



The Leader In Advanced Systems Integration
Advanced Dental Systems® & Advanced Endodontic Systems®
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Technical Guideline

Replacing the Purge Pump, Pump Head, or Pump Motor

TG-95-0293
TG-95-0307
TG-95-0308

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PURPOSE

These instructions cover replacement of components for the Purge Pump. Components include the Entire Pump Assembly (95-0293), the Pump Head Only (95-0307) or the Pump Motor Only (95-0308). The initial steps are the same for each component.

WARNINGS



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 – 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.

PARTS INCLUDED

- Purge pump

TOOLS REQUIRED

- Flat head screwdriver
- Phillips head #2 screwdriver
- Wire crimpers
- 5/16" wrench

A. GETTING STARTED - INITIAL STEPS

A1. Turn off power to unit.



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- A2. Open back panel of unit using a flat head screwdriver. There are two quick-turn screws on the back of unit. Move suction tube and electrical cord out of the way of back door. (Fig. 1)



Fig. 1

- A3. Locate peristaltic purge pump housing and open to access the tubing. (Fig. 2)

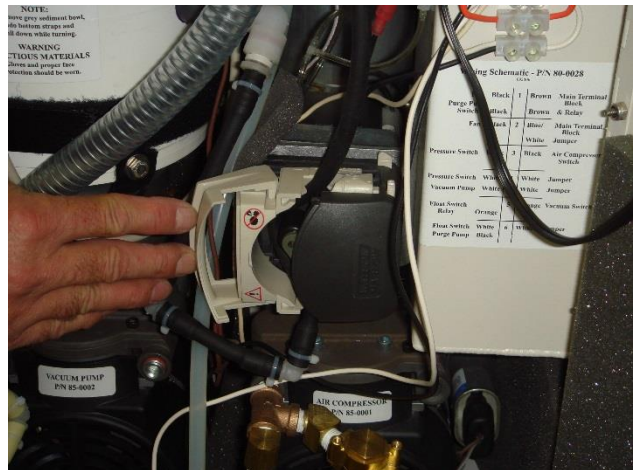


Fig. 2



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A4. Remove the existing black or beige purge pump tubing from the housing. (Fig. 3) (Fig. 4)

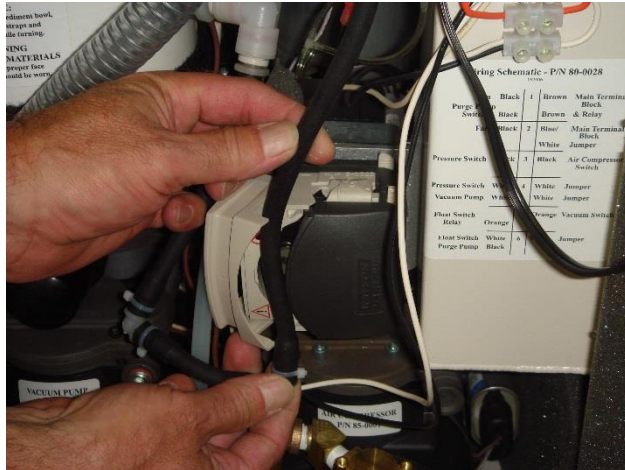


Fig. 3



Fig. 4

B. INSTRUCTIONS FOR REPLACEMENT OF COMPLETE PUMP ASSEMBLY (95-0293)

B1. Disconnect the bullet connectors from the purge pump wires. (Fig. 5)

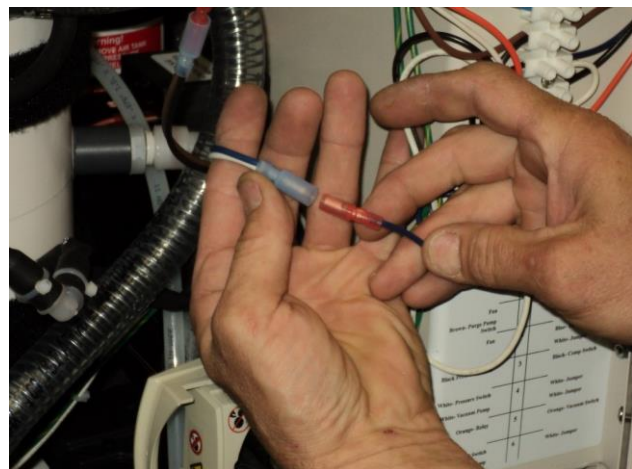


Fig. 5



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- B2. Unscrew the purge pump from the water housing. The four screws that hold the pump are accessible from the left door of the cart. (Fig. 6)



Fig. 6

- B3. Crimp the bullet connectors the exact same way that are on the wires of the old purge pump.
- B4. Install the new purge pump by reversing the above steps.
- B5. Turn system on and suction up a small amount of clean water. Then, turn on purge pump switch to make sure it is purging properly and that there are no leaks.

C. INSTRUCTIONS FOR REPLACEMENT OF PUMP HEAD (95-0307)

- C1. Locate the release tab on the side of the pump head and depress. (Fig. 7)



Fig. 7



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- C2. While holding the tab down, rotate the pump head counter clockwise 45 degrees. (Fig. 8)



Fig. 8

- C3. Pull the pump head from the shaft to remove. (Fig. 9)



Fig. 9

- C4. Place the new pump head onto the shaft and align with the bracket.

- C5. Rotate clockwise to secure.



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D. INSTRUCTIONS FOR REPLACEMENT OF PUMP MOTOR (95-0308)

D1. Disconnect the bullet connectors from the purge pump wires.

NOTE: To replace the motor, it will require removing the pump head to gain access.

D2. Locate the release tab on the side of the pump head and depress.

D3. While holding the tab down, rotate the pump head counter clockwise 45 degrees.

D4. Pull the pump head from the shaft to remove.

D5. Remove the three screws from the bracket and remove along with the spacers. It may be necessary to use a small wrench to hold the locknuts from behind the motor housing while removing the screws. (Fig. 10)



Fig. 10

D6. Remove the remaining screw holding the motor to the metal bracket. (Fig. 11)



Fig. 11

D7. Remove and replace the motor with the new one.

D8. Reverse the above steps to complete the installation and then verify the pump is working.