

## PURPOSE

This technical guideline provides information on how to replace a Master Air Regulator.

## PARTS INCLUDED

- Master Air Regulator
- TG-80-0188 Remove/Replace Suction Canister

## TOOLS REQUIRED

- Phillips head screwdriver, short, stubby
- Flat head screwdriver, medium
- Flat head screwdriver, small
- 3/4" wrench

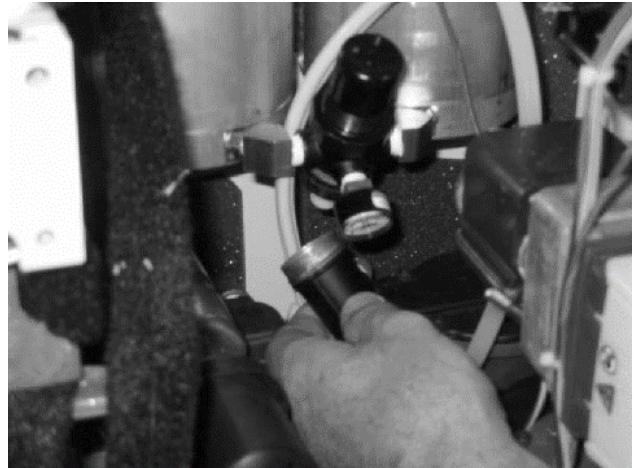
## INSTRUCTIONS

1. Unplug the power cord to the unit, and depressurize the system.
2. Follow removal instructions described in Technical Guideline TG-80-0188 to remove the suction canister.
3. Disconnect the tubing from the bowl and filter of the master regulator, by unscrewing the hex cap on the compression fitting. Then cut the tubing just below the ferrule sleeve.



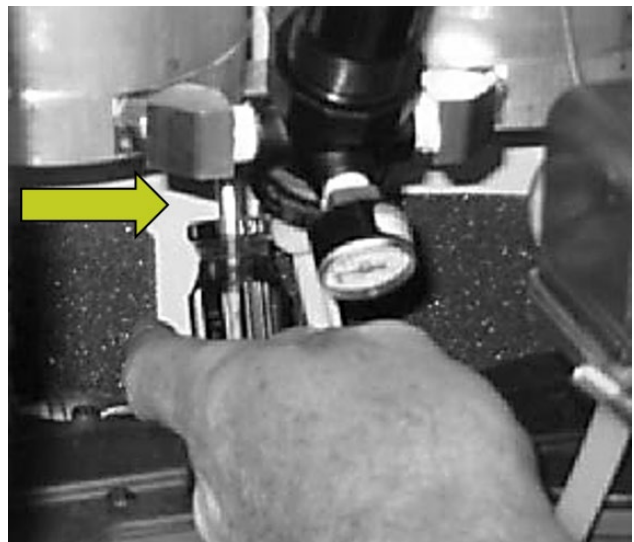
**Disconnecting purge tubing**

4. To gain access to the screws holding the air tank, remove the bowl and filter from the master regulator, by unscrewing it (may need 3/4" wrench).



Removing bowl and filter from master regulator.

5. Using a short, stubby Phillips screwdriver, remove the three (3) screws from underneath the left air tank.



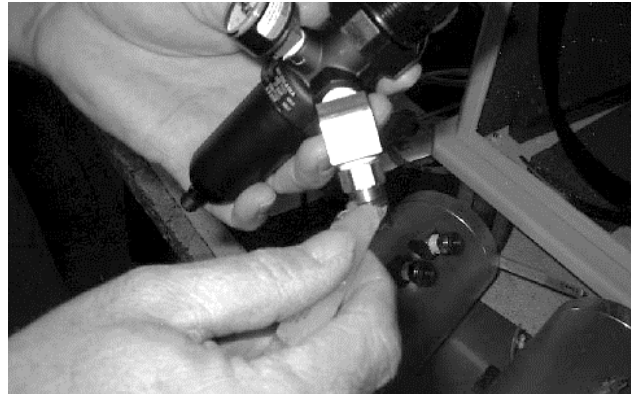
Using Phillips screwdriver, remove screws

6. Once screws have been removed, firmly grasp the regulator and pull to the left until it slides out of the air tanks.



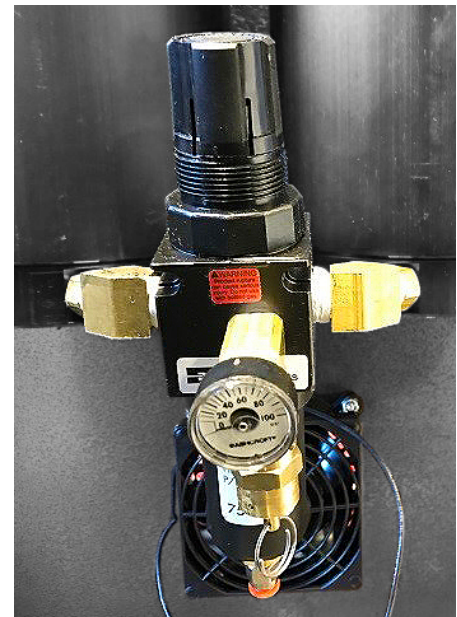
Grasp regulator and pull out of air tanks

7. Apply provided silicon grease to each side of the new regulator.



**Apply silicon grease to each side of the regulator**

8. Slide the brass fitting into the left air tank until it completely seats.
9. Repeat on the right side until it completely seats.



**Insert new master air regulator until it is completely seated.**

10. Hand-start all three (3) screws that go into the bottom of the left air tank. Then, firmly tighten with Phillips screwdriver.
11. Reconnect the tubing that was disconnected in Step 3 by sliding on the compression fitting cap then a new ferrule sleeve and tighten on the fitting connected to the regulator bowl.
12. Replace the suction canister following replacement instructions described in TG-80-0188.
13. To ensure the absence of all air leaks, turn on system and power up the air compressor.  
If necessary, adjust to 75-80 psi by lifting the cap on the regulator and turning clockwise to increase or turning counterclockwise to decrease.

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## 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.