aXcs® Chair
MODEL aXcs-2

Installation, Operation and Care Manual
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Wiring Schematic
Section I  Introduction

This manual contains the installation, operation and care instructions and user service information for the DentalEZ aXcs® Chair.

The DentalEZ aXcs® 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 DentalEZ aXcs® Chair.

After the aXcs® 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.
**Section I  Introduction**

**Specifications**

**Electrical Power:** 15 amp fused Branch Circuit
- 115 VAC, 50/60 Hz, as applicable
- 220 VAC, 50/60 Hz, as applicable

**Shipping Weight:** Chair Carton: 356 lbs.
- Upholstery Package: 36 lbs.

**Approvals:** Standard models are:
- UL Listed  File E34585  115 VAC only
- CSA Certified  File LR67706  115 VAC only

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**Dimensions**

- **76.5”**
- **61.5”**
- **23.25”**
- **21.75”**
- **18.5”**
- **10.125”**
- **25”**
- **14.25”**
- **38”**

- **29.5” (HIGH)**
- **15.25” (LOW)**
Section II Features

The DentalEZ aXcs 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 aXcs Chair offers, here is a compilation of some standard and optional features:

### Standard

#### Ergonomic/Comfort Features

The aXcs Chair allows total patient placement flexibility to create the most comfortable working position for the patient and dental team. Some of these ergonomic and comfort features are:

- Base plate is shaped to allow the operator's stool free movement for unrestricted access.
- The ergonomically designed headrest allows the operator closer, more comfortable access to the patient's oral cavity while comfortably supporting the patient's head and neck.
- Low profile pivot assembly makes the chair comfortable for almost any operator.
- Backrest design provides superior back support to patients.

#### Design Features

- A special (base up) installation mode raises the base to its upper limit without the use of a controller. (See Installation Section.)
- Self diagnostics is possible via a series of visual display signals (LED codes) and audible signals (beep codes) making each function and control condition easy to track. (See User Service Section.)
- The touch pad control can be programmed to offer four pre-set positions.
- Every aXcs Chair can accommodate up to two controls. (See Installation Section.)

- Base plate is cast from aluminum and will not rust or corrode.
- Chair mount enclosure attractively covers and protects the chair support mechanism.
- Hydraulic, cantilever-style base provides superior stability and smooth operation.
- The virtually silent hydraulic motor eliminates distraction.
- Foot control design incorporates buttons that easily respond to operators touch.
- Sliding adjustment mechanism makes positioning the headrest simple.
- Chair-mounted and Magellan-style delivery units can be mounted.
- Durable one-piece molded chair covers provide smooth, seamless surface for easy cleaning.
- Upholstery is removable and replaceable.

### Safety Features

- A base safety switch feature ensures nothing gets caught underneath the base as it lowers. (See Operation Section.)
- A positive lock chair back eliminates the possibility of the chair back slipping out of the desired operatory position. (See Operation Section.)

### Optional

- Air glide feature lifts the chair off the floor allowing free and easy positioning. (See Installation/Operation Section.)
- An AC light receptacle outlet can be added to the chair's AC power. (See Installation Section.)
- Light can be operated using the auxiliary light relay button on the touch pad control. (See Installation Section.)
Section III Pre-installation

Unpacking

Tools Required:
- Pliers
- 1/2" Socket and Ratchet
- Large Flat-head Screwdriver

Chair Carton

1. Fold back the flap at the toe end of the seat pan. Then lift the toe up, pull the seat pan forward and remove the seat pan.

2. Using pliers, remove the staples that secure the shipping carton to the wooden pallet.

3. Remove the carton and packing inserts from the pallet by lifting up and over the chair base.

4. Using a 1/2" socket and ratchet, remove the two bolts that secure the chair base to the shipping pallet.

5. Using a large flat-head screw driver pry off two wood blocks from either side of the pallet.

6. Grasp the chair mount casting, pull the chair to the side and carefully slide it off the pallet.

--- WARNING ---
The aXcs Chair is shipped with a retaining strap to secure the base mechanism. DO NOT REMOVE this strap until the chair is out of the carton and in its position on the floor.

--- CAUTION ---
If the chair is equipped with the air glide option, do not slide the base across the floor. Damage to the air caster may occur.

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

Chair Placement

Upholstery Carton

Remove and set aside the following items from the aXcs Chair upholstery assembly packaging:
- Upholstered Back
- Upholstered Seat
- Upholstered Armrests
- Headrest
- Chair Controls
- Any ordered Options
- Hardware Package

1. Taking into consideration the aXcs 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.

**NOTE:** If the chair is equipped with an air glide option, remove the protective cardboard cover from the rear section of the base plate.

2. Remove the retaining strap that secured the base mechanism during shipment.
Section IV  Installation

— WARNING —

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

Tool Required:

- Phillips Screwdriver

Special Installation Mode

The aXcs Chair is shipped in a special installation mode. In this mode, just the chair base rises to its upper limit without the use of a controller.

When the chair power is connected, the chair base will automatically rise until it contacts the base upper limit switch and stop. Then, the chair base will lower itself slightly to its final resting position.

While the chair is in this special installation mode, it will emit a constant fast beep. Even after the base has stopped its motion, this beep will continue as a reminder that the chair is in its special mode.

Raising the chair base will give better access to the base cover rear screws making removal of the base cover easier. It will also provide extra work space to service the chair or install any chair-mounted units.

To take advantage of this special installation mode, perform the following six steps:

1. After all shipping hardware is removed and the chair is in its permanent location, connect the chair power cord to the required power source.

2. The chair base will automatically rise as described above.

3. After the chair releases itself from the upper limit switch, unplug the chair power cord.

NOTE: To stop the base at any desired position less than its final resting position, simply disconnect the chair power cord.

4. Using a Phillips screwdriver, remove the four screws that secure the base cover. (See photos above.)

5. Gently lift off the base cover and set it aside.

NOTE: The base cover remains off the chair until installation is complete.

6. To take the chair out of its special installation mode, make sure the chair power is disconnected and set the #1 DIP switch located on the main control board to the ON position.
Section IV  Installation

Preparing Chair

— CAUTION —
The hydraulic system is shipped with a plug in the reservoir to prevent spillage during shipment. This plug MUST be removed prior to operating the chair.

1. Remove the rubber shipping plug from the reservoir vent hole.
2. Leave the plug on top of the reservoir cap for future use.

Chair Back

1. Remove the link pin and E-rings from the chair back connector.
2. Press the plastic spacers into the inside of the seat back connecting arm.

3. Lift up the chair back casting to its normal, upright position and align the holes in the chair back connector with the holes in the seat back connecting arm.
4. Slide the link pin through the chair back connector, seat back connecting arm and plastic spacers.
5. Force the E-ring into the groove of the link pin.

Connecting Controls

The aXcs Chair can accommodate one or two separate controls. The different combinations of utilizing an aXcs Chair touch pad control and a foot control is depicted in the table below:

<table>
<thead>
<tr>
<th>Number of Controls</th>
<th>Location of Control(s)</th>
<th>Foot Control</th>
<th>Single Touch Pad</th>
<th>Second Touch Pad</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>Chair</td>
<td>X or</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Delivery Head</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rear Asst. Arm</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two</td>
<td>Chair</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>Chair &amp; Delivery Head</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rear Asst. Arm</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Delivery Head &amp; Rear Asst. Arm</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Section IV Installation

**Single Control**

If connecting a single control, connect it to the **M** (main) wiring harness connector.

**Two Controls**

If connecting two controls, connect the second control to the **A** (auxiliary) wiring harness connector.

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**CAUTION**

To prevent air caster damage, **DO NOT EXCEED 20 PSI**. If bouncing should occur, reduce the air pressure as required.

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1. Place the aXcs Chair on a smooth, hard and level (vinyl, tile or terrazzo type) floor.
2. Connect the air glide tubing to a regulated air supply source (80 PSI on most dental units).
3. Adjust the air regulator located on the base chassis to 15-20 PSI.
4. Actuate the air toggle switch at the rear of the chair on the base cantilever section cover.

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**Options**

**Air Glide**

**NOTE:** If the air glide option was ordered, the air regulator was attached to the base chassis before the chair was shipped.

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**IMPORTANT**

For proper air glide operation, the floor **MUST** be level and have a smooth, hard and non-obstructive surface.
Section IV Installation

Light Receptacle

An AC power connector is supplied with each aXcs Chair to accommodate a light (up to 2 amps).

The AC power connector is located on the right side of the seat mount casting.

A light having the proper connector can attach directly to the AC power connector, or a light receptacle plug can be installed.

To install the aXcs Chair light receptacle option, proceed with the following steps:

1. Raise the chair base and back to their full UP position.
2. Disconnect the chair power.
3. Connect the light receptacle connector to the chair AC power connector.
4. Using the tie wrap provided, secure the light receptacle cord to the back cylinder.

Auxiliary Light Relay

To install the auxiliary light relay option, proceed with the following steps:

1. Make sure the chair power is disconnected.
2. Review the wiring schematic printed on the side of the relay. Take note of the positions for the DC positive (+) and negative (-) connections. There are two male 3/16” spade connectors on the relay.
3. Using the screws and nuts supplied with the auxiliary light relay, mount the relay to the main control board mounting plate.
4. Plug in the DC relay wires according to the schematic. The red/white positive (+) and black negative (-) wires with female 3/16” spade connectors are located on the wiring harness above the relay.
5. Locate the jumper in the black AC wiring below the relay and remove the short black jumper with the male 1/4” spade connectors.
6. Plug the two female 1/4” spade connectors into the male 1/4” spade connectors on the relay.

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.
Section IV  Installation

NOTE: All the upholstery installation hardware is attached to the upholstered chair back.

**Back Upholstery**

NOTE: Make sure the blind grip fasteners are firmly secured to the back of the upholstered chair back.

1. Align the two upper and two lower blind grip fasteners on the upholstered chair back to the studs on the chair back casting.
2. Firmly press each blind grip fastener onto its corresponding stud.
3. Tug on each stud location to ensure the upholstered chair back is secure.

2. Place the magnetic headrest cushion on the fixed headrest.

**Armrests**

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

**Headrest**

1. Slide the blade of the standard fixed or double articulating headrest into the opening of the chair back casting.

**NOTE:** If installing the optional IV arm support, follow the accompanying installation instructions.
Section IV  Installation

Seat Upholstery

1. Using six pan-head screws, attach the seat cushion assembly to the seat pan.

4. Replace the two retaining rings and pivot pins making sure the pins are inserted from the inside towards the outer ends of the seat.

5. Lower the seat so it rests on the seat casting.

2. Remove the two retaining rings and pivot pins from the seat pan.

6. Using two Phillips-head screws with plastic covers attach the brake cover to the chair. Then snap the covers over the screws.

3. Place the seat assembly, with the cutout end toward the back of the chair, on the seat mount casting.

— CAUTION —
Overtightening the screw will cause the snap cover not to function properly.
— WARNING —
To prevent possible injury because of accidental operation, do not leave young children unattended.

Manual Positioning

Manual positioning of the aXcs 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

NOTE: Any control (touch pad or foot) can be used to program the four auto positions. Once the auto positions are programmed, any connected control can be used to execute them.

Touch Pad Control

To establish the pre-sets using the touch pad control, refer to the aXcs Chair touch pad control illustration and perform the following steps:

1. Situate the chair in the desired auto position.
2. Press and hold the desired auto button (1, 2, 3 or 4) for approximately five seconds until a second beep is heard.

NOTE: The chair will beep once when the auto button is first depressed and beep again after the program is accepted.
3. Repeat Steps 1-2 to program the other three positions.

Foot Control

To establish the pre-sets using the foot control, refer to the foot control illustration below and perform the following steps:

1. Situate the chair in the desired auto position.
2. Press and hold the desired auto button (1, 2, 3 or 4) for approximately five seconds until a second beep is heard.
Section V  Operation

Activating Auto Positions

To activate the auto positions:

1. Depress the #1, 2, 3 or 4 button once on either the touch pad control or 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 aXcs 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 aXcs Chair to the desired position and follow the Programming Auto Positions instructions described earlier in this Section.

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

Command Time-out

When a function is moved or an auto position is activated, the chair assumes movement completion will take no longer than 45 seconds.

If a function button has been held down or an auto position has not completed in this allotted time, the chair will reset itself and restart as though it were being powered up. If a button is stuck on a controller, it will fail the calibration test when the chair restarts and the original command will be ignored. If an auto position was activated and for some reason could not be completed, the chair will not continue trying completion of this command when the chair restarts.

Silent Mode

Anytime a function position button is pressed, a short beep sounds letting the operator know a function move has started. These short beeps can be silenced by changing the #3 DIP switch to the OFF position. *(See Section VII, Dip Switch Settings for details.)*

Potentiometer Override Mode

In the event one of the two potentiometers used to measure each function's position on the chair cannot be read, the chair will automatically switch to a manual-only mode. In this mode, the chair can only be manually positioned, and the affected function's travel limits will be its limit switch position or physical limit.

A constant fast beep will sound while an affected function is being moved to alert the operator the function requires service. When the affected function is idle, no beep signal will sound. All other functions that are operating normally will maintain their programmed travel limits without audible signals.

Auto positions cannot be set or activated in this mode because at least one of the function's positions cannot be measured. If any auto position buttons are pressed, the chair will sound three short beeps to indicate auto positioning is not available and the chair is in manual-only mode.

Controller Functions/Modes

Controller Self-Calibration

When power is first connected to the chair, each attached controller having its associated DIP switch set to the ON position is tested and calibrated.

If a controller does not pass the calibration test, its commands are ignored and an associated LED code is generated letting the user know the controller failed the calibration test.

While the chair is idle, approximately every 15 minutes, the attached controllers are tested and calibrated to ensure they are working as expected.
Section V  Operation

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.

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.

Chair Rotation

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

1. Release the chair brake located on the back of the chair seat casting by moving the brake handle completely to the left.

2. Swivel the chair to the desired position.

3. Lock the chair brake by moving the brake handle to the right.

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.
Section V  Operation

Armrests

The aXcs 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.

Optional Features

Air Glide

The air glide option aids the operator in repositioning the chair. To operate the air glide option:

1. Make sure the chair is on a smooth hard, level and non-obstructive surface.

2. Activate the air toggle switch on the base cover at the rear section of the chair.

3. The rear of the chair base is supported by an air pillow and lifts off the floor.

4. When the base rear is raised, it allows the rollers on the front of the base plate to contact the floor.

5. While the chair is supported only by the rollers and air pillow, reposition the chair as desired.

Auxiliary Light Relay

The auxiliary light relay allows the operator to turn on an attached light and then control its on/off state using the touch pad control. To operate the auxiliary light relay option:

1. Depress the auxiliary light relay button once on the touch pad control.

2. One short beep will sound to alert the operator the light state has changed.

3. Pressing the auxiliary light relay button toggles the on/off state of the light.

Light Receptacle

(See Installation Section, Page 9.)
Section VI  Care

--- 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 aXcs 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 aXcs 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 dishwashing liquid and nine parts warm water.
   b. Apply the dishwashing 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 Surfaces

— CAUTION —

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

1. To remove ordinary dirt:
   a. Prepare a soapy solution comprised of household dishwashing liquid and water.
   b. 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.
   c. Wipe area dry immediately using a soft cloth.

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

* Formula 409® is a trademark of the Chexx 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 aXcs 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/Cerus/Mycoides
- Staphylococcus Aureus
- Oseydinibas Aeruginosa
- Aerobacter Aerogenes
- Proteus Vulgaris
- Brevibacterium Species
- Streptomyces Rubriteticuli
- Escherichia Coli
- Klebsiella Pneumoniae
- Pseudomonas Aeruginosa

Fungal Species:
- Aspergillus Niger
- Aspergillus Flavus
- Penicillium Funiculosum
- Penicillium Islandicum
- Chaetonia Globosum
- Trichoderma Species
- Aureobacidium Pullulene
- Candida Albicans

High-Level Disinfection

The aXcs 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 aXcs Chair. The use of any disinfectant, other than Cavicide™, may cause premature staining, discoloration or damage to the aXcs Chair's materials.

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

A DIP switch assembly, which is located at the top center of the main control board under the base cover, is used to set certain functions of the chair’s electronic control package.

--- IMPORTANT ---

Change DIP switches only while the chair power is disconnected. Once the chair power is reconnected, the main control board will recognize any changes made.

**NOTE:** The main control board expects at least one controller attached to the M (main) wiring connector. If there is no controller attached to either the M or A (auxiliary) connectors, the board will generate a service LED code that indicates one of the controllers needs checking.

<table>
<thead>
<tr>
<th>DIP Switch</th>
<th>State</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>ON</td>
<td>Controller M is ON and the board assumes a controller is connected.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Special installation mode (base automatically rises when power is connected.)</td>
</tr>
<tr>
<td>#2</td>
<td>ON</td>
<td>Controller A is ON and the board assumes a controller is connected.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Controller A is OFF and the board assumes no controller is connected.</td>
</tr>
<tr>
<td>#3</td>
<td>ON</td>
<td>Function command activation signal beeps are activated.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Function command activation signal beeps are silenced.</td>
</tr>
<tr>
<td>#4</td>
<td>ON</td>
<td>Travel limits programming mode.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Normal operation mode.</td>
</tr>
<tr>
<td>#5</td>
<td>ON</td>
<td><strong>Must be OFF for aXcs Chair.</strong> (3-function mode: base, back and seat.)</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td><strong>aXcs Chair default setting.</strong> (2-function mode: base and back/seat.)</td>
</tr>
<tr>
<td>#6</td>
<td>ON</td>
<td>Not used (for future features).</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Must be in OFF position.</td>
</tr>
</tbody>
</table>

**Beep Codes**

The aXcs Chair’s electronic control package is designed to sound specific beep code signals to alert the operator of certain control conditions. Understanding the beep codes enables the operator to isolate the condition and take appropriate action.

Base conditions are indicated by a constant short beep; back conditions by two constant short beeps.

Three short beeps indicate a function is not available when its button is pressed. A constant fast beep that sounds only when a function is moved indicates a potentiometer condition.

The beep code signal chart on the following page lists the audible sound, control condition and service action to take. The codes are also prioritized letting the user know that conditions listed above the indicated code are normal.
### Section VII  User Service Information

<table>
<thead>
<tr>
<th>Beep Code</th>
<th>Condition</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constant fast beep (FB)</td>
<td>Special installation mode (base automatically raises)</td>
<td>Disconnect the chair power. Move the #1 DIP switch to the ON position. Reconnect the chair power.</td>
</tr>
<tr>
<td>Constant short beep (SB)</td>
<td>Base lower safety cover contacted and moved up activating switches (LS2 &amp; LS3)</td>
<td>Move the base up and remove obstruction under cover.</td>
</tr>
<tr>
<td></td>
<td>Cover is jammed</td>
<td>Move cover around until it's free then push the cover up to make sure it's working properly.</td>
</tr>
<tr>
<td></td>
<td>Base upper limit switch (LS1) activated (base exceeded its upper travel limit)</td>
<td>Reprogram the chair's travel limits.</td>
</tr>
<tr>
<td>Constant (SB)(SB)</td>
<td>Back upper limit switch (LS4) activated (back exceeded its upper travel limit)</td>
<td>Reprogram the chair's travel limits.</td>
</tr>
<tr>
<td>Constant (SB)(SB)(SB)</td>
<td>Board cannot find a seat limit switch.</td>
<td>The board is in its three-function mode. Make sure the #5 DIP switch is in the OFF position. (See DIP Switch Settings, Page 18.)</td>
</tr>
<tr>
<td>Constant (SB)</td>
<td>Auxiliary limit switch (LS7) wire connectors unplugged</td>
<td>Make sure connectors are plugged in securely.</td>
</tr>
<tr>
<td></td>
<td>Auxiliary limit switch activated (user installed option)</td>
<td>Determine where the switch is installed and why it was activated. Then appropriately deactivate switch.</td>
</tr>
<tr>
<td>(SB)(SB)(SB)</td>
<td>Handpiece safety wire connectors unplugged</td>
<td>Make sure connectors are plugged in securely.</td>
</tr>
<tr>
<td></td>
<td>Handpiece safety switch activated (user installed option)</td>
<td>Determine where switch is installed and why switch is activated. Then appropriately deactivate switch.</td>
</tr>
<tr>
<td>(SB)(SB)(SB)</td>
<td>Auto position program is not activated because one or more potentiometers are disconnected or out of range</td>
<td>Determine which potentiometer is locking out the auto programs by checking the service LED codes or by moving each function until a constant (FB) is signaled while the function is in motion. Check the indicated potentiometer's wiring and linkage for proper function. Then check the potentiometer's resistance and voltage.</td>
</tr>
<tr>
<td>When any control auto button is pressed</td>
<td>Auto position program is not activated because one or more potentiometers are disconnected or out of range</td>
<td>Determine which potentiometer is locking out the travel limits program by checking the service LED codes or by moving each function until a constant (FB) is signaled while the function is in motion. Check the indicated potentiometer's wiring and linkage for proper function. Then check the potentiometer's resistance and voltage.</td>
</tr>
<tr>
<td>While in travel limits programming mode (#4 DIP switch is ON) and either auto 1 or 2 button is pressed</td>
<td>Cannot program travel limits because one or more potentiometers are disconnected or out of range</td>
<td>Determine which potentiometer is locking out the travel limits program by checking the service LED codes or by moving each function until a constant (FB) is signaled while the function is in motion. Check the indicated potentiometer's wiring and linkage for proper function. Then check the potentiometer's resistance and voltage.</td>
</tr>
<tr>
<td>Constant (FB) Only while a function is moving</td>
<td>The potentiometer on the activated moving function is disconnected or out of range</td>
<td>Verify the suspected potentiometer by checking the service LED codes. Check the potentiometer's wiring and linkage for proper function. Then check the potentiometer's resistance and voltage.</td>
</tr>
</tbody>
</table>
Section VII  User Service Information

LED Codes

There is a three-light LED assembly on the main control board that indicates each power up mode and various service conditions the chair may encounter. The LED assembly is located at the top center of the main control board (left of the DIP switch assembly) under the base cover.

The power-up codes are described in the table below.

A service condition LED code chart appears on the next page. The LED codes are prioritized from top to bottom letting the user know the conditions listed above the indicated code are normal.

<table>
<thead>
<tr>
<th>LED Code</th>
<th>Beep Code</th>
<th>DIP Switch</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>❄️❄️❄️</td>
<td>(SB)</td>
<td>#1 On, #4 Off</td>
<td>Normal operating</td>
</tr>
<tr>
<td>❄️❄️❄️</td>
<td>(SB)</td>
<td>#1 On, #4 Off</td>
<td>Travel limits programming</td>
</tr>
<tr>
<td>❄️❄️❄️</td>
<td>(SB)</td>
<td>#1 On, #4 On</td>
<td>Special installation (base automatically rises)</td>
</tr>
</tbody>
</table>

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
<table>
<thead>
<tr>
<th>LED Code</th>
<th>Condition</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Special installation mode</td>
<td>Disconnect the chair power. Move the #1 DIP switch to ON. Reconnect the chair power.</td>
</tr>
<tr>
<td>O O O</td>
<td>A/D converter failure</td>
<td>Replace the chair main control board.</td>
</tr>
<tr>
<td>O O O</td>
<td>EEPROM failure</td>
<td>Replace the chair main control board.</td>
</tr>
<tr>
<td>O O O</td>
<td>Handpiece safety wire connectors unplugged</td>
<td>Make sure connectors are plugged in securely.</td>
</tr>
<tr>
<td></td>
<td>Handpiece safety switch activated (user-installed option)</td>
<td>Determine where the switch is installed and why it was activated. Then appropriately deactivate the switch.</td>
</tr>
<tr>
<td>O O O</td>
<td>Base lower safety cover contacted and moved up activating switches (LS2 &amp; LS3)</td>
<td>Move base up and remove obstruction under the cover.</td>
</tr>
<tr>
<td></td>
<td>Cover is jammed</td>
<td>Move the cover around until it's free, then push the cover up to make sure it's working properly.</td>
</tr>
<tr>
<td>O O O</td>
<td>Base upper limit switch (LS1) activated (base exceeded it's upper travel limits)</td>
<td>Reprogram the chair's travel limits.</td>
</tr>
<tr>
<td>O O O</td>
<td>Back upper limit switch (LS4) activated (back exceeded its upper travel limit)</td>
<td>Reprogram the chair's travel limits.</td>
</tr>
<tr>
<td>O O O</td>
<td>Board cannot find a seat limit switch.</td>
<td>The board is in its three-function mode. Make sure the #5 DIP switch is in the OFF position. (See DIP Switch Settings, Page 18.)</td>
</tr>
<tr>
<td>O O O</td>
<td>Auxiliary limit switch (LS7) wire connectors unplugged</td>
<td>Make sure connectors are plugged in securely.</td>
</tr>
<tr>
<td></td>
<td>Auxiliary limit switch activated (user-installed option)</td>
<td>Determine where the switch is installed and why it was activated. Then appropriately deactivate the switch.</td>
</tr>
<tr>
<td>O O O</td>
<td>Only while base is moving Base potentiometer (P1) is disconnected or out of range</td>
<td>Check the base potentiometer's wiring and linkage for proper function. Then check its resistance and voltage.</td>
</tr>
<tr>
<td></td>
<td>Only while back is moving Back potentiometer (P2) is disconnected or out of range</td>
<td>Check the back potentiometer's wiring and linkage for proper function. Then check its resistance and voltage.</td>
</tr>
<tr>
<td>O O O</td>
<td>Controller M (main) will not calibrate</td>
<td>Check wiring for breaks or loose connections. Check for stuck switches. Make sure a controller is connected to the M wiring. If only one controller is used, it should be connected to M. Disconnect and reconnect chair power forcing controller calibrations. Replace controller if it still will not calibrate.</td>
</tr>
<tr>
<td>O O O</td>
<td>Controller A (auxiliary) will not calibrate</td>
<td>Check wiring for breaks or loose connections. Check for stuck switches. If a controller is not connected to A, change the #2 DIP switch to OFF so it will not calibrate. Disconnect and reconnect chair power forcing controller calibrations. Replace controller if it still will not calibrate.</td>
</tr>
<tr>
<td>O O O</td>
<td>When chair is idle Base potentiometer (P1) is disconnected or out of range</td>
<td>Check the base potentiometer's wiring and linkage for proper function. Then check its resistance and voltage.</td>
</tr>
<tr>
<td>O O O</td>
<td>When chair is idle Back potentiometer (P2) is disconnected or out of range</td>
<td>Check the back potentiometer's wiring and linkage for proper function. Then check its resistance and voltage.</td>
</tr>
<tr>
<td>O O O</td>
<td>Normal</td>
<td></td>
</tr>
</tbody>
</table>
Programming Travel Limits

Tools Required
- Phillips Screwdriver
- Tape Measure

--- WARNING ---
Disconnect the chair power when indicated!

1. Disconnect the chair power.

2. If the upholstered seat was installed, remove the brake cover from the back of the seat by pulling it straight back. Then remove the two rings and pins that hold the upholstered seat to the chair.

3. Take off the base (pump) cover by removing and retaining the four Phillips-head screws that attach it to the base plate.

4. On the main control board, flip the #4 DIP switch to the ON position. (This will place the chair in its travel limits programming mode when the chair’s power is reconnected.)

NOTE: All three LEDs on the board will light up five times, along with a short beep each time, to indicate the chair is in its travel limits programming mode.

5. Reconnect the chair power.

NOTE: The upper and lower travel limit values specified are factory settings. Values within the ranges are valid depending on specific applications. Different travel limit values may be required to achieve adequate clearance for accessories attached to or near the chair.

NOTE: Any one of the two possible controls connected to the chair can be used to set the travel limits.

6. Perform the following steps to program the UPPER limits:
   a. Move the back up until the distance between the back of the slide block and the front of the right guide rail measures between 11-1/4" and 11-3/8".
   b. Move the base up until the distance between the bottom of the chair mount casting and the top of the cantilever support casting measures between 22-5/8" and 22-3/4".
   c. On a controller, press and release the auto #1 button.

--- CAUTION ---
Do not press the auto button for more than one second.

NOTE: A short beep will sound when the button is pressed, another will sound when the button is released indicating the travel limits have been stored.
7. Perform the following steps to program the **LOWER** limits:
   a. Move the back down until the distance between the back of the slide block and the front of the right guide rail measures between 3-1/2" and 3-5/8".
   b. Move the base down until the distance between the bottom of the chair mount casting and the top of the cantilever support casting measures between 9-1/4" and 9-3/8".
   c. On a controller, press and release the auto #2 button.

**NOTE:** A short beep will sound when the button is pressed, another will sound when the button is released indicating the travel limits have been stored.

8. **Disconnect** the chair power.

9. Flip the #4 DIP switch back to the **OFF** position. (This will place the chair back into its normal operating mode.)

10. Reconnect the chair power.

---

**— CAUTION —**

*Do not* use the auto buttons until they have been reprogrammed.

---

11. Move the chair to each travel limit position and verify the program values have been properly set and stored.

**NOTE:** Each function should stop before activating a limit switch or reaching a physical stop.

**NOTE:** If the limits are not within the specified ranges or any limit switch is activated, the travel limit values may not have been stored properly or they are outside the factory values. Repeat the programming procedures if necessary.

**NOTE:** If a limit was adjusted to accommodate an accessory, make sure the resulting clearance is sufficient.

12. **Disconnect** the chair power.

13. Replace the pump cover using the four Phillips-head screws previously removed.

14. Replace the seat using the rings and pins previously removed.

15. Replace the brake cover.

16. Reprogram the auto positions. (*Refer to Section V Operation, Pages 12 and 13 in this manual.*)
## Upholstery and Exterior Components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3625-572</td>
<td>Upholstery set (color &amp; headrest specified when ordering)</td>
</tr>
<tr>
<td>3801-827</td>
<td>Stationary headrest cushion</td>
</tr>
<tr>
<td>3801-826</td>
<td>Magnetic headrest cushion</td>
</tr>
<tr>
<td>3801-535</td>
<td>Double articulating headrest cushion</td>
</tr>
<tr>
<td>3801-828</td>
<td>Back cushion</td>
</tr>
<tr>
<td>3801-739</td>
<td>Chair back</td>
</tr>
<tr>
<td>3801-742</td>
<td>Back blind grip fasteners</td>
</tr>
<tr>
<td>3801-564</td>
<td>Upholstered arm assembly</td>
</tr>
<tr>
<td>3801-381</td>
<td>Molded arm assembly</td>
</tr>
<tr>
<td>3801-566</td>
<td>Seat cushion</td>
</tr>
<tr>
<td>3801-443</td>
<td>Seat mounting pin &amp; retaining ring</td>
</tr>
<tr>
<td>3801-569</td>
<td>Seat rollers and screws</td>
</tr>
<tr>
<td>3801-447</td>
<td>Back link pin and E-rings</td>
</tr>
<tr>
<td>3801-568</td>
<td>Seat toe guard</td>
</tr>
<tr>
<td>3801-825</td>
<td>Brake cover</td>
</tr>
<tr>
<td>3801-803</td>
<td>Brake handle</td>
</tr>
<tr>
<td>3801-787</td>
<td>Top cantilever base cover</td>
</tr>
<tr>
<td>3801-756</td>
<td>Bottom cantilever base cover</td>
</tr>
<tr>
<td>3801-737</td>
<td>Base (pump) cover</td>
</tr>
<tr>
<td>3801-563</td>
<td>Arm hole cap</td>
</tr>
</tbody>
</table>

## Controls

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3625-573</td>
<td>Chair mounted touchpad option</td>
</tr>
<tr>
<td>3625-576</td>
<td>Delivery head mounted touchpad option</td>
</tr>
<tr>
<td>3801-824</td>
<td>Touch pad assembly</td>
</tr>
<tr>
<td>3801-820</td>
<td>Touch pad membrane switch (chair &amp; delivery head mounted)</td>
</tr>
<tr>
<td>3801-761</td>
<td>Touch pad circuit board</td>
</tr>
<tr>
<td>3801-823</td>
<td>Rear assistants arm membrane switch</td>
</tr>
<tr>
<td>3801-762</td>
<td>Chair mounted touch pad wire harness</td>
</tr>
<tr>
<td>3625-574</td>
<td>Foot control option</td>
</tr>
<tr>
<td>3801-763</td>
<td>Foot control circuit board</td>
</tr>
<tr>
<td>3801-764</td>
<td>Foot control cord</td>
</tr>
<tr>
<td>3625-562</td>
<td>Handpiece safety switch option</td>
</tr>
</tbody>
</table>

## Electrical

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3801-765</td>
<td>Master circuit board (115 VAC)</td>
</tr>
<tr>
<td>3801-788</td>
<td>Master circuit board (220 VAC)</td>
</tr>
<tr>
<td>3801-766</td>
<td>Fuses (115 VAC)</td>
</tr>
<tr>
<td>3801-767</td>
<td>Fuses (220 VAC)</td>
</tr>
<tr>
<td>3801-779</td>
<td>Main wiring</td>
</tr>
<tr>
<td>3801-769</td>
<td>Power cord (115 VAC)</td>
</tr>
<tr>
<td>3801-770</td>
<td>Power cord (220 VAC)</td>
</tr>
<tr>
<td>3801-409</td>
<td>Pump motor capacitor (115 VAC)</td>
</tr>
<tr>
<td>3801-410</td>
<td>Pump motor capacitor (220 VAC)</td>
</tr>
<tr>
<td>3801-424</td>
<td>Valve solenoid (115 VAC)</td>
</tr>
<tr>
<td>3801-425</td>
<td>Valve solenoid (220 VAC)</td>
</tr>
<tr>
<td>3801-435</td>
<td>Base potentiometer</td>
</tr>
<tr>
<td>3801-431</td>
<td>Limit switch (base &amp; safety)</td>
</tr>
<tr>
<td>3801-444</td>
<td>Back limit switch</td>
</tr>
<tr>
<td>3801-819</td>
<td>Back potentiometer</td>
</tr>
<tr>
<td>3625-495</td>
<td>Light receptacle option</td>
</tr>
</tbody>
</table>

## Mechanical

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3801-445</td>
<td>Spring</td>
</tr>
<tr>
<td>3801-680</td>
<td>Air glide caster</td>
</tr>
<tr>
<td>3801-791</td>
<td>Air glide regulator</td>
</tr>
<tr>
<td>3801-792</td>
<td>Air glide toggle switch</td>
</tr>
<tr>
<td>3801-773</td>
<td>Potentiometer actuator</td>
</tr>
</tbody>
</table>

## Hydraulic

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3801-774</td>
<td>Pump (115 VAC)</td>
</tr>
<tr>
<td>3801-775</td>
<td>Pump (220 VAC)</td>
</tr>
<tr>
<td>3801-821</td>
<td>Valve (115 VAC)</td>
</tr>
<tr>
<td>3801-822</td>
<td>Valve (220 VAC)</td>
</tr>
<tr>
<td>3801-778</td>
<td>Fluid reservoir</td>
</tr>
<tr>
<td>3801-429</td>
<td>Base cylinder</td>
</tr>
<tr>
<td>3801-450</td>
<td>Back cylinder</td>
</tr>
<tr>
<td>3801-780</td>
<td>Hose (pump to valve)</td>
</tr>
<tr>
<td>3801-784</td>
<td>Hose (base cylinder)</td>
</tr>
<tr>
<td>3801-416</td>
<td>Hose (back cylinder)</td>
</tr>
<tr>
<td>3801-418</td>
<td>Base and back cylinder vent tubing</td>
</tr>
<tr>
<td>3801-417</td>
<td>Pump and reservoir tubing</td>
</tr>
<tr>
<td>3801-549</td>
<td>Hydraulic Oil (1 pt.)</td>
</tr>
</tbody>
</table>
Product Support Service

DentalEZ Group

DentalEZ Equipment Division

aXcs® Chair

DentalEZ and its employees are proud of the products we provide in the dental community. We stand behind these products with a warranty against defects in material and workmanship as provided below. And, we have our own in-house repair facility to service our products.

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

If we cannot resolve the issue by telephone, we will arrange for a technical service representative to contact you or we may suggest that you return the product to our factory for inspection.

If product return is required, we will provide you with a return merchandise authorization (RMA) number and shipping instructions for returning the product to the proper facility. Please make sure the RMA is included on the package you are returning. Products returned without a RMA cannot be repaired or given credit consideration. All RMA’s are good for 30 days. If the product is under warranty, we will ask you to provide proof of purchase, such as a copy of your invoice.

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. Our out-of-warranty repairs are warranted against defect for a period of six months. In-warranty repairs or replaced products are covered for the duration of the original warranty.

DentalEZ Equipment warrants the aXcs Chair to be free from defects in material and workmanship, under normal usage. 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 costs resulting from abuse, improper handling, cleaning, care or maintenance, normal wear and tear or nonobservance of operating maintenance or installation instructions.
- 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 THE 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.

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

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Connections shown in line for clarity.
All wires are black.
Pins 9 through 12 are neutral.
As functions move up, all potentiometer pin #2 voltages increase.
When a relay is not used, a shielded jumper wire is placed in line on the light connection.
When optional switches are not installed, connectors are plugged into each other.
120 & 220 VAC relays connect to the chair light connection.
24 VAC relay connects to the CMU main wire harness through a jumper wire which controls the light common.