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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® J/V-Generation™ Chair.

The DentalEZ J/V-Generation 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 J/V-Generation Chair.

After the J/V-Generation 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 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
Duty Cycle: 3 min. ON, 5 min. OFF

Shipping Weight:
Chair Carton:  320 lbs.
Upholstery Package:  60 lbs.

Classification

Class 1, Type B Medical Equipment for Ordinary Use
with Respect to Electric Shock, Fire, Mechanical and
Other Specified Hazards
Only in Accordance with UL
2601-1 and CAN/CSA
No. 601.1.

Dimensions

- 18-1/2" x 76-1/2"
- 14-3/8" x 26-1/8"
- 38" x 15"
Section II  Features

DentalEZ combined the thin, narrow back and independent seat tilt of the J-Chair® with the flexible split-back of the V-Chair™, along with an anatomically correct hip pivot point and left/right flexibility, then added a new, sleek, modern look to develop the J/V-Generation Chair.

The DentalEZ J/V-Generation Chair can be customized to attain optimum work efficiency so dental professionals can offer quality care and treatment to patients.

In order to achieve the most efficient use in the operatory and understand what the J/V-Generation Chair offers, here is a compilation of some standard and optional features:

### Standard

#### Ergonomic/Comfort Features

The J/V-Generation 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:

- Exclusive, independent seat tilt feature allows precise positioning of the patient to reduce operator eye, back and neck strain, while still placing the patient in the most comfortable position.
- Thin, narrow back provides the best operator access to the oral cavity without any need for reaching or twisting.
- Contoured, no-obstruction design eliminates all obstacles from the operator's thighs and knees allowing for a more ergonomically correct position.
- Anatomically correct hip pivot point increases patient comfort during long procedures.

### Design Features

- Both arm rests rotate up allowing for easy patient entry/exit from right or left eliminating the need for any tools to change the operatory from right to left, and provides easy access for handicapped patients.
- Availability of eight pre-set positions plus manual controls for back/base height and seat tilt increases efficiency by reducing time needed for chair adjustment.
- Adjustable controls can be located on both the dentist's and assistant's side of the chair to provide easy and rapid patient positioning.
- Arm slings hold the patient's arms closer to their bodies allowing the dentist better access to the oral cavity.
- A variety of headrests, that can be easily and quickly changed, is available to accommodate all dental procedures.

### Safety Features

- A base lowering safety features ensures nothing gets caught underneath the base as it lowers. (See Operation Section.)
- A locking chair brake holds the chair in place and stops any swivel movement. (See Operation Section.)
- The handpiece operated chair movement lock-out prevents any unexpected chair movement while operating any handpiece.

### Optional

- Air glide feature allows free and easy floor positioning of the chair.
- An AC light receptacle outlet can be added to the chair's AC power.
- Lights can be operated using the auxiliary light relay button on the touch pad control.
Unpacking

Tools Required:
- Pliers
- 1/2” Socket and Ratchet

Chair Carton

1. Using pliers, remove the staples that secure the shipping carton to the wooden pallet.
2. Remove the carton and packing inserts from the pallet by lifting up.
3. Using a 1/2” socket and ratchet, remove the four bolts that secure the chair base to the shipping pallet.

--- CAUTION ---
If the chair is equipped with the air glide option, be careful not to tear the air caster when sliding the chair off the pallet and during placement of the chair.

4. Grasp the chair mount casting and slide the chair off the pallet.

--- WARNING ---
The J/V-Generation 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.

Upholstery Carton

Remove and set aside the following items from the J/V-Generation Chair upholstery assembly packaging:
- Upholstered Back Assembly
- Sling Assemblies
- Upholstered Seat
- Upholstered Armrests
- Headrest
- Optional Foot Control
- Any ordered Options
- Hardware Package

Chair Placement

1. Taking into consideration the J/V-Generation Chair’s specifications (found on Page 3), position the chair in its permanent location on a smooth, hard and level floor.

   NOTE: Make sure the chair is placed where nothing will interfere with its movement.

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

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

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.
Hydraulic System Plug

--- NOTICE ---
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. After taking off the base (pump) cover, remove the rubber shipping plug from the hydraulic system reservoir vent hole.
2. Leave the plug on top of the reservoir cap for future use if necessary.

Chair Back / Link Connection

--- NOTICE ---
The chair back is shipped disconnected from the chair back linkage.

1. Place a nylon washer on each nylon bushing. (See insert picture top next column.) Then insert the bushing/washer assemblies into both sides of the chair back casting. (The washer of the bushing/washer assembly should be mated to the inner sides of the chair back casting.)
2. Lift up the chair back casting and the chair back linkage and align the holes. Then while facing the back of the chair, insert the link pin, beveled end first, through the nylon bushing/washer assembly on the left side.

--- NOTE ---
The link pin should be flush with the chair back surface with the threads exposed. If necessary, tap the link pin lightly with a mallet.

3. Insert the other link pin, beveled end first, through the nylon bushing/washer assembly on the right side.
4. Insert two set screws into the tapped holes in the chair back linkage and tighten to lock the link pins into position.

--- NOTICE ---
If removal of the link pins is necessary, simply loosen (but do not remove) the two set screws, and thread the #8-32 x 3/8 pan-head screws (found taped to the chair back casting) halfway into each link pin. Then using pliers, pull the two link pins out. Leave the screws in the threaded holes of the pins for safekeeping.
**Section IV Installation**

**Side Mount Chair Controls**

**NOTE:** To eliminate risk of accidental breakage during shipment, the two side-mounted chair controllers are not attached to the chair.

1. Use one #8-32 x 3/8" Phillips-head screw to attach one of the plastic touchpad mounts to the outside of the chair arm support.

   - Orient the mount so that it is slanted with the side facing the rear of the chair is in a lower position than the side facing the front of the chair.
   - The touchpad wiring should be routed through the open side area of the mount.
   - Repeat steps to attach second mount on opposite side of the chair.

2. Attach the touchpad harness connector to the touchpad controller board. Then repeat for opposite side.

3. Using the supplied slotted-head screws, attach the backs to the controller boards.

4. Attach each touchpad controller to the touchpad mount by inserting a 1/4-20 x 1-1/4 oval head screw from the bottom of the touchpad mount into the bottom of the touchpad controller, then tighten the screw.

**CAUTION:** Before connecting the chair power, make sure bands and all shipping hardware and tools are clear of the chair’s moving mechanisms.

5. Connect the chair power. *(The chair will emit two short beeps and the LEDs in the two side mount chair controls will light up to indicate the chair is on.)*

6. Using the side mount chair controls, test all the functions of the chair.
Section IV  Installation

**Delivery Units**

Install chair-mounted and Magellan-style delivery units according to the manufacturer’s instructions supplied with the unit.

**Auxiliary Controller Options**

The J/V-Generation Chair’s primary controllers are located on both sides of the chair’s arm supports. The connections for these controllers are labeled M (main) on the chair wiring harness. One controller can be added to the chair and should be attached to the chair wiring labeled A (auxiliary). For installation of the additional controller follow the instructions supplied with the control package. If an auxiliary controller is added, the DIP switch settings on the main control board will need to be set before the controller is recognized (See the DIP Switch Settings, Page 22.)

**Foot Control**

The foot control harness must be routed through the cord-retaining bracket, which is located underneath the cantilever section. (For more information, refer to the instructions supplied with the foot control package.)

**Unit Mounted Touchpad**

A touchpad can be mounted on the delivery head of a Galaxy™ chair mounted unit. (For more information, refer to the instructions supplied with the touchpad control package.)

---

**Options**

**Air Glide**

**NOTE:** If the air glide option was ordered, the air regulator was attached to the base chassis prior to shipment of the chair.

**— IMPORTANT —**

For proper air glide operation, the floor MUST BE LEVEL and have a smooth, hard and non-obstructive surface.

1. Place the J/V-Generation 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 (usually 80 PSI on most dental units).

**— CAUTION —**

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

3. Adjust the air regulator located on the base chassis to 15-20 PSI.
Section IV  Installation

4. Actuate the air regulator toggle switch at the rear of the chair on the base cantilever section cover.

5. Check for proper air glide operation.

6. Make sure the doctor and staff receive proper air glide feature operation instructions. (See Operation, Optional Features, Page 19.)

Light Receptacle
An AC power connector is supplied with each J/V-Generation Chair to accommodate a light (up to 2 amps). The connector is located on the right side of the chair mount. 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 J/V-Generation Chair light receptacle option, proceed with the following steps:

1. Raise the seat to its full UP position.

2. Place the back in its full UP position.

3. Disconnect the chair power.

4. Connect the light receptacle connector to the chair AC power connector.

5. Using a 1/4” clamp and #10-32 x 3/8” screw and lock washer, secure the light receptacle cord to the chair mount casting.

6. Arrange the chair power cord so there is no slack and make sure the cord does not come in contact with any of the chair’s moving parts. Then, if necessary, adjust the clamp that secures the chair power cord.
Auxiliary Light Relay

NOTICE: There are three different light relays that can be installed depending on the application:

- The **120 VAC** relay is used with a light that requires a 120 VAC connection to its transformer.
- The **220 VAC** relay is used with a light that requires a 220 VAC (single phase) connection to its transformer.
- The **24 VAC** relay is used with a DentalEZ Lumina™ Light and power module package. The Lumina light connects directly to the power module.

--- CAUTION ---

Make sure the voltage and amperage ratings for the light relay installed is correct for the light package. *(The relay ratings are printed on the side of the relay.)*

1. Raise the chair base to its full UP position.
2. **Disconnect** the chair power.
3. Review the wire 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.)*
4. Using the screws and nuts supplied with the auxiliary light relay, mount the relay to the main control board mounting plate.
5. 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.*
6. For 120/220 VAC connection do the following steps:
   a. Locate the jumper in the black AC wiring below the relay and remove the short black jumper with the male 1/4" spade connectors.
   b. Plug the two female 1/4" spade connectors into the male 1/4" spade connectors on the relay.
   c. Proceed to **Step 8**.
7. For 24 VAC connection do the following steps:
   a. Remove the four #10 screws that secure the utility service center (USC) cover and take off the cover.
   
   **NOTE:** The Lumina light has two AC lines for low and high light intensities. The relay turns on and off the common wire to the light’s two AC lines.
   b. Locate the two wire connectors on the black ground wire in the power module wire harness. Then unplug the two connectors from each other.
Section IV Installation

NOTE: In the kit, one end of the wire harness adapter should have one tab and one receptacle connector to match the connectors on the power module harness. The other end should have two receptacle connectors. These connectors will plug onto the relay.

c. Connect the wire adapter harness to the wire connectors on the power module harness.

d. Route the wire adapter harness through the umbilical going to the chair.

9. After a light has been installed and set to the ON position, do the following to check the operation of the auxiliary light relay:

a. Depress the auxiliary light relay button once on the touch pad control. (Pressing the auxiliary light relay button toggles the on/off state of the light.)

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

— REMINDER —

Replace the base (pump) cover using the four Phillips-head screws previously removed.

e. Plug the two wire connectors onto the relay.

f. Replace the USC cover using the four #10 screws previously removed.

8. Reconnect the chair power.
Section IV  Installation

Chair Upholstery

Armrests & Slings

1. Determine the designation of the right and left arm sling (straight side towards chair, curved side outward).

2. Slide an armrest (upholstered side down, with rounded end of armrest towards single tab end of sling) through the 1” wide loop on the back of each arm sling.

3. Align the two eyelets at the single tab end of the sling to the front holes at the curved end of the armrest. Then attach the slings to each armrests using two #10-32 x 5/8” screws.

4. Align the hole in the 1” wide loop over the bottom hole of the armrest. Then using three #10-32 oval-head screws attach each upholstered armrest assembly to the arm supports. Make sure the bottom screw passes through the hole in the loop.

5. Using two 1/4-20 x 5/8” screws attach the double tab ends of each arm sling (with material extending outward) to the chair back casting.
Section IV Installation

J/V-Generation™ Chair

Seat Cushion

1. Using four 1/4-20 x 1” screws, attach both seat mounting brackets to the seat frame.

2. Place the upholstered seat cushion on the seat mount casting.

3. Attach the front of the chair seat cushion to the underside of the seat mount casting using two 1/4-20 x 2-1/4” screws.

4. Slide decorator plastic covered caps on two 1/4-20 x 1” screws.

5. Attach the back of the chair seat cushion to the back of the seat mount casting using the two 1/4-20 x 1” screws with plastic caps. Then snap the decorator cap covers in place.

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.

NOTE: Make sure the arm sling tabs are tucked in neatly.

3. Tug on each stud location to ensure the upholstered chair back is secure.
Section IV Installation

Head Rest

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

2. Place the magnetic headrest cushion or magnetic neck support on the chair or the fixed headrest of the chair.
Manual Positioning

Manual positioning of the J/V-Generation Chair is accomplished by using the touchpad controls located on each side of the chair, the foot control or the delivery unit touch pad control. The J/V-Generation Chair can be operated using one or two separate controls. To operate these controls:

1. Select the direction of travel.
2. Depress and hold the corresponding button.
3. The chair will move to a factory-set travel limit, or run until the directional button is released.

Automatic Positioning

Programming Auto Positions

The J/V-Generation Chair back switch controls, the foot control and unit touch pad control are capable of executing eight auto positions (four on A mode indicated by a green LED and four on B indicated by a yellow LED).

To establish the pre-sets, refer to the appropriate J/V-Generation Chair switch control illustration and perform the following steps:

1. Determine A or B user by depressing the A/B toggle button. The A (green) or B (yellow) LED will light and one beep will sound for A mode and two beeps will sound for B mode.
2. Situate the chair in the desired auto position.
3. Press and hold the desired auto button (1, 2, 3 or 4) for approximately five seconds.

**NOTE:** The chair will beep once when the auto button is first depressed and beep again after the program is accepted.

4. Repeat Steps 1-3 to program the other three positions.
Section V  Operation

Activating Auto Positions

To activate the auto positions:

1. Determine A or B user by depressing the A/B toggle button. The A (green) or B (yellow) LED will light and one beep will sound for A mode and two beeps will sound for B mode.
2. Depress the #1, 2, 3 or 4 button once on the back switch control, foot control or the unit touch pad control.
3. A beep will sound.
4. The chair will automatically stop in the programmed position selected.

NOTE: Pressing any button on a chair control module while the J/V-Generation 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 J/V-Generation 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.

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.

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 three 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.
Section V  Operation

J/V-Generation™ Chair

Standard Features

Base Lowering Safety

The following describes how this feature operates:

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 Arms

Both of the J/V-Generation Chair’s arms lift to allow easy patient entry and exit.

Chair Rotation

The J/V-Generation Chair is capable of swivelling 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.

Standard Headrest

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

Optional Features

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 the headrest 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.
**Section V  Operation**

**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 regulator 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 10.)*
— 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 J/V-Generation 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 J/V-Generation 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.
Section VI  Care

Ultraleather™

- Spot clean with mild soap and water
- Air dry or dry quickly with warm setting of a hair dryer
- For stubborn stains, use mild solvent
- For extremely stubborn stains, an alcohol-based solvent can be used
- Dry cleanable by conventional methods using commercial dry cleaning solvents

Ultraleather is a trademark of Ultrafabrics, LLC.

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 registered trademark of the Clorox Company.
Fantastik Spray Cleaner is a registered trademark of the Tesoro 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 J/V-Generation Chair’s upholstery is comprised of material from the following manufacturers:

MOR-CARE™ Collection from MORBERN
MOR-GUARD from MORBERN was developed to meet the increased demands of hospital, contract and institutional use. Offers enhanced resistance to most common chemicals used for sterilization and cleaning in medical environments. Contains both an antibacterial and antimicrobial agents to provide resistance to a wide range of bacteria.

Naugahyde® BeautyGard™ from UNIROYAL
Naugahyde brand fabrics, Spirit II and Neochrome II with advanced BeautyGard contains an agent to protect it against bacterial and fungal microorganisms. This product has been formulated to achieve a superior level of disinfectability with disinfectant products containing sodium hypochlorite (common household bleach) diluted 1:10.

Mayfair/Savoy with Permablok® from Spradling®
Mayfair/Savoy fabrics with Permablok advanced vinyl protection contain an antimicrobial and antibacterial protection on an anti-stain finish that is easily cleaned. Mayfair/Savoy with Permablok provides exceptional disinfectability using a wide range of cleaning products.

Ultraleather™ from Ultrafabrics, LLC

- Disinfect with a 5:1 non-chlorinated bleach solution
- Potentially toxic aftercare not required

MOR-CARE is a trademark of Morbern, USA Inc. Naugahyde is a registered trademark of Morbern Engineered Products, Inc. BeautyGard is a trademark of Uniroyal Engineered Products, Inc. Permablok® is a registered trademark of Spradling International, Inc.

All Other Chair Surfaces

Cavicide™ is recommended for disinfecting all other surfaces of the J/V-Generation Chair. The use of any disinfectant, other than Cavicide, may cause premature staining, discoloration or damage to the J/V-Generation 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 back switch 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 an optional 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>Three-function chair mode: base, back and seat functions.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td>Two-function chair mode: base and back/seat functions.</td>
</tr>
<tr>
<td>#6</td>
<td>ON</td>
<td>Must be in OFF position</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td></td>
</tr>
</tbody>
</table>

Beep Codes

The J/V-Generation 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; and seat conditions by three 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.
<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 rises)</td>
<td>Disconnect the chair power. Move #1 DIP switch to ON. 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>Seat upper limit switch (LS5) activated (seat exceeded its upper travel limit)</td>
<td>Reprogram the chair’s travel limits.</td>
</tr>
<tr>
<td></td>
<td>Seat lower limit switch (LS6) activated (seat exceeded its lower travel limit)</td>
<td>Reprogram the chair’s travel limits.</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>When any control button is pressed (except auxiliary light relay)</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>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 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>While in travel limits programming mode (DIP switch #4 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)</td>
<td>Only while a function is moving</td>
<td>The potentiometer on the activated moving function is disconnected or out of range</td>
</tr>
</tbody>
</table>
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.

LEGEND | LED states: ● = On  ○ = Off  * = Blinking (The LED nearest the main control board is number one.)

<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>● ● ● ● ●</td>
<td>#1 On, #4 Off Normal operating</td>
</tr>
<tr>
<td>● ● ●</td>
<td>(SB)</td>
<td>● ● ● ● ●</td>
<td>#1 On, #4 Off Travel limits programming</td>
</tr>
<tr>
<td>● ● ●</td>
<td>(SB)</td>
<td>● ● ● ● ●</td>
<td>#1 Off Special installation (base automatically rises)</td>
</tr>
<tr>
<td>● ● ●</td>
<td>(SB)</td>
<td>● ● ● ● ●</td>
<td>#1 Off Special installation (base automatically rises)</td>
</tr>
<tr>
<td>● ● ●</td>
<td>(SB)</td>
<td>● ● ● ● ●</td>
<td>#1 On, #4 Off Travel limits programming</td>
</tr>
<tr>
<td>● ● ●</td>
<td>(SB)</td>
<td>● ● ● ● ●</td>
<td>#1 On, #4 Off Normal operating</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 front of 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 #1 DIP switch to On. Reconnect the chair power.</td>
</tr>
<tr>
<td></td>
<td>A/D converter failure</td>
<td>Replace the chair main control board.</td>
</tr>
<tr>
<td></td>
<td>EEPROM failure</td>
<td>Replace the chair main control board.</td>
</tr>
<tr>
<td></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></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></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></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></td>
<td>Seat upper limit switch (LS5) activated (seat exceeded its upper travel limit)</td>
<td>Reprogram the chair’s travel limits.</td>
</tr>
<tr>
<td></td>
<td>Seat lower limit switch (LS6) activated (seat exceeded its lower travel limit)</td>
<td>Reprogram the chair’s travel limits.</td>
</tr>
<tr>
<td></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></td>
<td>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>only while base is moving</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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>only while back is moving</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seat potentiometer (P3) is disconnected or out of range</td>
<td>Check the seat potentiometer’s wiring and linkage for proper function. Then check its resistance and voltage.</td>
</tr>
<tr>
<td>only while seat is moving</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Controller M (main) will not calibrate</td>
<td>Check wiring for breaks or loose connections. Check for stuck switches.</td>
</tr>
<tr>
<td></td>
<td>Make sure a controller is connected to the M wiring. If only one controller is used, it should be connected to M.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Disconnect and reconnect chair power forcing controller calibrations. Replace controller if it still will not calibrate.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Controller A (auxiliary) will not calibrate</td>
<td>Check wiring for breaks or loose connections. Check for stuck switches.</td>
</tr>
<tr>
<td></td>
<td>If a controller is not connected to A, change #2 DIP switch to OFF so it will not calibrate.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Disconnect and reconnect chair power forcing controller calibrations. Replace controller if it still will not calibrate.</td>
<td></td>
</tr>
<tr>
<td>only when chair is idle</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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>only when chair is idle</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>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>only when chair is idle</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seat potentiometer (P3) is disconnected or out of range</td>
<td>Check the seat potentiometer’s wiring and linkage for proper function. Then check its resistance and voltage.</td>
</tr>
<tr>
<td>only when chair is idle</td>
<td></td>
<td></td>
</tr>
<tr>
<td></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. Raise the chair base and seat to their full UP position, and place the chair back in a halfway position.

2. Disconnect the chair power.

3. If the upholstered seat was installed, take it off by unsnapping the decorator plastic cover caps on the back and front of the chair seat mount casting and removing and retaining the 1/4-20 x 5/8" screws with plastic caps from the back and front of the chair seat cushion.

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

5. 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.

6. Reconnect the chair power.

7. Perform the following steps to program the upper limits:
   a. 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 23-1/4" and 23-3/8".
   b. Move the back up until the distance between the edge of the slider block bracket and the front edge of the slider block measures between 10" and 10-1/8".
   c. Move the seat up until the distance between the chair mount casting and the bottom edge of the seat mount casting measures between 9-1/2" and 9-5/8".
Section VII  User Service Information

--- 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. The second beep indicates the travel limits have been stored.

8. Perform the following steps to program the lower limits:

a. 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 10" and 10-1/8".

--- 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. The second beep indicates the travel limits have been stored.

9. Disconnect the chair power.

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

11. Reconnect the chair power.

12. Move each function to their programmed limits to verify they have been properly set. (Each function should stop before activating a limit switch or reaching a physical stop.)

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

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

14. Replace the seat using the four 1/4-20 x 5/8" screws with plastic caps previously removed.

15. Reprogram the auto positions.
Control Valve Speed Adjustment

**Tools Required:**
- Phillips Screwdriver
- Flat-head Screwdriver
- Safety Glasses

1. Raise the chair base to its full **UP** position.
2. Take off the base (pump) cover by removing and retaining the four Phillips-head screws that attach it to the base plate.

**NOTE:** Adjustible flow control valves, located in the hydraulic control valve, are used to set the chair function speeds. The base and back cylinders are single acting cylinders. They have two flow control valves each (**UP** and **DOWN**) to control their speeds. The seat cylinder is double acting and requires four flow adjustment valves. Values marked (**PWR**) are for incoming fluid. Values marked (**RET**) are for outgoing fluid. The (**RET**) valves are adjusted first to set a gross speed and the (**PWR**) valves are used for fine tuning the speeds. Once the (**RET**) flows have been set, they **should not** be readjusted.

Function times given are based on a 200-pound person sitting in the chair.

---

**WARNING**

Wear safety glasses while adjusting the valve. Flow control valves should not be turned out farther than the top of their heads being even with the valve body surface. Adjustment of the flow control valves beyond the valve body surface may result in oil leakage with uncontrolled motion of the chair and the possibility of a valve being ejected from the valve body.

a. Move the base up and down adjusting the flow controls until it takes 12 seconds for the base to move either up or down the full travel.

b. Move the back up and down adjusting the flow controls until it takes 12 seconds for the back to move either up or down the full travel.
c. Adjust the UP (PWR) and DOWN (PWR) flow adjustment screws all the way open (counterclockwise). The valves are open when the top of the screws are approximately level with the valve body.

d. Adjust the UP (RET) and DOWN (RET) flow adjustments all the way closed (clockwise).

**NOTE:** With the flow adjustments closed all the way, the seat may not move at all until the valve is adjusted open a little.

e. Move the seat up or down while opening the corresponding (RET) flow adjustments.

f. Continue adjusting the flows until the seat moves from its full up and down positions in about seven seconds both ways.

g. Adjust the UP (PWR) and DOWN (PWR) flow adjustment screws all the way closed (clockwise).

h. Move the seat up or down while opening the corresponding (PWR) flow adjustments.

i. Continue adjusting the flows until the seat moves from its full up and down positions in about nine seconds both ways.

3. Raise the chair base up.

4. Replace the base (pump) cover.
## Control

<table>
<thead>
<tr>
<th>Part/Kit Name</th>
<th>Part/Kit No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery Head Touch Pad Option</td>
<td>3658-384</td>
</tr>
<tr>
<td>Touch Pad Assembly</td>
<td>3517-140</td>
</tr>
<tr>
<td>Touch Pad Membrane Switch</td>
<td>3801-986</td>
</tr>
<tr>
<td>Touch Pad Circuit Board</td>
<td>3801-761</td>
</tr>
<tr>
<td>Foot Control Option</td>
<td>3625-548</td>
</tr>
<tr>
<td>Back and Foot Control Circuit Board</td>
<td>3801-763</td>
</tr>
<tr>
<td>Foot Control Cord</td>
<td>3801-764</td>
</tr>
<tr>
<td>Light Relay Option (115 VAC)</td>
<td>3625-549</td>
</tr>
<tr>
<td>Light Relay Option (220 VAC)</td>
<td>3625-591</td>
</tr>
<tr>
<td>Light Relay Option (24 VAC for power module)</td>
<td>3625-596</td>
</tr>
<tr>
<td>Handpiece Safety Switch Option</td>
<td>3625-562</td>
</tr>
</tbody>
</table>

## Electrical

<table>
<thead>
<tr>
<th>Part/Kit Name</th>
<th>Part/Kit No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Circuit Board (115 VAC)</td>
<td>3801-765</td>
</tr>
<tr>
<td>Master Circuit Board (220 VAC)</td>
<td>3801-788</td>
</tr>
<tr>
<td>Fuses (115 VAC)</td>
<td>3801-766</td>
</tr>
<tr>
<td>Fuses (220 VAC)</td>
<td>3801-767</td>
</tr>
<tr>
<td>Main Wiring Harness</td>
<td>3801-768</td>
</tr>
<tr>
<td>Power Cord (115 VAC)</td>
<td>3801-769</td>
</tr>
<tr>
<td>Power Cord (220 VAC)</td>
<td>3801-770</td>
</tr>
<tr>
<td>Pump Motor Capacitor (115 VAC)</td>
<td>3801-409</td>
</tr>
<tr>
<td>Pump Motor Capacitor (220 VAC)</td>
<td>3801-410</td>
</tr>
<tr>
<td>Valve Solenoid (115 VAC)</td>
<td>3801-424</td>
</tr>
<tr>
<td>Valve Solenoid (220 VAC)</td>
<td>3801-425</td>
</tr>
<tr>
<td>Base Potentiometer</td>
<td>3801-435</td>
</tr>
<tr>
<td>Limit Switch (all)</td>
<td>3801-431</td>
</tr>
<tr>
<td>Seat Potentiometer</td>
<td>3801-771</td>
</tr>
<tr>
<td>Back Potentiometer</td>
<td>3801-819</td>
</tr>
<tr>
<td>Touchpad Wiring</td>
<td>3802-048</td>
</tr>
<tr>
<td>Touchpad Control Wiring</td>
<td>3802-047</td>
</tr>
<tr>
<td>Light Receptacle Option</td>
<td>3625-495</td>
</tr>
</tbody>
</table>

## Controls

<table>
<thead>
<tr>
<th>Part/Kit Name</th>
<th>Part/Kit No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump (115 VAC)</td>
<td>3801-774</td>
</tr>
<tr>
<td>Pump (220 VAC)</td>
<td>3801-775</td>
</tr>
<tr>
<td>Valve (115 VAC)</td>
<td>3801-776</td>
</tr>
<tr>
<td>Valve (220 VAC)</td>
<td>3801-777</td>
</tr>
<tr>
<td>Fluid Reservoir</td>
<td>3801-778</td>
</tr>
<tr>
<td>Base Cylinder</td>
<td>3801-429</td>
</tr>
<tr>
<td>Seat Cylinder</td>
<td>3801-783</td>
</tr>
<tr>
<td>Back Cylinder</td>
<td>3802-049</td>
</tr>
<tr>
<td>Hose (pump to valve)</td>
<td>3801-780</td>
</tr>
<tr>
<td>Hose (base cylinder)</td>
<td>3801-784</td>
</tr>
<tr>
<td>Hose (back and seat up)</td>
<td>3801-781</td>
</tr>
<tr>
<td>Hose (seat down)</td>
<td>3801-782</td>
</tr>
<tr>
<td>Base and Back Cylinder Vent Tubing</td>
<td>3801-418</td>
</tr>
<tr>
<td>Pump and Reservoir Tubing</td>
<td>3801-417</td>
</tr>
<tr>
<td>Hydraulic Oil (one pint)</td>
<td>3801-549</td>
</tr>
</tbody>
</table>

## Mechanical

<table>
<thead>
<tr>
<th>Part/Kit Name</th>
<th>Part/Kit No.</th>
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</thead>
<tbody>
<tr>
<td>Arm Screw</td>
<td>3800-112</td>
</tr>
<tr>
<td>Control Sleeve</td>
<td>3800-113</td>
</tr>
<tr>
<td>Seat Pivot Pins</td>
<td>3801-772</td>
</tr>
<tr>
<td>Spring</td>
<td>3801-445</td>
</tr>
<tr>
<td>Back and Seat Potentiometer Actuator</td>
<td>3801-773</td>
</tr>
<tr>
<td>Air Glide Caster</td>
<td>3801-680</td>
</tr>
<tr>
<td>Air Glide Regulator</td>
<td>3801-791</td>
</tr>
<tr>
<td>Air Glide Toggle Switch</td>
<td>3801-792</td>
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## Upholstery

<table>
<thead>
<tr>
<th>Part/Kit Name</th>
<th>Part/Kit No.</th>
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<tbody>
<tr>
<td>Plush Back Cushion</td>
<td>3802-036</td>
</tr>
<tr>
<td>Plush Arm Cushion</td>
<td>3802-037</td>
</tr>
<tr>
<td>Plush Seat Cushion</td>
<td>3802-038</td>
</tr>
<tr>
<td>Ultra Back Cushion</td>
<td>3802-039</td>
</tr>
<tr>
<td>Ultra Arm Cushion</td>
<td>3802-040</td>
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<tr>
<td>Ultra Seat Cushion</td>
<td>3802-041</td>
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<tr>
<td>Dual Durometer Headrest</td>
<td>3802-042</td>
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<tr>
<td>Standard Back Cushion</td>
<td>3802-019</td>
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<tr>
<td>Standard Arm Cushion</td>
<td>3802-043</td>
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<tr>
<td>Standard Seat Cushion</td>
<td>3802-044</td>
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<tr>
<td>Seat Lower Cover</td>
<td>3802-046</td>
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<tr>
<td>Standard Headrest Cushion</td>
<td>3801-827</td>
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<tr>
<td>Standard Headrest Magnetic Cushion</td>
<td>3801-826</td>
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<tr>
<td>Double Articulating Headrest Cushion</td>
<td>3801-535</td>
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<tr>
<td>Sling Set</td>
<td>3802-045</td>
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<tr>
<td>Back Blind Grip Fasteners</td>
<td>3801-742</td>
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# Exterior Components

<table>
<thead>
<tr>
<th>Part/Kit Name</th>
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<tbody>
<tr>
<td>Brake Cover</td>
<td>3802-050</td>
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<tr>
<td>Brake Handle</td>
<td>3801-803</td>
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<tr>
<td>Top Cantilever Cover</td>
<td>3801-787</td>
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<tr>
<td>Bottom Cantilever Cover</td>
<td>3801-756</td>
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<tr>
<td>Seat Casting Cover</td>
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<tr>
<td>Pump (Base) Cover</td>
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<tr>
<td>Top Cantilever Cover (Magellan Cuspidor)</td>
<td>3802-054</td>
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<tr>
<td>Bottom Cantilever Cover (Magellan Cuspidor)</td>
<td>3802-053</td>
</tr>
<tr>
<td>Chair Pivot Cover (Magellan Cuspidor)</td>
<td>3802-055</td>
</tr>
</tbody>
</table>
DentalEZ Group
DentalEZ Equipment Division
J/V-Generation™ 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 and have our own in-house repair facility to service our products.

In the event that you experience difficulty with the application or operation of any of our products, please contact our Customer 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 returned to our factory for inspection.

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 make sure the Return Authorization number is 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 J/V-Generation 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 less than one year can be returned for a 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.**

J/V-Generation is a trademark and DentalEZ is a registered trademark of DentalEZ Group.

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