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Preventative Maintenance Guideline

Micro and Active Irrigation

TG-PM-0002

Rev A | 16 Jul 2015 | Page 1 of 4

PURPOSE

This Preventative Maintenance Guideline covers preventative maintenance for the irrigation system, including routine maintenance and replacing handpiece components. Performing maintenance on irrigation is essential for avoiding leaks, blockages, and slowing a practice’s operation. A maintenance routine in the office and cycling consumable parts will help prevent potential issues.

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VIEW RELATED VIDEO

For a video on this Preventative Maintenance Guideline, please go to
<http://www.asimedical.net/support/>

WARNINGS



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.



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ROUTINE MAINTENANCE

Daily Maintenance for Micro Irrigation

- Clean and disinfect the outside of the micro irrigation system housing, tubing, and handpieces with wipes rated for dental surfaces.
- Remove any build-up of dried solution from around the buttons on the handpieces or luer connections.
- Turn the pressure OFF on the irrigation bracket.
- Fill the Irrigator Rinse Cup halfway with water and place it into the handpiece holder. Place the irrigator tip down into the cup and soak overnight. This will help to break down crystallization that may have built up during use.

IMPORTANT: If dried solution is left undissolved too long, O-rings may dry out and crack, creating leaks.

Daily Maintenance for Active Irrigation

- For active irrigators, fill the Irrigator Rinse Cup halfway with water, and place it into the handpiece holder.
- Loosen the nose cone 2-3 turns. Do not remove.
- Place the irrigator tip down into the cup. Soak overnight to dissolve crystallization on the Orbiter Assembly.

NOTE: Do not remove the Orbiter Assembly from the handpiece body. If removed, the O-rings will need to be re-lubricated with silicone O-ring grease to prevent leaking.

- Retighten the nose cone and test the irrigator for proper function.

Weekly Maintenance

- Clean the inside of the pressure heads where the bottles thread and wipe away any build-up of solution. Inspect the gaskets inside the pressure heads and replace if torn (PN95-0156).
- Check the system air pressure gauge on irrigation bracket. The pressure should be set from 10 to a maximum of 23 psi. To adjust the pressure, rotate the knob counter-clockwise to decrease, clockwise to increase. If the pressure cannot be set to the recommended settings, replace the inline regulator (PN95-0223) or contact ASI for assistance.
- For each irrigation solution, fill the blue-labeled accessory bottle with warm water and exchange with solution bottles.
- Run water through the irrigation handpieces to flush out and dissolve chemical residue crystallization. Replace the accessory bottle with the irrigant solution bottle.
- Inspect the handpiece tubing for damage, kinks, or cuts.



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ANNUAL MAINTENANCE

Replace Gaskets and Bottles

Replace the 38mm gaskets (PN95-0156) where the bottles thread, and the irrigation bottles (PN95-4027L), annually.

Replacing Button Valve Assembly

Check the button valve assembly for sticking or leaks. ASI recommends replacing the button annually:

- Standard Micro Irrigator: PN95-0192R, O, G, W
- Active Irrigator: PN95-0245(P), 95-0245(N)

1. Turn the pressure OFF on the irrigation bracket. Carefully unscrew one of the irrigation bottles to release the pressure from the system.

2. Using an 11/32" nut driver, loosen the valve by unscrewing it counter-clockwise.

NOTE: For the round valve style, a piece of a plastic bag with a hole punched in the center, placed around the valve, will prevent the pliers from scratching the handpiece.

3. Pull the button valve straight up to remove it from the handpiece.

4. Thoroughly clean and dry the handpiece.

NOTE: For handpieces that have a dry buildup, soak in warm water to loosen the scale.

5. Using a foam applicator swab, clean all inside features of the handpiece body including the threads. Do not use cotton.

6. Apply ASI's dielectric O-ring grease to the O-rings on the exterior of the new button valve.

7. Using the nut driver, thread the new valve into the handpiece clockwise until it is lightly seated in the handpiece.

8. Wipe excess lubricant off of the handpiece body.

9. Purge valve, using clean water to ensure proper operation prior to dental procedures.

10. Test the function and check for leaks through the handpiece and around the valve.



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Replacing the Active Orbiter Assembly

Replace the Active Orbiter Assembly (PN95-4045) if it stops working properly and the problem persists after soaking and verifying air pressure.

1. Turn the pressure OFF on the irrigation bracket.
2. Carefully unscrew one of the irrigation bottles to relieve the air pressure in the system.
3. Unscrew and remove the nose cone.
4. Remove the existing orbiter by pulling it away from the body of the handpiece.
5. Apply O-ring grease to all O-rings on the new Orbiter Assembly. Insert the new Orbiter Assembly into the handpiece body.
6. Rethread and tighten the nose cone.
7. Test the irrigator for proper function.

Replacing O-Rings on the Active Orbiter

Active Orbiter O-Ring Kit: PN95-4046

1. Turn the pressure OFF on the irrigation bracket.
2. Carefully unscrew one of the irrigation bottles to relieve the air pressure in the system.
3. Unscrew and remove the nose cone.
4. Remove the orbiter by pulling it away from the body of the handpiece.
5. The entire orbiter assembly can be replaced (PN95-4045), or just the O-rings can be replaced (PN95-4046).
6. Tweezers, needle-nose pliers, a scaler, or other small tools may help remove the O-rings.

IMPORTANT: When replacing O-rings, roll them into place. Pulling them on with a tool might damage them, causing them to leak.

7. Apply O-ring grease to each O-ring on the Orbiter Assembly.
 8. Reassemble the orbiter, nose cone, and handpiece body.
 9. Test the handpiece function.
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