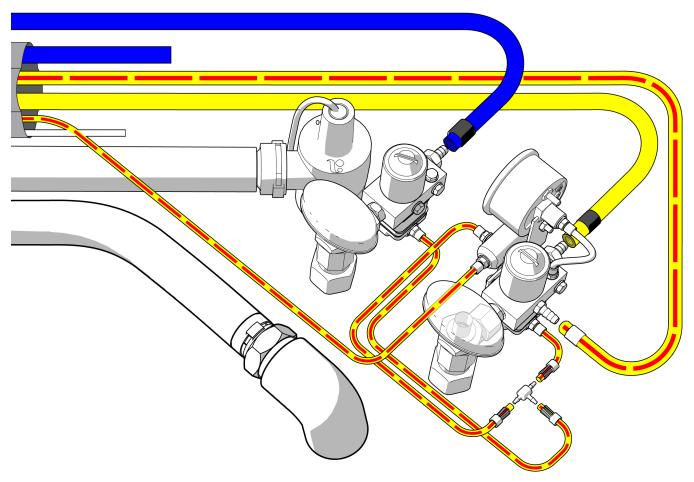
Connect a System with Multiple Modules

Use this diagram if the system includes any modules in addition to a delivery system.

Recommended Tools

- Diagonal cutters
- Sleeve pusher





Install the Moisture Separator (Optional)

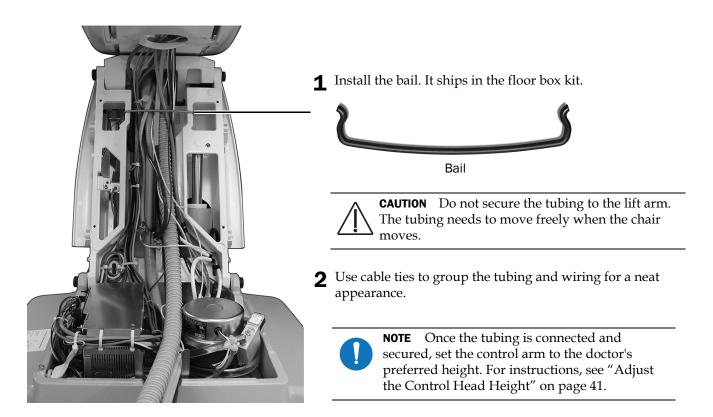
To install the moisture separator, follow the directions included in the moisture separator kit.

Prepare and Adjust the System

Secure the Wires and Tubing

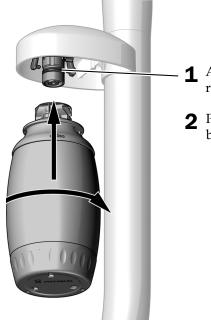
Recommend Tool

• Diagonal cutters



Install the Water Bottle

IMPORTANT A-dec recommends that the dental team perform a shock treatment on the dental unit waterlines before they use the system for the first time, and establish an ongoing waterline maintenance program. For more information, see the *Waterline Maintenance Guide* (p/n 85.0983.00) and *A-dec Self-Contained Water System Instructions For Use* (p/n 86.0609.00).



Apply A-dec silicone lubricant on the receptacle O-ring.

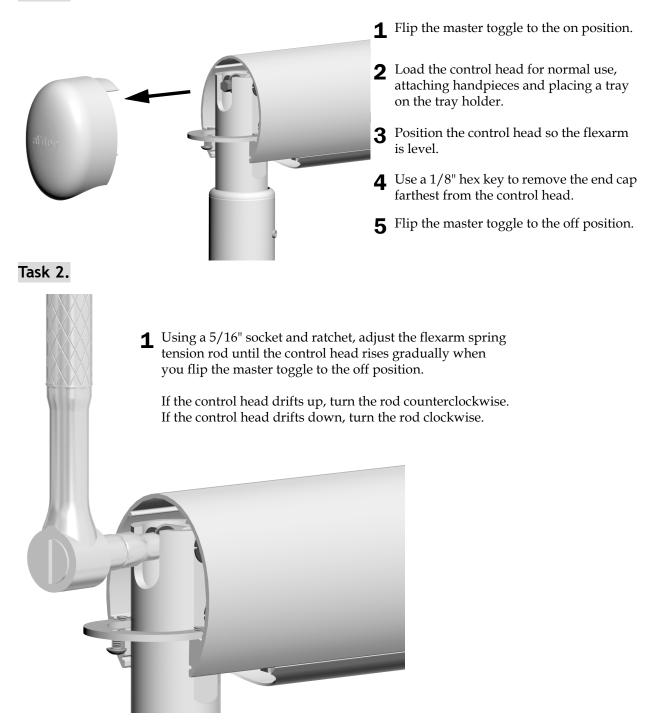
2 Push the water bottle up onto the water bottle receptacle and turn it to the right.

Adjust the Delivery System Spring-Assisted Flexarm

Recommended Tools

- 1/8" hex key
- 5/16" socket and ratchet

Task 1.

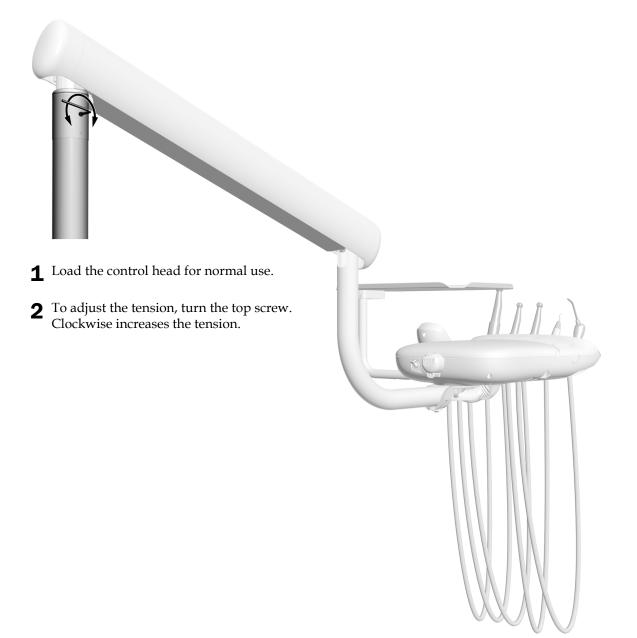


Adjust the Delivery System Flexarm Rotation Tension

If the delivery system flexarm drifts, complete the following steps to adjust the tension of the flexarm rotation.

Recommended Tool

• 1/8" hex key

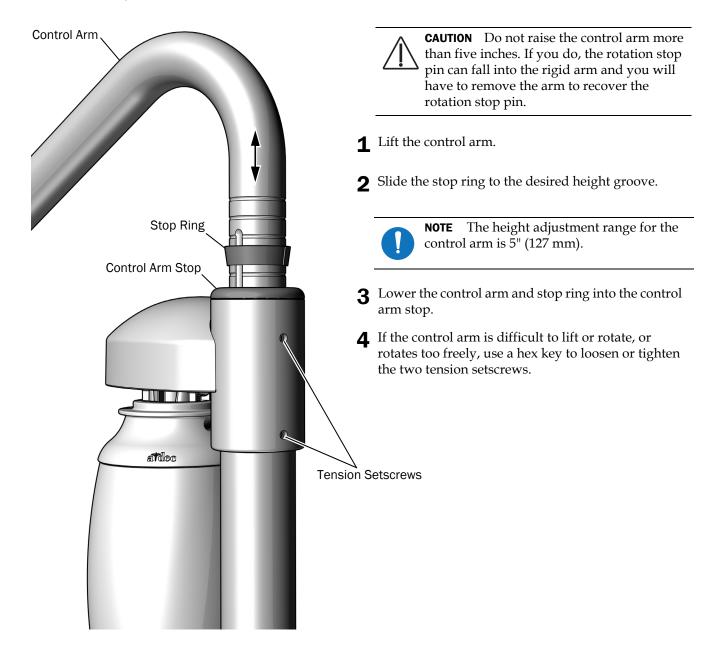


Adjust the Control Head Height (A-dec 336 only)

Check the height of the manual height adjustment delivery system. Use the following procedure if it needs to be adjusted.

Recommended Tool

• 3/32" hex key



Install the Delivery System Flexarm Rotation Stop Screw

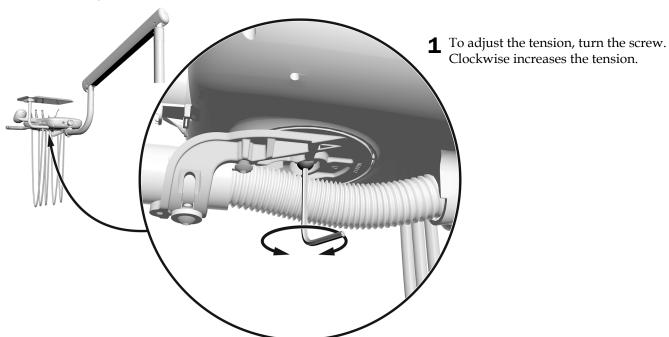
Recommended Tool

- 1/8" hex key
- **1** Install the 10-32 x 1/2" button head screw in the bottom hole. Tighten it all the way down.

Adjust the Control Head Rotation Tension

Recommended Tool

• 5/32" hex key



Actual Size

TITAD

Adjust the Tray Holder Mount Rotation Tension

Recommended Tool

- Phillips head screwdriver
- 7/32" hex key

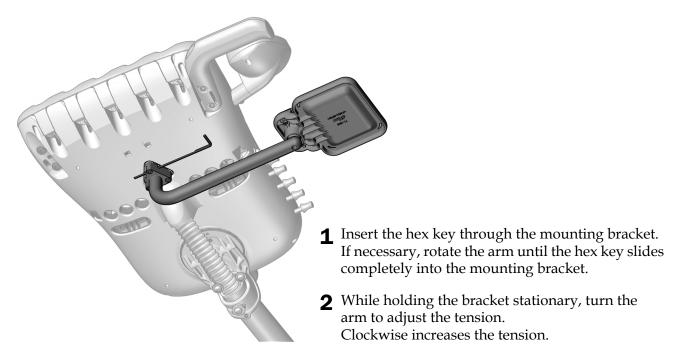


- **1** Use a Phillips head screwdriver to remove the cap screws. Remove the cap.
- **2** Insert the hex key into the tension bolt and turn clockwise to increase the tension.

Adjust the Tray Holder Mount Arm Rotation Tension (Continental only)

Recommended Tool

• 9/64" hex key



Adjust the Intraoral Light Source Voltage

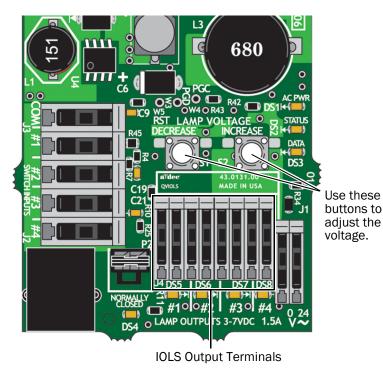
Recommended Tools

- 7/64" hex key
- Voltmeter



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.

- **1.** Use a 7/64" hex key to remove the control head back cover.
- **2.** Set the voltmeter to DC voltage and place its probes on the IOLS output terminals for the handpiece you're adjusting.



- **3.** Lift the handpiece from its holder and turn the light on.
- **4.** Use the buttons behind the terminal to adjust the voltage according to the Table on page 45.

CAUTION The values in the following table are valid only for fiber optics with 26 AWG wires. For fiber optics powered with 30 AWG wires and other ratings, use the equation $T = (Z \times 0.006 \times Y) + X$ where:

- **T** = Terminal strip voltage (VDC)
- **X** = Desired voltage at bulb (VDC)
- **Y** = Rated lamp/load current (Amps)
- **Z** = Length of 30 AWG wire (inches) from terminal strip to bulb

For devices with a wire gauge other than 26 AWG, please contact A-dec Customer Service.

Length and Voltage Table for Bulbs Rated at 3.20 VDC					
A-dec Tub	ing Length	Voltage at terminal strip resulting in recommended 3.20 VDC +/- 0.03 bulb voltage (measure with IOLS on)			
(in)	(cm)	0.200 A	0.380 A	0.750 A	
50	127	3.37	3.52	3.84	
64	163	3.42	3.61	4.02	
85	216	3.49	3.75	4.28	

Adjust the Handpiece Drive Air Pressure

Recommended Tools

- 7/64" hex key
- Handpiece pressure gauge

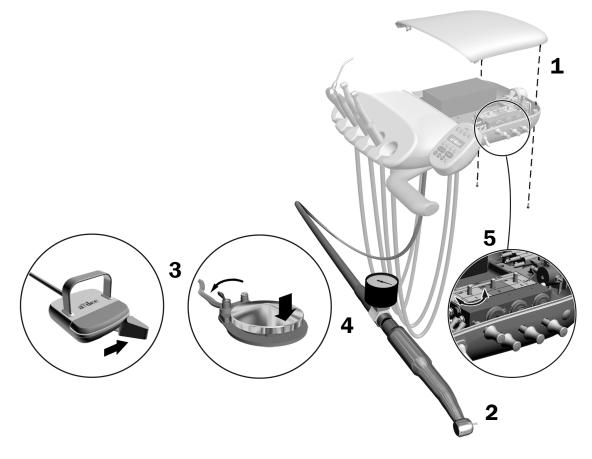


NOTE Use a handpiece pressure gauge attached to the handpiece tubing for exact drive air measurement. One bar equals 14.5 psi.

- 1. Use a hex key to remove the control head cover screws. Remove the cover and locate the drive air pressure controls inside.
- 2. Lift the handpiece from the holder or pull the whip forward.
- **3.** Do one of the following:
 - On a disc foot control: flip the toggle to dry (away from the blue dot) and step on the disc.
 - On a lever foot control: move the lever all the way to the right.
- 4. With the handpiece running, check the handpiece pressure gauge.

CAUTION Exceeding the manufacturer's recommended drive air pressure increases the risk of damage and may significantly decrease the life of your handpiece components. For the proper drive air pressure, see the handpiece manufacturer's Instructions for Use.

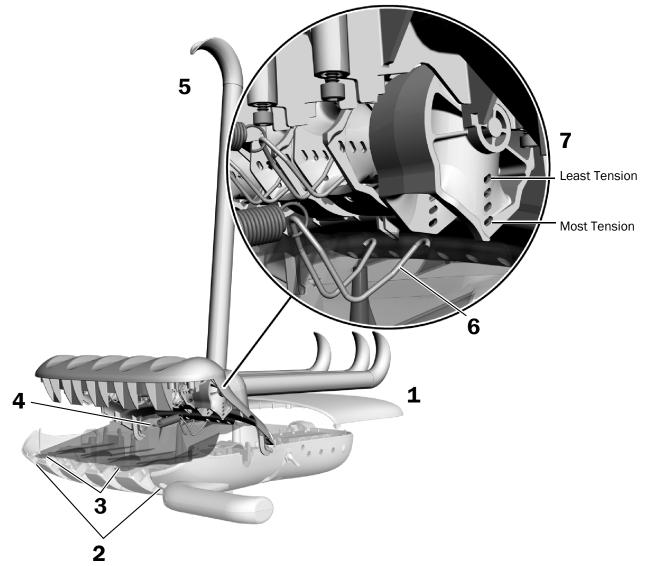
5. Adjust the drive air pressure to meet the manufacturer's specifications. Turn the stem clockwise to decrease pressure.



Adjust the Continental Whip Tension

Recommended Tool

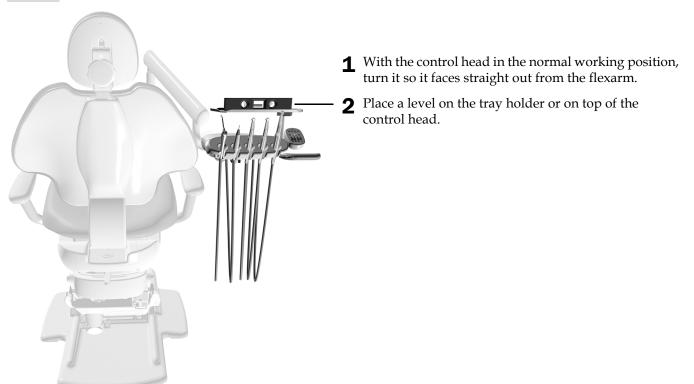
- 7/64" hex key
- **1.** Remove the control head back cover.
- **2.** Loosen the two screws holding the control head front cover and raise up the cover.
- **3.** Pull out the two tabs on the top of the drip shield; then pull down the shield.
- **4.** Remove the spring from the front cover.
- **5.** Pull the whip forward.
- 6. To remove the bail from the control head, squeeze its sides until its ends clear the holes in the frame.
- 7. Insert the ends of the bail into the holes for the desired whip tension; then reattach the spring.
- **8.** Repeat steps 4 through 7 for each whip to be adjusted.
- **9.** Reinstall the control head back cover.



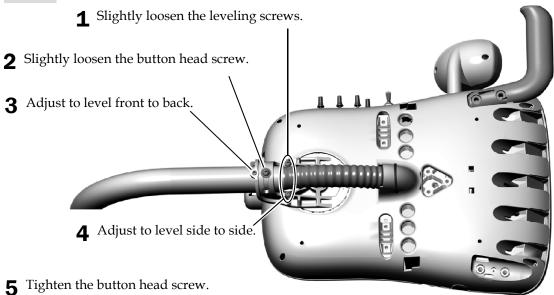
Level the Control Head

Recommended Tools

- 5/32" hex key
- Level
- Task 1.



Task 2.



Customize Touchpad and Handpiece Settings

NOTE Touch control symbols and icons are proprietary to A-dec, Inc.

Technician Touchpad Setup

To adjust handpiece and touchpad settings for user preferences, press and hold m and e at the same time. When the **System Setup** screen appears, press \blacktriangleright .

A-dec 300 Deluxe Touchpad Setup Screen Example

SYSTEM	Λ SETL	JP			
Har	Handpieces				
Press < Exit	-/+	to change Select >			

Navigate with Touchpad Buttons

Chair button functions become navigation buttons while you are in setup mode. Use the back up \blacktriangleright , back down \blacktriangleleft , base up \blacktriangle , base down \blacktriangledown , also the minus — and plus + buttons to navigate, and make adjustments and selections on the setup screens.

Contrast/Help Messages Setup

To adjust the touchpad screen contrast or turn on/off the help messages:

- From the deluxe touchpad main screen, press and hold m and e at the same time for three seconds, and press
 ▶ to begin.
- **2.** From the **System Setup** screen, press or + to select **Touchpad** and press \blacktriangleright to begin.
- **3.** From the **Touchpad Setup** screen, press or + until **Contrast Adjust** or **Help Messages**: is displayed on the screen, then press ▶ to enter the **Contrast Adjust Setup** or **Help Messages Setup** screen.
 - In the Contrast Adjust Setup screen: Press or + to adjust the contrast, then press ▶ to save the setting. Three beeps confirms the setting is saved.
 - In the Help Messages Setup screen: Press or + to turn On or Off help messages, then press ▶ to save the setting. Three beeps confirms the setting is saved.
- **4.** When finished making adjustments to touchpad settings, press < until the A-dec logo is displayed.



NOTE For a listing of help messages, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) in the Resource Center at <u>www.a-dec.com</u>.

Handpiece Holder Setup

You can set up how handpieces are configured for each handpiece holder. Handpiece types include Basic Air, Camera, Electric, Other, Ultrasonic, Vacuum, and Turbine.

To set up handpiece holders:

- 1. Press and hold m and e at the same time until a **System Setup** screen appears, then press ▶.
- **2.** On the **System Setup** screen press or + to highlight **Handpieces**, then press \triangleright .
- **3.** On the **Handpiece Setup** screen press or + to highlight **Holder Setup**, then press \triangleright .
- 4. Lift the desired handpiece from the holder.
- **5.** On the **Holder Setup** screen press or + to select the handpiece type, then do one of the following depending on the type of handpiece:
 - **Electric:** For setup instructions, see the installation information that ships with the control module.
 - All other Types: Press ▶. Three beeps confirms the setting is saved.
- **6.** Return the handpiece to the holder.
- 7. Repeat steps 4 through 6 to set up each active handpiece.
- 8. When you are finished setting up the handpieces, press < until you see the A-dec logo.

Intraoral Light Source Setup



NOTE With the A-dec 300 Deluxe Touchpad, you can set up various intraoral light source settings if a quad voltage intraoral light source (QVIOLS) or electric motor controller with built-in IOLS control is installed.

The following settings are available:

- **On When Selected:** Specify whether the intraoral light source turns on or remains off when the handpiece is removed from the holder.
- Auto Off Delay: Determine how long the light remains on when the foot control is released. This time is reset when you use the drive air again.
- On in Endo: Specify whether the intraoral light source turns on or off when in Endodontics mode. Because most Endodontics handpieces do not have light pipes, it is recommended that Off is selected to reduce heat and to extend bulb life.

To set up the intraoral light source:

- From the deluxe touchpad main screen, press and hold m and e at the same time for three seconds and press

 ▶ to begin.
- **2.** From the **System Setup** screen, press or + to highlight **Handpieces** and press \triangleright .
- **3.** From the **Handpiece Setup** screen, press or + to highlight **Intraoral Lt Source** and press \triangleright .
- **4.** Lift the desired handpiece from the holder.
- **5.** From the **Light Source Setup** screen, press or + to display the desired setting and press \triangleright .
- 6. Specify settings for the handpiece by pressing or + and ▶ to move through the screens. Once the setup is complete, three beeps confirm the setting.
- 7. Repeat steps 5 and 6 for each setting.
- **8.** Return the handpiece to the holder.
- 9. Repeat steps 3 through 8 to configure each handpiece.
- **10.**When you are finished setting up the handpieces, press < until you see the A-dec logo.

Test the System

Complete the following checklist to test the system, then follow up with the customer.

Delivery System

- The handpieces function properly and are set to doctor's preferences:
 - Water coolant, air coolant, and spray.
 - Handpiece tubing flush.
 - Handpiece holder valves and switches.
 - Handpiece drive air pressure.
- Spring-assisted flexarm is counter-balanced properly.
- Rotation stop pin is installed and functioning properly.
- Flexarm air brake functions properly.
- Height of manual adjustment arm and rotation tension is set.
- Control head is level as measured on tray.
- Articulating arms do not drift.
- Foot control operates properly.

Utilities

- Regulated air pressure is at 80 psi (552 kPa).
- Floor box is free of air and water leaks.
- Tubing and connections are not kinked and are free of air and water leaks.
- Excess tubing and wires are coiled and stored away from moving parts.

Install the Covers

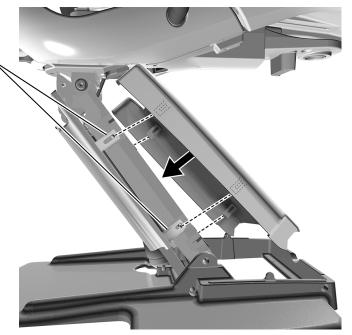
NOTE Be sure to adjust and test the system before installing the covers.

WARNING Shock hazard. When you remove or replace the covers, take care not to damage any wiring or tubing. Verify that the covers are secure after you replace them.

The instructions for installing covers is the same for the A-dec 311flt/311 and 411 dental chairs.

Install the Lift Arm Cover

- **1** Position the chair so that it is raised halfway up.
- **2** Insert the posts on the lift arm into the slots on one side of the cover.
- **3** Insert the posts into the slots on the other side of the cover.



Install the Pump and Floor Box Covers

Recommended Tool

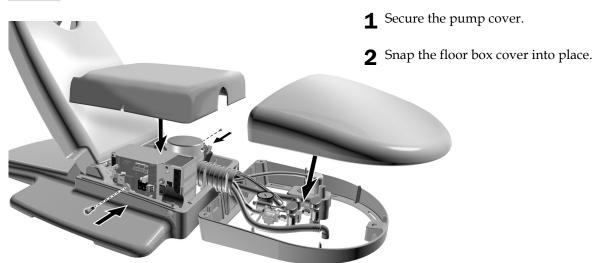
• 3/16" hex key

Task 1.



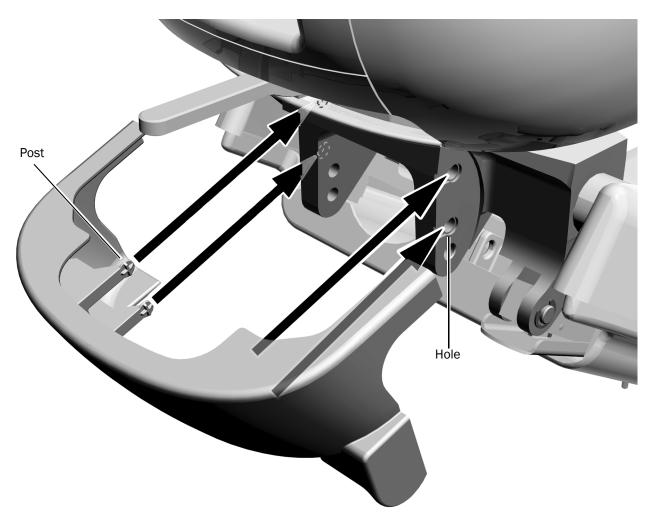
1 If the system includes a floor box, remove the slot from the front of the pump cover.

Task 2.



Install the Mount Cover

NOTE Wait to install this cover until after all modules are installed. If the system includes a support link, use the slotted back mount cover that fits around the link.



1 Snap the mount cover in place. The four posts go into the holes on the mount.

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 <u>www.a-dec.com</u>.



For quick access to this document online, scan, tap, or click this QR code, which points to <u>a-dec.com/regulatory-guide</u>.

Loctite and Loctite 411 are trademarks or registered trademarks of Henkel IP & Holding GmbH in the United States and may be trademarks or registered trademarks in other countries. All other trademarks cited herein are registered trademarks or trademarks of A-dec, Inc. in the United States and may also be trademarks or registered trademarks in other countries.

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

www.a-dec.com

A-dec, Inc. makes no warranty of any kind with regard to the content in this document including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.



86.0922.00 Rev C Date of Issue 2023-11-06 Copyright 2023 A-dec, Inc. All rights reserved. IGgrphpor23