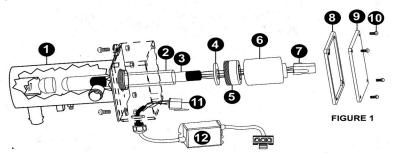
CLEARRAY® BULB REPLACEMENT AND QUARTZ TUBE MAINTENANCE

Important: It is MANDATORY that the UV bulb be replaced and the quartz tube be cleaned every 12 months to maintain optimum performance.



Available Service Parts (parts not listed are not

Item	Part Number	Description	Qty
1	6472-855	UV reactor chamber - 316L SS 110V	1
	6472-853	UV reactor chamber - 316L SS 220V	1
2	6472-859	Quartz tube	1
3	6472-841	UV bulb	1
4	6000-374	Quartz seal compression washer	1
5	6000-373	Quartz seal compression nut	1
8	6000-375	Electrical enclosure gasket	1
12	6000-372	Electronic ballast	1

DANGER: TURN THE SPA BREAKER TO THE OFF POSITION!

WARNING: DRAIN THE SPA IF YOU ARE REPLACING OR CLEANING THE QUARTZ TUBE!

WARNING: ALLOW BULB TO COOL DOWN PRIOR TO REMOVING FROM QUARTZ TUBE.

DANGER: NEVER LOOK AT THE LIT BULB. THIS CAN CAUSE SEVERE EYE DAMAGE OR BLINDNESS.

UV bulb replacement and quartz tube maintenance:

Note: Location of CLEARRAY System and connection may vary by model.

Turn the breaker to the spa OFF. DRAIN YOUR SPA.

Note: If you are only replacing the UV bulb then the spa does not have to be drained. You will need to drain it if you are replacing or cleaning the quartz tube.



DANGER: NEVER REMOVE COVER WITHOUT FIRST TURNING OFF AT POWER SOURCE AND DRAINING THE SPA.

Once the UV bulb has cooled off remove the CLEARRAY System enclosure cover (9) and gasket (8) by removing the 2. four screws (10). This will expose the UV bulb and connections, Figure 2.

Disconnect UV bulb socket (7) from the power cord socket (11), Figure 3.

Slowly remove the UV bulb (3) out of the quartz tube, Figure 4.

Remove the quartz seal compression nut (5) by turning it counterclockwise. Figure 5. Use a pair of channel-lock pliers if needed, Figure 6. You will notice that there is a stainless steel compression washer (4) which slides over the quartz tube, save the washer (4) for later use, Figure 7

Now you are ready to clean or replace the quartz tube (2). For cleaning the quartz tube (2), follow steps 7 and 8 then proceed from step 9. For replacing quartz tube (2), skip steps 7 and 8 and proceed from step 9.

Cleaning quartz tube: Clean the quartz tube by wiping, until clear, using a paper towel or a dry cotton cloth. If needed, a household tub and shower lime removal product can be used.



WARNING: Do not use abrasive cleaners as they can scratch the quartz tube surface.

Rinse the quartz tube with clean water to completely remove any cleaning products that were used in step 7.

Replacing quartz tube: You will notice that the new quartz tube does not have a black cushion on the domed end as the old quartz tube does. This is normal as the cushion was provided to the original quartz tube to protect it from breakage during transportation. Place the new quartz tube (2) into the water chamber (1) with the domed end first; making sure it is inserted and seated inside the quartz end holder. Only a small portion will be exposed when it is seated correctly.

10. Reinstall the compression washer (4) over the open end of the quartz tube (2).

Reinstall and hand tighten the quartz seal compression nut (5) by turning it clockwise.

Refill your spa.

System Test 1: Assure there is no water dripping from the seal compression nut (5). If water is visible, STOP and tighten the compression nut (5) using a pair of channel lock pliers to a maximum of 1/4 turn. If that does not fix the leak, then repeat quartz tube maintenance process from step 1 through step 12. Make sure there is no water leaking **BEFORE** proceeding to step 14.

System Test 2: Turn breaker back ON. Turn on the pump to circulate the water through the CLEARRAY System. Wait for 5 minutes and assure no water is dripping. If water is visible, STOP, fix the leak by repeating quartz tube maintenance process from step 1 through step 13. Make sure there is no water visible. BEFORE proceeding to step 15. Turn the pump and the breaker OFF.

Reconnect the UV bulb socket (7) to the power cord socket (11). Make sure you use the latex glove provided when handling the UV bulb.



WARNING: DO NOT TOUCH THE NEW UV BULB WITH YOUR BARE HAND. Oil on your skin will cause hot spot on the UV bulb and shorten the life of your UV bulb. Use the provided latex glove to handle the UV bulb.

16. Slide the new UV bulb (3) back inside the quartz tube.

Reinstall the black bulb boot (6) back over the quartz seal compression nut (5). 17

18 Reinstall the enclosure cover (9) with gasket (8) and secure with the screws.

Properly dispose of the old UV bulb. 19.



WARNING: This CLEARRAY System includes a UV bulb, which contains mercury. Dispose of the bulb in accordance with disposal laws. See www.lamprecycle.org.

Once power is activated you can check the ballast (12), Figure 8, to see if the CLEARRAY System is functioning. A solid green light indicates that the CLEARRAY System is being provided power and should always be on. A solid red light indicates that UV bulb is activated.



FIGURE 2



FIGURE 3



FIGURE 4



FIGURE 5



FIGURE 6



Lights



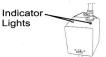


FIGURE 8