

**Dansereau  
AMERICA  
OPERATORY  
Owners Manual**

**Dental Chair / Delivery System / Dental Light**

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Manufactured at: 250 E. Harrison Street, Corona CA 92879

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## **YEARS OF EXPERIENCE**

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Dansereau Health Products has been manufacturing dental chairs, delivery systems and operating stools for over 40 years. We have compiled a significant amount of information regarding the installation and service of dental equipment. Although some of the information contained in this owner's manual may not pertain to your particular dental equipment the general information should be pertinent to all dental equipment as all dental equipment functions similarly.

### **Air Quality**

The primary condition that will deteriorate a dental delivery system, regardless of the manufacturer, is contaminated compressed air. An air drying system-desiccant air dryer or a refrigeration air dryer, are the most recommended. The air drying system should be placed in conjunction with the oil or oil-less air compressor between the compressor and the dental units. Failure to use a drying system will result in a significantly shortened lifespan of your dental delivery system, as well as, your air driven handpieces.

### **Water Quality**

Water quality is the secondary concern with regards to the lifespan of a dental delivery system. Water with a high mineral and alkaline content will cause a build up of mineral in the narrow ports of the micro-valves in the delivery system (regardless of the manufacturer). All manufacturers recommend a water filtration system for all water supplied to the dental delivery system. If a water filtration system is not available or is not cost-effective a distilled water system is a realistic alternative.

### **SPECIAL SERVICES**

### **World Wide Toll-Free Access**

Dansereau Health Products has instituted a toll free telephone service in the United States, Canada and Mexico. Our telefax line (909- 549-1411) is available 24 hours a day.

United States & Puerto Rico 1-800-423-5657 or 909-549-1400

Canada 1- 909-549-1400

Mexico 095- 909-549-1400

### **Customer Service**

Dansereau Health Products customer service in-house technicians have a minimum of 10 years experience in the installation and maintenance of the Dansereau Health Products line of equipment.

### **Technical Support**

Dansereau Health Products maintains an in-house General Contractor as well as a complete dental office design staff using the latest in computer-aided design drawing systems. Our in-house General Contractor has over 20 years experience in the construction of dental offices.

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# CONDITIONS AND PROCEDURES

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## **Payment Procedures**

Dansereau Health Products accepts personal checks issued in U.S.A., funds, Mastercard and Visa credit cards. Financing terms are also available.

*ALL FREIGHT IS SHIPPED FREIGHT COLLECT UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE IN WRITING, PRIOR TO SHIPPING.*

## **Damaged Freight**

Dansereau Health Products utilizes superior packing procedures, however shipping accidents may occur. It is your responsibility to note any unusual conditions or subsequent damage to the shipping crate on the bill of lading prior to acceptance and signing for the product received from the freight company. Concealed damage observed after the opening of the crate should be noted and reported to the freight lines and Dansereau Health Products immediately. All freight is shipped FOB Corona, Ca., and although Dansereau is not responsible for the damage we will support you in all claims and will send replacement parts immediately.

## **Product Returns**

Dansereau Health Products manufactured products are custom made and all orders are non cancellable.

## **Terms of Sale**

All products are 100% prepaid unless other arrangements have been made. Mastercard and Visa are accepted for your convenience. Lease financing is available.

## **Warranties**

All Dental Delivery Systems require clean dry air, if the air compressor does not have a sufficient drying or filtration system, the warranties on applicable valves, relay and toggle switches, regulators, handpiece control blocks and foot controls will be VOIDED. The 1998 version of the Chair America must be installed by a factory trained authorized technician, or the technician must contact the Dansereau factory prior to providing any service or installation to the chair or delivery system for instructions. Dansereau does not warranty any labor.

### **5 Years**

Electric motors, base and chair frame parts.

### **3 Years**

Valves, relays, toggle switches, air and water regulators, handpiece holders, handpiece control blocks, posts, telescoping arms, chair switches, doctors and assistants stool cylinders.

### **90 Days**

Foot controls, syringes and stool parts. Cushions, Fabric, Foam and Arm Caps.

### **30 Days**

Light bulbs and base cover parts.

## **ETL Testing Laboratories**

Report # 530937

MEDICAL AND DENTAL EQUIPMENT.

Category- 6 -UL 544-2nd Ed.

## **CAN/CSA Testing Laboratories**

Canadian Standard for

Medical Electrical Equipment

Report # 531003

No. 601.1 - M90

## **U.S.A Food and Drug Administration**

Medical Device Registry

Report- #202716

*NOTE: OUTSTANDING INVOICE BALANCES WILL VOID ALL WARRANTIES*

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# BASIC INSTALLATION GUIDELINES

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*THIS IS A SIMPLE INSTALLATION. READ ALL THE INSTRUCTIONS CAREFULLY. IF YOU HAVE ANY QUESTIONS CONTACT DANSEREAU IMMEDIATELY!*

1. Caution and common sense should be exercised when installing any dental equipment. If indications are given that an installation is problematic or if you are not comfortable with any aspect of the installation you should call Dansereau Health Products for technical support or information regarding an in-field qualified service technician.
2. Dansereau Health Products equipment is delivered by common carrier (Trucking company). When the Dansereau Health Products equipment arrives, carefully inspect the exterior of the boxes for damage. If you notice any unusual damage, be sure to note it on the bill of lading that the trucking company will ask you to sign upon receipt of the equipment.  
**DO NOT ALLOW THE TRUCK DRIVER TO LEAVE THE PREMISES WITHOUT PERSONALLY INSPECTING THE EXTERIOR OF THE SHIPPING CONTAINERS!**  
If you are unsure of the condition of the boxes as to being in abnormal condition contact Dansereau Health Products immediately.
3. When unpacking the equipment, do not discard the boxes or packing material until you have completed the installation of your equipment. You may have accidentally left a necessary part in the packaging.
4. The base portion of the dental equipment is the heaviest piece of the dental equipment. Be extra careful when sliding the chair base off the pallet.
5. The chair top is lightweight and can be easily handled by two adults.
6. The dental unit is lightweight and can be easily handled by two adults - **caution** - *the dental unit is top heavy and the dental unit tray arm can swing around unexpectedly.*
7. The dental operating light is lightweight and can be easily handled by one adult - **caution** - *the dental operating light can swing around unexpectedly.*
8. **The tools required to complete a simple installation :**
  - a) Sharp knife-to open boxes and remove strapping (Take caution not to cut the cushions or surfaces)
  - b) 9/16" open end wrench-to tighten the bolts and nuts on the dental delivery system and chair top installation.
  - c) Wire strippers-to strip the wire on the light cord for plug installation.
  - d) Medium size flat head screwdriver-to tighten the screws on the light plug installation.
  - e) Medium size Phillips screwdriver-to attach the X-Ray view box and light cord clip to underneath toe portion of the chair.
  - f) 5/8" open end wrench-to tighten the compression fitting for the air and water valves to the angle-stops in the "j-box".
  - g) Teflon tape-to apply to the threaded portion of the vacuum and cuspidor fittings prior to installation.
  - h) Black Electrician's tape

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# CHAIR-SEAT INSTALLATION: STEP 1

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## **Base**

1. Using a sharp knife, carefully open the chair base box. Removal of the chair from the box can be simplified by removing all the internal wrapping and cutting two of the box corners vertically, allowing one end of the box flap to lay on the floor. You can then easily slide the base off the shipping pallet into the operatory position of choice.

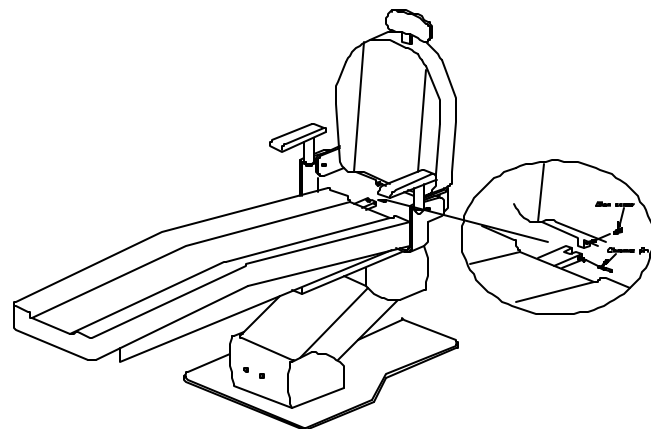
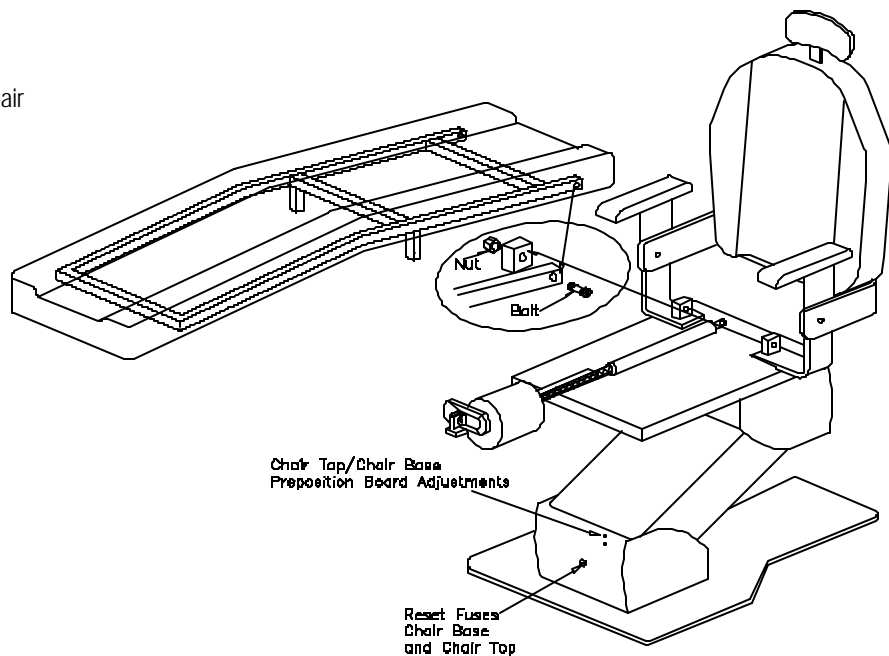
## **Chair Seat**

2. The chair seat box should be opened with the same sharp knife, careful not to cut the cushions with the knife when you are removing the internal wrappings.

3. The chair seat can easily be handled by one adult. Locate the chair seat mounting brackets on the chair base. The chair seat mounting brackets have allen screws set in the rear of the brackets, loosen the allen screws and remove the chrome pins.

4. Set the chair seat on the chair base, as per the diagram, and insert the chrome pins until they are flush at the inside and outside portion of the bracket. Re-tighten the allen screw.

5. The chair seat installation is complete. Proceed to Chair Back Installation Step 2. **Caution** do not discard any of the Chair America Dental Chair or Chair America Dental delivery system boxes or packing material until the Chair America Dental Chair or Chair America Dental delivery system installation is complete.



## **Seat Back Installation**

5. Located on the lower portion of the chair back is the chair back motor mount (See diagram above). In set in the chair back motor mount is an allen screw. Loosen the allen screw and remove the Chrome pin. The Chrome pin will be set tight in the chair back motor mount, making sure the allen screw is loosened enough you can gently hammer out the chrome.

6 Once the Chrome pin is removed align the two portions of the chair back motor mount linkage and re-insert the Chrome pin. (You may have to gently hammer the Chrome pin in). Re-tighten the chair back allen screw. The Chair America installation is complete. Proceed to the next section of this manual Pre-position Programming.

**DO NOT ATTEMPT TO USE THE CHAIR AMERICA UNTIL YOU HAVE READ THE PRE-PROGRAMMING SECTION IN THIS MANUAL.**

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# CHAIR AMERICA OPERATING INSTRUCTIONS

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The Chair America has one pre-position available as a standard feature. It may be easily adjusted to any desired position you require. 1. When the chair is connected to the electrical source the base will return to its lowest position (it should be in this position already) and the chair back will return to its most verticle position.

2. Press the pre-positioning switch on the chair foot control and allow the chair to operate to the factory set pre-position. If this is not a desired position, you adjust it by first depressing the exit button on the chair foot control.

The pre-position feature has been set at the factory.

To adjust the pre-position feature follow the procedure listed below:

## **Base Height**

- Lower the chair base to it lowest position by depressing the appropriate foot pedal on the chair foot control.

- Locate the adjustment knob labeled "Chair Base" and turn the knob to the desired position + to increase the base height and - to decrease base height.

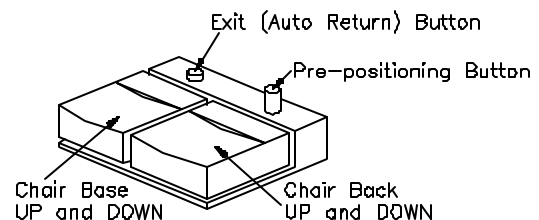
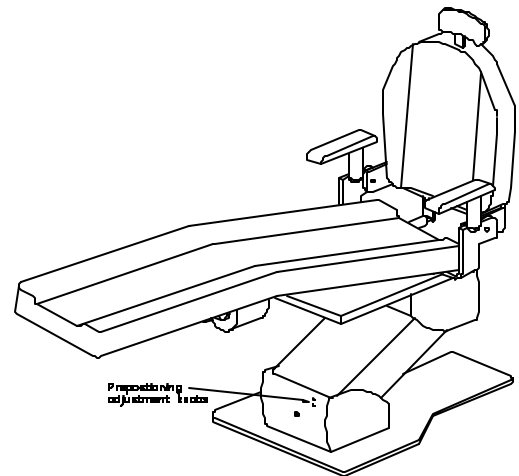
## **Chair Back**

- Move the chair back to the most forward position by depressing the appropriate foot on the chair foot control.

- Locate the adjustment knob labeled "Chair Back" and turn the knob to the desired position + to move the chair back more forward (the chair back motor has an internal limit switch that will limit the forward movement of the chair back) and - to increase the chair back downward position.

NOTE: You may have to repeat this procedure to adjust the pre-position feature to your desired position.

***You must return the chair base to its lowest position and the chair back to it most forward position prior to each adjustment.***



2. The Chair foot control also has two chrome buttons.

A. The button on the left will activate both the base and the chair back simultaneously. The chair base will return to its lowest position and the chair back will return to its most verticle position. This is called the EXIT position, being the easiest position for the patient to exit the chair.

B. The button on the right will activate the adjustable pre-position. The chair base will activate until it reaches its desired position and the chair back will recline until it reaches its desired position. This will occur simultaneously, although one of the functions may cease prior to the other depending on the adjusted pre-position.

NOTE: You may stop the pre-position feature during the cycle by stepping on either of the chair foot control pedals.

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# CARE AND MAINTENANCE OF SURFACES AND CUSHIONS

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In the battle against cross-contaminant in the dental office, it is now recommended and common practice to wipe and or spray chemical solutions on dental equipment surfaces upon the conclusion of the treatment of each patient. The manufacturers of the sterilization solutions currently used in the dental office do not list the negative effects on the surfaces of the dental equipment on the labels of their products.

Dansereau Health Products has tested and selected sterilization solutions which have proven to be " simply the best " for longest life, reliability and chemical resistance. There are some chemicals, however, when applied to otherwise durable molded parts, which can induce premature failures, such as staining or future stress cracking.

IMPORTANT: Dansereau Health Products has tested some solutions in an attempt to predict the chemical resistance and life span effects of their use on the plastics and surface coatings on Dansereau Health Products dental equipment. Test solutions are mixed and used according to the sterilization solution manufacturer's instructions ONLY. Tests are ongoing and results may change at any time as manufacturer's may change the formulas of the sterilization solutions or new effects may become evident as a result of continuous use over extended periods of time. Dansereau Health Products will continue to update you on these ongoing test results.

This data is provided only to inform Dansereau Health Products equipment end users (Dentists) to assist in their choice in the type of sterilization solutions to use. It is the dentists sole responsibility to make their own informed purchase and use choices about the complex subject of asepsis in the dental office.

## **DANSEREAU HEALTH PRODUCTS RECOMMENDS THE FOLLOWING DISINFECTANTS FOR USE ON THEIR EQUIPMENT**

### **COMPANY/BRAND**

#### **Iodine based Iodophors**

Biotrol International/Biocide  
Cottrell Limited/Promedyne Iodo-Five  
Amsco Medical Products/Wescodyne  
Huntington Labs/Asepti-IDC  
MDT Corp./SD%

#### **Mild Phenol Sprays**

Cottrell Limited/Prodcide ES  
Huntington Labs/Asepti-Sterly Aerosol

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# TROUBLE SHOOTING GUIDE: Chair America Dental Chair

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## **Chair does not function**

### **SOLUTION**

1. No power to the dental chair-check the power source is plugged into the dental chair
2. Check the surge protector (4 amp reset fuse) at the front of the chair base and push in and reset if required.
3. Verify the power source is adequate-120v on domestic models (USA, Canada, Mexico etc...) And 240v on international models (Europe, Asia etc...)

## **Chair Functions Erratically**

### **SOLUTION**

1. You are attempting to use the chair foot control pedals when the pre-positioning function is in use. Allow the pre-position function to complete its cycle before using the chair foot control pedals. If you continue to attempt to use the chair foot control pedals when the pre-positioning function is cycling you may damage the pre-positioning board or activate one of the reset fuses located at the base of the chair, which will cause the electricity for the chair to shut down until the reset fuse is reset.

## **Chair Back or Chair Base drifts downward after motors are off**

### **SOLUTION**

1. The dental chair back or chair base motor brakes are worn and will require factory replacement-contact a Factory Authorized Service representative at Dansereau Health Products for additional instructions-repair must be done at the factory.

## **Chair Base does not function**

### **SOLUTION**

1. DISCONNECT the power source and remove the dental chair base cover and visually inspect for loose connections.
2. Defective limit switch-contact a factory Authorized Service Representative at Dansereau Health Products for replacement instruction and replacement parts. Parts can be replaced in the field.
3. Defective pre-positioning board-contact a factory Authorized Service Representative at Dansereau Health Products for replacement instructions. Parts can be replaced in the field.
4. The reset fuse located at the base of the chair has activated from a possible misuse of the pre-positioning function-reset the fuse by pushing in the button.

## **Chair back motor continues to operate when switch is off.**

### **SOLUTION**

1. Defective limit switch-contact a Factory Authorized Service Representative at Dansereau Health Products for repair and replacement instructions.

## **Dental Chair Base continues to operate when the switch is off**

### **SOLUTION**

1. Defective limit switch-contact a Factory Authorized Service Representative at Dansereau Health Products for a replacement part and instructions.

DISCONNECT THE ELECTRICAL POWER AT THE SOURCE (UNPLUG THE ELECTRICITY) PRIOR TO DOING ANY WORK ON THE ELECTRICAL SYSTEM. DO NOT OPEN ANY HOUSINGS OR ELECTRICAL COVERS UNTIL YOU HAVE DISCONNECTED THE POWER SOURCE TO THE ENTIRE DENTAL SYSTEM INCLUDING THE DENTAL CHAIR

ATTENTION: THE DANSEREAU HEALTH PRODUCTS LINE OF DENTAL EQUIPMENT IS EXTREMELY USER SERVICEABLE, HOWEVER SOME ITEMS MAY REQUIRE MORE TECHNICAL EXPERIENCE THAT THE END USER (DENTIST) HAS. IF YOU HAVE ANY APPREHENSIONS REGARDING DOING YOUR OWN SERVICE WORK ON OUR PRODUCTS CONTACT THE DANSEREAU HEALTH PRODUCTS FACTORY AND SPEAK TO ONE OF OUR AUTHORIZED SERVICE REPRESENTATIVES.

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# BASIC INSTALLATION GUIDELINES

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1. Caution and common sense should be exercised when installing any dental equipment. If indications are given that an installation is problematic or if you are not comfortable with any aspect of the installation you should call Dansereau Health Products for technical support or information regarding an in-field qualified service technician.

2. Dansereau Health Products equipment is delivered by common carrier (Trucking company). When the equipment arrives, carefully inspect the exterior of the boxes for damage. If you notice any unusual damage, be sure to note it on the bill of lading that the trucking company will ask you to sign upon receipt of the equipment.

DO NOT ALLOW THE TRUCK DRIVER TO LEAVE THE PREMISES WITHOUT PERSONALLY INSPECTING THE EXTERIOR OF THE SHIPPING CONTAINERS!

3. When unpacking the equipment, do not discard the boxes or packing material until you have completed the installation of your equipment. You may have accidentally left a necessary part in the packaging.

4. The base portion of the dental equipment is the heaviest piece of the dental equipment. Be extra careful when sliding the chair base off the pallet.

5. The chair top is lightweight and can be easily handled by two adults.

6. The dental unit is lightweight and can be easily handled by two adults, however, caution should be taken as the dental unit is top heavy and the dental unit tray arm can swing around unexpectedly.

7. The dental operating light is lightweight and can be easily handled by one adult, however, caution should be taken as the dental operating light can swing around unexpectedly.

8. **The tools required to complete a simple installation are:**

- Sharp knife-to open boxes and remove strapping (Take caution not to cut the cushions or surfaces)
- 9/16" open end wrench-to tighten the bolts and nuts on the dental delivery system and chair-top installation.
- Medium size flat head screwdriver-to tighten the screws on the light plug installation.
- Medium size Phillips screwdriver-to attach the X-Ray view box and light cord clip to underneath toe portion chair.
- 5/8" open end wrench-to tighten the compression fitting for the air and water valves to the angle-stops in the "j-box".
- Teflon tape-to apply to the threaded portion of the vacuum and cuspidor fittings prior to installation.
- Black Electrician's tape

## **Dental Unit Install**

1. Using a sharp knife, carefully open the dental unit box. (We strongly suggest that two adults work together to install the dental unit as it is top heavy.)

2. Remove the smaller boxes from the dental unit box and set them aside.

3. Remove the dental unit from the box and remove the three bolts from the mounting cup at the bottom of the dental unit.

4. Set the mounting cup (see diagram above) on the chair-base mounting plate.

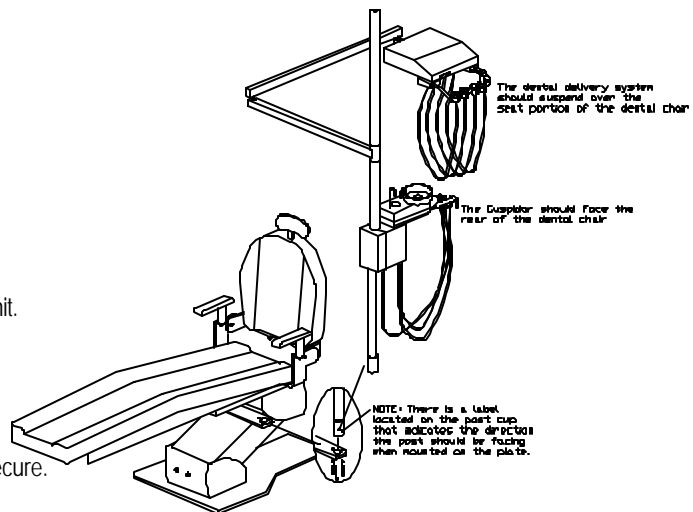
5. Insert the bolts through the chair base mounting plate into the dental unit mounting cup.

6. Hand tighten the bolts one at a time - until all three bolts are secure.

7. Use a 9/16" open wrench to firmly tighten the four bolts.

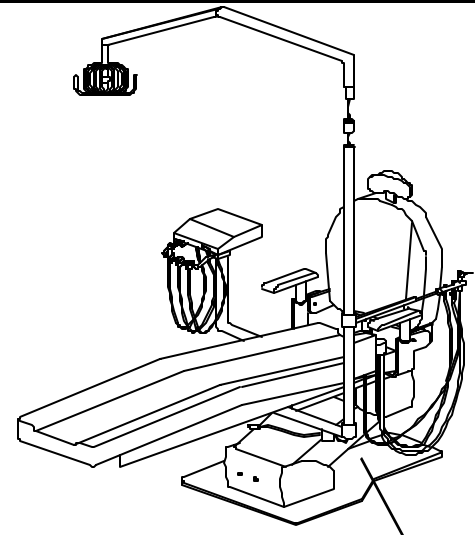
8. The Chair America delivery system's post and arm are leveled at the factory and we have labeled the mounting cup indicating the direction it should be facing when mounted to the plate. However the site conditions (unlevel floor) may give the appearance of the system being unlevel. You should contact the factory for instructions on the easiest way to adjust the leveling of the post and dental delivery system.

9. If you have purchased an America Dental operating light proceed to Dental Light Installation Step 4



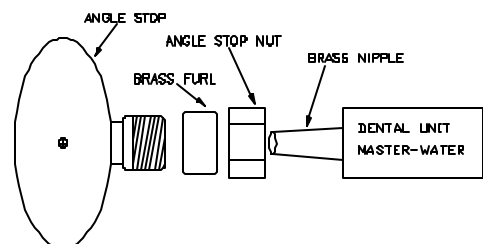
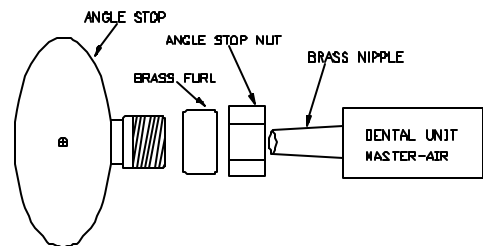
# DENTAL LIGHT & JUNCTION BOX INSTALL

1. Inside the Dental Unit box is one small box and one large box which contains the Diamond 2003 Dental Operating Light.
2. Locate the large box and remove the dental operating light, set the dental operating light aside.
3. Verify the Nylon Light Bushing is in the top of the post. If not locate it in the accessory box and insert prior to sending the light cord down thru to 2 inch post.
4. Raise the Dental Operating Light up to the top of the Dental Delivery System post and feed the Dental Operating Light electrical cord (without the plug on the end) through Dental Delivery System post to the bottom of the Dental Chair mounting bracket.
5. Install the transformer on the bottom of the dental unit mounting plate, plug the low voltage electrical cable from the dental light into the transformer. Be careful to line up the pins (Male and Female) correctly and do not force or you will damage the connector.
6. Plug the 120v plug into the convenience outlet located under the seat frame.



**NOTE: The New Diamond Dental Lights have remote transformes see diagram.**

1. Locate the Dental Junction on the end of the 4" umbilical tube attached to the Dental Delivery System.
2. Remove the packing material and wrapping from the Dental Junction Box.
3. Place the Dental Junction Box over the Plumbing (Air, Water, Vacuum, Drain and Electric outlet) as per the instructions in the Pre-Installation Guide Section 1.
4. All the necessary parts have been supplied by Dansereau Health Products Inc., if you have followed the Pre-Installation Guide.
5. Depending which model you have purchased from Dansereau Health Products there will be 4 to 5 connections to be made.
6. Locate the Air and Water Master Valves in the Junction (They are noted with ORANGE AIR and WATER stickers on the side of each of the valves.)
7. The plumber has installed two angle stops in locations per the Dental Delivery System Junction Schematic (Forwarded previously).
8. Locate the two angle stops in the Dental Junction and remove the nut and brass furl from the angle stops.



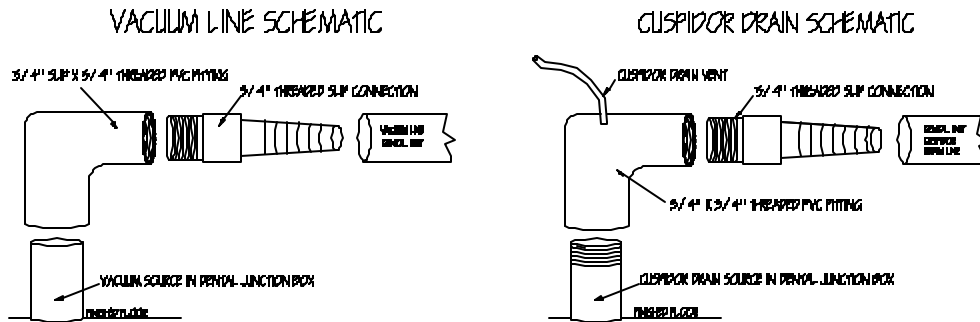
9. The Air and Water Master Valves have a brass nipple on the ends-slide the nuts and brass furls on the ends of the brass nipples.
10. Insert the brass nipple into the angle stop and slide the nut and furl up to the angle stop and thread it on to the angle stop. Tighten the nut with a 3/8" open end wrench FIRMLY BUT DO NOT OVER TIGHTEN. (Brass and copper are soft pliable materials).
11. The Air and Water connections to the Dental Delivery System are now complete.

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## DENTAL JUNCTION BOX INSTALLATION (Continued)

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12. Locate the Vacuum Line (It is noted with an orange VACUUM tag.)
13. Locate the Vacuum Source in the Dental Junction Box.
14. Dansereau Health Products Inc. has supplied a 3/4" thread X 3/4" slip PVC fitting.
15. Slip the PVC fitting over the Vacuum Source in the Dental Junction Box-DO NOT GLUE IT YET!!!!
16. Dansereau Health Products Inc. has supplied a threaded slip fitting for the Vacuum Line.



17. Thread the slip fitting into the PVC fitting at the Vacuum Source in the Dental Junction.
18. Slide the Vacuum Line onto the slip fitting at the Vacuum Source in the Dental Junction Box, you may be required to reduce the length of the Vacuum Line to obtain the proper fit. (If the Vacuum Line is difficult you may use a lubricant Vaseline or WD-40 etc. to ease the Vacuum Line on)
19. If you have purchased a Chair America delivery system without a cuspidor your Dental Junction Box Installation is complete. You can attach your Dental Junction Box to the floor with screws and lags. Three or four screws will be sufficient.
20. If your Chair America delivery system has a cuspidor bowl system proceed to # 21
21. Locate the cuspidor drain the plumber should have installed a 3/4" threaded nipple, in the Dental Junction Box.
22. Locate the Cuspidor Drain Line in the Dental Junction Box. (It is noted with an Orange DRAIN tag)
23. Dansereau Health Products has supplied you with a threaded 3/4" X 3/4" threaded PVC 90 elbow.
24. Thread the PVC fitting (supplied by Dansereau) onto the 3/4" nipple (supplied by the plumber).
25. Dansereau Health Products Inc. has supplied you with a 3/4" threaded slip fitting.
26. Thread the 3/4" slip fitting into the PVC fitting and slide the Cuspidor Drain Line onto the fitting (If the cuspidor drain hose is difficult you may use a lubricant Vaseline or WD-40 etc. to ease the Cuspidor Drain Line on.)
27. The Cuspidor Drain Line may require a C-clamp to insure no leakage, you may purchase it at any local hardware store.
28. The Dental Junction Box has been designed to house the electrical source to power the chair and delivery system, however, it is not a requirement and electrical power from a standard 120v convenience outlet located within reach of the chair power cord is acceptable.
29. You may now plug in the chair electrical cord into the power source. DO NOT USE ANY EXTENSION CORDS.
30. The remaining items to install are the vacuum drain assembly and the Water Supply Tubing to the Cuspidor Bowl, the Cup Filler Tubing and the Vacuum Amalgam Filter with the HVE and Saliva Ejector hosing attached.
31. Locate the Cuspidor Bowl Water Supply Tubing and the Cup Filler Tubing (in the same small box as the PVC fittings etc.) and insert them in the appropriate fitting holes. A slow twisting motion should allow you to ease them in. If you have any resistance apply a light coating of a lubricant - vaseline, handpiece oil, etc. and the tubings will easily slide in.
32. Locate the Vacuum Amalgam Assembly (within the same small box as the PVC fittings, etc.). The Vacuum Amalgam Filter Assembly will hang on the clip on the telescoping arm attached to Cuspidor Bowl Assembly or the Assistants Telescoping Arm depending on which Chair America delivery system you have purchased.
33. The Dansereau Health Products Chair America delivery system and Dental Operating Light installation is now complete.
34. Remove the remaining packing material from the Chair America and Dental Delivery System and discard the boxes and material.
35. All adjustments for the Air and Water have been made at the factory and it is not recommended that you do any adjustments in the field unless you contact the factory for instruction.
36. All the adjustments for the Chair America have been made at the factory, however you can adjust the pre-positioning feature.
37. If your equipment requires any minor adjustments contact the factory and speak to a Factory Authorized Service Representative who will assist you.

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# OPERATIONAL GUIDE: Chair America Delivery Systems

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## **AUTOMATIC DELIVERY SYSTEM**

1. The 3 Handpiece Automatic Delivery System has three automatic handpiece holders.
  - A. The slow speed handpiece attachment does not have water available.
  - B. The two high-speed handpiece attachments have the availability of water. The water may be turned off by activating the water on/off switch on the front control panel of the dental delivery system head. The water volume for two high speed handpieces can be controlled with the water control valve knob located on the front control panel of the dental delivery system.
  - C. The air flow to all three handpiece connections has been set at the factory. If you require additional adjustments to the handpiece connections contact the factory and an Authorized Factory Service Representative will assist you.

## **DENTAL DELIVERY SYSTEM AIR LOCK ARM**

1. The Chair America Delivery Systems use the industry standard air lock to hold the dental head and tray in one position allowing the doctor to place heavy items on the tray and head to maintain a stationary position.
2. To disengage the air lock system locate the gray toggle switch on the right side of the dental delivery system head and disengage (turn off) the switch whenever you require the dental delivery system arm to be in a different position.

*IMPORTANT: THE AIR LOCK SYSTEM MUST BE DISENGAGED WHEN THE DENTAL DELIVERY SYSTEM ARM IS USED. FAILURE TO DO SO WILL PREMATURELY WEAR OUT THE AIR BRAKE AND CAUSE THE AIR SYSTEM IN THE ARM TO FAIL.*

## **3-WAY SYRINGE**

1. The Chair America Delivery Systems are available with a 3-way air and water syringe. The syringe has two buttons, one to activate the water portion of the syringe and the second to activate the air portion of the syringe.
2. You activate either the air or water by depressing the appropriate button.
3. You activate both the air and water by depressing both of the buttons simultaneously.

## **CHAIR AMERICA CUSPIDOR WITH ASSISTANTS PACKAGE**

1. The Chair America cuspidor systems standard package is equipped with a timed rinse bowl. To activate the timed rinse bowl depress the white button on the underside of the cuspidor frame activation buttons are mounted on both sides of the cuspidor frame. The timer is preset at the factory to increase or decrease the amount of water flow. The adjustable valve under the cuspidor frame will allow you to adjust it accordingly to increase or decrease your preferred time of water flow by turning the knob clockwise or counterclockwise. Dansereau Health Products does not recommend that the cuspidor operate continually with constant water flow, however it is possible to adjust the timing valve to allow for continuous water flow. Contact the Factory Authorized Service Representative for additional information.
2. The Chair America cuspidor systems standard package is equipped with a manual cup filler. To activate the manual cup filler locate the white push button on the underside of the cuspidor frame and depress the button until the water in the cup is at the desired level. Release the pressure on the white push button to deactivate the manual cup filler and stop the flow of water.
3. The Chair America cuspidor system is equipped with a water quick disconnect. To activate the water quick disconnect insert the male portion of the device quick disconnect into the female quick disconnect (located on the cuspidor mounting box underneath the cuspidor).
4. The Chair America cuspidor system is equipped with a low voltage switch. The low voltage switch is used to activate the central vacuum from the chair side (if the doctor requires it and the installation of the central vacuum system allows it).

**This is a low voltage electric line do- not use the low voltage line in any application requiring more than 12 volts of electricity.**

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## **OPERATIONAL GUIDE: Chair America Delivery System (cont.)**

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5. The Chair America cuspidor system is equipped with a standard assistants package.
- A. The High Evacuation system is equipped with a lever type valve to open high evacuation line for use. The HVE valve lever moves up and down to activate and deactivate the HVE line.
  - B. The Saliva Ejector system is equipped with a lever type valve to open the Saliva Ejector line for use. The Saliva Ejector valve lever moves up and down to activate and deactivate the Saliva Ejector line.
  - C. The Chair America cuspidor system includes a 3-way syringe as a standard feature. Refer to the Chair America delivery system for additional instructions on use of the 3-way syringe.
  - D. The Chair America cuspidor system high speed evacuation system is equipped with an amalgam trap. The amalgam trap is in-line with the assistants package high evacuation and saliva ejector. The amalgam trap is mounted on the telescoping assistants package arm mounted on the cuspidor (Package 2 and Package 4) and on the telescoping arm mounted on the chair light post. The amalgam trap should be cleaned of all debris **on a daily basis**. The vacuum pump should be off when cleaning the amalgam trap and latex gloves and eye protection should be worn. Refer to the vacuum manufacturers owners manual as to when and what type of vacuum system cleaner should be used. Do not use any caustic plumbing cleaners on your vacuum system (DRANO, LIQUID PLUMBER ETC...)

### **OPERATIONAL GUIDE: Care and Maintenance of Surfaces and Cushions**

In the battle against cross-contaminant in the dental office, it is now recommended and common practice to wipe and or spray chemical solutions on dental equipment surfaces upon the conclusion of the treatment of each patient. The manufacturers of the sterilization solutions currently used in the dental office do not list the negative effects on the surfaces of the dental equipment on the labels of their products.

Dansereau Health Products has tested and selected sterilization solutions which have proven to be " simply the best " for longest life, reliability and chemical resistance. There are some chemicals, however, when applied to otherwise durable molded parts, which can induce premature failures, such as staining or future stress cracking.

IMPORTANT: Dansereau Health Products has tested some solutions in an attempt to predict the chemical resistance and life span effects of their use on the plastics and surface coatings on Dansereau Health Products dental equipment. Test solutions are mixed and used according to the sterilization solution manufacturer's instructions ONLY.

Tests are ongoing and results may change at any time as manufacturer's may change the formulas of the sterilization solutions or new effects may become evident as a result of continuous use over extended periods of time.

Dansereau Health Products will continue to update you on these ongoing test results.

This data is provided only to inform Dansereau Health Products equipment end users (Dentists') to assist in their choice in the type of sterilization solutions to use. It is the dentists sole responsibility to make their own informed purchase and use choices about the complex subject of asepsis in the dental office.

### **DANSEREAU HEALTH PRODUCTS RECOMMENDS THE FOLLOWING DISINFECTANTS FOR USE ON THEIR EQUIPMENT**

#### **COMPANY/BRAND**

##### **Iodine based Iodophors**

Biotrol International/Biocide, Cottrell Limited/Promedyn Iodo-Five, Amsco Medical Products/Wescodyne, Huntington Labs/Asepti-IDC, MDT Corp./SD%

##### **Mild Phenol Sprays**

Cottrell Limited/Prodcide ES, Huntington Labs/Asepti-Sterly Aerosol

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# **Required Maintenance Schedule**

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## **DAILY**

1. Clean out vacuum lines solids collector in each operatory and run Vacuum System Cleaning solution through the vacuum system.
2. Replenish the developing and fixing solutions in the X-ray processor or manual developing tank.
3. Lubricate handpieces. Remove burs, clean and lube prophylaxis angles and contra angles.
4. Check solution or water in sterilizer.
5. Turn off vacuum and compressor.
6. Clean nitrous oxide nasal hoods after every use. DO NOT USE ALCOHOL.
7. Turn off water valves (water solenoid) at night to prevent possible flooding.

## **WEEKLY**

1. Clean X-ray processor transports or manual developing tank according to manufacturer's instructions.
2. Empty solution from the ultrasonic cleaner and clean the tank.
3. Clean the solids collector on the vacuum pump-wear a mask and gloves!
4. Check oil level in the air compressor.
5. Clean the sterilizer according to the manufacturer's instructions.
6. Drain the water /condensation from the air compressor-if applicable.
7. Clean and condition the dental chair and operating stools cushions and surfaces.
8. Back the chuck out of the handpiece-clean the slots with a narrow instrument like a surgical blade. Spray lubricant into the hole where chuck was removed. Replace the chuck to its original position.
9. Clean the dental light with recommended cleaner. Use a soft cloth. Make sure light is cool.
10. Remove the handpiece from the connector and allow water to flow from the handpiece hose.
11. Change the solution in the X-ray processor or the manual developing tank and clean the tank.

## **MONTHLY**

1. Check the master water filter and replace as required.
2. Clean the plaster trap.
3. Check the nitrous oxide safety level indicators -if applicable.
4. Check the dental delivery system air pressure with the handpiece on.
5. Check the rubber goods on the analgesia systems.
6. Check the contents of the emergency oxygen unit and rubber goods for deterioration.

## **SEMI-ANNUALLY**

1. Change the oil and air filter on the air compressor.
2. Lube the joints on the dental lights.
3. Clean the manual X-ray tanks with the manufacturer's recommended cleaner.

## **MISCELLANEOUS**

1. Save all equipment invoices for reference and warranty.
2. Keep a maintenance schedule on all office and dental equipment repairs
3. Save all office and dental equipment repair and maintenance invoices
4. Save all office and dental equipment manuals and trouble shooting guides.
5. Have your dental office and equipment appraised for insurance purposes.
6. Verify all employees have renewed all licensing requirements and updated CPR courses.