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Technical Guideline

Installing an Air Pressure Safety Relief Valve

TG-95-0292

Rev B | 26 Oct 2015 | Page 1 of 4



WARNING! Only qualified personnel should service or repair this device. This device should only be serviced/repared 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 – Presence of Heavy Metals/Amalgam. This cart may be equipped with optional suction instruments. As part of dental procedures, particles of amalgam may be suctioned into the dental suction handpieces and collected within the system and trap filter.



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.

PARTS INCLUDED

- Safety relief valve with 3/8" OD push in connectors
- Warning label

TOOLS REQUIRED

- Phillips head screwdriver
 - Side cutters or tubing cutters
 - Tape measure
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Rev B | 26 Oct 2015 | Page 2 of 4

INSTRUCTIONS

1. Turn off main power. Unplug unit from outlet and air supply to unit.
2. Run air tank purge to relieve all compressed air in the system. (Fig. 1)



Fig. 1

3. Remove the adhesive liner from the back of the warning label provided. Carefully place the label on the upper portion of the back panel between the water bottle brackets and immediately below the perforation area for the cooling fan. (Fig. 2)



Fig. 2



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Technical Guideline

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Rev B | 26 Oct 2015 | Page 3 of 4

4. Unscrew the fasteners holding the back panel and open using a Phillips head screwdriver.

5. Locate the rigid tubing that runs from the air compressor up to the air tank. (Fig. 3)



Fig. 3

6. Measure 4" down from the tank (Fig. 3). Then using side cutters or tubing cutters, carefully cut the tubing in half. (Fig. 4)



Fig. 4

7. Place the "T" manifold holding the Safety Relief Valve in-line and firmly push in each end of the tubing into the push-in connectors. (Fig. 5).

Check to see tubing is inserted correctly by pulling on the tubing away from the manifold to ensure it is secure. (Fig. 6) If not, push the tubing in further and recheck.



Fig. 5



Fig. 6



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TG-95-0292

Rev B | 26 Oct 2015 | Page 4 of 4

- Verify that the pressure switch on the unit is the correct rating. Loosen the chrome nut on the gray cap of the pressure switch (Fig. 7)

Remove the cap and read the label on the inside. It should state that the pressure indication for "OFF" is 100 psi (Fig. 8)

IMPORTANT: If a different after-sale brand of pressure switch has been installed on the unit, verify that the pressure indication is rated to turn off at 100 psi. If the pressure switch is rated above 100 psi, do not use the unit and contact ASI for a correct replacement part (PN95-0264).



Fig. 7



Fig. 8

- Once the pressure switch rating is verified as correct, place the back panel back on and secure with the fasteners using a Phillips head screwdriver.
- Plug in the unit, restore power, and allow the air compressor to build up pressure. Test for proper function by ensuring the compressor shuts off and that there are no air leaks.