

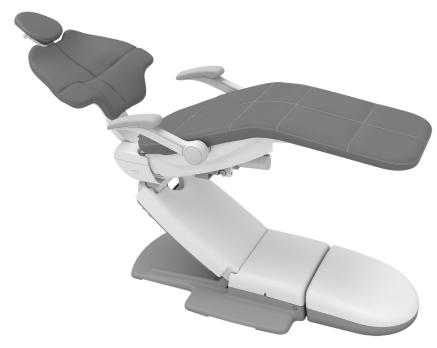


INSTALLATION GUIDE



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A-dec 511B Shown

Product Models and Versions Covered in This Document *

Models	Versions	Description
511	В	Dental Chair
511flt	n/a	Dental Chair

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

Before You Begin



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.



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.

- Clear the room of all debris and thoroughly clean the floors.
- 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
- 9/16" and 3/4" sockets and ratchet
- Diagonal cutters
- · Anti-static wrist strap

- Drill
- 1/2" (12.5 mm) drill bit
- 3/8" (9.5 mm) drill bit
- Phillips head screwdriver
- · Tape measure
- · Rotary hammer

Install the Chair

Position the Chair

Recommended Tools

- 9/16" socket and ratchet
- 3/16" hex key

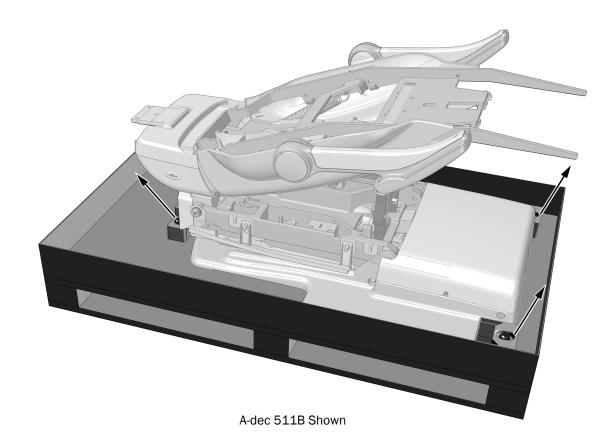
Task 1. Remove all items and cardboard from around the chair.



NOTE When removing the chair from its packaging, watch for manuals included for the doctor (such as the A-dec 511 Dental Chair Instructions For Use, p/n 86.0761.00). Set these aside.

Task 2.

1 Use a 9/16" socket and ratchet to remove the bolts and brackets securing the chair to the pallet.



Task 3.

1 Use the armrests and seat frame to remove the chair from the pallet. Place the chair in position.

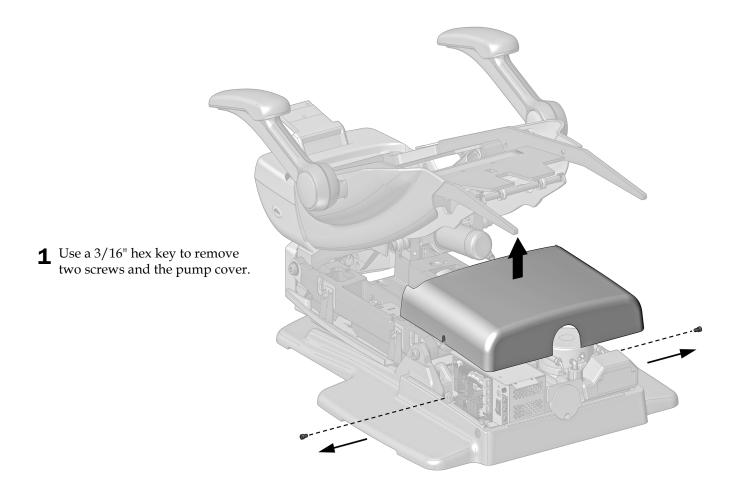


2 Remove the shipping strap.



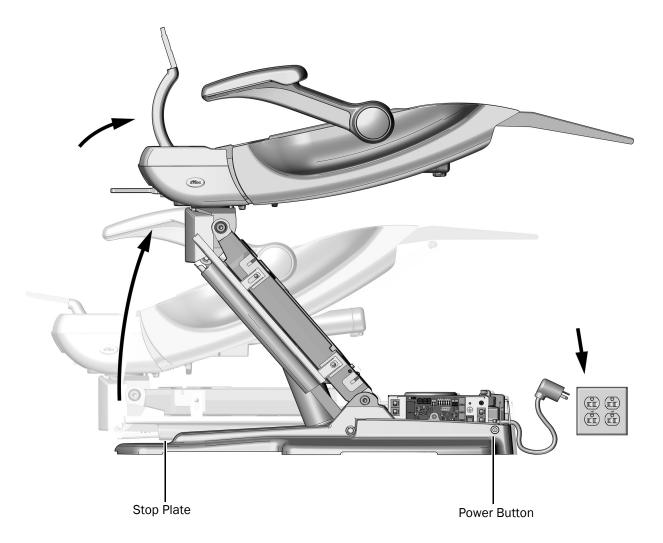
READ THIS! If a delivery system, dental light, or monitor mount will be installed on this chair, save the shipping strap. It will be used to support the chair frame in those installations.

Task 4.



Task 5.

- **1** Plug in the chair and turn on the power to the chair.
- **2** Tap the right side of the stop plate 3 times within 2-4 seconds and continue to hold the plate on the third tap until both the chair base and chair back rise as far as they will go.



Anchor the Chair to the Floor



WARNING Anchoring the chair to the floor is required for mechanical stability. Failure to anchor the chair properly could result in damage, serious injury, or death.

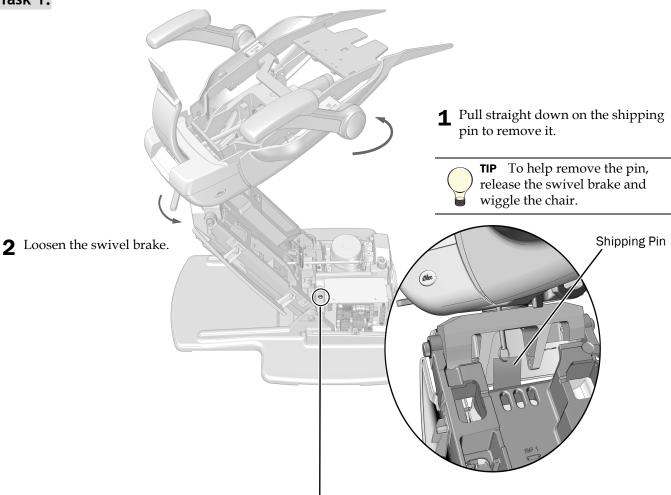


CAUTION Check the flooring and/or framing material where you will anchor the chair. If it is not at least 3-1/4" (82 mm) thick, contact a licensed contractor about reinforcing the floor.

Recommended Tools

- Rotary hammer
- Drill
- Concrete floor: 1/2" (12.5 mm) drill bit and 9/16" socket and ratchet
- Wood floor: 3/8" (9.5 mm) drill bit and 3/4" socket and ratchet

Task 1.



3 Rotate the chair upper to expose the anchoring hole in the baseplate casting.

Task 2.



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.

1 Turn off the power to the chair.

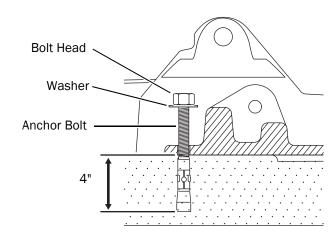
Task 3. Complete the procedure for the type of flooring in the treatment room.



CAUTION Use care to avoid damaging tubing, wires, or lines near the anchoring hole.

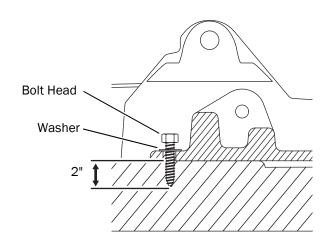
Anchor the Chair to a Concrete Floor

- **1** Use a rotary hammer with a 1/2" (12.5 mm) bit to drill a 4" (101 mm) deep hole through the anchoring hole in the baseplate.
- **2** Remove any debris.
- **3** Drive the anchor bolt into the hole until the bolt head seats against the baseplate.
- 4 Use a 9/16" socket and ratchet to securely tighten the bolt against the washer so it holds the baseplate to the floor.



Anchor the Chair to a Wood Floor

- **1** Use a 3/8" (9.5 mm) bit to drill a 2" (50 mm) deep hole through the anchoring hole in the baseplate.
- **2** Remove any debris.
- **3** Use a 3/4" socket and ratchet to securely tighten the bolt against the washer so it holds the baseplate to the floor.

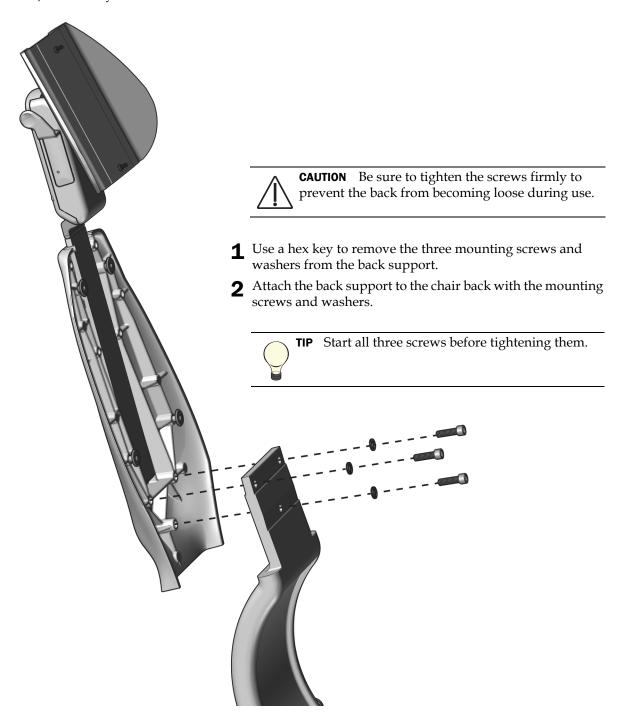


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Install the Back Support

Recommended Tool

• 3/16" hex key



Install the Footswitch (optional)

Recommended Tool

• 3/16" hex key

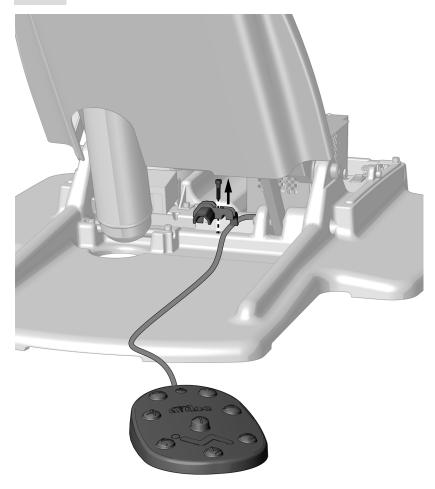


WARNING Failure to turn off or disconnect the power before you begin this procedure can lead to product damage and result in serious injury or death.



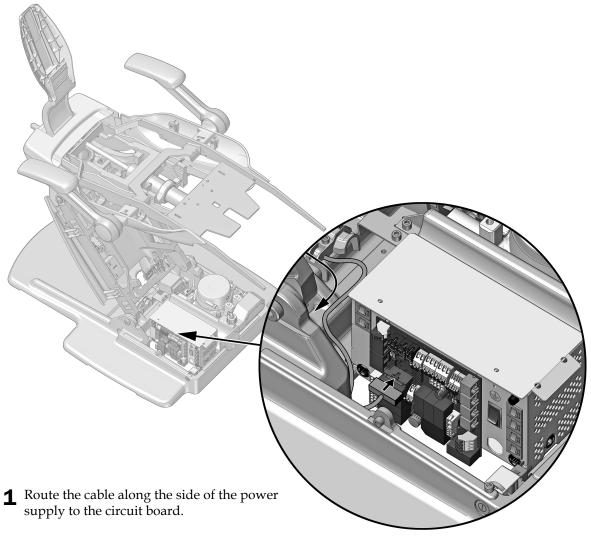
ATTENTION Circuit boards are sensitive to static electricity. Electrostatic Discharge (ESD) precautions are required when touching a circuit board or making connections to or from the circuit board. Circuit boards should be installed only by an electrician or qualified service person.

Task 1.



- **1** Use a 3/16" hex key to remove the strain relief.
- **2** From the back of the chair, route the foot control tubing over the strain relief's location to the front of the chair.

Task 2.



2 Connect the cable to the P5 connector located along the bottom edge of the circuit board.

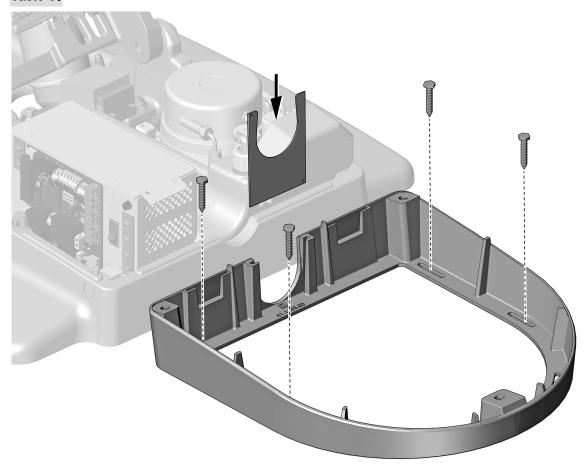
3 Use a 3/16" hex key to secure the cable under the strain relief.

Install the Floor Box (optional)

Recommended Tools

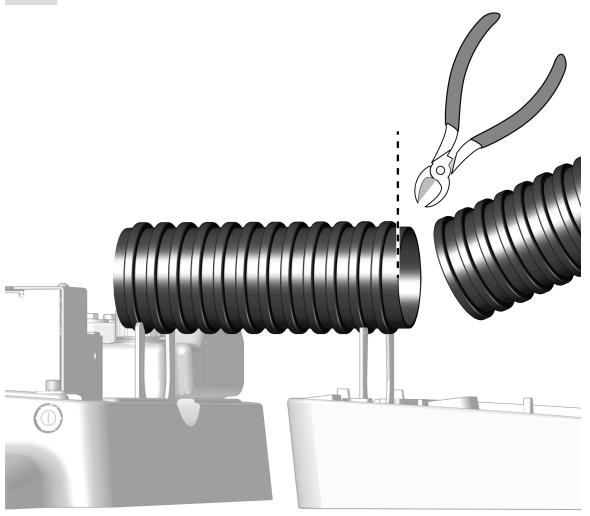
- Phillips head screwdriver
- Diagonal cutters
- Tape measure

Task 1.



- **1** Place the floor box frame around the utilities.
- **2** Use four of the following to attach the frame to the floor:
 - Wood floors: 1-1/4" screws
 - Concrete floors: 2" anchors
- **3** Slide the umbilical clip into the slot in the frame.

Task 2.



- **1** Measure the distance between the chair and the floor box.
- **2** Cut the convolute to size.



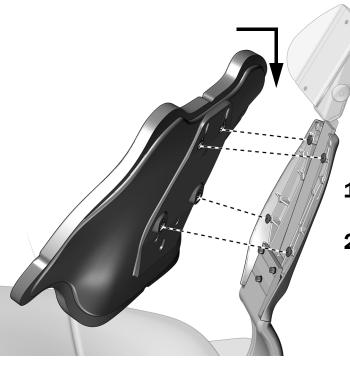
NOTE Ensure that the bottom of the convolute is fully seated in the clips so that the covers install properly.

Install the Upholstery



NOTE If you are installing other modules at this time, wait to install the upholstery until the other modules have been installed.

Install the Back Upholstery



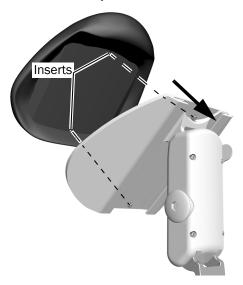
1 Place the key holes in the back upholstery over the large fastener posts on the chair back.

2 Push down until the top of the back upholstery aligns with the chair back.

Install the Headrest Upholstery

Recommended Tool

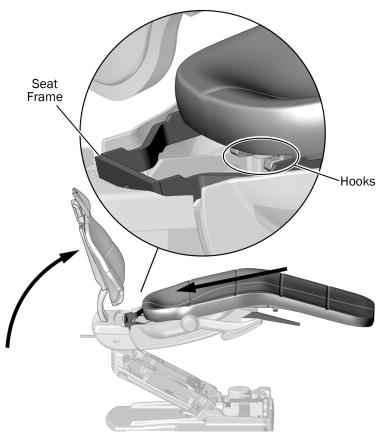
• 5/64" hex key



- **1** Position the headrest cushion so the inserts are aligned with the screws in the headrest plate.
- **2** Use a hex key to partially tighten the top screw in the headrest plate into the insert, but do not tighten it.
- **3** Tighten the bottom screw in the headrest plate into the insert.
- **4** Tighten both screws completely.

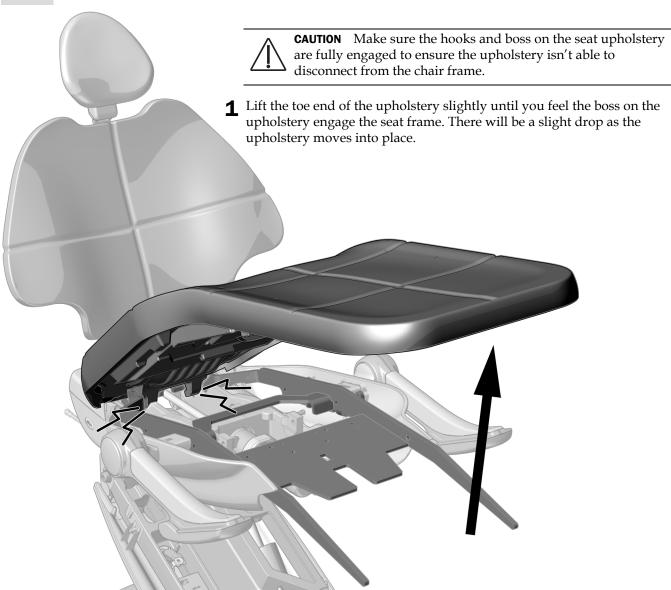
Install the Seat Upholstery

Task 1.



- **1** Fully raise the chair back.
- **2** If the system includes a delivery system or dental light, rotate the rigid arms to the side for better access.
- **3** Push the hooks on the upholstery under the seat frame.

Task 2.

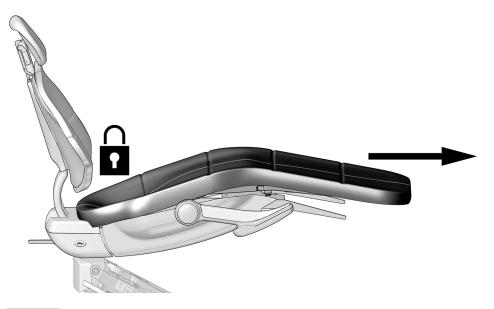


Task 3.

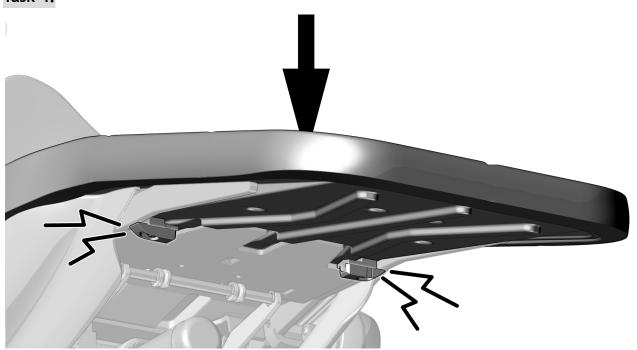


CAUTION To prevent the risk of patient injury, ensure the seat does not slide out from the back of the chair.

1 Pull straight out to confirm the upholstery is fully engaged with the seat frame. The seat upholstery should not slide forward.



Task 4.



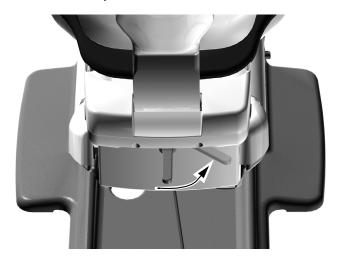
1 Push down on the end of the upholstery until you hear the click of the upholstery clips securing on the seat frame.

Prepare and Adjust the System

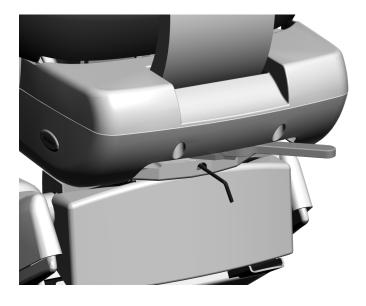
Adjust the Swivel Brake Tension

Recommended Tool

• 7/64" hex key



1 Move the brake handle to the right.

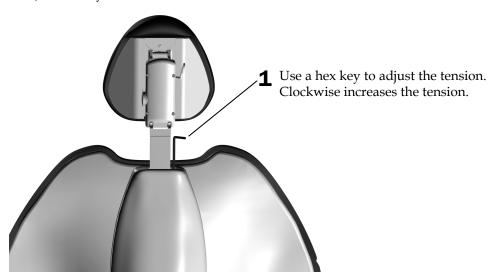


2 Use a hex key to adjust the swivel brake tension. Clockwise increases the tension. A small adjustment significantly increases or decreases tension.

Adjust the Glide Bar Tension

Recommended Tool

• 1/8" hex key



Customize Touch Control and Handpiece Settings

See the section for the type of control interface on your system.



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

CP5i/CP5 Control Pads



For touchscreen and control pad use, see the *A-dec DS7/CP5i/CP5 Touch Controls Instructions for Use* (p/n 86.0857.00) at <u>a-dec.com/touchscreen-manual</u>.



INSTRUCTIONS FOR USE

A-dect

SOFTWARE PLATFORM

A-dec

For configuring connectivity features, see the A-dec+ $^{\text{TM}}$ Software Platform Instructions for Use (p/n 86.1030.00) at a-dec.com/connectivity-manual.



Deluxe Touchpad

Use the touchpad to customize commonly used settings for the system.

Customize the Chair Preset Positions

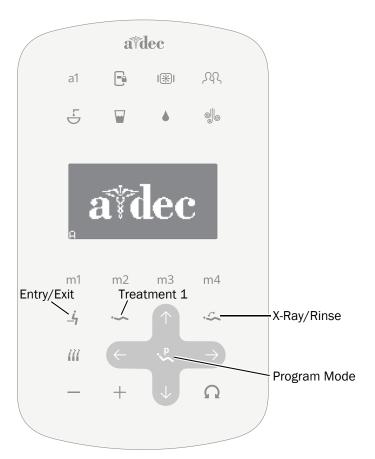
To customize the chair preset positions _i or ·~:

- **1.** Move the chair into the desired position.
- **2.** Press and hold One beep indicates the program mode is on.
- **3.** Within five seconds, press the chair preset icon you want to customize. Three beeps indicate the new setting is saved.

Customize the X-Ray/Rinse Position

The preset toggles between the x-ray/rinse position and the chair's previous position. To change the preset position to function as a customized chair preset position:

- 1. Press and hold on at the same time.
 - One beep indicates is set as another customizable chair position.
 - Three beeps indicate ♣ has been configured as the x-ray/rinse preset.
- **2.** To customize the preset position, see the previous section, "Customize the Chair Preset Positions".



A-dec 500 Deluxe Plus Touchpad

Chair Preset Positions

Icon	Factory Setting
-与	Entry/Exit: Positions chair for entry/exit and turns off the dental light.
·~	Treatment 1 : Positions the chair base and back down and turns on the dental light.
.£	X-Ray/Rinse: Toggles between the X-ray/Rinse and the previous preset positions. The dental light turns off when the chair is positioned for X-ray/Rinse and turns on when it returns to its previous position.

Test the System

Complete the following checklist, then follow up with the customer.

- Dental chair is securely anchored to the floor
- Chair functions properly, including the chair's lift, tilt, and programmable functions controlled by the touchscreen and foot switch
- Armrests function properly
- Swivel brake functions properly
- Headrest functions properly
- Upholstery is securely installed

Install the Covers



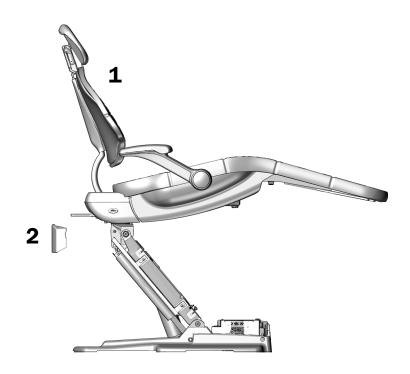
WARNING Shock hazard. When you remove or replace the covers, take care not to damage any wiring or tubing. Verify that the covers are secure after you replace them.

Install the Chair and Floor Box Covers

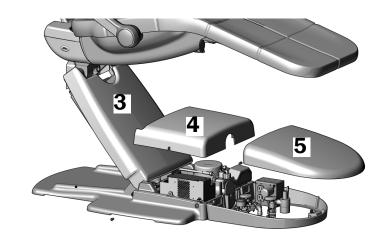
Recommended Tool

• 3/16" hex key

- **1** Raise the chair to full base up.
- **2** Snap the mount cover in place on the chair.



- **3** Snap the lift arm cover onto the casting tabs.
- **4** Use a hex key and two screws to attach the pump cover.
- **5** Snap the floor box cover into place.



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.



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



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