

# QUATTRA 50 UV LAMP, QUARTZ SLEEVE REPLACEMENT & RE-ASSEMBLY PROCEDURES

M78

## QUATTRA UV LAMP REPLACEMENT PROCEDURE

*Do not touch UV lamps with bare hands, dirt and finger prints will inhibit UV lamp penetration (use clean cloth).*

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1. Shut down all power to the system and close manual shut-off valves.
2. Remove drain plug from bottom of unit to drain chamber if required (Figure 1), replace plug when finished.
3. Remove the two - 1/2" jam nuts that hold the cover in place ( Figure 2).
4. Remove back cover (end cap) where wires run into the unit. First loosen strain relief nuts around wires, so that the cables will slide through (Figure 3).
5. Slide back cover making sure the wires in strain relief stay hooked up to lamps (figure 4).
6. Move cover back at least one foot for easy access.
7. Hold end of lamp, remove pin plugs (Figures 5). Note: #207 O-Rings on part of lamp are to keep it centered in quartz sleeve (new lamps are equipped with new O-rings).
8. Remove lamp from unit. Twist lamp if you feel a snag taking lamp straight out (very fragile),use two hands and hold other end of lamp as it comes out (Figures 6).
9. Discard old UV lamps carefully in an appropriate manner.
10. Before replacing new lamps in quartz sleeves, install new O-rings on the lamps (#207 O-rings) very carefully. Then wipe off lamps with alcohol or peroxide. make sure lamp wires are clear from center crank.
11. Replace new lamp(s) into Quartz sleeve very carefully.
12. Gently insert white lamp pin connector onto pins on lamp ends.
13. Replace end caps and secure with screws.
14. Hand tighten strain relief.



Figure 1



Figure 2

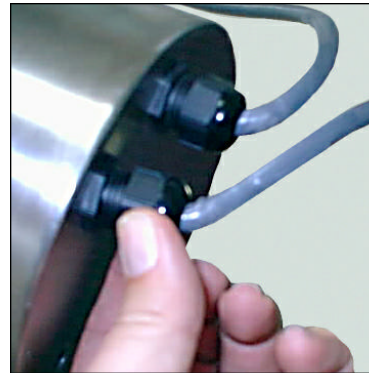


Figure 3



Figure 4

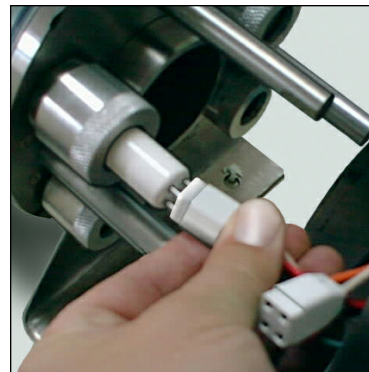


Figure 5



Figure 6



# QUATTRA 50 UV LAMP, QUARTZ SLEEVE REPLACEMENT & RE-ASSEMBLY PROCEDURES

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1. Replace or inspect the quartz sleeve around the UV lamps on a regular basis. At least as often as UV lamps are changed out. Quartz sleeve is to be inspected while lamps are out of UV system for pitting and general clarity (coloring) and physical integrity.
2. Remove fitting on top of the cylinder closest to the cover at air cylinder end (on-site air-figure 1).
3. Remove the two-1/2" jam nuts that hold the cover in place (figure 2).
4. Slide cover off (figure 3).
5. Remove all 4 aluminum compression nuts with bumper #211 O-ring in them. Note, if nuts are tight, gently use hand tool to loosen (figure 4).
6. You will notice #211 O-rings on all four sleeves. Remove them from both ends of the sleeve (figure 5) and push bottom of sleeve in (at air cylinder end) pulling out sleeve at other end.
7. Clean Quartz sleeve with alcohol swab being careful to remove all traces of cleaning fluid and fingerprints before reinstalling the quartz sleeve in the Quattrra unit.
8. Be careful, gently pulling the sleeve out, so that it will not hit the center shaft (figure 6) Two hands should be used, with one hand on the end plate where the sleeve comes out to support it, so as not to hit any metal. Do it the same as when replacing new lamps, using a clean cloth to guide the sleeve in, not touching it with your hands. Always remember after cleaning sleeves & lamps with alcohol and peroxide, **Do not** touch glass with bare hands (hand tighten only).
9. Reassemble using a clean cloth to hold the quartz sleeve, guide the quartz sleeve gently into the hole, install O-ring and screw the retaining nut down until snug.
10. Insert the replacement lamps into the quartz sleeve. Gently push the lamp connector against the pins at the end of the lamp.
11. Replace all four aluminum compression nuts (figure 7), hand tighten only (to prevent sleeve breakage).
12. Quattrra UV unit re-assembled and ready for system operation (figure 8).
13. Turn the fluid supply on slowly and check the unit carefully for leaks. If fluid is leaking from around the rubber seals, tighten the retaining washernuts until the leak stops. A 1/8 turn past this point should be tight enough.



Figure 1



Figure 2



Figure 3

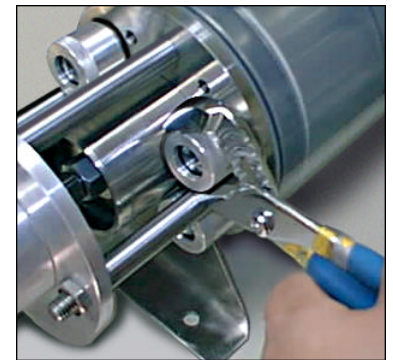


Figure 4



Figure 5

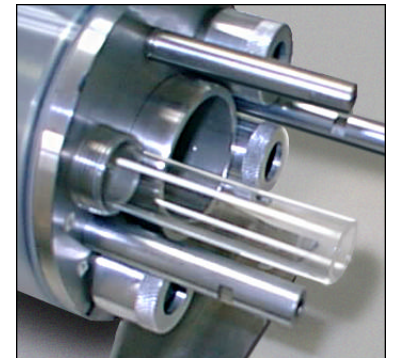


Figure 6

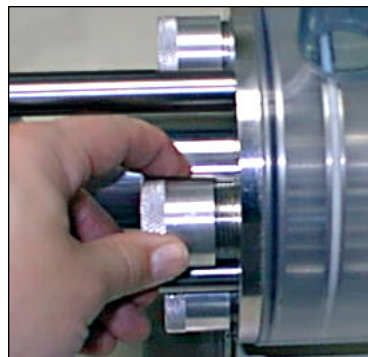


Figure 7



Figure 8