

PURPOSE

This technical guide shows how to replace the master air regulator with manifold on a self-contained cart.

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PARTS INCLUDED

- 95-0178C Master Air Regulator with purge and manifold

TOOLS REQUIRED

- Flat head screwdriver

INSTRUCTIONS

1. Depressurize air tanks and then turn off the system and unplug from the power outlet.
2. Open the back panel using a flat head screwdriver to release the two cam latches, by turning counter-clockwise.
3. Locate the pressure regulator near the top right of the inner compartment.

Then loosen and remove the large plastic nut that is holding the regulator in the bracket; see Fig. 1.



Fig. 1
Master Air Regulator

4. Release the tubing connected to the push-to-connect fittings on the regulator.

NOTE: Two are located on the bottom of the regulator filter bowl and one is located on the back of the regulator (towards the front of the cart); see Fig. 2.



Fig. 2
Push-to-Connect Fittings

5. Release the manifold from the quick-disconnect fitting, by pressing on the tab on the quick-disconnect socket and pulling out the manifold.

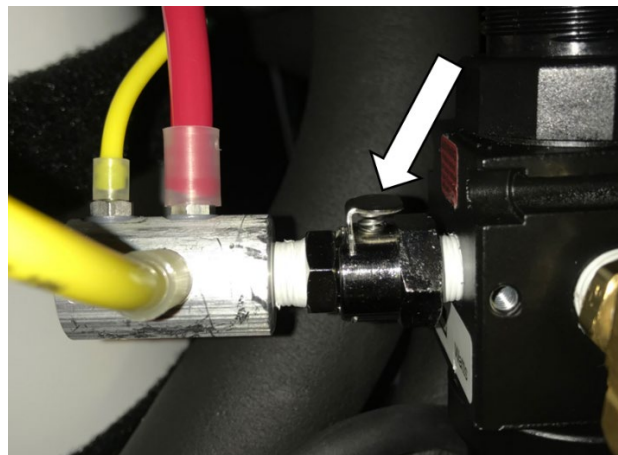


Fig. 3
Manifold Quick-Disconnect

6. On the new regulator reconnect the manifold by inserting the manifold plug into the quick-disconnect socket. Then reconnect the tubing back into the push-to-connect fittings.
7. Slide the top of the regulator back through the mounting bracket and secure it using the plastic nut.

WARNINGS & CAUTIONS



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.



CAUTION! The irrigation system may contain chemicals that are caustic or corrosive. Always verify with the operator of the system to determine which chemicals they are using within the system. Always follow workplace safety protocols when doing maintenance or service of the system including the wearing of face mask, eye protection and gloves for proper protection of exposed skin, breathing and eyes.