

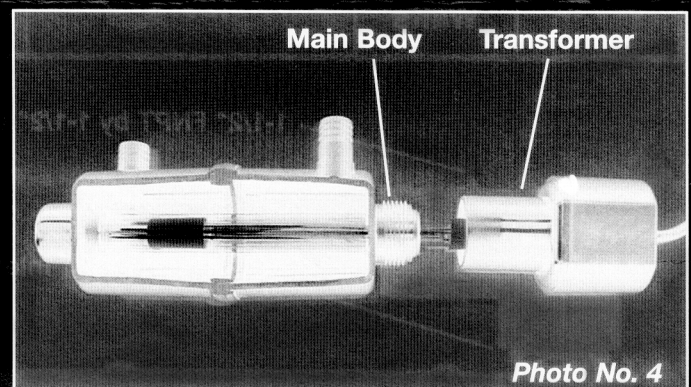
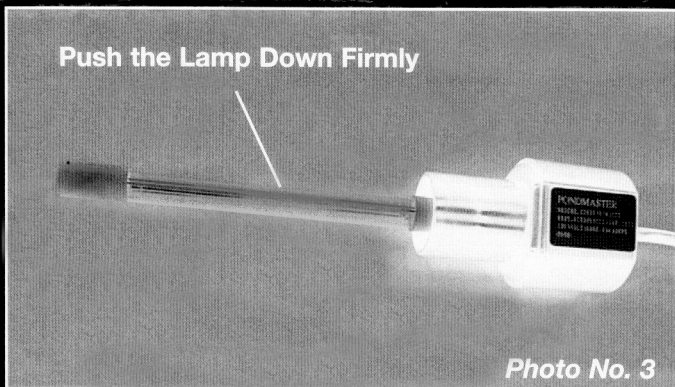
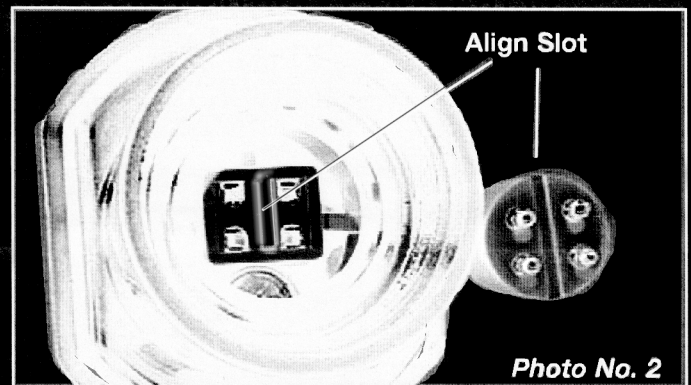
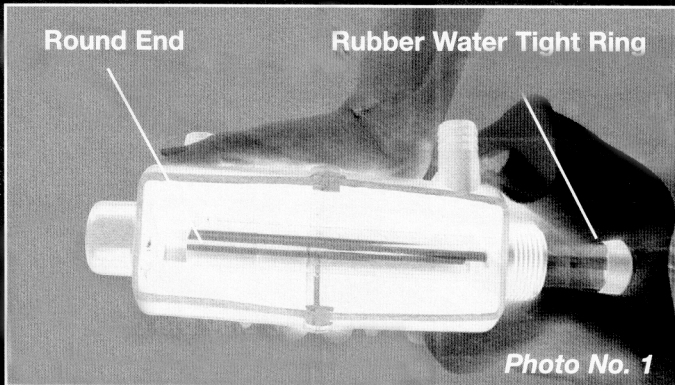
# CARE AND OPERATING INSTRUCTIONS FOR UV CLARIFIER

10 Watt Item No. 02910, 20 Watt Item No. 02920 and 40 Watt Item No. 02940

Thank you for purchasing the **PONDMASTER ULTRAVIOLET CLARIFIER/STERILIZER**. Ultraviolet light is a wavelength of light which inhibits algae from reproducing by damaging its DNA. It also kills parasites in the water. UV light does not harm string algae which clings to the sides of ponds and therefore does not travel through the filter and UV rays. Barley wheat is a natural solution to that menace.

The quartz sleeve is not installed and is located in a separate box inside the main box. To install the sleeve, insert the round end into the main body until the rubber ring is all the way down into the main body. A flange will prevent the ring from going any further. It will rest against the main body. To remove the sleeve for cleaning, take a kitchen knife or thin screw driver and pry between the rubber flange and main body. **(See photo No. 1)**

The UV lamp is not installed and is located in a separate box inside the main box. To install the lamp, unscrew the transformer from the main body. Align the center slot and pins with the mating connector that is inside the transformer. Push the lamp down firmly. Slide the lamp and transformer into the quartz sleeve and screw the transformer onto the main body. Do not over-tighten the transformer when screwing it to the main body. Lightly hand tighten it. **(See Photo Nos. 2, 3, & 4)**



**ALWAYS TURN OFF THE POWER BEFORE HANDLING OR SERVICING THE UNIT.**

**NEVER LOOK AT THE LAMP RAYS.** Please note the Halo rings transmit visible light only, which is safe to look at. This indicates the unit is working. Remember the lamp will produce visible light long after it has stopped producing effective UV light.

**WARNING:** This unit is for seasonal use only. It should not be used in freezing conditions because the quartz tube will crack, exposing live electrical current to the water. If the unit is dropped do not use it. Unplug it first and inspect the quartz sleeve for breakage or small cracks.

## ELECTRICAL PRECAUTIONS

Always use a properly grounded outlet. Do not immerse plug in water. **DO NOT REACH INTO WATER TO REMOVE PLUG. TURN OFF CIRCUIT FIRST.** A "drip loop" should be provided. The "drip loop" is a loop in the cord below the level of the receptacle or plug that prevents water from traveling along the cord. The national Electric Code requires that a ground fault circuit interrupter (GFCI) be installed in the branch circuit supplying fountain or pond equipment. Your dealer can supply GFCI units. **NEVER REMOVE GROUND PIN FROM PLUG. WARNING: FOR YOUR PROTECTION ALWAYS UNPLUG THE UNIT FROM ITS POWER SOURCE BEFORE INSTALLING OR SERVICING. SHOULD THE HALO RINGS INDICATE THE UNIT IS NOT WORKING DO NOT REACH, REMOVE OR DISASSEMBLE BEFORE YOU DISCONNECT POWER.**

## GENERAL INFORMATION

For best results, the total amount of water in the pond should pass through the Ultraviolet light every 2.5 to 3 hours. Pumping water too fast will shorten the 'dwell time' - the time that the water in the unit is exposed to the ultraviolet rays.

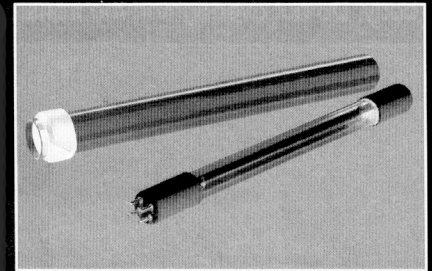
The Pondmaster Ultraviolet Clarifier/Sterilizer is the only submersible unit on the market. It can also be used outside the pond when connected with tubing.

The lamp has a life of 9,000 hours, which means if you use the light continuously for 6 months per year, in most regions of the country, it will last two years. The unit should remain on 24 hours a day throughout the season. For the best possible performance, it is recommended that the lamp be replaced every year because it slowly degrades. Remember the lamp will produce visible light long after it has stopped producing the UV wavelength.

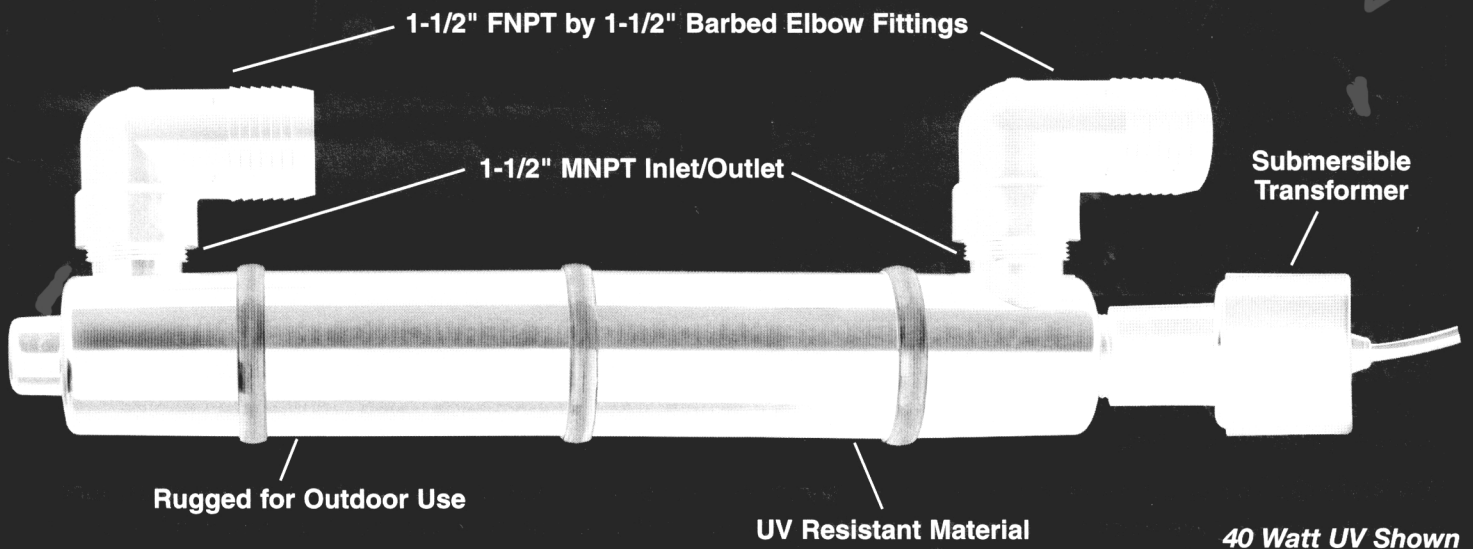
The quartz sleeve should be cleaned periodically due to dirt or lime scale build-up since this will block the UV light and reduce efficiency. Clean the quartz tube with vinegar and a scrub pad. It is not a bad idea to replace the tube when you replace the bulb. It helps to lubricate the black gasket with silicone grease when reinstalling the quartz sleeve.

### ULTRAVIOLET LIGHTING REPLACEMENT PARTS

Model (UPC #)	Output (Watts)	Replacement Lamp (UPC #)	Replacement Sleeve (UPC #)
02910	10 Watts	12971	02981
02920	20 Watts	12972	12982
02940	40 Watts	12974	12984



**NOTE:** Use only the correct wattage replacement lamp and the correct replacement quartz sleeve. Always check the UPC codes



### LIMITED WARRANTY

E.G. Danner Mfg. Inc. will repair or replace any unit found to be defective within one year of original purchase. Cutting or altering cord voids any warranty consideration. For warranty repair return only the part that is defective to our factory. Please include a dated proof of purchase and \$5.00 for postage and handling. Damages or injuries resulting from negligence or misuse of the product are not covered by warranty. This warranty gives you specific legal rights. You may have other rights which vary from state to state.

**CAUTION:** Ponds can be dangerous to small children. Never Leave children unsupervised near a pond.