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Technical Guideline

CAVITRON Ultrasonic Installation Instructions

TG-NP-0016

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PURPOSE

The purpose of this Technical Guideline is to provide steps for installing a CAVITRON Ultrasonic unit into an ASI delivery system.

WARNINGS



WARNING! Only qualified personnel should service or repair this device. This device should only be serviced/repaired by a qualified service technician who is proficient in the repair of electromechanical dental equipment and who understands the complexities and risks of working within the device and observes proper safety precautions.



WARNING – Compressed Air. The compressed air system that operates this unit is under pressure. Compressed air can propel dust or loose particles and can cause bodily injury or damage. Always turn the system off and bleed off air pressure before attaching or removing air lines or accessories or servicing this unit. All air lines should be periodically inspected and replaced if worn or damaged. If an outside compressed air supply is used to power this unit, the air supply must be regulated to 80 psi or below. Excessive air pressure could cause certain components to rupture.



WARNING – Electrical Voltage. This system is powered by high voltage electricity. Like any other electrically powered device, if it is not used properly, it can cause electrical shock. Always plug the power cord into an electrical outlet with adequate fuse protection and proper grounding. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. Improper grounding of the unit can result in a risk of electric shock. Always unplug the unit before doing any service or repair to the unit.



WARNING – Infectious Materials. Infectious disease workplace safety protocols to safeguard against cross contamination of infectious disease should always be observed. When maintaining the suction system or emptying the contents of the suction waste container, safe precautions and practices including the wearing of face mask, eye protection and gloves are to be followed.

INSTRUCTIONS

1. Turn off electrical power and compressed air supply to the delivery system.
2. Place the CAVITRON inside the cart in the right corner where double-sided tape is pre-installed. (Fig. 1)

Make sure that the wire harness and tubing are toward the back of the cart.



Fig. 1



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3. Pull the blue knob of the wire harness and proceed to install the controller into the pre-drilled hole on left side of the cart. (Fig. 2)

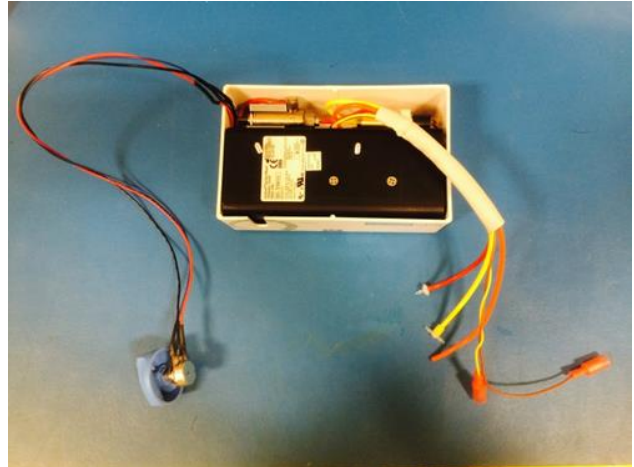


Fig. 2

4. Cut ¼" yellow tubing where it is marked with black marker and tee the yellow tubing from the CAVITRON.
5. Unplug the safety loop blue tubing from the control block and connect red tubing from CAVITRON. (Fig. 3)

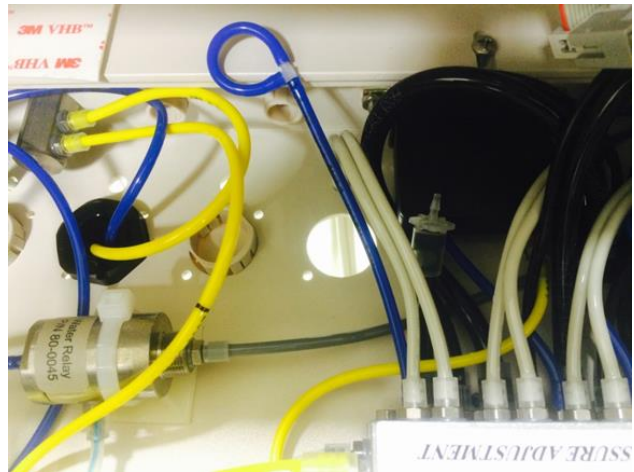


Fig. 3

6. Connect orange tubing from CAVITRON to large ¼" black tubing from control block. (Fig. 3)



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7. Connect power wires with bullet connectors from CAVITRON to wires showing in (Fig. 4) from cart transformer.

Note: wires are bidirectional.



Fig. 4

8. Run the handpiece tubing through the appropriate hole and connect it into the side of CAVITRON.