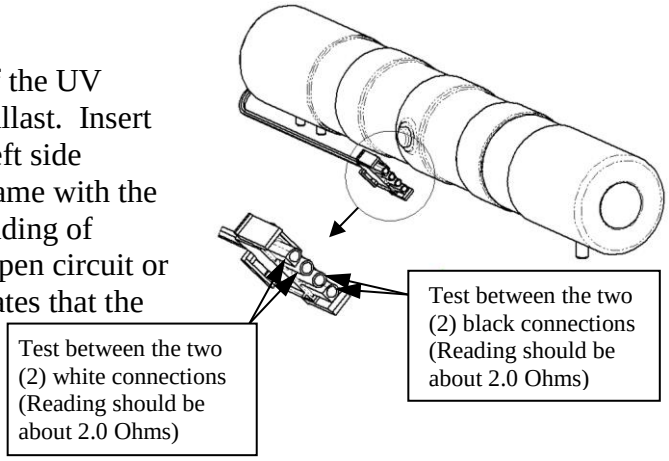
TROUBLE SHOOTING ELECTRICAL

******DISCONNECT POWER TO THE ITEM YOU ARE TESTING******

REQUIRED TOOLS: Volt-Ohm Meter

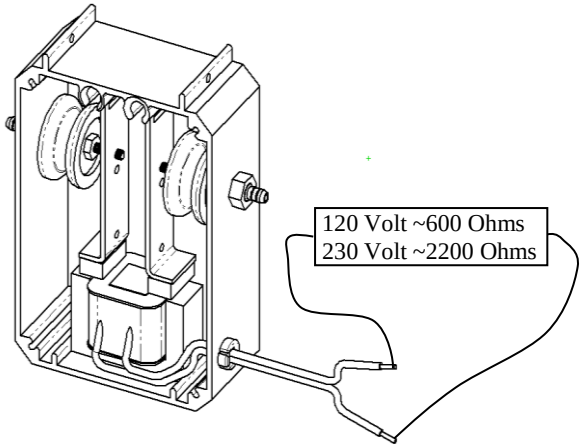
UV LAMP

To test the continuity of the filament at each end of the UV Lamp, unplug the 4 position connector from the Ballast. Insert the probes of the volt-ohm meter into the two (2) left side connectors making contact with the pins. Do the same with the two (2) right side connectors. You should get a reading of around **1.6 Ohms between the tested wires.** An open circuit or very high Ohm reading on either set of wires indicates that the Lamp is faulty.



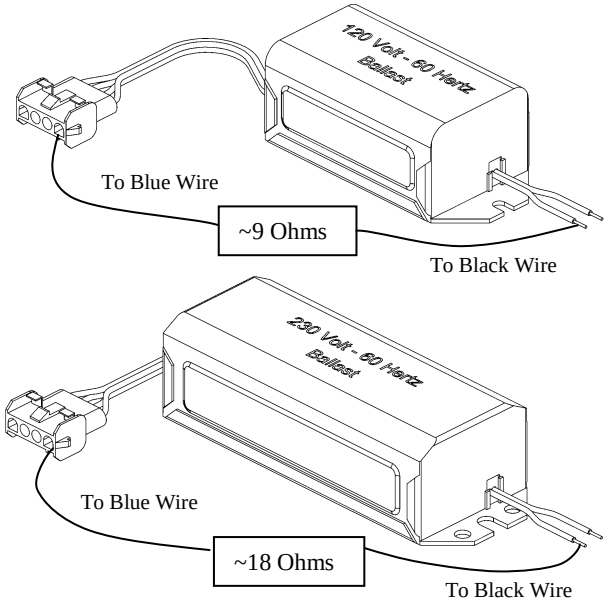
AIR PUMP

To measure resistance of the coil in the Air Pump, disconnect the black wires from the orange wire nuts. Place the ends of the coil wires against each probe from the volt-ohm meter. Do not hold the wire against the probes with your fingers, otherwise you will get a false reading. You should get a reading of around **600 Ohms for a 120 Volt pump** or a reading of approximately **2200 Ohms for a 230 Volt pump**. No resistance or an open circuit means you have a blown coil. Drastically reduced resistance means there are melted (bad) coil wires.



BALLAST

To measure resistance of the Ballast, unplug the 4 position connector from the UV Lamp, and remove the orange wire nuts from the black power wire. Place one probe from the volt-ohm meter into the end of the connector that has the blue wire. Ensure contact is made with the metal pin in the connector. Take the other probe and place it on the end of the black power wire on the other end of the Ballast. You should get a reading of about **9 Ohms on a 120 Volt Ballast** or a reading of approximately **18 Ohms for the 230 Volt Ballast**. If you get a reading of zero or much lower resistance, that means the wires are melted. An open circuit or very high reading means the wires are broken.



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