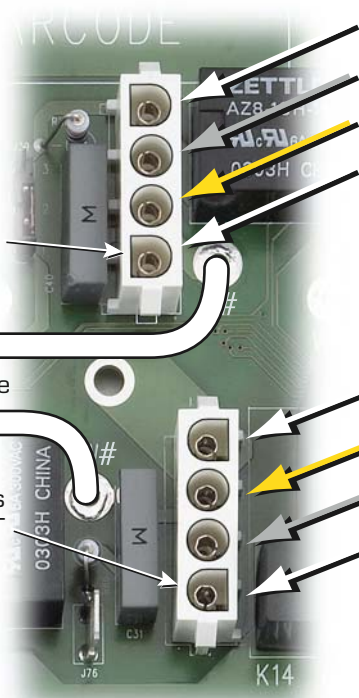


FLAT sides of sockets on the LEFT (most common for ozone)

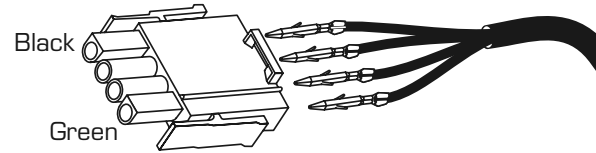
"W-Wires" determine voltage

FLAT sides of sockets on the RIGHT

Verify Ozone output connector voltage by using a voltmeter.



- Black (Hot)
- No Voltage (install leftover conductor here)
- Red for 240 V OR White for 120V ("W-Wire is on this socket)
- Green (Ground)



- Green (Ground)
- Red for 240 V OR White for 120V ("W-Wire is on this socket)
- No Voltage (install leftover conductor here)
- Black (Hot)

**Note:** The pin next to ground determines voltage on these connectors. On some EL2000 boards, the W-Wire for Pump 1 is the same one for the ozone generator. This requires the ozone to be the same voltage as Pump 1 – even with a circ pump.

## Wiring and Installation Instructions for Board-mounted output connectors

Ozone by Balboa is the most reliable and flexible system on the market. The unit can be easily adapted to operate at 120 or 240 volts and with any of the required AMP connector pin positions.

Whenever possible, it is best to use the old ozone unit as your guide for installing the connector on the new Balboa Ozone Generator. Be careful with the orientation of the connector and notice the flat sides on the outer two prongs. Generally black and white wires used on the old unit will indicate 120V operation and Black and Red wires will indicate 240V operation. Confirm this with markings on the old unit and the wiring diagram inside the system box. The "W-Wires" on the circuit board will determine the voltage to the output connectors.

Another method is to measure the voltage from the ozone output of the system with a voltmeter. This will require the system to be on and the ozone output to be energized. This may require Pump 1 low or the Circ Pump to be running and/or a filter cycle to be activated. Use a voltmeter to determine if the ozone connector delivers 120 or 240V.

**WARNING:** High voltage would be present during this operation. Use extreme caution since the system box must be open to check voltage. This operation should be performed by a licensed electrician.

**NOTE:** In order to extend the life of the Balboa Ozone Generator, it is recommended that it only run when the filtration pump is running. Many systems will use the low speed of Pump One to operate the Ozone Generator. **THIS WILL USUALLY REQUIRE THE OZONE GENERATOR TO BE THE SAME VOLTAGE AS THE PUMP.** Some systems allow the ozone to be 120V or 240V and a white "W-Wire" is used to connect to the "White AC" tabs for 120V or the hot "Red AC" tabs for 240V.

**CAUTION:** Once the pins are installed, they cannot be removed without a special tool. Be sure you are positive about the wire positions before installing the connector. Mis-wiring the unit will void its warranty.

It may be helpful to plug in the empty AMP connector to the system ozone output before attaching the wires in order to verify wire positions. Remove the empty connector and install the pins as described below.

Installing the pins is simple. Just push them into the back of the empty AMP connector and you will feel them "click" into position. A slight tug is all that is needed to be sure the terminal is seated.

**For 240 volt installation:** black (line), red (line), open (no pin) green (ground), would be a typical order.

A 240 volt installation will not utilize the white wire. Install that pin into the OPEN (no pin) position in the new connector.

**For 120 volt installation:** black (line), open (no pin), white (neutral), green (ground), would be a typical order.

A 120 volt installation will not utilize the red wire. Install that pin into the OPEN (no pin) position in the new connector.

The unit is now ready to connect to the system.

