SERIES 4 MANUAL UNIT 4525 Installation and Operating Instructions

Package contains:

- 52" Flex arm, Manual Control Unit with umbilical and tubing
- Precision Comfort syringe
- Foot control
- 2" Post collar
- Bearing strip kit
- Stainless steel tray with holder
- Syringe repair kit

Tools needed:

- 1/4" and 1/8" sleeve tool
- Small and large flat blade screwdriver
- Post leveling tool

INSTALLATION INSTRUCTIONS



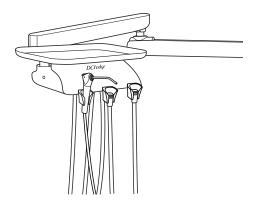
WARNING: The arm assembly for this control unit is spring loaded. Do not remove the shipping strap from the arm until the control unit is fully installed. Bodily injury could result from working with the arm assembly unrestrained.

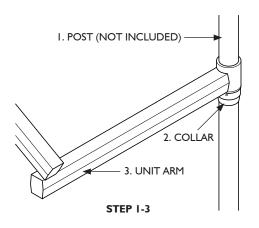
- 1. **Post:** Install a 2" post in the chair adapter of the dental chair. Level the post utilizing the manufacturer's post leveling adjustments. To prevent unit drifting the post must be perfectly leveled.
- 2. Collar: Slide the collar onto the post to the desired height of the rigid section of the flex arm in relation to the seat of the chair. Tighten the 3 set screws in the side of the collar with a 3/32 inch hex key. NOTE: Some chair seats will raise as the patient is put in the supine position. Be sure to place the collar with the chair in this position. Slide the plastic washer on top of the collar.
- 3. Unit Arm: Slide the hub portion of the unit arm down the post on top of the collar. NOTE: Additional bearing strips are provided with different thicknesses due to variances in finish on the posts. Use appropriate bearing strips in the arm hub to provide smooth action with no hub to post play. Remove the shipping strap from the arm and unwrap.
- 4. **Umbilical Tubing:** Run unit umbilical tubings either into post hole or directly into junction box at the base of the chair. Connect proper tubings to utility center:
 - 1/8" Red Water supply
 - I/8" Gray Regulated air
 - I/4" Gray Regulated drive air/air coolant
 - 8 conductor low voltage power cord as needed
- 5. Water and Air Supply: Open the manual shut-off valves in the utility center. Adjust regulated air to 80 psi and regulated water to 40 psi. When adjusting for a lower pressure, make the adjustment, and then press the syringe button to relieve the pressure to get an accurate pressure reading.

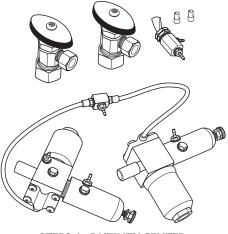
OPERATING INSTRUCTIONS AND UNIT FEATURES

HANDPIECE HOLDERS

The handpiece holders are designed to resist chemical discoloration and be easy to clean.







STEPS 4 - 5 UTILITY CENTER NOT INCLUDED



FLEX ARM

The pneumatic arm brake toggle is located on the underside of the control unit, in the front right corner. The brake keeps the vertical position of the arm assembly constant until the operator chooses to change it. To change the vertical position of the arm, pull the toggle forward to release the brake, reposition the arm to the desired position and release the toggle. It may be necessary to adjust the spring tension on the flex arm section of the pneumatic arm, depending on the extra weight added to the instrument tray. If the control unit drifts out of the vertical position when the brake is released extend the arm assembly fully and position it at its highest vertical height. Slide the long plastic strip out to expose the supply tubing running inside the arm. (See Figure 1). The opening under the tubing provides access to the spring and the tension adjustment brass collar. Spring tension is adjusted by turning the brass collar. To turn the collar, insert a flat blade screwdriver into one of the vertical slots on the collar. Gently pry against the edge of the opening in the arm until the collar turns. If the control unit drifts up, turn the collar counter-clockwise to reduce tension (as viewed from front of control unit). If the control unit drifts down, turn the collar clockwise to increase tension. Turn the brass collar two or three complete turns, then release the brake toggle to see if the control unit moves. Continue adjusting in increments of two or three turns as needed.

CONTROLS

Water coolant is only provided to handpiece #2. The handpiece #2 water on/off switch is located on the underside of the unit on the left. The water coolant flow control knob controls water to handpiece #2 and is located on the underside of the control unit, near the back on the left. The handpiece selector switch is located on the underside of the unit in between the handpiece tubing 1 and 2 - use this to toggle between handpiece #1 and handpiece #2. The drive air pressure gauge indicates the operating pressure of the selected handpiece. It is located on the underside of the control unit chassis. The drive air adjustment screws are located on the underside of the control unit, in the back. Handpiece drive air pressure should be adjusted to the handpiece manufacturer's recommendation. (See Figure 2.)

SYRINGE

The #4525 comes with a Precision Comfort syringe. The syringe is packaged in a shipping envelope, with operating instructions and a repair kit attached. The syringe goes in the holder on the far left side of the instrument holder bar. Adjustment screws for the air and water flow to the syringe are located on the underside of the control unit, in the rear left area. Use the 3/32 inch ball driver provided with the unit to turn the hex screws counter-clockwise to increase the flow of air or water, clockwise to decrease the flow.

FOOT CONTROL

Handpiece speed is controlled with the foot control disc. Varying pressure on the foot control disc controls speed. Air coolant is also provided when you step on the foot control disc.

CONTROL HEAD

The control head can be cleaned with most commonly available surface disinfectants. Do not use any Sodium Hypochloride solutions, or any cleansers containing alcohol. These may cause paint and finish discoloration. To gain access to components remove screw retaining cover using a 3/32 inch hex driver- lift cover up and remove from rear hinge.

DENTAL UNIT WATER LINE MAINTENANCE

Distilled water is not recommended for use in dental units. The Center for Disease Control and the American Dental Association can provide recommendations on when to flush your system, for how long, and what products to use.

CLEANING AND MAINTENANCE

Do not use powdered cleansers, scouring pads, or abrasive scrubbers on any of the finished metal surfaces in this unit, i.e. the syringe or the foot control disc. Sodium Hypochloride will also damage these surfaces.

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