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From the pioneers in dental air abrasion.

PrepStart™ H₂O



OPERATORS MANUAL



Danville

INNOVATIVE DENTAL PRODUCTS

H₂O ACCESSORY INSTALLATION TO EXISTING PREPSTART UNITS ONLY

(If you have purchased the PrepStart H₂O as a complete unit, please skip to section “A. Preparing your PrepStart H₂O for use.”)

Your H₂O unit comes equipped with a .019 nozzle. An optional .015 nozzle can be purchased separately from Danville.

Note: You will need a #2 Phillips screwdriver for installation

1. Disconnect air supply line from the PrepStart and turn On/Off toggle switch in rear to off position (Down).
2. Open abrasive cap and discard abrasive powder.
3. Remove black O-ring located below the abrasive jar threads, be careful not to damage O-ring. It is easily removed using an explorer, slide it under the O-ring, hook it and lift it off. If damaged, it must be replaced prior to use.
4. Turn the PrepStart upside down. Using a Phillips screwdriver, remove the 4 screws located in deep pockets near each corner.
5. Turn the PrepStart right side up again, caution as the screws are loose and so is the cover. Lift the top cover off by grasping the rear of the cover, pivot the cover up at the rear and detach from the front bracket, some force may be required to dislodge from this bracket.
6. Note: Do not attempt to install the H₂O sidecar already attached to the new cover, this will cause an improper fit with the base.
7. Attach the new H₂O cover by installing the plastic clip in the front of the cover into the metal bracket on the front bezel, ensure the plastic clip is fully engaged in the metal bracket, pivot the rear of the cover down and align the four (4) screw bosses in the base and the cover. Replace the four (4) screws previously removed and tighten, caution do not over-tighten the screws. Replace the O-ring and abrasive jar cap. The cover and base should be even (see picture).
8. Install the H₂O sidecar accessory using a #2 phillips screwdriver and the three (3) screws provided, leave them slightly loose for now.
9. View the PrepStart H₂O from the front of the unit and ensure the sidecar and PrepStart bezels are aligned vertically (see Fig 1), then tighten the screws, do not over-tighten.

A. Preparing your PrepStart H₂O for use

1. The PrepStart H₂O is a portable compact system and can be located conveniently on a countertop or roll-around tray.
2. Attach the foot pedal supplied with the unit to the rear of the unit, the connectors are colored coded, the red and blue go to the back of the PrepStart while the green attaches to the back of the water unit (see Fig 2), hand tighten all connections until firmly secured to avoid leaks.
3. Attach the hand piece to the front of the PrepStart H₂O, the dark gray tubing with the metal end attaches to the PrepStart abrasive exit port first, the clear luer style fitting attaches to the water unit (see Fig 1).
4. Fill the water bottle with distilled water, temperature of the water should not exceed 115° F, and screw bottle cap in place with fitting facing the back of the unit by holding the white portion of the cap and screwing the

blue ring in place, hand tighten only. Note: Only use distilled sterile water.

5. Attach the blue line with white fitting to the white fitting in the base of the water unit and the two (2) yellow fittings together, hand tighten (See Fig 2).
6. Reconnect the air supply line to the PrepStart unit.
7. **Test cutting performance without water spray.** Flip the water toggle switch located at the rear of the unit to the OFF position. The toggle level should be pointing to the left when viewing the unit from the rear. Turn on the PrepStart main toggle switch to activate the unit, this is the larger toggle switch located at the rear of the PrepStart, ON is in the up position. Once in the ON position you should have a pressure reading on the pressure gauge located on the front bezel of the PrepStart. Evaluate cutting performance on extracted tooth without the water spray. Adjust air pressure and powder flow using gray control knobs on front panel of main PrepStart unit to the desired settings.
8. **Adjust water flow to hand-piece in the absence of abrasive.**
 - a. Turn-off PrepStart main toggle switch.
 - b. Switch on water toggle-switch to the right.
 - c. While positioning hand-piece in a container, depress foot-pedal and observe water flow at hand-piece tip, allow a few seconds for water to flow from bottle to hand-piece tip.
 - d. Adjust water flow using gray knob located on front bezel of the water unit.
 - e. The water flow rate may need to be adjusted once you supply pressure to the hand-piece, if adjustment is needed repeat steps a-e.
9. Turn on PrepStart main toggle switch, verify you have a pressure reading of at least 60 psi.
10. Position hand-piece in beaker or garbage can and evaluate water spray and abrasive/air mix. If necessary, fine tune water flow (see section 8) to suite your needs. The PrepStart H₂O has three operating modes;
 - 1) compressed air/abrasive. Abrasive toggle ON, water toggle OFF.
 - 2) compressed air/abrasive + water. Both toggle switches ON.
 - 3) water only. Water toggle ON, abrasive toggle OFF.

B. Refilling the Water Bottle

1. Turn-off water toggle switch (located at the back of the water unit) controlling water flow.
When the water toggle switch is turned off, the compressed air in the water bottle automatically vents to atmosphere.
2. Remove bottle from its housing and unscrew the cap while holding the bottle.
3. Fill with distilled water, reattach the cap and place back in the housing.

C. Internal Water Lines & Water Bottle Cleansing Procedure

At the end of each day, the water lines of the PrepStart H₂O should be flushed with a disinfecting agent to prevent growth of micro-organisms. Potential disinfecting agents include isopropyl alcohol, ethanol, mouth rinse formulated with quaternary ammonium compounds, and hydrogen peroxide.

Do not use any chlorine containing compounds (e.g., hypochlorite, Clorox, hypochlorous acid, etc.) as these compounds will result in corrosion of the internal metal components.

Procedure to flush the unit:

1. Fill the water bottle with ~ 100ml of the disinfecting solution. Attach cap and shake bottle so liquid contacts the bottle walls. Place bottle in housing.
2. Verify that the main unit toggle switch is in the OFF position.
3. Flip water toggle switch to ON position.
4. Depress foot pedal and allow disinfecting solution to flow through unit out the hand-piece tip into beaker/sink. Leave disinfectant solution in water lines for sufficient time to achieve disinfection. Time period will depend on type of disinfectant used.
5. Flush remaining disinfectant solution through unit.
6. Purge unit with air, at least five (5) minutes to remove residual disinfectant from lines.

**D. Handpiece Cleansing Procedure – External Surfaces
(DO NOT STEAM STERILIZE HANDPIECE TUBING)**

- I. Place hand-piece in autoclavable pouch and place in a gravity displacement autoclave and sterilize at 275° F for 15 minutes, allow cooling before handling.

Do not utilize dry heat sterilizers or toaster ovens... i.e. Cox Sterilizer.

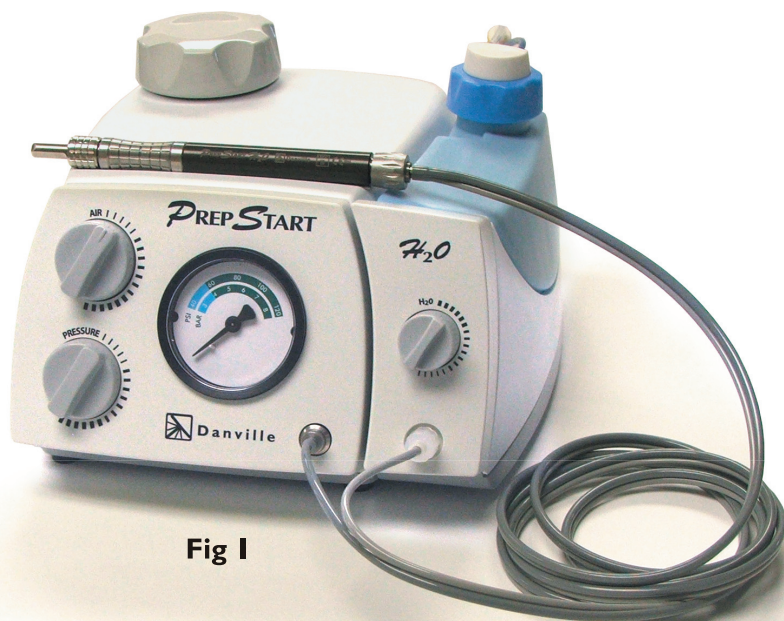


Fig 1

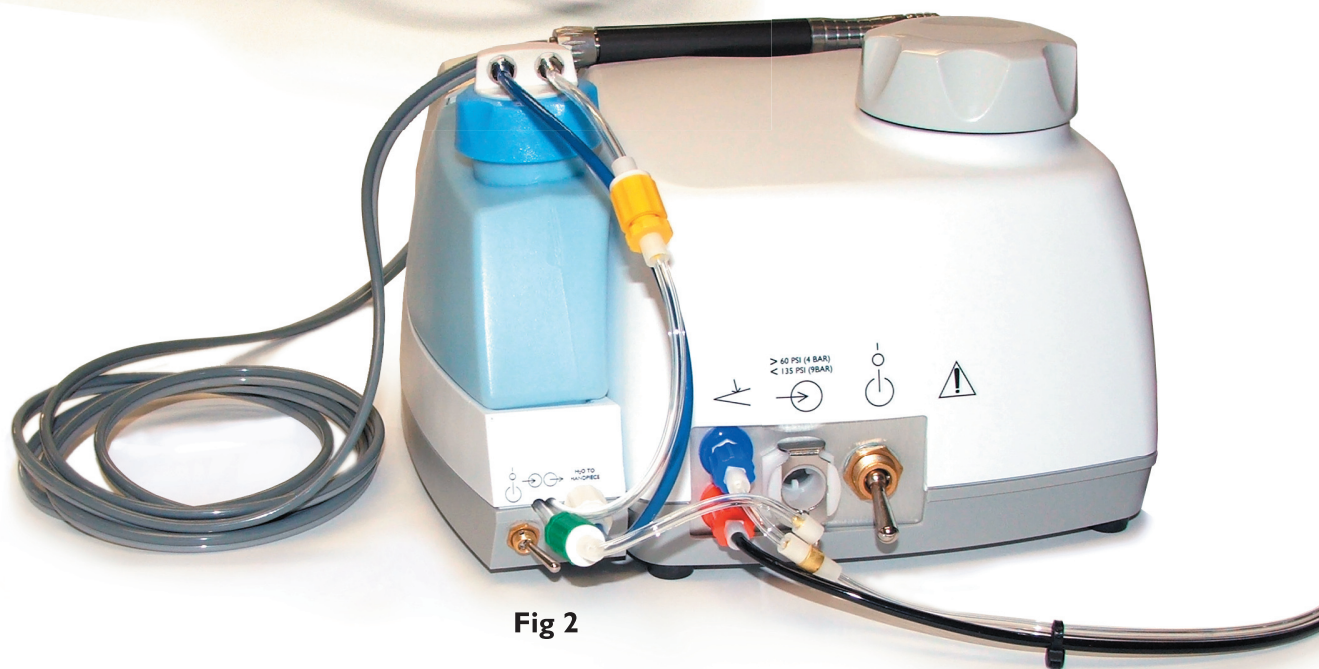


Fig 2

NOTICE

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