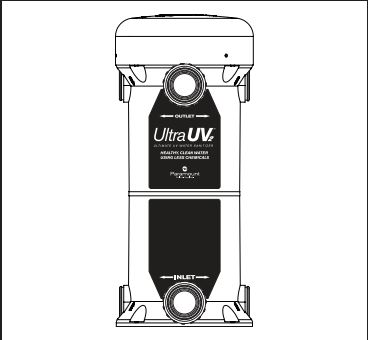




Ultra UV₂

Tank Replacement

Installation Manual



The image shows a vertical, rectangular tank replacement unit. It has a top section with a circular opening and a bottom section with another circular opening. A central label reads "Ultra UV₂" and "PARAMOUNT".

Contents

- Safety Instructions.....1
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005-422-3100-00
005-422-3000-00



Pool, Spa & Pond
Water Sanitizer 4BJ1

Paramount
8175 W. Buckeye Rd.,
Phoenix, AZ 85043
Phone: (480) 893-7607
www.1Paramount.com



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Important Safety Instructions



READ AND FOLLOW ALL INSTRUCTIONS

PLEASE REVIEW THE INSTALLATION GUIDE IN ITS ENTIRETY AND HEED ALL SAFETY INFORMATION. Failure to follow these instructions and warnings can result in DEATH OR SERIOUS INJURY.

This Owner's Manual contains specific precautions and symbols to identify safety related information as described below. Please read them carefully and follow these precautions as indicated!

⚠ DANGER - Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING - Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION - Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE - Is used to address practices not related to physical injury.

⚠ WARNING - When using this electrical equipment, basic safety precautions should always be followed, including the following:

- Follow all applicable electrical codes.
- Turn off power at main source before making any electrical connections or servicing the unit.
- To reduce the risk of electric shock, injury or death disconnect unit from power supply.
- Follow the instructions or risk of serious injury or death could occur!

⚠ DANGER - Risk of Injury:

- Replace damaged cord immediately.
- Do not bury cord.
- Connect to a grounded, grounding type receptacle only.

⚠ WARNING - UV Exposure & Protection. UV-A and UV-B radiation can have adverse short and long term effects on the eyes and skin. Never look directly at a UV lamp that is connected to a power source. Avoid UV skin exposure at all times. To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times. Risk of electric shock. Install at least 5 feet (1.5m) from inside wall of pool, hot tub or spa using nonmetallic plumbing. This product shall only be connected to a power supply receptacle protected by a ground fault circuit interrupter.



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⚠ **ATTENTION** - Important Installation Information:

The Ultra UV2 unit includes female glue sockets. **ABS to PVC multipurpose glue and appropriate primer** must be used to glue fittings into the Ultra UV2 body.

NOTICE - **24 hour cure time** is required before pressure (50psi max) can be applied to the Ultra UV2 unit.

⚠ **DANGER** - Turn off the power supply to the old Ultra UV2 unit. Turn off power to the pool pump. Disconnect the input power to the installed Ultra UV2:

- For 120V units, unplug the supply cord from the GFCI.
- For hard-wired 120/230V units, disconnect the incoming power wires & conduit.

SAVE THESE INSTRUCTIONS

Installation

Important Notes

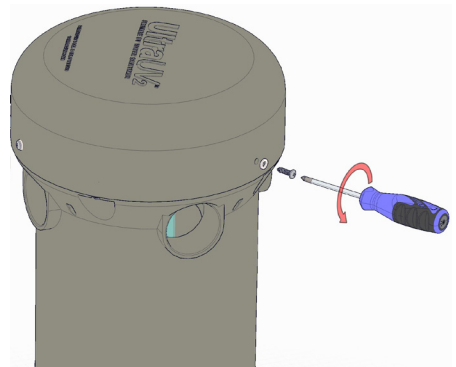
The Ultra UV2 replacement tank is assembled with pressure switch, mounting plate, quartz tube, main seal, compression washer & sealing nut. All replacement tanks are pressure tested at the factory.

The Ultra UV2 tank also includes ballast input wires for several build configurations. Not all wires included in kit will be used.

On hard-wired 120/230V units, the existing conduit & power supply wires may be too short and need to be replaced. A 10' bundle of power supply wires are included in this kit.

Install the Replacement Tank

1. Remove the three bonnet screws & lift the bonnet from the old tank.
2. Disconnect the grounding wire from the bonding lug.
3. Loosen the plumbing unions (two unions for 1-lamp & 2-lamp builds, and four unions for 3-lamp builds).
4. Remove the old Ultra UV2 unit from the mounting location and set carefully aside.



NOTE: If in operating condition, the ballast & lamps from the old unit will be re-installed.



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5. Use **ONLY ABS to PVC multipurpose glue & appropriate primer**, install the supplied blanking plugs & unions to new replacement tank.

- Be sure to match the placement of the fittings on the old tank.
- **Note the orientation of the incoming electrical supply.**

6. Place new replacement tank at the mounting location.

7. Tighten the unions securely (do not over-tighten).

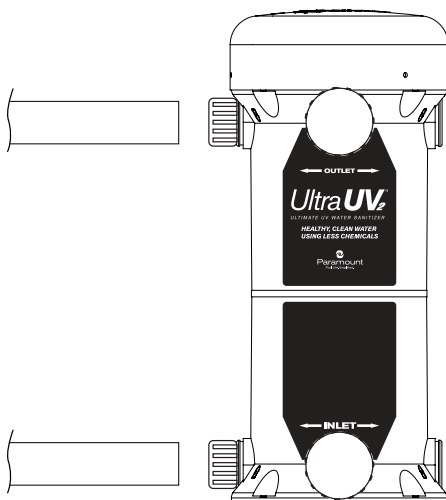
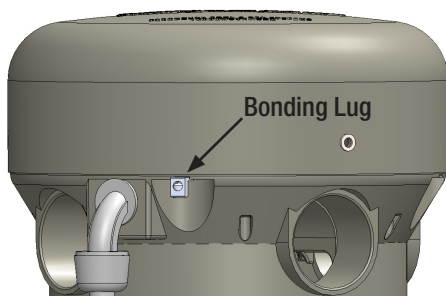
8. Reconnect the grounding wire to the bonding lug.

⚠ CAUTION - Allow the ABS cement to cure for a minimum of one hour.

⚠ CAUTION - Do not stand over the unit when it is under pressure or when the pump is on.

9. Turn on power to the pool pump and verify no leaks are found at the new tank.

⚠ DANGER - Turn off power to the pool pump before proceeding





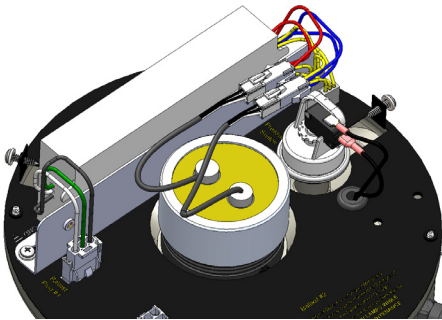
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Installing Lamps into New Tank

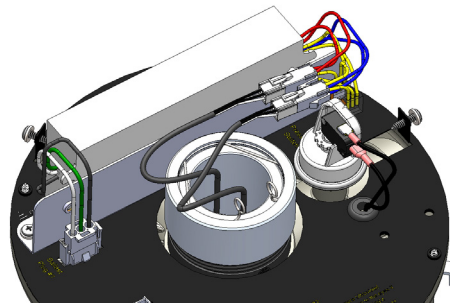
NOTICE - Do not touch the glass part of the lamp or quartz tube with bare hands as body oils will create hot spots & greatly shorten lamp life. Always wear gloves.

⚠ WARNING - Before removing lamps you must wear protective rubber gloves and safety eye wear. Do not handle a hot lamp or serious burns will occur.

Identify Your Ultra UV2 Unit and Follow Instructions Accordingly

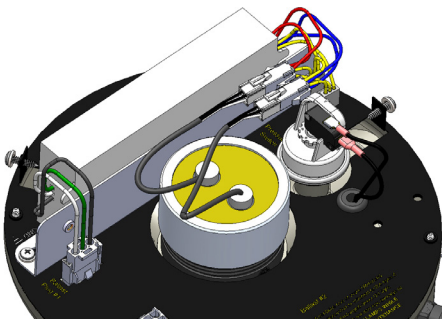


Ultra UV2 Configuration 1 (See Below)



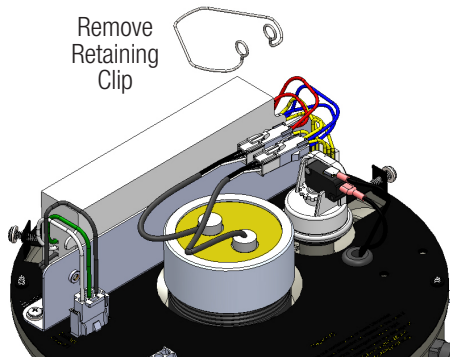
Ultra UV2 Configuration 2 (See Page 6)

Ultra UV2 Configuration 1



1. It has a flat yellow disk mounted in the center of the aluminum nut.

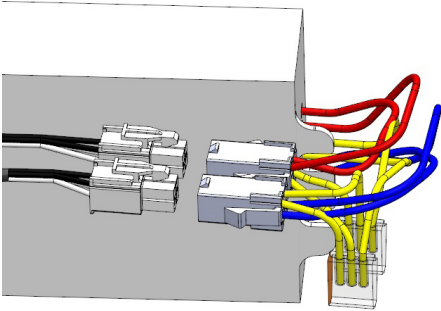
Remove
Retaining
Clip



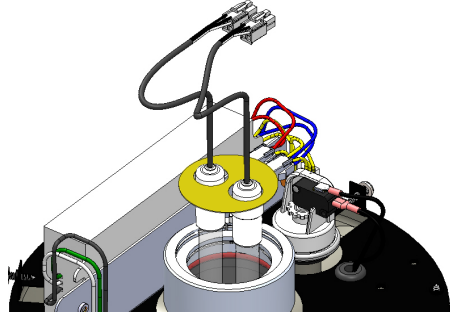
2. Squeeze the ends of the retaining clip to remove or if disk is secured with silicone gently pry the disk loose.



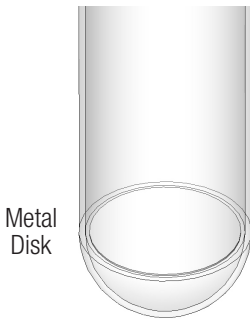
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3. Disconnect all lamps by pressing the release tabs on connectors and gently pulling apart.

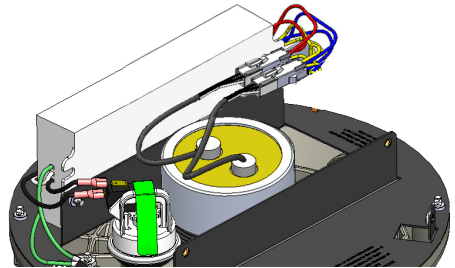


4. Carefully lift the old lamp assembly from the quartz tube. Set aside the lamp assembly in a safe area to avoid breaking.



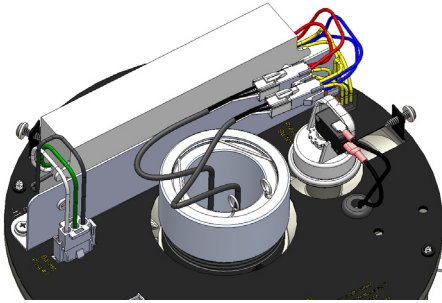
5. Remove metal disk from the old quartz tube and place it gently into the new quartz tube.

NOTE: Dropping metal disk into quartz tube may cause damage.

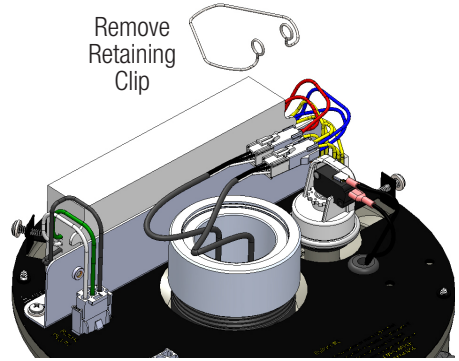


6. Remove the black plastic nut from the new tank and install the aluminum nut from the old unit. Install the lamps into the quartz tube in the new tank.

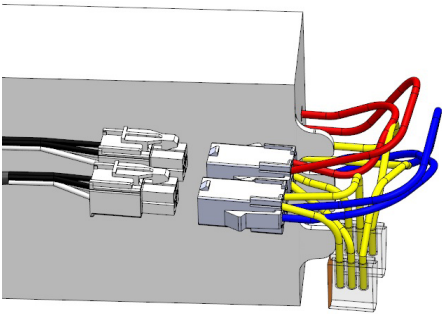
Ultra UV2 Configuration 2



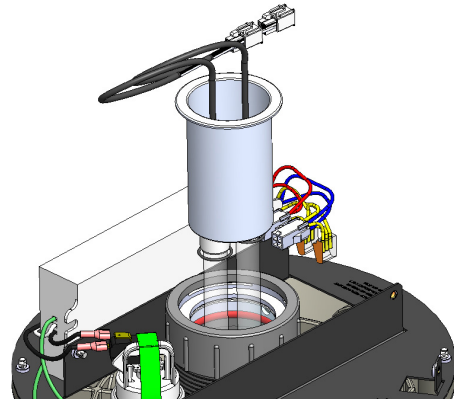
1. The lamp array is held in place by an aluminum cup.



2. Squeeze the ends of the retaining clip to remove.



3. Disconnect all lamps by pressing the release tabs on connectors and gently pulling apart.

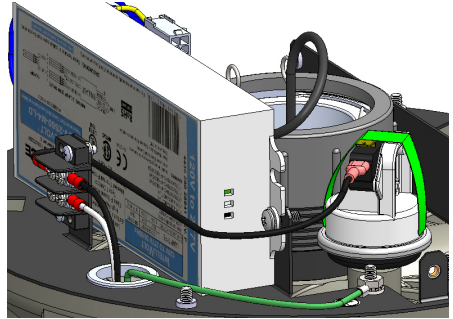
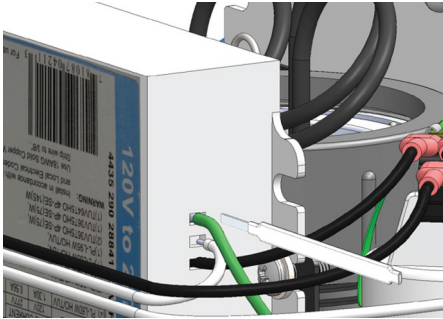


4. Carefully lift the lamp assembly from the quartz tube by the aluminum cup and not the wires. Place lamps into new tank and secure with retaining clip.



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Installing Ballast(s) Into New Tank



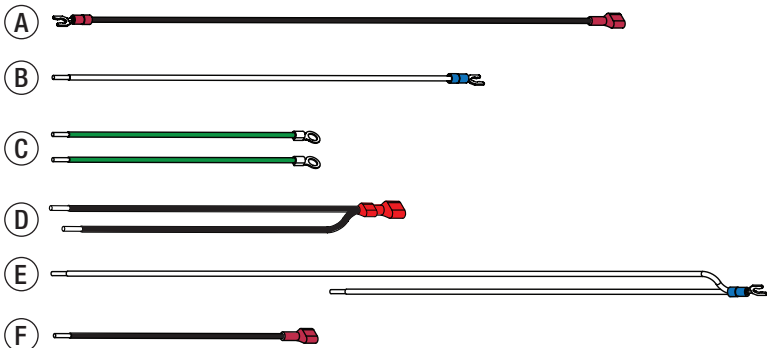
1. Using supplied connector tool, disconnect the green, white and black wires from the ballast by inserting the tool in the slot next to the wire and pull gently until the wire is disconnected.
2. Remove ballast(s) from the old tank and install onto the integrated brackets on the new tank with the wire input side facing the pressure switch.

Electrical Wiring

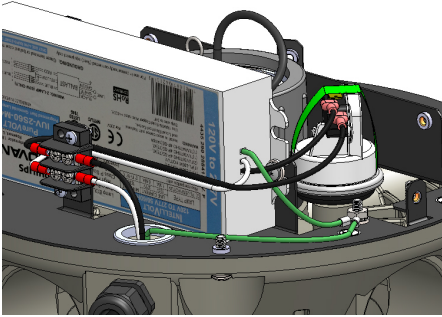
Ballast Wiring

You will need to use some of the additional wires included with the kit.

- (A) pressure switch to terminal
- (B) single neutral wire to terminal
- (C) ground wires
- (D) double pressure switch wire
- (E) double neutral wire to terminal
- (F) single pressure switch wire

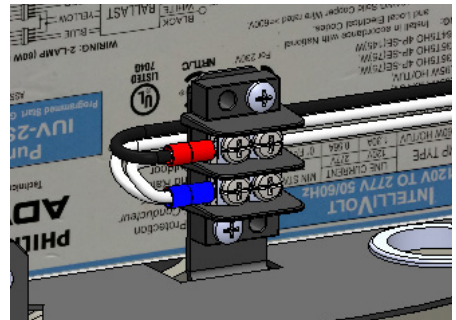
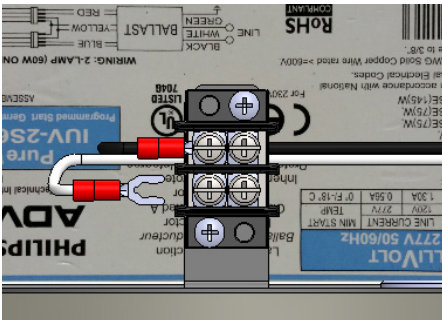


Single Ballast Wiring



Connect the color wires to the corresponding color inputs in the ballast.

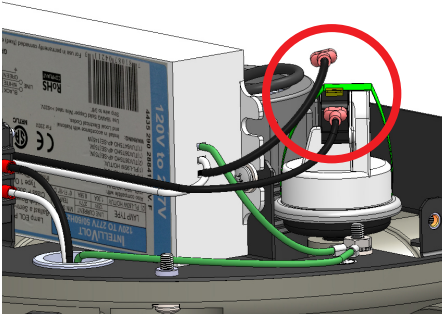
Two Ballasts Wiring



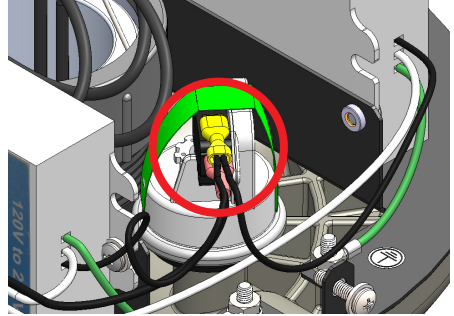
1. Remove the pre-wired single white wire (B) from the left side of the terminal block.
2. Install the supplied double white wire (E) to the terminal block. Tuck wires behind terminal block.



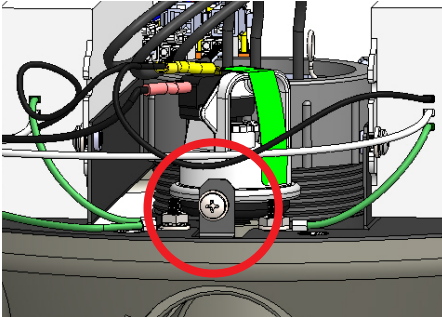
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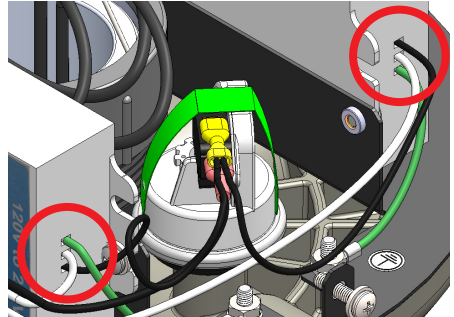
3. Remove the short black wire(s) (F) from the top terminal of pressure switch.



4. Install the supplied dual black wire (D) to the pressure switch, then to both black connectors of the ballasts.



5. Using one of the green ground wires (D), connect it to the right ground post. Make sure the flat washer is underneath the ring terminal of the green wire.



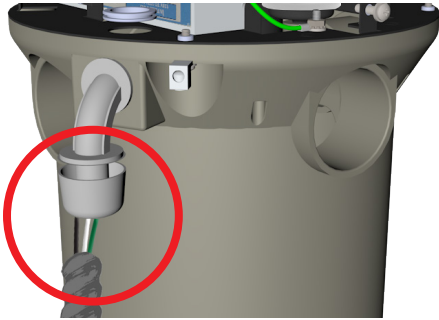
6. Connect all color wires to corresponding color inputs in the ballasts.



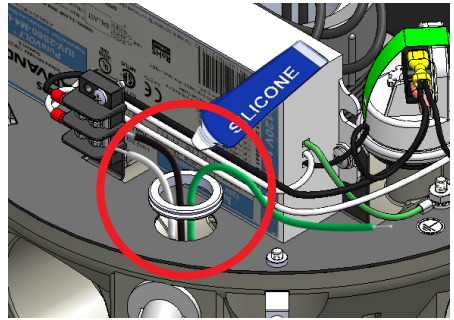
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Connecting Ultra UV2 Unit to Power Source

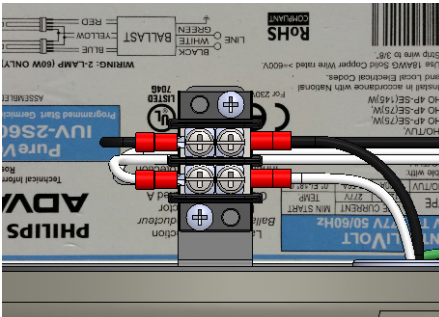
For Hard-Wired Units



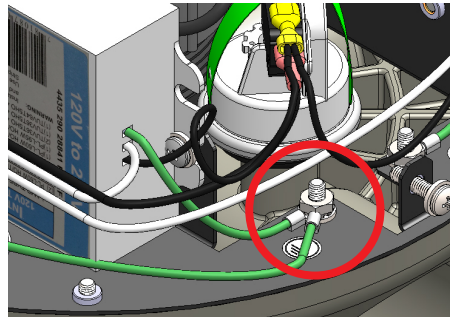
1. Install conduit into seal-tight connector. Replace conduit if it is too short. Replace wires if any are too short. A 10' bundle of power supply wire is included in the kit.



2. Lift the grommet from the mounting plate and feed the two power wires & ground wire. Use supplied tube of silicone and cover the wires at the junction of the conduit connector. Reinstall the grommet to the mounting plate.



3. Attach one power leg (most likely black) to the upper right position of the terminal block. Attach one power leg (most likely white) to the lower right position of the terminal block.

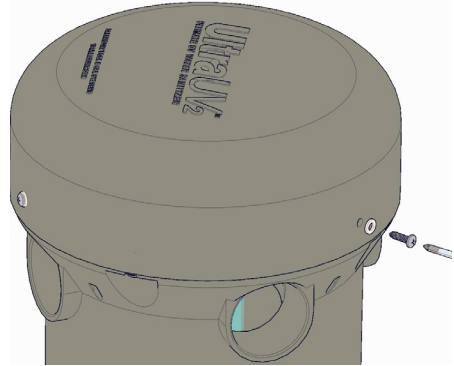
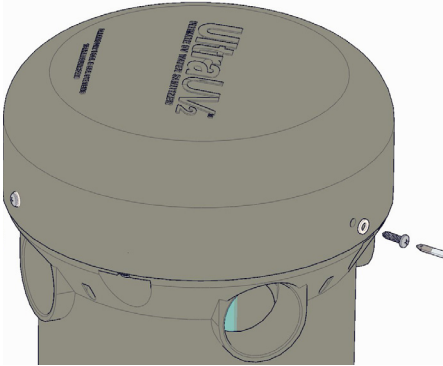


4. Cut the ground wire to length and attach an 18-22 AWG ring terminal. Remove the nut from the left ground post. Place the ring terminal over the ground post. Reattach the nut.

NOTE: The terminal block is sized to accept a spade terminal for 18-22AWG wire.



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For 120/230V Hard-Wired Units:

- 5. Install the bonnet.
- 6. Turn on the breaker for the Ultra UV2 unit.
- 7. Power on the pump and ensure that the system is functional.

If the unit is not functional, test the unit per a typical warranty call.

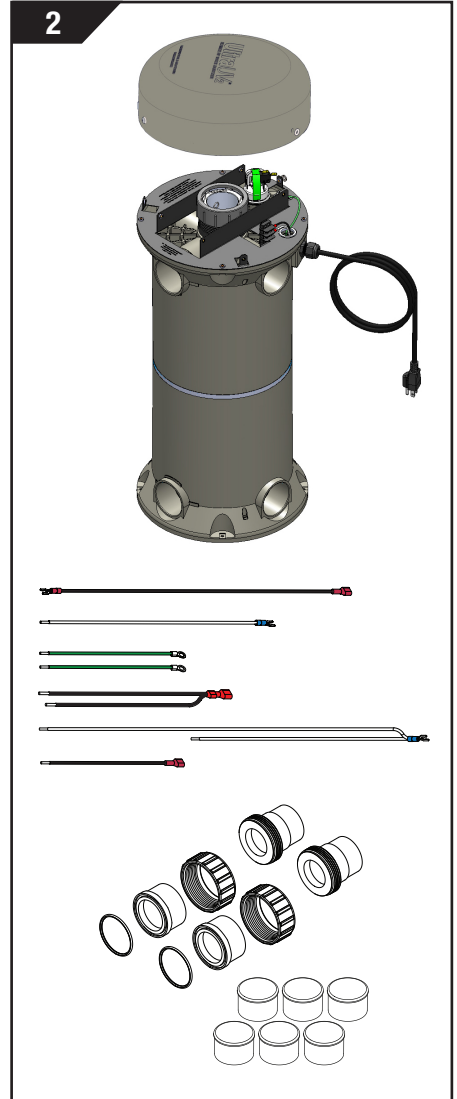
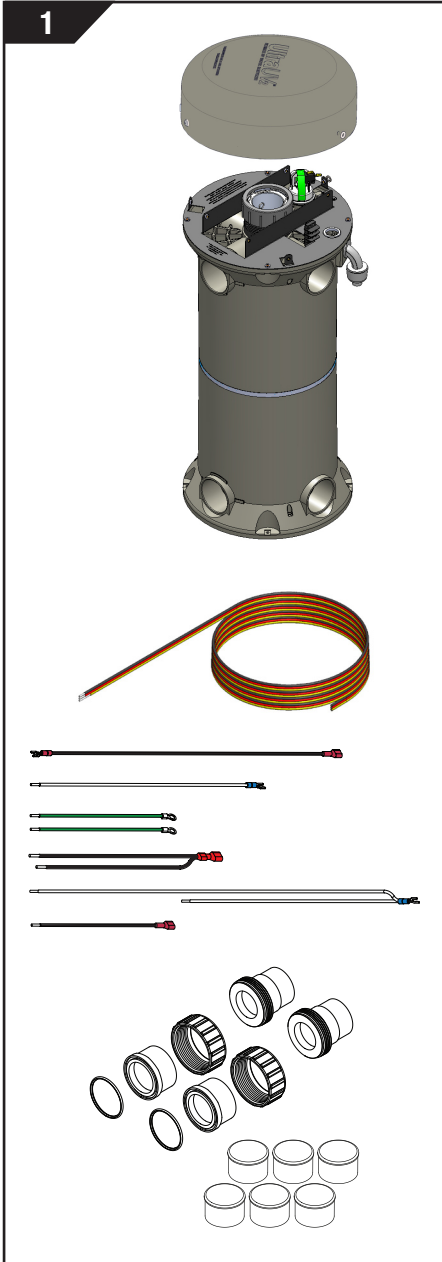
For 120V Corded Units:

- 5. Install the bonnet.
- 6. Connect the corded plug into previously used GFCI receptacle.
- 7. Power on the pump and ensure that the system is functional.

If the unit is not functional test the unit per a typical warranty call.

Replacement Parts

No.	Paramount Part No.	Description
1	005-422-3100-00	Ultra UV Tank Replacement - 120/230V Includes: Wires, 10' bundle wire, quartz tube, quartz tube o-ring, compression washer, bonnet, 2" union kit, (6) blanking plugs
2	005-422-3000-00	Ultra UV Tank Replacement - 120V Includes: Wires, quartz tube, quartz tube o-ring, compression washer, bonnet, 2" union kit, (6) blanking plugs





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