

# UV LAMP MAINTENANCE AND REPLACEMENT

FOR 53000-040-XXX, 53000-025-XXX

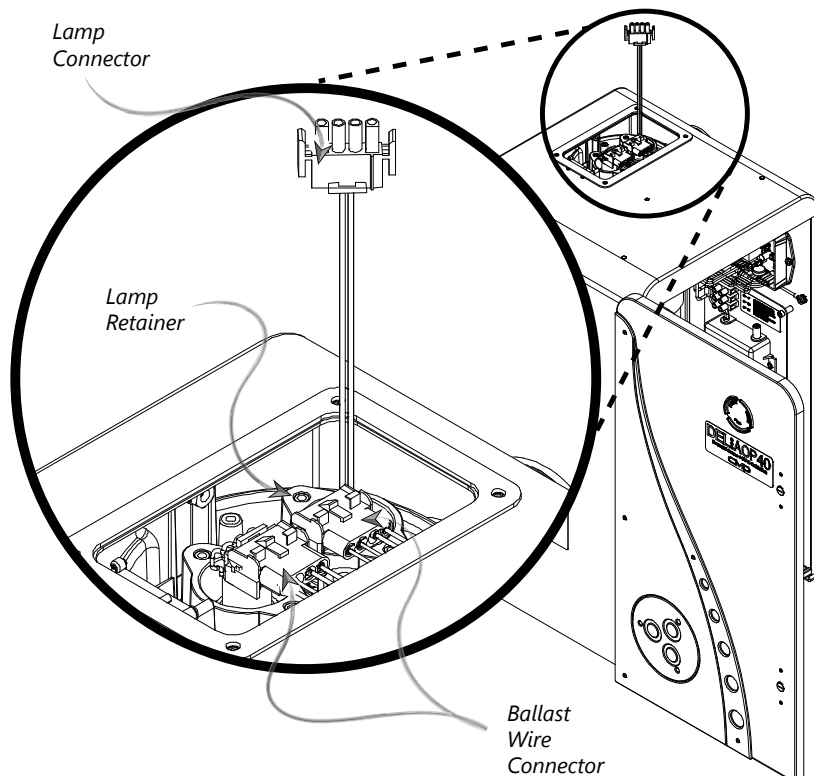
## UV Lamp Replacement

Life expectancy of UV lamp is about 16,000 hours.

- The Smart Status LED for UV-C ( will change to yellow when it is time to replace the lamps. (AOP 25/40 only) It is recommended to replace all UV lamps at the same time.
- AVOID TOUCHING THE UV LAMP GLASS WITH YOUR BARE HANDS. Oils on your hands can cause hot spots on the UV lamp and shorten its life. Use a soft clean cotton cloth or clean cotton gloves to handle the UV lamp.

To remove the UV lamp from UV reactor, follow below steps.

1. Shut off power at the breaker.
2. Locate the UV lamp access panel on the top of the DEL AOP. Remove the 4 screws with a Phillips head screwdriver, and remove the panel.
3. After allowing adequate time for the lamp to cool, disconnect the lamp connector from ballast wire connector.
4. Grasp the UV lamp wires and gently pull until the top of the UV lamp has pulled past the lamp retainer tabs.
5. While holding the UV lamp white ceramic cap, slowly pull the UV lamp until the bottom has pulled past the lamp retainer tabs. (Twisting the lamp may help facilitate removal.) Do not touch glass, as oils on your hands will damage the UV lamp.



UV Lamp Replacement

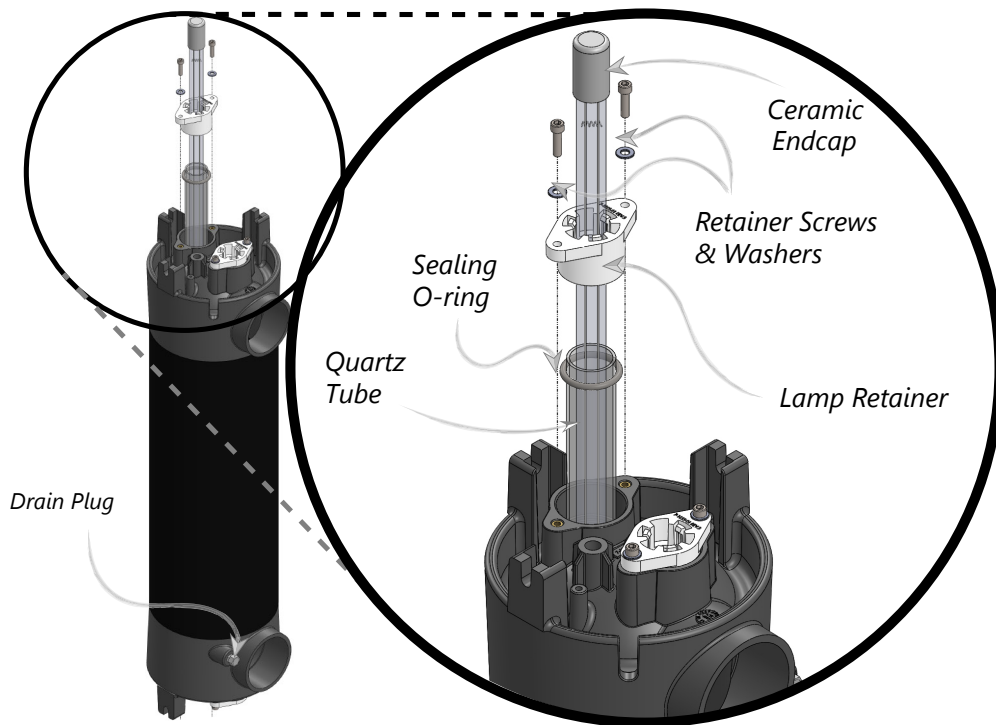
To re-install the UV lamp:

1. Confirm power is off at the breaker.
2. Do not touch glass, as oils on your hands will damage the UV lamp. Clean with alcohol if inadvertently touched with bare hands. By holding the UV lamp white ceramic cap, slowly press the UV lamp fully past the lamp retainer tabs and into the quartz tube until it is seated on the lamp cushion in the bottom of the tube.
3. Connect the lamp connector to the ballast wire connector.
4. Install UV lamp access panel.
5. Reset UV indicator by pressing the reset UV button on the inside door behind the Smart Status indicators.

### Quartz Tube Removal and Cleaning (Every Six Months)

The UV lamps are housed in a quartz tube. If the quartz tube becomes dirty, its ability to transmit UV rays from the lamp will be diminished. The quartz tube(s) should be removed from the UV reactor every six (6) months and cleaned if necessary.

Note: If the DEL AOP is installed below water level, the bypass valves must all be CLOSED to prevent excess pool water from draining into the open unit when a quartz tube is removed.



UV Reactor Subassembly

1. Before continuing, allow adequate time for the quartz tubes to cool. Drain the water from the UV reactor by removing the drain plug. Replace the plug once water has stopped exiting the UV reactor.
2. After removing the lamps, remove the top lamp retainer screws using the hex key included in the parts bag. Place the lamp retainer screws, washers and the lamp retainer aside in a safe place.
3. Grasp the quartz tube from the top of the UV reactor. Pull to remove it from the UV reactor.
4. Remove the sealing O-ring from the top of the quartz tube. Set aside in a safe place.
5. Clean the quartz tube exterior with a mild solution of muriatic acid (available at all pool supply stores) and water in a ratio of four parts water to one part acid (4:1). If lime or hard water calcium deposits are encountered, use a household tub and shower lime remover.
6. After cleaning the quartz tube, wash it off and wipe dry. Inspect the quartz tube for cracks. Replace if cracks are found. Make sure the inside of the quartz tube is dry before replacing the UV lamp(s).



### CAUTION

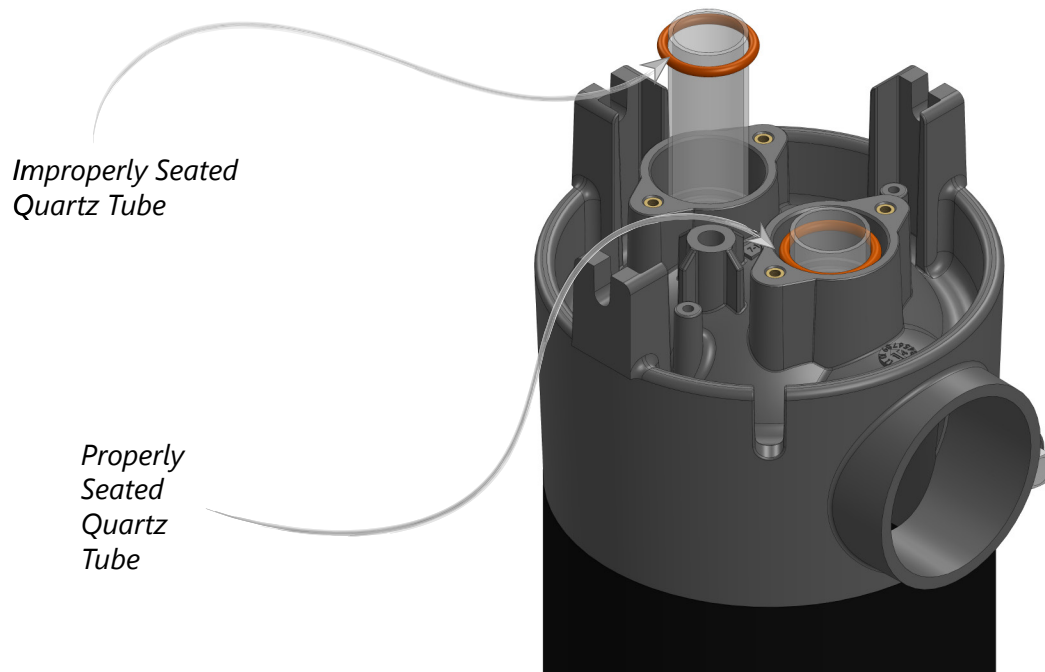
Follow the directions for use and handling of muriatic acid on the acid bottle label, being careful to protect your eyes, wear rubber gloves, and avoid breathing acid fumes.

Note: DO NOT USE ABRASIVE CLEANERS as they can scratch the high quality quartz glass. Note: DAMAGE CAUSED BY BROKEN QUARTZ TUBES ARE NOT COVERED UNDER YOUR LIMITED WARRANTY.

### Quartz Tube Installation

1. Holding the quartz tube so it is oriented straight up and down. Insert the quartz tube into the UV reactor until it is fully seated in the bottom of the UV reactor.  
Note: If the end of the quartz tube is protruding from the UV reactor, the alignment is off. Remove and re-insert the quartz tube to seat it properly.
2. Place a sealing o-ring approximately 1/2in (12.5mm) from the end of the quartz tube protruding from the top of the UV reactor.
3. Place the lamp retainer over the quartz tube. Use the hex key included in the parts bag to attach the lamp retainer to the UV reactor, using the lamp retainer screws and washers. Make sure the lamp retainer flanges are fully seated against the UV reactor.
4. Turn the circulation pump ON and check the quartz tube seal for leaks.
5. Turn the circulation pump OFF once you have confirmed that the quartz tube is not leaking.

**CAUTION** Wear proper eye and skin protection for servicing glass components. If broken glass is trapped in the pool system, do not operate the pool. Contact a service professional to have the glass removed.



UV Quartz Tube Installation

### TECHNICAL CONTACT INFORMATION:

For technical assistance call: 1 (800) 733-9060 or visit our website: [www.c-m-p.com/support](http://www.c-m-p.com/support)

Be prepared with the following information:

- Name
- Address
- Model #
- Date Purchased

## ORDERING INFORMATION:

To locate a dealer nearest you call 1 (800) 733-9060 or visit [www.c-m-p.com](http://www.c-m-p.com).

## STANDARD REPLACEMENT PARTS LIST

DESCRIPTION	AOP 25	AOP 40
REPLACEMENT UV LAMP	9-1626-02 (TWO PER UNIT)	9-1626-01 (TWO PER UNIT)
OZONE GAS LINE	9-1352-01	
OZONE CELL	9-1565-01 (ONE PER UNIT)	9-1565-01 (TWO PER UNIT)
INJECTOR TUBE ADAPTER	7-1434-01	
AIR FILTER	9-0858-01	

Note: The warranty is void if the parts listed above are not replaced at recommended intervals.