

Simplicity by DentalEZ™ Chair



Installation, Operation and Care Manual

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This manual contains the installation, operation and care instructions and user service information for the Simplicity by DentalEZ™ Chair.

The Simplicity Chair is designed to provide trouble-free service when installed, operated and cared for according to the procedures set forth in this manual.

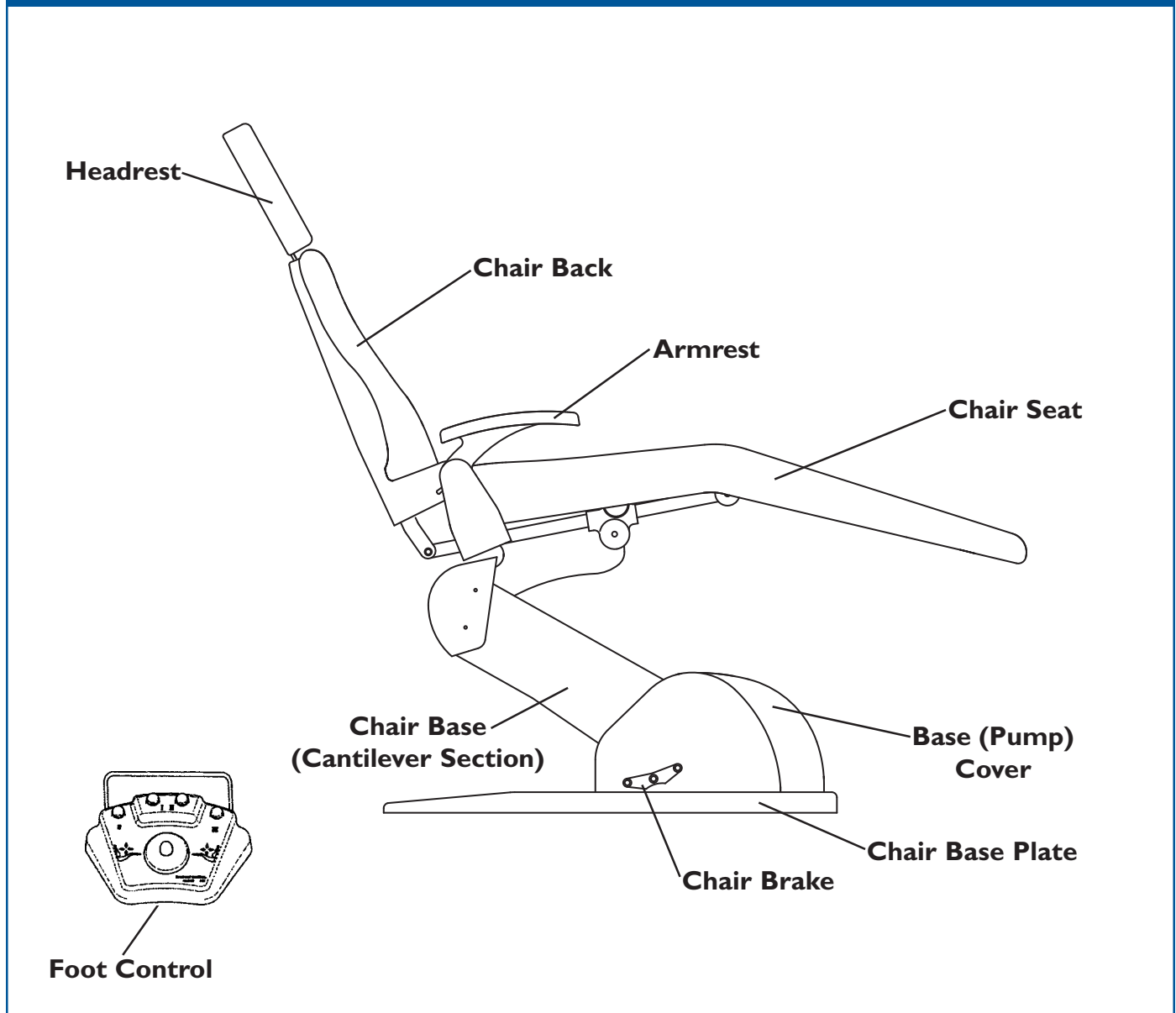
To ensure proper installation, carefully read all the instructions contained in this manual paying close attention to all warnings, cautions and notes.

Before starting installation procedures, please review the illustration below to become familiar with the components of the Simplicity Chair.

After the Simplicity Chair is installed, please review the features, operation procedures and care guidelines with the doctor's staff.

Then **leave this manual in the doctor's office** for the doctor's and the staff's future reference.

Components



Specifications

Electrical:

Classification: Class 1, Type B
Operation Mode: Duty Cycle: Intermittent, 25 sec.
 ON - 300 sec. OFF
Supply Voltage: 115 VAC, 50/60 Hz, as applicable
 230 VAC, 50/60 Hz, as applicable
Fuse Type M: F1/F2 - 10A, F3 - 100mA
 F1/F2 - 6.3A, F3 - 63mA
Control Voltage: 5VDC

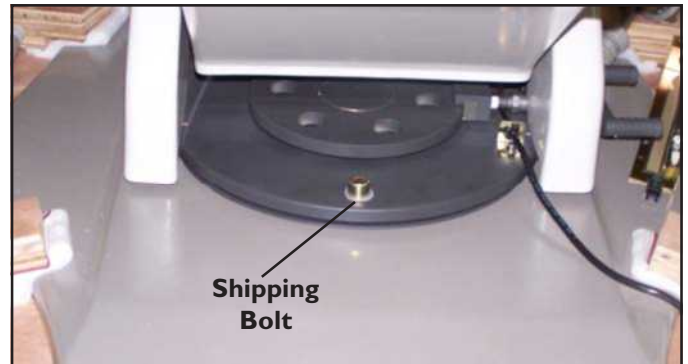
Mechanical:

Min. Installation Space: 10' x 10' (3m x 3m)
Base Plate Footprint: 35" x 25" (90cm x 65cm)
Total Lift Capacity: 450 lbs.
Max. Patient Weight: 300 lbs.
Delivery System Capacity: 125 lbs.
Empty Weight: 300 lbs.
Package Weight: 396.9 lbs.
Shipping Dimensions: 57"L x 32"H x 34"W

Transportation and Storage Conditions

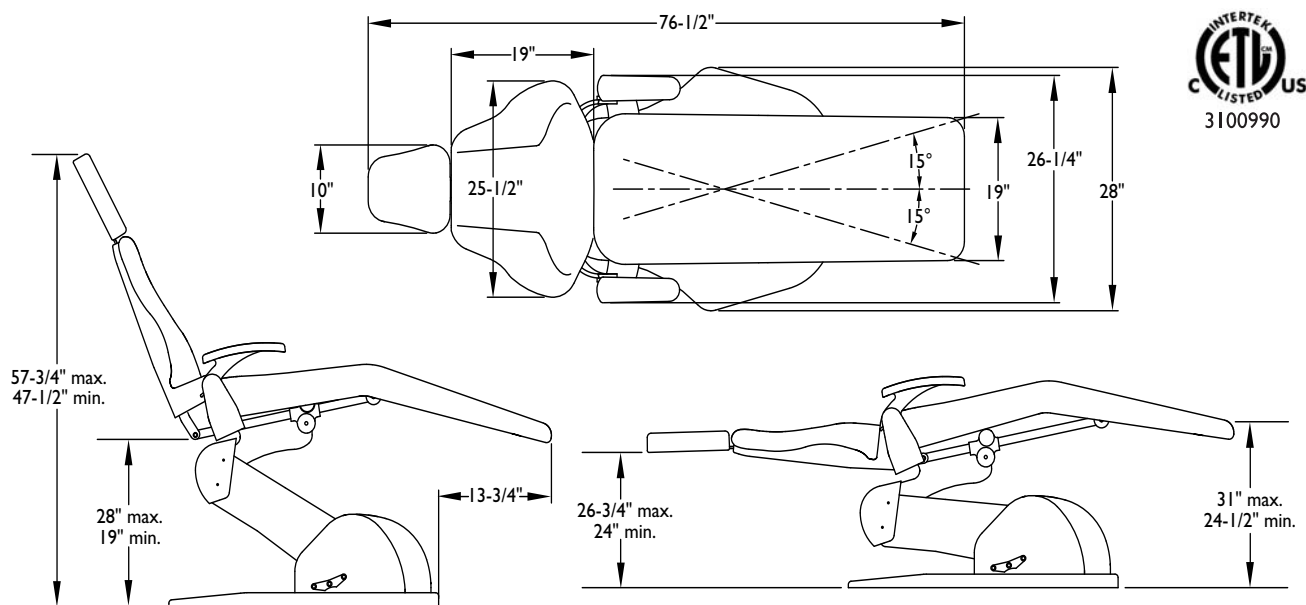
— CAUTION —

Before attempting to move the chair, it must be lowered to its lowest position and locked in place at zero degrees rotation. **Install the shipping bolt.** It is strongly recommended that accessories, such as lights and units, be removed before moving.



Temperature: -5° C to +40° C
Relative Humidity: 10% to 100% non-condensing
Air Pressure: P=500hPa to 1060hPa

Dimensions



The Simplicity by DentalEZ™ Chair offers state-of-the-art design for optimum operatory performance with complete work comfort and unrestricted patient access. In order to achieve the most efficient use in the operatory and understand what the Simplicity Chair offers, here is a compilation of some features and benefits:

Standard

- ◆ Ergonomically designed base plate provides the dental team with free movement from 9:00 to 12:00 positions.
- ◆ Thin tapered back for better access to the oral cavity
- ◆ Quiet and smooth hydraulic system for superior stability and smooth, quiet operation
- ◆ Four operator-programmable positions increase efficiency by reducing the time needed for chair adjustment.
- ◆ Cast iron chair frame and aluminum casting chair back, armrest, headrest and base for durability

- ◆ Swing down arms for easy patient entry/exit and allow the dentist to easily change from left to right without any tools.
- ◆ Chair brake positioned on doctor's side for ease of use.
- ◆ Foot control provides easy and rapid patient positioning.
- ◆ Chair brake positioned on doctor's side for ease of use.
- ◆ Naugahyde upholstery
- ◆ A base safety switch feature ensures nothing gets caught underneath the base as it lowers. (*See Operation Section.*)

Optional

- ◆ Dual articulating or magnetic headrest (*catcher's mitt or dual durometer*)

— NOTICE —

For any questions about an order, please contact a DentalEZ Equipment customer service representative at **1-866-DTE-INFO**.

Unpacking

— CAUTION —

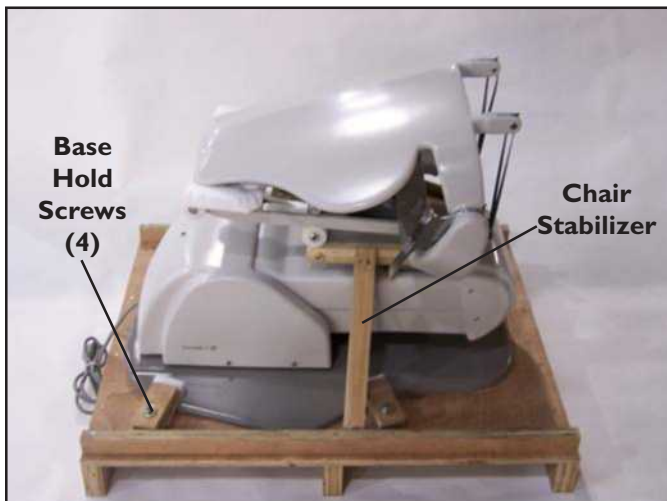
To avoid damage, do not use a knife or sharp objects to open packaging.

Tools Required:

- Wire Cutters
- Adjustable wrench
- Phillips-head Screw Driver

Chair Carton

1. Remove the outer strapping and wood screws from the wooden box.
2. Remove the outer box top.
3. Remove all plastic wrapping and foam.
4. Using a Phillips-head screw driver, remove the chair stabilizer.



5. Using wire cutters, remove all strapping.
6. Using an adjustable wrench, remove four base hold screws.

— WARNING —

The chair weighs approximately 300 lbs. Use assistance to remove the chair from the pallet. Failure to do so may result in serious back injury.

7. Remove the chair from the pallet and place it in the desired location before doing any other installation.
8. Remove the foot control from the box and place it in the desired position.

— WARNING —

DO NOT CONNECT the chair **POWER** cord until all shipping hardware is removed.

9. Connect the chair power cord to a power outlet.
10. Using the foot control, raise the chair base to its maximum height and remove the rotational stabilizer screw from the rotation base. Then cover the screw hole with a plastic cap found taped to the side of the foot control.

Upholstery Carton

Remove and set aside the following items from the Simplicity Chair upholstery assembly packaging:

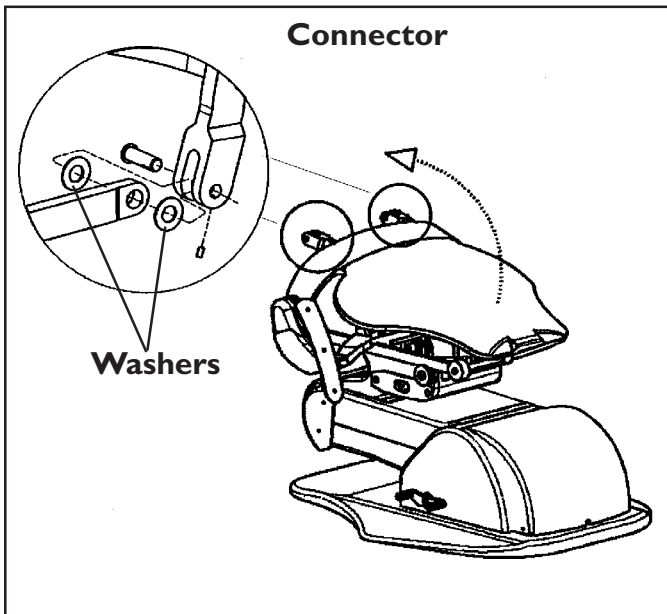
- Upholstered Back
- Upholstered Seat
- Upholstered Armrests
- Headrest
- Any ordered Options
- Hardware Package

Chair Placement

Taking into consideration the Simplicity Chair's specifications (*found on Page 3*), position the chair in its permanent location on a smooth, hard and level floor making sure nothing will interfere with its movement.

Chair Back

1. Lift the back rest to the upright position.
2. Following the diagram, on both sides, place two washers per seat arm. (The washers are glued in place.)



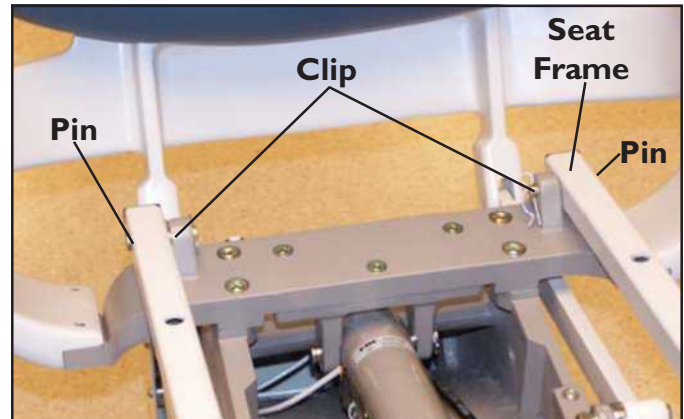
3. Line up the bracket holes and insert the connector pin.
4. Tighten the set screw located on the end of the back rest to hold the internal arm (1.5 alum. wrench required).

Delivery Units

Installation of chair-mounted and Magellan-style delivery units is recommended before upholstery installation. Follow the manufacturer's instructions supplied with the delivery unit.

Seat Frame

Install the seat frame to the chair base by inserting the two metal pins into the holes on each side of the seat frame and secure using the two metal clips.



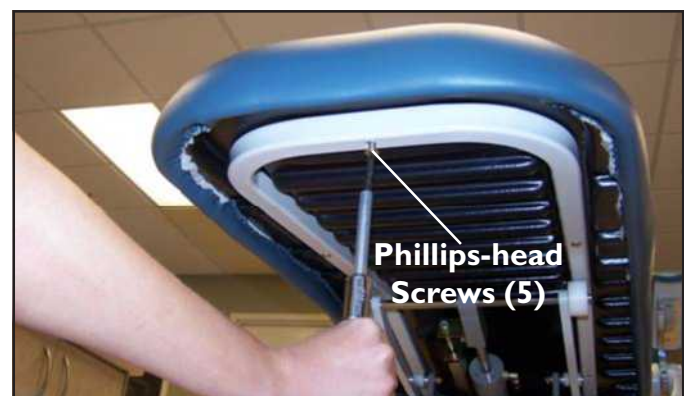
Upholstery

— CAUTION —

If the chair is part of an operatory, wait until entire installation is complete before installing upholstery. Failure to do so may result in damaging the upholstery.

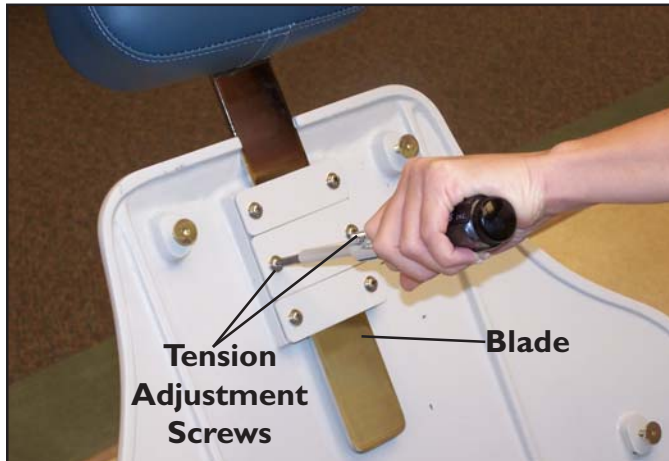
Seat Upholstery

1. Align the studs on the underside of the upholstered seat with the holes in the seat frame.
2. Using the five Phillips head screws provided, install the upholstered seat to the seat frame.



Headrest

1. Slide the blade of the standard fixed or double articulating headrest into the opening of the chair back casting.
2. Tighten the tension adjustment screws as necessary until the desired slide tension is reached.



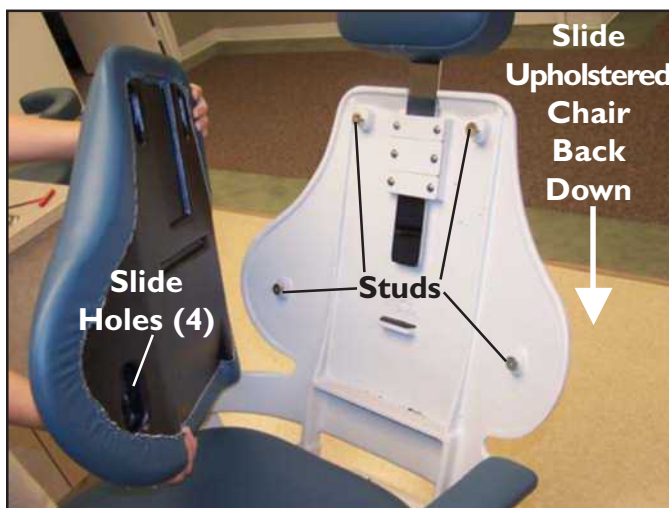
Armrests

1. Place each upholstered armrest onto the chrome-plated arm supports.
2. From the underside of each arm using two Phillips-head countersunk screws, attach each upholstered arm to the arm supports.



Back Upholstery

1. Align the two upper and two lower studs on the chair back casting with the slide holes on the back of the upholstered chair back.
2. Firmly press the upholstered chair back over the studs and slide the upholstered chair back down until all four studs are locked into place.



Installation Checklist

— NOTICE —

Before performing checklist task, make sure the area is at room temperature. Failure to comply can result in a faulty operation.

With someone sitting on the chair, run each function a few times to ensure proper function.

Does the rotational brake function properly?

Does the headrest stay in position after adjustment?

Is the foot control functioning correctly?

Do all chair functions operate smoothly and quietly?

Is the armrest locked into position?

Answering NO to any of the questions is a result of improper installation or a product malfunction. After ensuring all connections, call technical service.

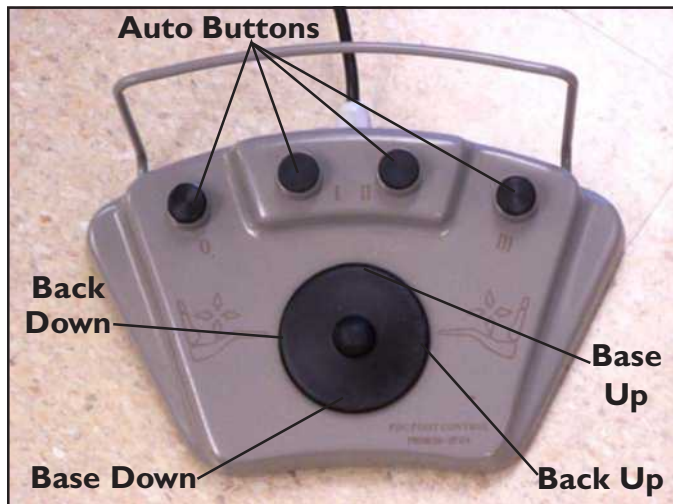
— WARNING —

To prevent possible injury because of accidental operation, do not leave young children unattended.

Manual Positioning

Manual positioning of the Simplicity Chair is accomplished by operating a touch pad control or foot control -or using two separate controls. To operate these controls:

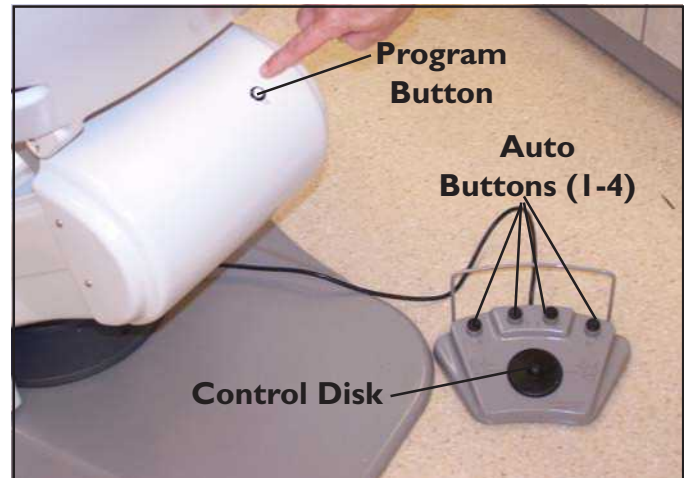
1. Select the direction of travel.
2. Depress and release the corresponding button and the chair will move to a factory-set travel limit. *Holding the directional button makes the chair run until the button is released.*



Automatic Positioning

Programming Auto Positions

1. Using the control disk, follow the direction of the arrow to control the chair.
2. Press the program button momentarily and the chair will beep twice, indicating it is ready to assign this position to an auto button .



3. Press an auto button to assign it to this position. The chair will beep three times to indicate the program is complete.
4. Program failure is indicated by more than three beeps.

Activating Auto Positions

1. Depress the #1, 2, 3 or 4 auto button once on the foot control.
2. A beep will sound.
3. The chair will automatically stop in the programmed position selected.

NOTE: Pressing any button on a chair control module while the Simplicity Chair is moving to a programmed position will immediately stop the movement of the chair, and three short beeps will sound. To continue and complete the automatic positioning of the chair, simply press the desired position button a second time.

Reprogramming Auto Positions

To change a programmed position, simply maneuver the Simplicity Chair to the desired position and follow the Programming Auto Positions instructions described earlier in this Section.

NOTE: Reprogramming a new auto position erases the old position.

Base Safety Switch

1. When the base cantilever section lowers and contacts an obstruction, the cover on the underside of the cantilever section moves up and activates safety switches.
2. Motion of the base stops immediately and the chair emits a constant short warning beep.

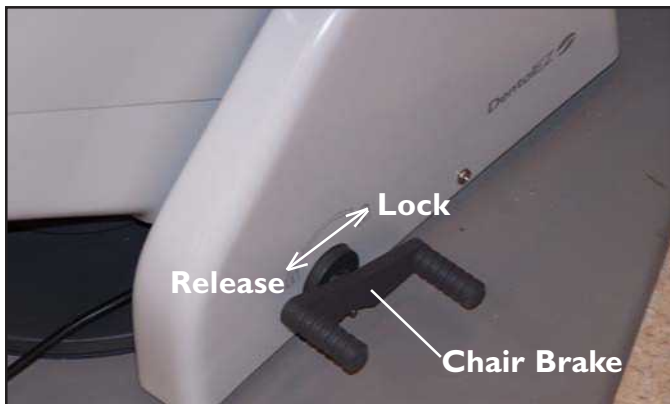
NOTE: *As long as the safety switches are activated, the base will not lower any further. All other chair functions, except auto programs, are still available. If the chair is moving to an auto position and the base cover moves up activating the safety switches, auto positioning will stop.*

3. Moving the base up and off the obstruction deactivates the safety switches and silences the warning beep.

Chair Rotation

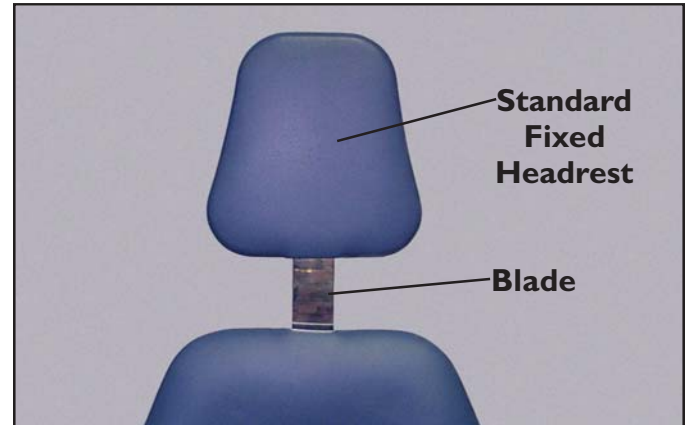
The Simplicity Chair will swivel approximately 15° to either side of its center position. To swivel the chair:

1. Release the chair brake located on the side of the pump cover by stepping on the brake handle as shown below.
2. Swivel the chair to the desired position.
3. Lock the chair brake by stepping on the brake as shown below.



Headrest Positioning

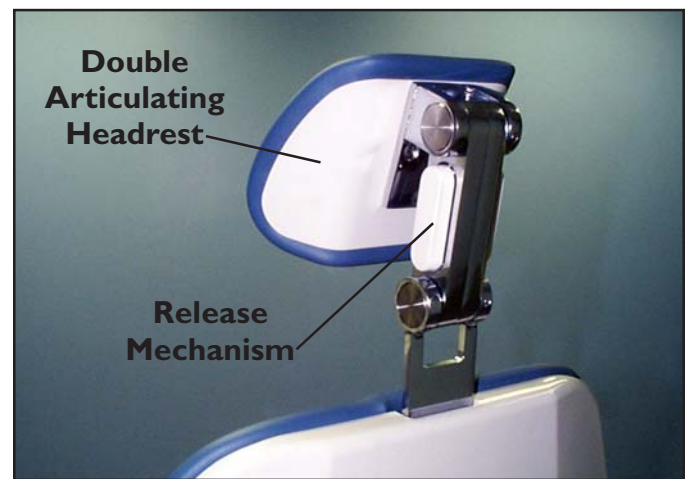
Firmly push down or pull up the blade from the chair back to change the headrest height.



Double Articulating Headrest

To position the double articulating headrest:

1. While facing the back of the headrest, fully depress the release mechanism on the left.
2. Keep the release mechanism depressed and tilt the headrest until the desired position is reached.
3. Release the mechanism to lock it in place.



NOTE: *The use of disposable headrest covers is recommended to prevent soiling of the headrest. These covers may be purchased through a local dental supplier.*

Armrests

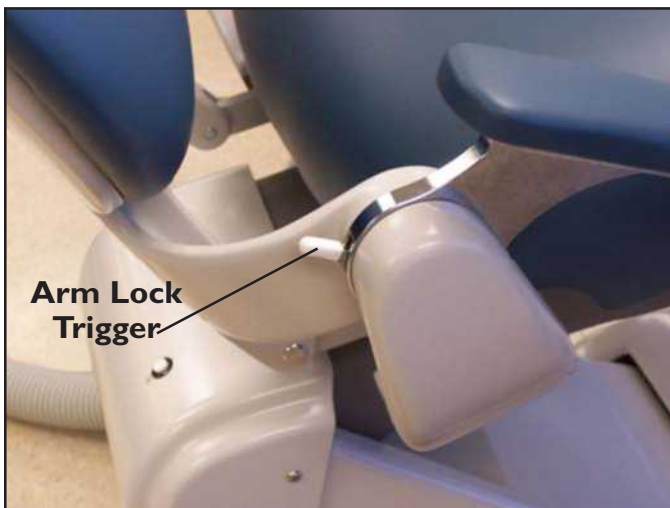
The Simplicity Chair's armrests are designed to be lowered allowing patient entry and exit from either side.

— CAUTION —

The armrests **SHOULD NOT** be used as a means of support when entering, exiting or leaning against the chair.

To lower and raise the armrest do the following:

1. Pull up the arm lock trigger located under the lower arm assembly and lower the armrest.



2. Lift up the lowered end of the armrest until the armrest stop clicks into place locking the armrest in position.

— WARNING —

Improper cleaning and disinfection techniques could lead to cross-contamination. Therefore, prior to each use, properly clean and disinfect the chair's exterior in accordance with normal dental procedures.

Before attempting to clean or disinfect the Simplicity Chair, please read the following instructions carefully.

— NOTICE —

The upholstery cleaning/disinfecting information contained in this Section is not a guarantee but represents highly recommended procedures obtained from the upholstery manufacturers.

Cleaning**— IMPORTANT —**

Pay strict attention to all the cleaning product manufacturer's warnings and cautions.

Because any cleaning product may be harmful or irritating:

- ✓ Use protective gloves and eye protection in a well ventilated area.
- ✓ Do not inhale or swallow any cleaning product.
- ✓ Protect surrounding surfaces and clothing from exposure.

When using strong cleaning agents, such as bleach or alcohol, it is advisable to first test them in an inconspicuous area to be certain they will not damage the upholstery, plastic or metal surfaces of the Simplicity Chair. *(Results may vary under actual conditions.)*

— CAUTION —

Cleaning agents, other than household bleach or rubbing alcohol, may contain harsh or unknown solvents. Also, these other cleaning agents are subject to formula changes made by the manufacturer without notice.

Chair Upholstery

1. **To remove light soil:**
 - a. Prepare a solution comprised of one part household dish washing liquid and nine parts warm water.
 - b. Apply the dish washing liquid solution to the upholstery using a sponge or soft, damp cloth. *If necessary, a soft bristle brush may be used.*
 - c. Using a soft cloth dampened in clean water, wipe away any residue and dry.
2. **To remove heavy soil:**
 - a. Dampen a soft, white cloth with lighter fluid (naphtha) and rub the area gently.
 - b. Using a soft cloth rinse thoroughly with clean water and pat surface dry.
3. **To remove stains using bleach:**
 - a. Prepare a solution comprised of one part household bleach (sodium hypochlorite) and nine parts water.
 - b. Apply the bleach solution to the stain using a dampened, soft, white cloth.
 - c. Allow the bleach solution to puddle on the affected area, or apply a bleach solution-soaked cloth to the area for approximately 30 minutes.
 - d. Using a soft cloth dampened in plain water, rinse the treated area thoroughly to remove any bleach residue.
4. **To remove stains using alcohol:**
 - a. Dampen a soft, white cloth with rubbing alcohol and rub the stain gently.
 - b. Using a soft cloth dampened in clean water, rinse the treated area thoroughly to remove any alcohol residue and pat dry.
5. **To restore luster:**
 - a. Apply a light coat of spray furniture wax containing lemon.
 - b. Wait 30 seconds and lightly buff the surface using a clean, white cloth.

Plastic and Coated Metal

— CAUTION —

NEVER use abrasives or petroleum-based cleaners on any plastic or coated metal surfaces unless otherwise specified.

Surfaces

1. To remove ordinary dirt:

- Prepare a soapy solution comprised of household dish washing liquid and water.
- Using a soft cloth or sponge, apply this soapy solution to the plastic and coated metal surfaces.

NOTE: To remove heavier dirt, apply *Formula 409® or Fantastik® Spray Cleaner.

- Wipe area dry immediately using a soft cloth.

2. To remove stubborn stains:

- Apply a mild abrasive such as toothpaste or liquid tooth polish using a soft, white cloth.
- Using a chamois or moist sponge, remove all traces of the mild abrasive.
- Dry the area thoroughly to prevent marking.

* Formula 409® is a trademark of the Clorox Company; Fantastik® Spray Cleaner is a trademark of the Texize Division of Dow Products, Inc.

Metal Surfaces and Chrome Parts

For ordinary dirt, fingerprints, etc., use a non-abrasive, all-purpose cleaner.

Disinfecting

Upholstery

The Simplicity Chair's upholstery is comprised of a sulfide stain, oil and mildew resistant material which provides outstanding protection in difficult medical and health care environments. This material contains antibacterial/antimicrobial agents that are effective against some of the following microorganisms:

Bacterial Species:

- ◆ Bacillus Subtilis/Cersus/Mycoides
- ◆ Staphylococcus Aureus
- ◆ Oseydinibas Aeruginosa
- ◆ Aerobacter Aerogenes
- ◆ Proteus Vulgaris
- ◆ Brevibacterium Species
- ◆ Streptomyces Rubrreticuli
- ◆ Escherichia Coli
- ◆ Klebsiella Pneumoniae
- ◆ Pseudomonas Aeruginosa

Fungal Species:

- ◆ Aspergillus Niger
- ◆ Aspergillus Flavus
- ◆ Penicillium Funiculosum
- ◆ Penicillium Islandicum
- ◆ Chaetonium Globosum
- ◆ Trichoderma Species
- ◆ Auerobacidium Pullulene
- ◆ Candida Albicans

High-Level Disinfection

The Simplicity Chair's upholstery material is formulated to withstand high-level disinfection, which is required in medical/dental applications. Disinfectant products that contain sodium hypochlorite (household bleach) can be used full strength or with gluteraldehydes.

Intermediate-Level Disinfection

This level of disinfection is achieved by applying either rubbing alcohol or a solution comprised of one part household bleach (sodium hypochlorite) and nine parts water. Because sodium hypochlorite is easier to apply, its use is preferred over rubbing alcohol. To achieve intermediate-level disinfection, rubbing alcohol must remain puddled on the upholstery's surface until evaporation is complete.

All Other Chair Surfaces

*Cavicide™ is recommended for disinfecting all other surfaces of the Simplicity Chair. The use of any disinfectant, other than Cavicide™, may cause premature staining, discoloration or damage to the Simplicity Chair's materials.

*Cavicide™ is a trademark of Micro Aseptic Products, Inc.

Programming Travel Limits

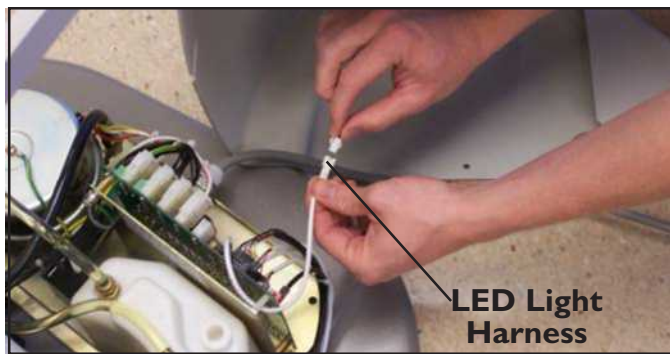
Tools Required

- Phillips Screwdriver
- Tape Measure

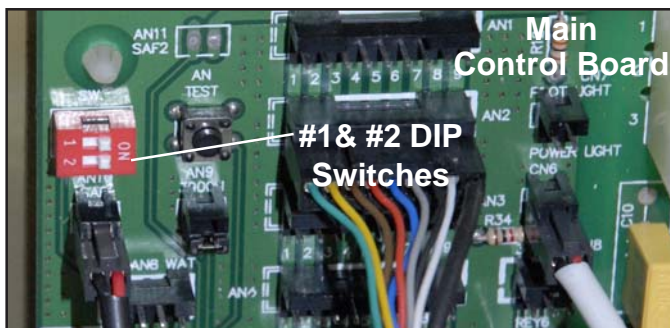
1. Remove the four Phillips-head screws on the pump cover.



2. Unplug the LED light harness and set the pump cover aside.



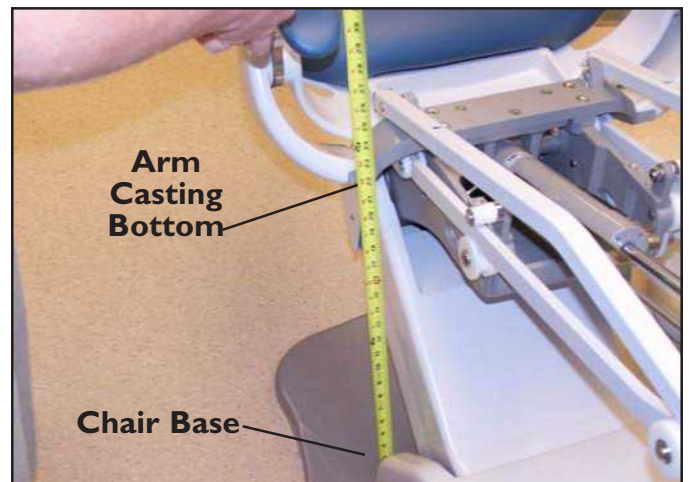
3. On the main control board, turn the DIP switches #1 and #2 to the **ON** position (*to the right*).



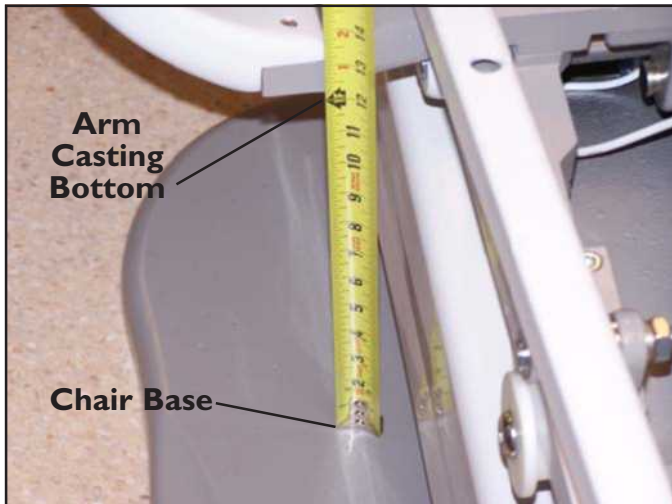
NOTE: When DIP switches #1 and #2 are in the **ON** position, the chair will not operate unless the **M** (memory) button is held down.

4. While holding the **M** button, located at the rear of the chair, use the foot control to make sure the base is moved all the way down and the chair back is all the way down.
5. While holding the **M** button, run the chair to the maximum height, then come down until **22"** measures from the flat part of the floor plate to the bottom of the arm casting. When in this position, release the **M** button. Push and release the **M** button and press the **0** button on the foot control. (*Base up is now set.*)

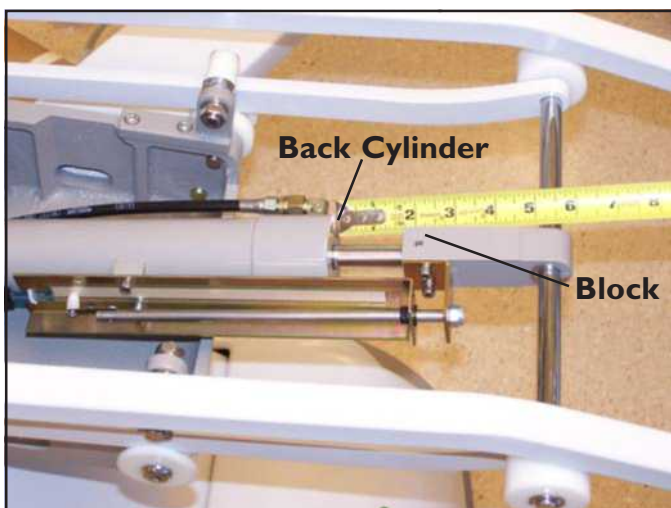
NOTE: Three beeps confirm the setting is correct and six beeps represent failure to set the soft limit.



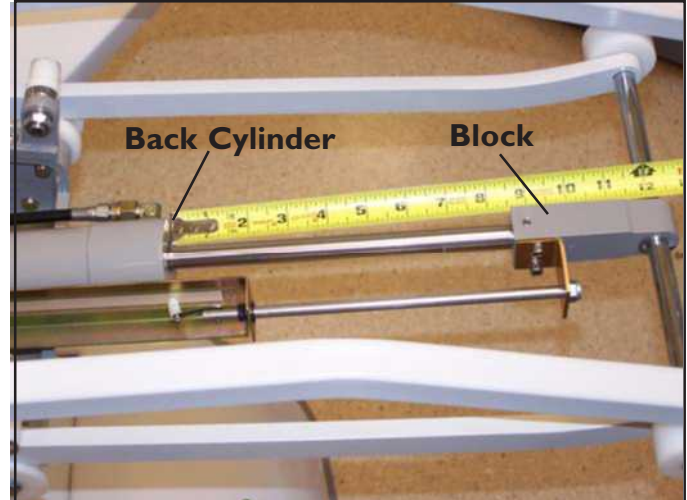
6. Hold down the **M** button and run the chair base all the way down then come up until **12"** measures from the flat part of the floor plate to the bottom of the arm casting. When in this position, release the **M** button. Push and release the **M** button and press the **I** button on the foot control. (*Base down is now set.*)



7. Hold down the **M** button and run the chair back all the way up then come back down until **1.75"** measures between the back cylinder and the back block. When in this position, release the **M** button. Push and release the **M** button and press the **II** button on the foot control. (*Back up is now set.*)



8. Hold down the **M** button and run the chair back all the way down then come back up until **8.5"** measures between the back cylinder and the block. When in this position, release the **M** button. Push and release the **M** button and press the **III** button on the foot control. (*Back down is now set.*)



9. Programming the chair is now complete. Place the #1 and #2 DIP switches back into the original position. Reattach the light harness and reinstall the pump cover using four Phillips-head screws.

Service Instruction

If the area of concern is not addressed in this manual, contact your local DentalEZ full-service dealership. Please have the following product information available:

- Model Name _____
- Model Number _____
(*found on the seat mount casting*)
- Serial Number _____
- Date of Installation _____

DentalEZ Group

DentalEZ Equipment Division

Simplicity by DentalEZ™ Chair

The DentalEZ Group and its employees are proud of the products we provide to the dental community. We stand behind these products with a warranty against defects in material and workmanship as provided below.

In the event that you experience difficulty with the application or operation of any of our products, please contact our Technical Service Department at our expense at 1-866-DTE-INFO (1-866-383-4636).

If we cannot resolve the issue by telephone, we will arrange for a representative to contact you or suggest that the product be repaired by a dealer service technician.

If product repair or return is required, we will provide you with a **Return Authorization** number and shipping instructions to return the product to the proper facility. If the product is under warranty, we will ask you to provide proof of purchase, such as a copy of your invoice. Please be sure to include the **Return Authorization** number on the package you are returning. **Products returned without a Return Authorization number cannot be repaired.**

Freight costs for product returns are the responsibility of the customer. Products under warranty will be repaired or replaced at our sole discretion and returned at our expense. Products outside the warranty limits will be repaired and returned with costs invoiced to the customer. We are not responsible for shipping damages. We will, however, help you file a claim with the freight carrier. Written repair estimates are available.

DentalEZ warrants the Simplicity by DentalEZ Chair to be free from defects in material and workmanship, under normal usage under the following terms.

The following items are covered under this warranty for a period of three (3) years from the date of installation:*

- Structures: Base Plate, Castings, Chair Seat and Back
- Hydraulic System: Cylinders, Solenoid Valves and Pump
- Electronics: Master Circuit Board and Foot Control Circuit Board, Chair Control

The upholstery package is covered under this warranty for a period of one (1) year from the date of installation.

Please note the following additional terms of our warranty and return policy:

- Warranties cover manufacturing defects only and do not cover defects resulting from abuse, improper handling, cleaning, care or maintenance, normal wear and tear or non-observance of operating, maintenance or installation instructions. **Failure to use authorized parts or an authorized repair facility voids this warranty.**
- **Liability is limited to repair or replacement of the defective product at our sole discretion. All other liabilities, in particular liability for damages, including, without limitation, consequential or incidental damages are excluded.**
- **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO EMPLOYEE, REPRESENTATIVE OR DEALER IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR TO GRANT ANY OTHER WARRANTY.**

WARRANTY REPAIRS: Parts repaired or replaced on a product that is in warranty will be warranted for the duration of that product's original warranty.

NON-WARRANTY REPAIRS: The warranty on parts either repaired or replaced on an out-of-warranty product will cover the repaired part only and will be for the time frame of a new parts warranty period.

PRODUCT RETURN: Opened products or product returns more than a year old cannot be returned for credit. There will be a 15% (\$25.00 minimum) restocking charge on all items authorized for return.

** Provided conditions defined in the Installation, Operation and Care Manual are met.*

Simplicity by DentalEZ is a trademark and DentalEZ is a registered trademark of DentalEZ Group.
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