



SERIES CL100/110 SERIES CL200/220 by HAYWARD® AUTOMATIC CHLORINE FEEDERS



Owner's Manual

IMPORTANT SAFETY INSTRUCTIONS

Basic safety precautions should always be followed, including the following: Failure to follow instructions can cause severe injury and/or death.

- ⚠ This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury.
- ⚠ **WARNING** warns about hazards that **could** cause serious personal injury, death or major property damage and if ignored presents a potential hazard.
- ⚠ **CAUTION** warns about hazards that **will** or **can** cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.
- ⚠ **DANGER** indicates an imminently hazardous situation which, if not avoided, **will** result in death, serious injury, or major property damage.

The **NOTICE** label indicates special instructions that are important but not related to hazards.

Hayward Pool Products
620 Division Street, Elizabeth, NJ 07207
Phone: (908) 351.5400
www.haywardpool.com



⚠ WARNING - Read and follow all instructions in this owner's manual and on the equipment. Failure to follow instructions can cause severe injury and/or death.

⚠ WARNING – Suction Entrapment Hazard.



Suction in suction outlets and/or suction outlet covers which are, damaged, broken, cracked, missing, or unsecured can cause severe injury and/or death due to the following entrapment hazards:



Hair Entrapment- Hair can become entangled in suction outlet cover.



Limb Entrapment- A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

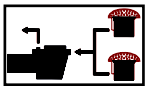


Body Suction Entrapment- A negative pressure applied to a large portion of the body or limbs can result in an entrapment.

Evisceration/ Disembowelment - A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is, damaged, broken, cracked, missing, or unsecured can result in evisceration/ disembowelment.

Mechanical Entrapment- There is potential for jewelry, swimsuit, hair decorations, finger, toe or knuckle to be caught in an opening of a suction outlet cover resulting in mechanical entrapment.

⚠ WARNING - To Reduce the risk of Entrapment Hazards:



- o When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [1 meter] apart, as measured from near point to near point.
- o Dual suction fittings shall be placed in such locations and distances to avoid “dual blockage” by a user.
- o Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- o The maximum system flow rate shall not exceed the flow rating of as listed on Table 1.
- o Never use Pool or Spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached.
- o Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- o In addition two or more suction outlets per pump installed in accordance with latest ASME, APSP Standards and CPSC guidelines, follow all National, State, and Local codes applicable.
- o Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.

⚠ WARNING – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.

⚠ WARNING – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increase potential for suction entrapment as described above.

⚠ WARNING – Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every ten years or if found to be damaged, broken, cracked, missing, or not securely attached.

⚠ CAUTION – Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as means of access to the pool by young children.

⚠ WARNING – Never operate or test the circulation system at more than 50 PSI.

⚠ WARNING – Never change the filter control valve position while the pump is running.

⚠ WARNING – To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.



⚠ WARNING – Hazardous Pressure. Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during pump start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover, and/or filter housing and clamp due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.



⚠ WARNING – Separation Hazard. Failure to follow safety and operation instructions could result in violent separation of pump and/or filter components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, filters manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter manual air relief valve body is in locked position in filter upper body.

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⚠ WARNING – Risk of Electric Shock. All electrical wiring **MUST** be in conformance with applicable local codes, regulations, and the National Electric Code (NEC). Hazardous voltage can shock, burn, and cause death or serious property damage. To reduce the risk of electric shock, do **NOT** use an extension cord to connect unit to electric supply. Provide a properly located electrical receptacle. Before working on any electrical equipment, turn off power supply to the equipment.

⚠ WARNING – To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment.

⚠ WARNING – Electrical ground all electrical equipment before connecting to electrical power supply. Failure to ground all electrical equipment can cause serious or fatal electrical shock hazard.

⚠ WARNING – Do **NOT** ground to a gas supply line.

⚠ WARNING – To avoid dangerous or fatal electrical shock, turn **OFF** power to all electrical equipment before working on electrical connections.

⚠ WARNING – Failure to bond all electrical equipment to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond all electrical equipment. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Notes to electrician: Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm²) [No. 6 AWG (13.3 mm²) for Canada] solid copper bonding wire to the pressure wire connector provided on the electrical equipment and to all metal parts of swimming pool, spa, or hot tub, and metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub.

IMPORTANT - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.

⚠ WARNING – Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit-interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.

⚠ WARNING – Risk of Electric Shock . The electrical equipment must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the electrical equipment without the test button being pushed, a ground current is flowing, indicating the possibility of an electrical shock. Do not use this electrical equipment. Disconnect the electrical equipment and have the problem corrected by a qualified service representative before using.

⚠ CAUTION – The pump is intended for use with permanently-installed pools and may be used with hot tubs and spas if so marked. Do not use with storable pools. A permanently-installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

SAVE THESE INSTRUCTIONS

HAYWARD® Pool Products Limited Warranty

To original purchasers of this equipment, Hayward Pool Products, Inc. warrants its chemical feeders to be free from defects in materials and workmanship for a period of ONE (1) year from the date of purchase, when used in single family residential applications.

The limited warranty excludes damage from freezing, negligence, improper installation, improper use or care or any Acts of God. Parts that fail or become defective during the warranty period shall be repaired or replaced, at our option, within 90 days of the receipt of defective product, barring unforeseen delays, without charge.

Proof of purchase is required for warranty service. In the event proof of purchase is not available, the manufacturing date of the product will be the sole determination of the purchase date.

To obtain warranty service, please contact the place of purchase or the nearest Hayward Authorized Service Center. For assistance on your nearest Hayward Authorized Service Center please visit us at www.haywardpool.com.

Hayward shall not be responsible for cartage, removal, repair or installation labor or any other such costs incurred in obtaining warranty replacements or repair.

The Hayward Pool products warranty does not apply to components manufactured by others. For such products, the warranty established by the respective manufacturer will apply.


The express limited warranty above constitutes the entire warranty of Hayward Pool Products with respect to its' pool products and is in lieu of all other warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose. In no event shall Hayward Pool products be responsible for any consequential, special or incidental damages of any nature.

Some states do not allow a limitation on how long an implied warranty lasts, or the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.


***Supersedes all previous publications.**


Hayward Pool Products
620 Division Street
Elizabeth, NJ 07207


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 **⚠ DANGER** Mixing Chemicals or using fast dissolving chemicals may result in explosion and/or fire. To avoid death, serious injury or major property damage:

- ⚠ Use only slow dissolving Trichlor Chlorine tablets.
- ⚠ Never use fast dissolving Trichlor Chlorine tablets.
- ⚠ Never mix chemicals.
- ⚠ Never mix Trichlor Chlorine tablets with Calcium Hypochlorite, or with any other form of concentrated chlorine or other chemicals. Fire and/or explosion may result.
- ⚠ Never add any other types of chlorine, pH adjusters, shock treatments or algaecides through the skimmer. If these products must be used, they should be added directly into the pool water.
- ⚠ Never isolate chlorine feeder with valves or other devices.

 **⚠ WARNING** Wear eye and skin protection while maintaining or servicing this unit.

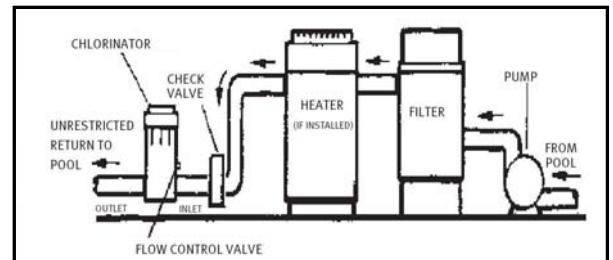
 **⚠ WARNING** Do not inhale fumes from the chlorinator or chemical container.


 **⚠ WARNING** Chlorine feeder may be under pressure. Use caution removing cover.

INSTALLATION:

CL-100/200

1. Your CL-100/200 automatic chlorine feeder is designed for permanent installation in the pool water return line.
2. Always install the chlorine feeder **after** the heater. If there is no heater, install **after** the filter.




 **⚠ CAUTION** Damage to the heater or filter may result if concentrated chlorine is allowed to flow through them.

An in-line positive seal corrosion resistant check valve should be installed to reduce backflow of chlorine gas when the system is shut off. If the chlorine feeder is located below water level, you may want to install a check valve to prevent water backflow when operating/servicing the unit. The CL100 has this feature built in.

3. Both the CL-100/200 are furnished with 1 1/2" female threads. If PVC socket (solvent weld) connections are desired, order SP1500UNPAK2, socket flush union end connectors package. For threaded male and union connectors, order SP1500UNMPAK1 male union connector package (two required). Thread or socket adapters may also be used. Only use pipe sealants formulated and approved for use with ABS plastic connections (e.g. Teflon Tape, Permatex Form-A-Gasket No. 2, Laco Plasto-Joint stick). Do not over tighten pipe fitting. Proper fitting makeup is hand tight plus 1 to 1 1/2 turns maximum.

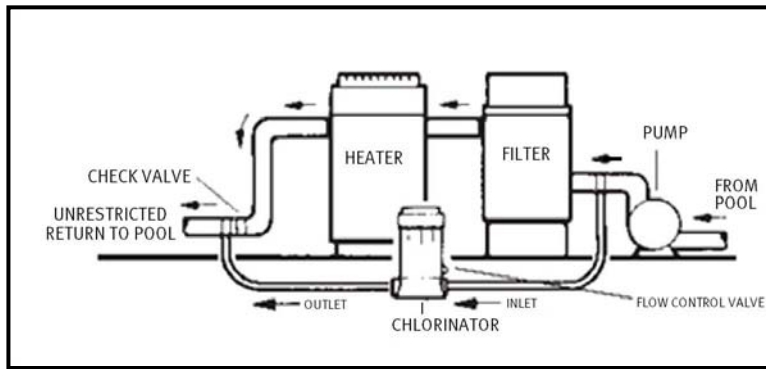
NOTICE: After starting up system, re-check all connections for leaks. Re-tighten as required.

 **⚠ CAUTION** Never install chlorine feeder directly into copper plumbing as pipe damage may occur. If you have brass or bronze backwash valves, or other sensitive metallic components, consult your dealer for precautions or recommendations for your particular system.

CL-110/220

1. The inlet connection should be made in the piping after the pump and before the filter. Mark location on pipe.
2. The outlet connection should be made in the piping after the heater. If no heater is being used, connection should be made after the filter. Mark location on pipe.
3. Based on the locations from steps. No. 1 and No. 2, cut tubing to required lengths. Be sure ends are cut evenly and cleanly.
4. Wrap Teflon tape on larger male thread of Check Valve and thread it hand tight plus 1/2 turn into outlet port of chlorinator. **DO NOT OVER TIGHTEN.**

NOTICE: The Check Valve is marked with a "dot". It also has a ball that "clicks" when you shake it.



5. Wrap Teflon tape on larger male thread of the Inlet Fitting Adapter and thread it hand tight plus 1/2 turn into the inlet port of chlorinator. **DO NOT OVER TIGHTEN.**
6. To connect inlet tubing to chlorinator, place Compression Nut over inlet tubing and slide nut up about 2". Insert the tubing all the way into the Inlet Fitting Adapter socket and, holding tubing in place, tighten nut firmly by hand. Do not over tighten.
7. Connect outlet tubing to the Check Valve in the same manner as in step 6 above.

NOTICE: The saddle fittings and clamps are designed to fit the O.D. of 1 1/2" or 2" pipe.

8. Drill a 3/8" hole at location identified in Step 1 of Planning Installation section. Clean all burrs, shavings etc. Fit Saddle Fitting, with gasket, into oval shaped hole in clamp and insert fitting into the 3/8" hole. Secure clamp around Saddle Fitting, gasket and pipe and tighten securely to achieve a good seal. Do not over tighten clamp.
9. Drill a 3/8" hole at location identified in Step 2 of Installation section for CL-110/220. Install Saddle Fitting as in Step 8 above.
10. Connect inlet and outlet tubing to the Saddle Fittings with Compression Nuts as in Step 6 above. Do not over tighten.

▲ CAUTION Never install chlorine feeder directly into copper plumbing as pipe damage may occur. If you have brass or bronze backwash valves, or other sensitive metallic components, consult your dealer for precautions or recommendations for your particular system.

NOTICE: After starting up system, re-check all connections for leaks. Re-tighten as required.

DIRECTIONS FOR USE:

GENERAL

Before using your chlorinator, your pool/spa water should be properly balanced and conditioned and should have a chlorine residual of approximately 1.0 to 1.5 ppm. Follow dealer and chemical manufacturer's directions and instructions.

Check chlorine residual daily and adjust the dial valve for more or less chlorine. The chlorine demand for pools and spas varies based on usage, temperature, sunlight, etc. Initially, you'll have to experiment to determine the proper amount of chlorine and the correct valve setting required for your pool and filter time cycle. Follow chemical manufacturer's instructions for proper chlorine level.

▲ DANGER Mixing Chemicals or using fast dissolving chemicals may result in explosion and/or fire.

To avoid death, serious injury or major property damage:

- ▲ Use only slow dissolving Trichlor Chlorine tablets.
- ▲ Never use fast dissolving Trichlor Chlorine tablets.
- ▲ Never mix chemicals.
- ▲ Never mix Trichlor Chlorine tablets with Calcium Hypochlorite, or with any other form of concentrated chlorine or other chemicals. Fire and/or explosion may result.
- ▲ Never add any other types of chlorine, pH adjusters, shock treatments or algaecides through the skimmer. If these products must be used, they should be added directly into the pool water.
- ▲ Never isolate chlorine feeder with valves or other devices.

▲ WARNING Wear eye and skin protection while maintaining or servicing this unit.

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- ▲WARNING** Do not inhale fumes from the chlorinator or chemical container.
- ▲WARNING** Chlorine feeder may be under pressure. Use caution removing cover.

REFILLING CHORINATOR

1. Shut off all pumps and pump timers.
2. Turn chlorine feeder flow control valve to “OFF”.
3. Verify chlorine feeder return line to pool is unrestricted.
4. Wait one minute to relieve system pressure before attempting to remove cover.
5. If installed in a flooded system, shut off valves to isolate chlorinator.
6. Remove cover.
7. Refill chlorine feeder with slow dissolving Trichlor-Chlorine Tablets.
8. Secure cover to chlorine feeder.
9. If installed in a flooded system, open valves to assure flow from pump to pool.
10. Turn flow control valve on chlorinator to desired setting and restart pump.

MAINTENANCE:

TO CHANGE O-RING CL100/110

1. Read and follow instructions in Steps 1 to 5 in Refilling Chlorinator section.
2. Remove the O-Ring and replace with a Genuine Hayward Part O-Ring (part no. CLX110K).
3. Replace cover. If chlorinator needs to be refilled, read and follow instructions in Steps 6 to 8 in Refilling chlorinator section.

TO CHANGE O-RING CL200/220

1. Read and follow instructions in Steps 1 to 5 in Refilling Chlorinator section.
2. Pry off Logo Cap, located on the cover of the chlorinator. Unscrew and remove retainer screw. Cover may now be slipped free of the Cover Cap.
3. Replace O-ring with a Genuine Hayward Part O-ring (part no. CLX200K). Reassemble being sure Slip Washers are in place on stem of Cover (inside), and under head of Retaining Screw.
4. Replace cover. If chlorinator needs to be refilled, read and follow instructions in Steps 6 to 8 in Refilling Chlorinator section.

TO REMOVE FLOW CONTROL VALVE HANDLE

Set pointer to FULL. Insert screwdriver in slot opposite pointer, lift up and rotate handle counterclockwise. This allows the handle index lock tab to clear the body ridge.

TO INSTALL FLOW CONTROL VALVE HANDLE

1. The flow control valve handle Genuine Hayward Part (CLX200PA) is furnished in two pieces.
2. To install push the handle into the stem and fully install stem into body. You may have to remove handle and reposition to assure the stem is fully seated.
3. Remove handle by pulling straight out.
4. Apply a single drop of Super Glue to the end of the stem, push on handle, positioned in the OFF position. Apply pressure for 30 seconds.

WINTERIZING

Where freezing temperatures can be expected, drain all water and remove all chlorine from chlorinator. (For in-line permanently installed unit remove drain plug). Carefully remove all tablets and pieces of tablets. Rinse out chlorinator thoroughly with water. Replace cover and drain plug.

VACUUMING

When vacuuming, close flow control valve to prevent bypass of sediment and possible clogging of control valve.

LUBRICATION

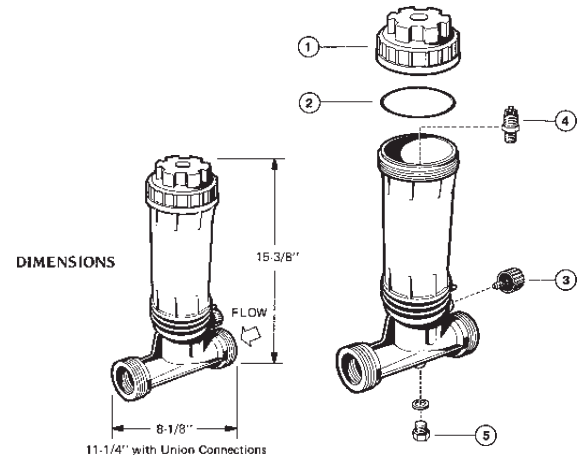
Never use petroleum type lubricants on Cover O-Ring. To lubricate use Genuine Hayward Part Jack’s Lube No. 327 (Part No. SP032712).

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SPARE PARTS

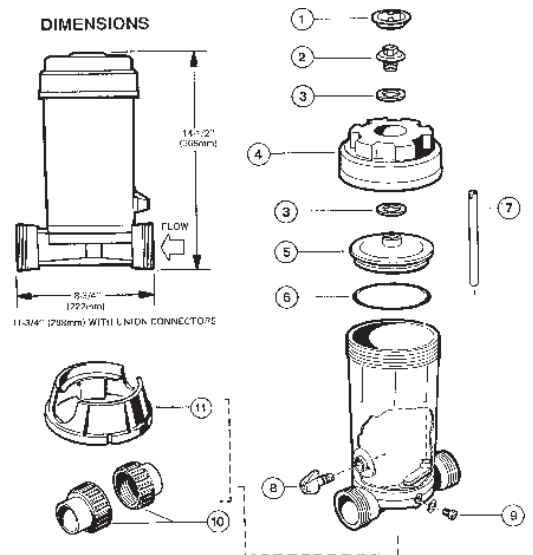
CL100

Ref No.	Part Number	Description	No. Req'd
1	CLX110C	Cover	1
2	CLX110K	O-Ring	1
3	CLX110FA	Control Knob Assembly	1
4	CLX220CV	Check Valve Assembly	1
5	SPX1700FGV	Drain Plug w/Gasket	1
	SP032712	Hayward Jack's Lub #327	1



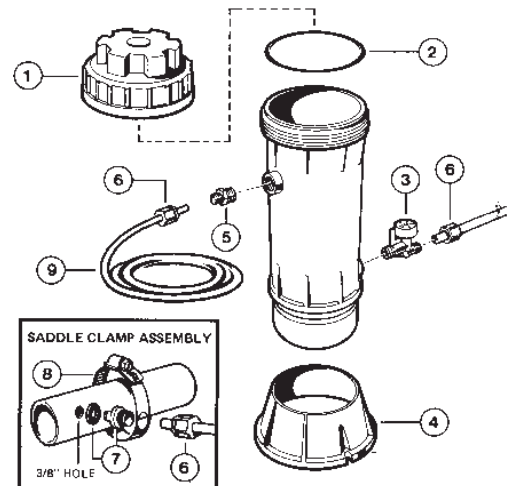
CL200

Ref No.	Part Number	Description	No. Req'd
1	CLX200E	Logo Cap	1
2	CLX200G	Cover Retaining Screw	1
3	CLX200W	Slip Washer	2
4	CLX200C	Cover Cap	1
5	CLX200B	Cover	1
6	CLX200K	O-Ring	1
7	CLX200H	Feeder Tube (some models)	1
8	CLX200PA	Control Valve Assembly	1
9	SPX1700FA	Drain Plug w/Gasket	1
10	SPX1500UNPAK	Union Connectors--Socket (2)	-
11	CLX200BS	Base	1
	SP032712	Hayward Jack's Lub #327	1



CL110

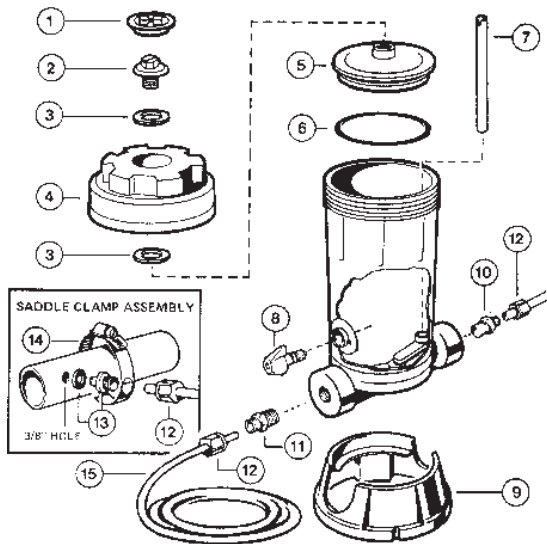
Ref No.	Part Number	Description	No. Req'd
1	CLX100C	Cover	1
2	CLX110K	O--Ring	1
3	CLX110DA	Dial Flow Valve	2
4	CLX110B	Base	1
5	CLX220CV	Check Valve Assembly	1
6	CLX220H	Compression Nuts	4
7	CLX220G	Saddle Fitting	2
8	CLX220K	Saddle Clamp	2
9	CLX220J	Plastic Tubing--8 Ft.	1
	SP032712	Hayward Jack's Lub #327	1



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CL220

Ref No.	Part Number	Description	No. Req'd
1	CLX200E	Logo Cap	1
2	CLX200G	Cover Retaining Screw	1
3	CLX200W	Slip Washer	2
4	CLX200C2	Cover Cap	1
5	CLX200B	Cover	1
6	CLX200K	O-Ring	1
7	CLX200H	Feeder Tube (some models)	1
8	CLX200PA	Control Valve Assembly	1
9	CLX220B	Base	1
10	CLX220CV	Check Valve Assembly	1
11	CLX220D	Inlet Fitting Adapter	1
12	CLX220H	Compression Nuts	4
13	CLX220G	Saddle Fitting	2
14	CLX220K	Saddle Clamp	2
15	CLX220J	Plastic Tubing—8 ft.	1
	SP032712	Hayward Jack's Lub #327	1



PRODUCT REGISTRATION

(Retain For Your Records)

DATE OF INSTALLATION _____

▲ Retain this Warranty Certificate (upper portion) in a safe and convenient location for your records.



DETACH HERE: Fill out bottom portion completely and mail within 10 days of purchase/installation or register online.

AUTOMATIC CHLORINE FEEDERS

Warranty Card Registration

Register online at www.haywardpool.com

Please Print Clearly:

First Name _____ Last Name _____
 Street Address _____
 City _____ State _____ Zip _____
 Phone Number _____ Purchase Date _____
 E-Mail Address _____
 Serial Number _____

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Model Number _____

Pool Capacity _____ (U.S. Gallons)

Please include me on all e-mail communications regarding Hayward® Equipment or promotions.

Mail to: Hayward Pool Products, 620 Division Street, Elizabeth, NJ 07207

Attn: Warranty Dept

Or REGISTER YOUR WARRANTY ON-LINE AT WWW.HAYWARDPOOL.COM

Years Pool has been in service
 < 1 year 1-3 4-5 6-10 11-15 >15
 Purchased from _____
 Builder Retailer Pool Service Internet/Catalog
 Company Name _____
 Address _____
 City _____ State _____ Zip _____
 Phone _____

Type of Pool:
 Concrete/Gunite Vinyl Fiberglass
 Other _____

New Installation Replacement

Installation for:
 In Ground Above Ground Spa



Hayward is a registered trademark of Hayward Industries, Inc.



INSTALLATION MANUAL

ENGLISH



Jandy Pro Series WaterColors LED Lights Underwater Large and Small Light

WARNING

FOR YOUR SAFETY - This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist. The maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.



Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death.

ATTENTION INSTALLER - This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

H0305500 Rev B



Table of Contents

Section 1. Safety Information	3	Section 6. Jandy WaterColors LED Light Operating Instructions	8
Section 2. Product Description and Model Numbers	4	6.1 To Operate the Light and Change Colors.....	8
Section 3. Installing Jandy Light Fixture during New Construction.....	5	6.2 To Reset to the Beginning of the Color Sequence	10
3.1 Preparing the Light Fixture for Installation.....	5	Section 7. Replacing Light Engine (PCB).....	10
3.2 Installing the Light Fixture	6	Section 8. Twelve (12) Volt Installation.....	13
Section 4. Replacing Jandy Light Fixture in an Existing Pool or Spa.....	6	Section 9. Exploded View and Replacement Parts.....	14
4.1 Preparing the Light Fixture for Replacement.....	6	9.1 Jandy Large WaterColors LED Light.....	14
4.2 Replacing the Light Fixture	7	9.2 Jandy Small WaterColors LED Light	15
Section 5. Wiring Options for Controlling Jandy WaterColors LED Lights	8		
5.1 Wiring to an AquaLink® RS Control System	8		
5.2 Wiring to a Time Clock	8		
5.3 Wiring to a Switch.....	8		

Section 1. Safety Information

IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS READ AND FOLLOW ALL INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

WARNING

RISK OF ELECTRICAL SHOCK OR ELECTROCUTION. This underwater light must be installed by a licensed or certified electrician in accordance with the National Electrical Code and applicable local codes and ordinances. Improper installation will create an electrical hazard, which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property. Read and follow the specific instructions below.

WARNING

Before installing this underwater light, read and follow all warning notices and instructions accompanying this light. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call (707) 776-8200 for additional free copies of these instructions.

CAUTION

Except when the Jandy Pro Series WaterColors LED Lights are installed in an area of the swimming pool that is not used for swimming and the lens is adequately guarded to keep any person from contacting it, the light shall be installed in or on a wall of the pool, with the top of the lens opening not less than 18 inches (457 mm) below the normal water level of the pool



ATTENTION INSTALLER

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

NOTICE

The Jandy Pro Series WaterColors LED Lights are intended for installation in fresh water and salt water swimming pools. It is important to ensure that the wet niches in which the lights are installed are intended for their appropriate application, either fresh water or salt water pools.

SAVE THESE INSTRUCTIONS

Section 2. Product Description and Model Numbers

Model #	WaterColors Light Size	Voltage	Amps	Cord Length	Face Ring Material
CPLVLEDS30	Large	12 Volt AC	4.0	30 feet	Stainless Steel
CPLVLEDS50	Large	12 Volt AC	4.0	50 feet	Stainless Steel
CPLVLEDS100	Large	12 Volt AC	4.0	100 feet	Stainless Steel
CPLVLEDP100	Large	12 Volt AC	4.0	100 feet	Plastic
CPLVLEDS50C	Large	12 Volt AC	4.0	50 feet	Stainless Steel
CPLVLEDS100C	Large	12 Volt AC	4.0	100 feet	Stainless Steel
CPLVLEDP100C	Large	12 Volt AC	4.0	100 feet	Plastic
CPHVLEDS30	Large	120 Volt AC	0.4	30 feet	Stainless Steel
CPHVLEDS50	Large	120 Volt AC	0.4	50 feet	Stainless Steel
CPHVLEDS100	Large	120 Volt AC	0.4	100 feet	Stainless Steel
CPHVLEDP100	Large	120 Volt AC	0.4	100 feet	Plastic
CPHVLEDS150	Large	120 Volt AC	0.4	150 feet	Stainless Steel
CPHVLEDS250	Large	120 Volt AC	0.4	250 feet	Stainless Steel
CPHVLEDS50C	Large	120 Volt AC	0.4	50 feet	Stainless Steel
CPHVLEDS100C	Large	120 Volt AC	0.4	100 feet	Stainless Steel
CPHVLEDP100C	Large	120 Volt AC	0.4	100 feet	Plastic
CSLVLEDS30	Small	12 Volt AC	2.0	30 feet	Stainless Steel
CSLVLEDS50	Small	12 Volt AC	2.0	50 feet	Stainless Steel
CSLVLEDS100	Small	12 Volt AC	2.0	100 feet	Stainless Steel
CSLVLEDP100	Small	12 Volt AC	2.0	100 feet	Plastic
CSLVLEDS50C	Small	12 Volt AC	2.0	50 feet	Stainless Steel
CSLVLEDS100C	Small	12 Volt AC	2.0	100 feet	Stainless Steel
CSLVLEDP100C	Small	12 Volt AC	2.0	100 feet	Plastic
CSHVLEDS30	Small	120 Volt AC	0.2	30 feet	Stainless Steel
CSHVLEDS50	Small	120 Volt AC	0.2	50 feet	Stainless Steel
CSHVLEDS100	Small	120 Volt AC	0.2	100 feet	Stainless Steel
CSHVLEDP100	Small	120 Volt AC	0.2	100 feet	Plastic
CSHVLEDS150	Small	120 Volt AC	0.2	150 feet	Stainless Steel
CSHVLEDS250	Small	120 Volt AC	0.2	250 feet	Stainless Steel
CSHVLEDS50C	Small	120 Volt AC	0.2	50 feet	Stainless Steel
CSHVLEDS100C	Small	120 Volt AC	0.2	100 feet	Stainless Steel
CSHVLEDP100C	Small	120 Volt AC	0.2	100 feet	Plastic

Section 3. Installing Jandy Pro Series Light Fixture during New Construction

⚠ WARNING

Risk of Electrical Shock or Electrocutation.

This underwater light must be installed by a licensed or certified electrician or a qualified pool serviceman in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock, and may also cause damage to property.

Always disconnect the power to the color light at the circuit breaker before installing or servicing the light. Failure to do so could result in death or serious injury to serviceman, pool or spa users or others due to electrical shock.

3.1 Preparing the Light Fixture for Installation

NOTE The electrician must complete preparatory steps before light fixture is installed. See Figure 1.

Ensure that the pool meets the requirements of the current National Electrical Code and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical Code, which the pool electrical systems must meet, are as follows:

1. The lighting circuit must have a Ground Fault Circuit Interrupter (GFCI) for 120 volt models, and must have an appropriately rated circuit breaker.
2. The junction box (or, for 12 volt models, the low voltage transformer) must be located at least eight (8) inches above water level, at least four (4) inches above ground level, and at least four (4) feet from the edge of the pool. See Figure 1.
3. The light fixture and all metal items within five (5) feet of the pool must be properly electrically bonded to a reliable point of grounding.
4. The wet niche must be properly installed so that the top edge of the underwater light's lens is at least 18 inches below the surface of the water in the pool. See Figure 1.

5. The wet niche must be properly electrically bonded and grounded via the No. 8 AWG ground connector located at the rear of the niche. See Figure 1.

NOTE To be certain that the pool's electrical system meets all applicable requirements, the electrician should also consult the local building department.

Use only approved wet niches (see following note) to ensure a safe and proper installation.

NOTE Jandy Pro Series lights are ETL listed (ETL report/file 3141154CHI) for installation with *only* the following manufacturer's wet niche fixtures:

Large Niche Model Numbers:

Jandy Pro Series: PLNICLRG, PLNICVFLRG, SSNICLRG1R, SSNICLRG1S

Pentair: 620004, 78210200 thru 700, 78210401, 79206700

Hayward DuraNiche: SP0600U

Sta-Rite: 05161-2352 thru 2369, 05163-2395 thru 2396

Small Niche Model Numbers:

Jandy Pro Series: PLNICSM, SSNICSM, Pentair: 78241100, 78242200, 78242300

78243100 thru 300, 78244100 thru 300, 79206600

Hayward DuraNiche: SP0601U

Sta-Rite: 05166-1017 thru 1034, 05167-1035 thru 1037

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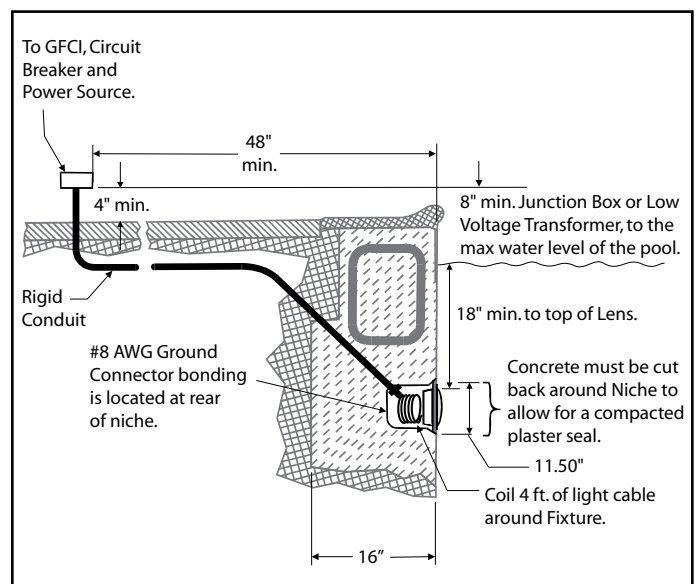


Figure 1. Jandy Pro Series Digital Color Light Installation

3.2 Installing the Light Fixture

NOTE Perform these steps *only* after the electrical system requirements are met.

1. Feed cord through conduit to junction box, leaving at least four (4) feet of cord at the light fixture to coil into the base of the light niche, see Figure 1. The four (4) feet of cord allows the light to be serviced after the pool is filled with water.
2. Cut the cord at the junction box, leaving at least six (6) inches of cord to make connections.
3. Strip six (6) inches of the outer cord jacket to expose the three insulated wires. *Be careful not to damage the insulation on the three (3) inner wires.*
4. Install strain relief over cord jacket and connect all three (3) wires to the corresponding circuit wires in the junction box. Install the junction box cover.
5. Coil the 4-foot length of cord around the fixture or into the base of the pool niche, and place the light assembly into the niche.
6. Engage the retainer tab on the bottom of the face ring, then pivot the top of the fixture inward and tighten the special pilot screw.

WARNING

Use only the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

7. Fill the pool until the underwater light is completely submerged in water before operating the light for more than 10 seconds. Turn on main switch or circuit breaker, and the switch, which operates the underwater light, to check for proper operation. Refer to *Section 6, Operating Instructions*.

WARNING

Never operate this underwater light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in breakage of the bulb or lens. This may result in serious injury to pool or spa users, installers, or bystanders or damage to property.

Section 4. Replacing Jandy Pro Series Light Fixture in an Existing Pool or Spa

WARNING

Risk of Electrical Shock or Electrocution.

This underwater light must be installed by a licensed or certified electrician or a qualified pool serviceman in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock, and may also cause damage to property.

Always disconnect the power to the color light at the circuit breaker before installing or servicing the light. Failure to do so could result in death or serious injury to serviceman, pool or spa users or others due to electrical shock.

4.1 Preparing the Light Fixture for Replacement

Verify that the pool meets the requirements of the current National Electrical Code® (NEC) and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical Code, which the pool's electrical system must meet, are as follows:

1. The lighting circuit must have a Ground Fault Circuit Interrupter (GFCI) for 120 volt models, and must have an appropriately rated circuit breaker.
2. The junction box (or, for 12 volt models, the low voltage transformer) must be located at least eight (8) inches above water level, at least four (4) inches above ground level or pool deck level, and at least 48 inches from the edge of the pool or spa. See Figure 1.
3. The light fixture and all metal items within five (5) feet of the pool must be properly electrically bonded to a reliable point of grounding.
4. The wet niche must be properly installed so that the top edge of the underwater light's lens is at least 18 inches below the surface of the water in the pool. See Figure 1.

- The wet niche must be properly electrically bonded and grounded via the No. 8 AWG ground connector located at the rear of the niche. See Figure 1.

To be certain that the pool's electrical system meets all applicable requirements, the electrician should also consult the local building department.

4.2 Replacing the Light Fixture

NOTE Perform these steps *only* after the electrical system requirements are met.

WARNING

Failure to bring the pool's electrical system up to code requirements before installing the underwater light will create an electrical hazard which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property.

NOTE The light fixture may be replaced without removing water from the pool.

- Turn off the **main** electrical switch or circuit breaker, as well as the switch, which operates the underwater light.
- Unscrew the special pilot screw at top of the face ring and remove the light assembly from the niche, and place the assembly on the deck.

WARNING

Be sure to keep the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

- Remove Junction Box cover, disconnect the light fixture wires and strain relief, and then pull the cord out of the conduit from the niche.
- Feed the new light fixture cord through the conduit from the niche to the Junction Box.

NOTE Depending on the length of the conduit, special tools may be required to pull the cord through the conduit.

- Leave at least four (4) feet of cord to coil around the light fixture or coiled into the base of the light niche, see Figure 1. This allows the light to be serviced after the pool is filled with water.

- Cut the cord at the Junction Box, leaving at least six (6) inches of cord to make connections.
- Strip six (6) inches of the outer cord jacket from the cord to expose the three insulated wires. *Be careful not to damage the insulation on the three (3) inner wires.*
- Install the strain relief over the cord jacket and connect all three wires to the corresponding circuit wires in the junction box. Install the junction box cover.
- Reinstall the light assembly into the niche and tighten the special pilot screw.

WARNING

Use only the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

- Fill the pool until the underwater light is completely submerged in water before operating the light for more than 10 seconds. Turn on main switch or circuit breaker, as well as the switch, which operates the underwater light, to check for proper operation. Refer to *Section 6, Operating Instructions*.

WARNING

Never operate this underwater light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in breakage of the bulb or lens. This may result in serious injury to pool or spa users, installers, or bystanders or in damage to property.

Section 5. Wiring Options for Controlling Jandy Pro Series WaterColors LED Lights

NOTE The Jandy Pro Series WaterColors Lights will not operate properly with light dimmers. *Do not wire the Jandy Pro Series Lights to any dimming circuitry.*

To the extent allowed by code and capacity of the electrical equipment, multiple Jandy Pro Series lights may be controlled with a single switch so their colors will *always* be synchronized.

Separate switches may be used to control the on/off and color functions of each Jandy Pro Series light. It is recommended that these switches be located next to each other to facilitate simple color synchronization when desired. All switches *must be operated at the same time to assure color synchronization*. Otherwise, the lights will work independently of each other.

5.1 Wiring to an AquaLink® RS Control System

The Jandy Pro Series WaterColors Lights can be wired into the Jandy Pro Series AquaLink RS control system to provide simplified operation of the lights, as well as a means to synchronize the color change function. Connect the lights to one of the auxiliary relays in the Power Center.

NOTE It is recommended to connect one light per relay so each light can be controlled separately. However, up to four lights can be connected on a single relay. If there are more than four lights installed on one AquaLink RS system, ensure there is more than one auxiliary relay available in the Power Center.

Refer to Figures 2 and 3 to connect the Jandy Pro Series Color Lights to the Power Center.

CAUTION

A Ground Fault Circuit Interrupter (GFCI) must be provided for 120 volt models. The conductors on the load side of the GFCI circuit shall not occupy conduit, boxes, or enclosures containing other conductors unless the additional conductors are also protected by a GFCI. Refer to local codes for complete details.

NOTE The Jandy Pro Series WaterColors Lights are available in 120-volt and 12-volt versions. If installing a 12-volt light, a 120-volt/12-volt step-down (AC) transformer *must* be used. For more information about 12-volt installations, refer to *Section 8* of this manual.

5.2 Wiring to a Time Clock

The Jandy Pro Series WaterColors Lights can be wired into a basic time clock to automatically turn on the lights at a predesignated time. Refer to Figure 4 to connect the lights into the time clock.

5.3 Wiring to a Switch

The Jandy Pro Series WaterColors Lights can be wired into a switch to manually turn on/off the lights. Refer to Figure 5 to connect the lights into the switch.

Section 6. Jandy Pro Series WaterColors LED Light Operating Instructions

6.1 To Operate the Light and Change Colors

Turn the light **ON**. The *first* time the light is turned on, the color sequence begins with the Alpine White. To change the color, turn the light **OFF** and then **ON** within three (3) seconds. Continue turning **OFF** and **ON** until the desired light color mode is reached. See Table 1 for the color mode sequence.

Table 1. Jandy Pro Series WaterColors Lights Sequence

Sequence Order	Color Modes
1	Alpine White
2	Sky Blue
3	Cobalt Blue
4	Caribbean Blue
5	Spring Green
6	Emerald Green
7	Emerald Rose
8	Magenta
9	Violet
10	Slow Color Splash
11	Fast Color Splash
12	America the Beautiful
13	Fat Tuesday
14	Disco Tech

NOTE When the light is turned **OFF** for more than seven (7) seconds, it will remain in the color set that is currently active. When the light is turned back **ON**, the light will be on the same color set.

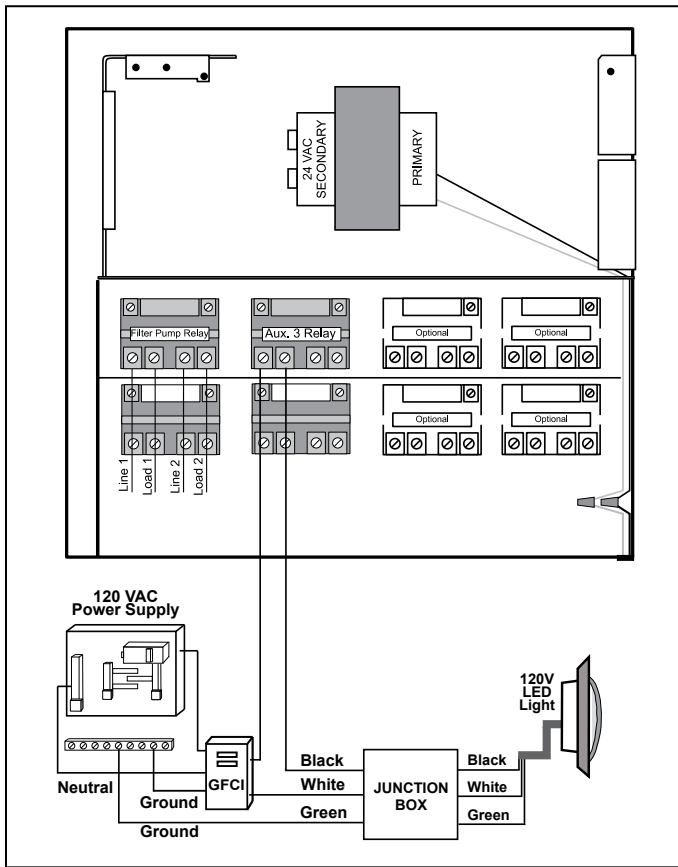


Figure 2. 120-Volt Jandy Pro Series WaterColors Light Wiring Diagram

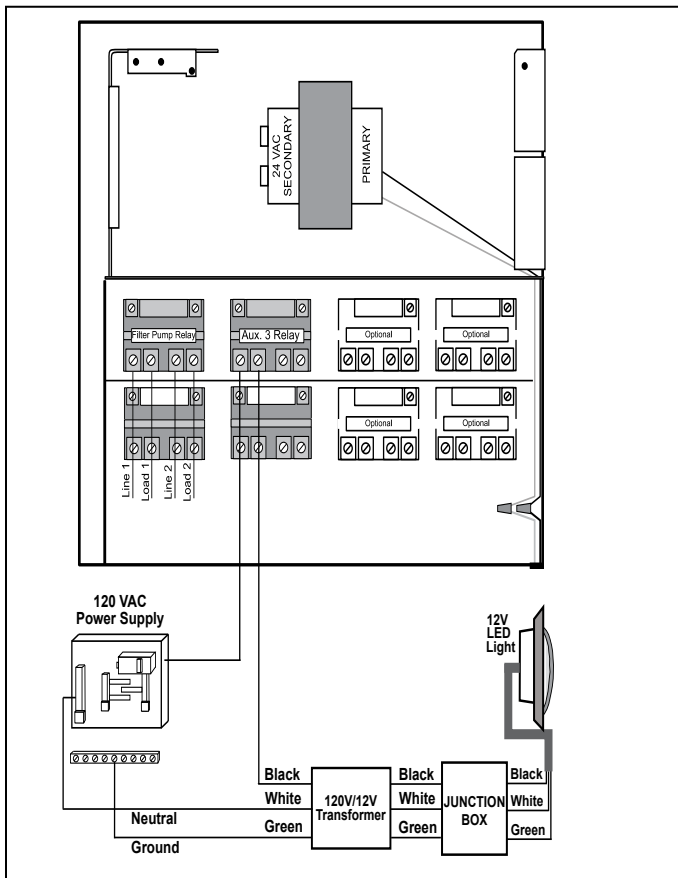


Figure 3. 12-Volt Jandy Pro Series WaterColors Light Wiring Diagram

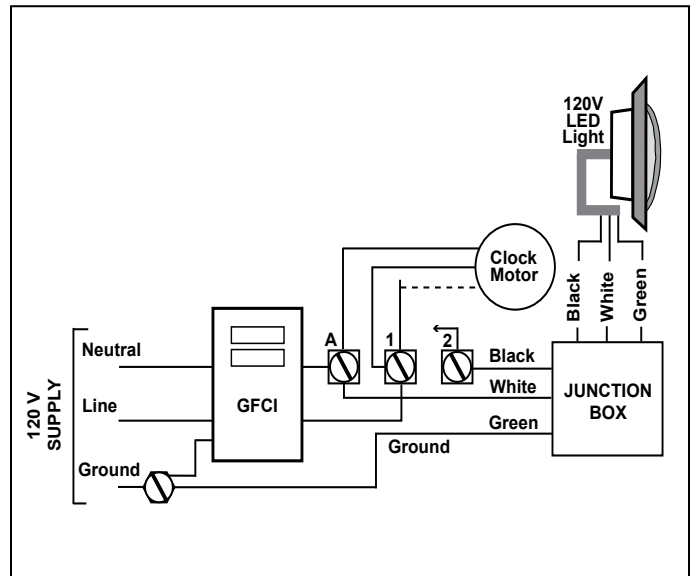


Figure 4. Wiring the Jandy Pro Series WaterColors Light to a Time Clock

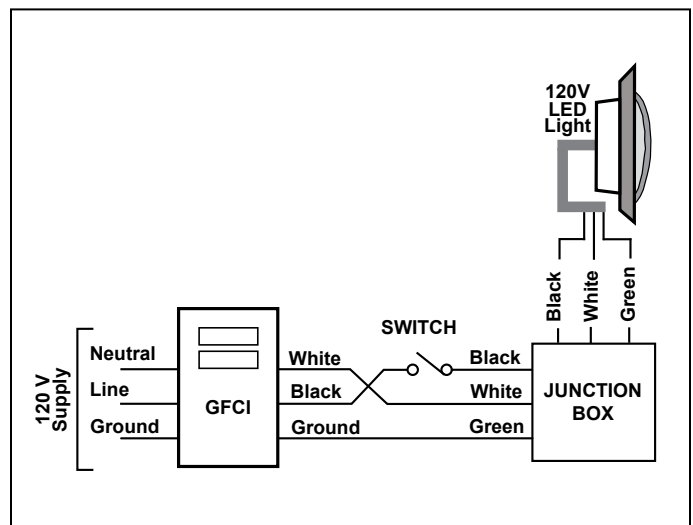


Figure 5. Wiring the Jandy Pro Series WaterColors Light to a Switch

6.2 To Reset to the Beginning of the Color Sequence

Turn the light OFF, wait four (4) to five (5) seconds, then turn ON, the light will return to the beginning of the color cycle (Alpine White).

NOTE If an AquaLink RS control system is being used the color set can be selected using the indoor controller.

NOTE To synchronize colors on multiple Jandy Pro Series WaterColors Light systems wired to separate switches, perform the above actions on all of their switches simultaneously. All Jandy Pro Series WaterColors Lights will synchronize automatically if activated by the same switch. No other accessories are required.

Table 2. Light Specifications

Jandy Pro Series Model	Fixture Voltage	Light Engine (PCB) Part Number
WaterColors Large Light	12 Volt AC	R0474000
WaterColors Large Light	120 Volt AC	R0474100
WaterColors Small Light	12 Volt AC	R0473900
WaterColors Small Light	120 Volt AC	R0473900

Section 7. Replacing Light Engine (PCB)

WARNING

Always disconnect power to the color light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to installer, serviceman, pool or spa users or others due to electrical shock.

1. Turn off the main electrical switch or circuit breaker, as well as the switch, which operates the underwater light.
2. Be sure to have the following items:
 - A new lens gasket, P/N R0451101 for the large light or P/N R0400501 for the small light.
 - A light engine. See Table 2 for specification.

WARNING

Replace light engine with the same type. Failure to replace the light engine with the same type will damage the light assembly and may cause an electrical hazard resulting in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property. Be sure the power is switched OFF before removing or installing PCB. Allow PCB to cool before replacing.

3. To remove the light assembly, unscrew the special pilot screw at the top of the face ring, remove light assembly from niche and gently place assembly on the deck. It is not necessary to drain down the pool. See Figure 6.

WARNING

Be sure to keep the special pilot screw from this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

4. Pool Clamp Removal.
 - a. Loosen the Phillips head screws (six (6) for small light, eight (8) for large light) to allow the bottom clamp to be removed from the face ring assembly. Do not remove the screws or the retaining rings. The retaining rings prevent the screws from falling free from the bottom clamp and also aid in ease of assembly.
 - b. Remove the bottom clamp, the face ring assembly, the glass lens, and the gasket from the fixture. Remove the gasket from the lens. Refer to *Section 9, Exploded View and Replacement Parts*.
5. Light Engine Replacement
 - a. 12V Small Light Engine (PCB) Replacement
 1. Remove two (2) nuts and two (2) washers.
 2. Unplug the quick disconnect terminals from the light engine.
 3. Remove the light engine from the light fixture.
 4. Place new light engine into the fixture with the orientation shown in Figure 7.
 5. Secure the light engine with one (1) nylon washer and one (1) nut. Torque to 12 in-lbs.
 6. Place a nylon washer on the other stud and place the green ground wire terminal on the nylon washer and secure both with the nut. Torque to 12 in-lbs.

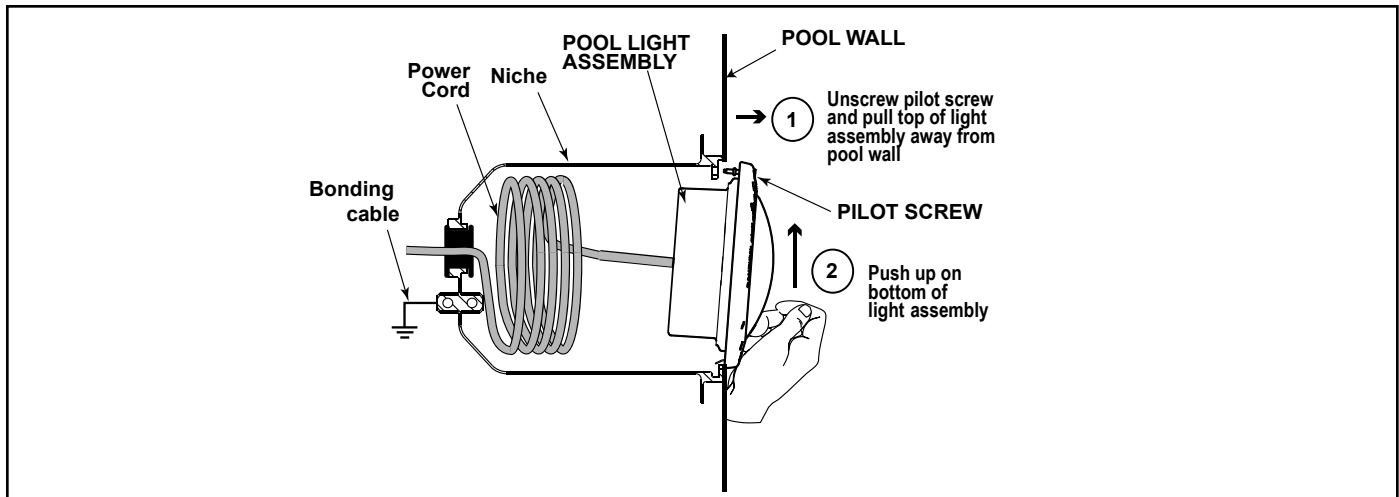


Figure 6. Removing the Jandy Pro Series WaterColors Light Assembly for Light Engine Replacement

7. Plug in the quick disconnect wire (white for the 12V and red for the 120V) onto the terminal (AC1) of the light engine.
 8. Plug in the quick disconnect wire (black for the 12V and blue for the 120V) onto terminal (AC2) of the light engine.
- b. Large Light Engine (PCB) Replacement (120V and 12V)
1. Remove three (3) nuts and washers.
 2. Unplug the quick disconnect terminals from the PCB.
 3. Remove the light engine from the light fixture.
 4. Place new light engine into the fixture with the orientation shown in Figure 8.
 5. Secure the new light engine (PCB) with two (2) nylon washers and two (2) nuts. Torque to 12 in-lbs.
 6. Plug in the white quick disconnect wire onto the terminal (J2) of the light engine.
 7. Plug in black quick disconnect wire onto terminal (J6) of the light engine for the 12V models; or terminal (J3) of the light engine for 120V models.
- 8a. For 12V models, place a nylon washer on the stud and place the green ground wire terminal on the nylon washer and secure both with the nut. Torque to 12 in-lbs.
 - 8b. For 120V models, place the green ground wire on the stud and secure with the nut. Torque to 12 in-lbs.
6. Reassemble the fixture.
- a. If not already done, remove the gasket from the glass lens and install a new gasket, P/N R0451101 for the large light and R0400501 for the small light, on the lens. On the small light, remove the diverger from the lens.

NOTE A new lens gasket must be used each time the light is reassembled.

⚠ WARNING

Risk of Electrical Shock or Electrocution. Always install a new lens gasket whenever disassembling the light (Jandy Color Light Gasket P/N R0451101 for large light and P/N R0400501 for small light). Failure to do so may permit water to leak into the assembly, which could cause:

- (a) An electrical hazard resulting in death or serious injury to pool or spa users, installers, or others due to electrical shock, or
- (b) A malfunction of the Jandy WaterColors Light, which likewise could result in serious injury to pool or spa users, installers, or bystanders, or in damage to property.

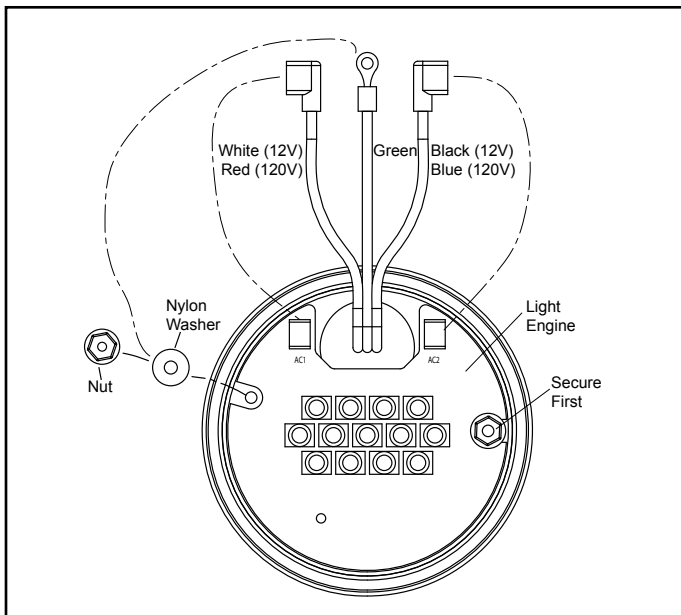


Figure 7. Small Light Engine (PCB) Replacement and Wiring

- b. While holding the fixture upright, place the glass lens with the gasket on top of the fixture. Please note that the lens gasket is not symmetrical. Therefore, it must be installed correctly so that the lens can seal to the fixture housing. Place the gasket on the lens so that the thick molded side of the gasket will mate with the housing when the lens is installed, see Figure 10. On the small light, replace the diverger by tucking the tabs between the lens and gasket.

NOTE Be sure to face the dull side of the diverger down towards the PCB.

- c. Position the lens and gasket on the fixture. Place the face ring assembly over the lens and align the pilot screw with the small arrow mark on the face of the lens. Note that the small arrow mark on the face of the lens and the pilot screw of the face ring must be aligned with the arrow located on fixture label that reads, “Arrow on this label must line up with the pilot screw on the Face Ring”. See Figure 9.
- d. While holding the aligned face ring assembly and fixture together, turn the assembly upside down and set it on the old gasket, using the old gasket as an assembly fixture. This will keep the lens and gasket assembly from being pushed out of the face ring while you secure it to the light fixture.
- e. Spread the bottom clamp over the electrical cord and slide it onto the back of fixture to the top clamp.
- f. Tighten the Phillips head screws (eight (8) for large light and six (6) for small light) on the light in alternating cross-pattern. Torque screws to approximately 20 in-lbs. Do not over-tighten.
- g. Discard the old gasket.

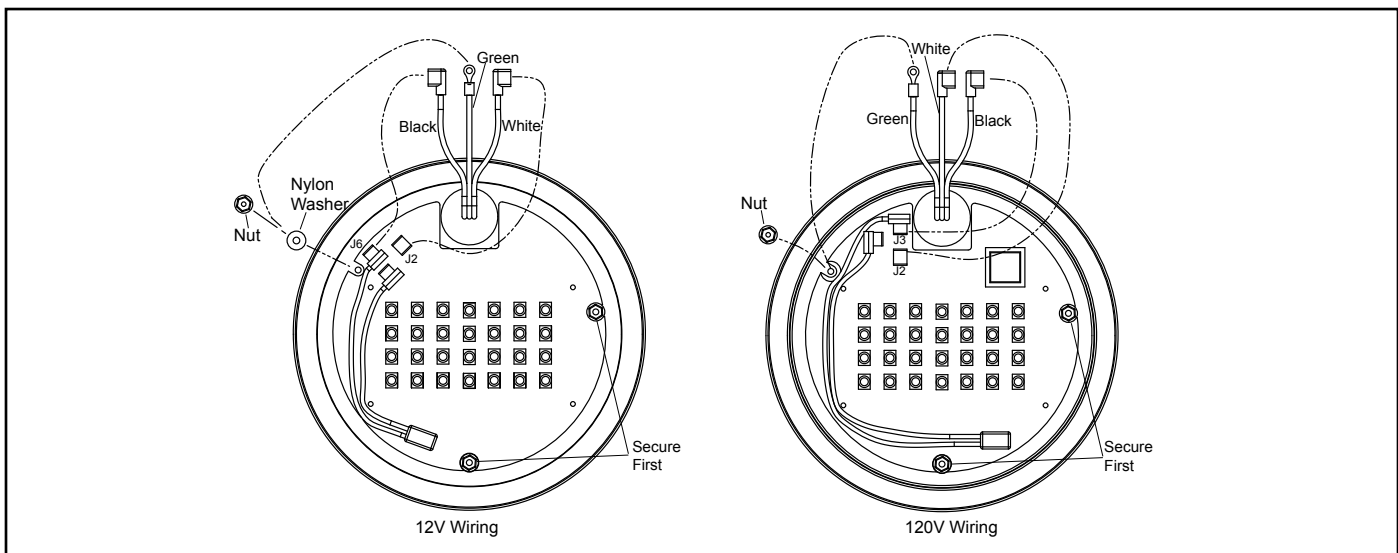


Figure 8. Large Light Engine (PCB) Replacement and Wiring

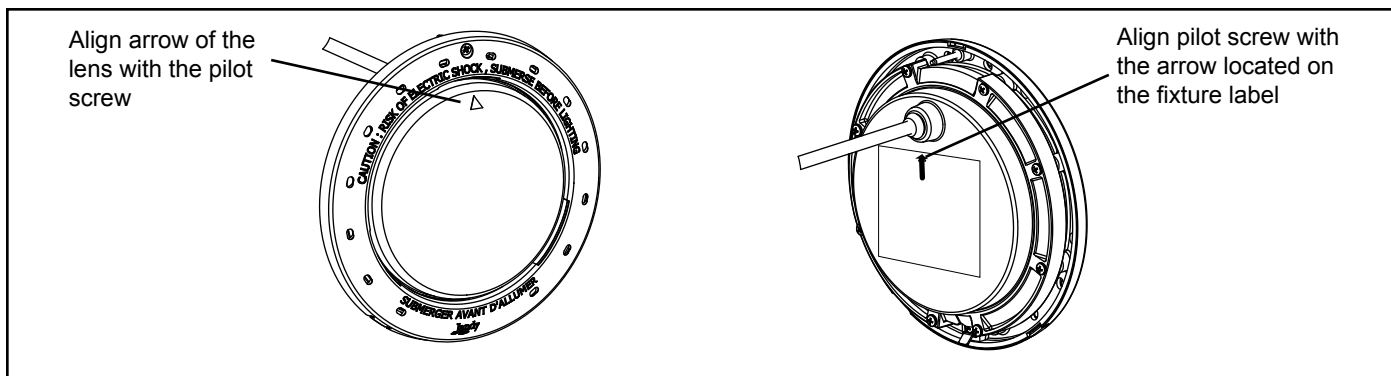


Figure 9. Alignment of the Lens, Face Ring, Housing and Clamps for WaterColors Lights

7. Reinstall the Jandy Pro Series Light into niche fixture.
 - a. Coil the extra four (4) feet of cord around the fixture or into the base of the niche and place the light assembly into the niche.
 - b. Engage the retainer tab on the bottom of the face ring, then pivot the top of the fixture inward and tighten the special pilot screw.

⚠ WARNING

Use only the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

8. If pool is empty, fill the pool until the underwater light is completely submerged in water before operating the light for more than 10 seconds. Turn on main switch or circuit breaker, as well as the switch, which specifically operates the underwater light, to check for proper operation.

⚠ WARNING

Never operate this underwater light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in damage to the light. This may result in serious injury to pool or spa users, installers, or bystanders or in damage to property.

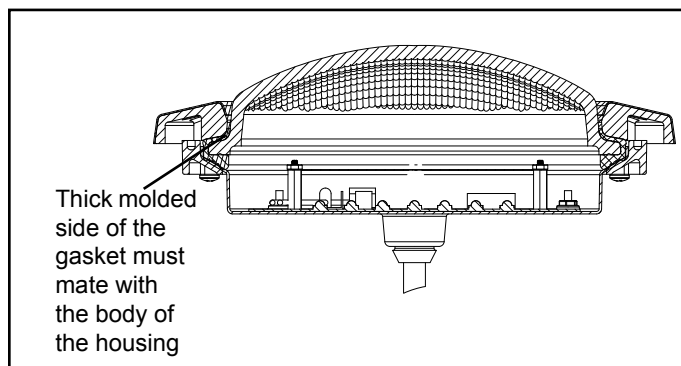


Figure 10. Cross Section of Jandy Pro Series WaterColors LED Light

Section 8. Twelve (12) Volt Installation

A separate 12-Volt AC Transformer is required on all 12-Volt Models. For Jandy Pro Series WaterColors Light use a 150-watt multi-tap 12-volt system per light.

NOTE For optimum performance Jandy Pro Series recommends to use one transformer per 12-volt light.

To ensure maximum safety, it is strongly recommended that a transformer that has been listed or recognized by a Nationally Recognized Testing Laboratory (NRTL) for the application be used.

Section 9. Exploded View and Replacement Parts

9.1 Jandy Pro Series Large WaterColors LED Light

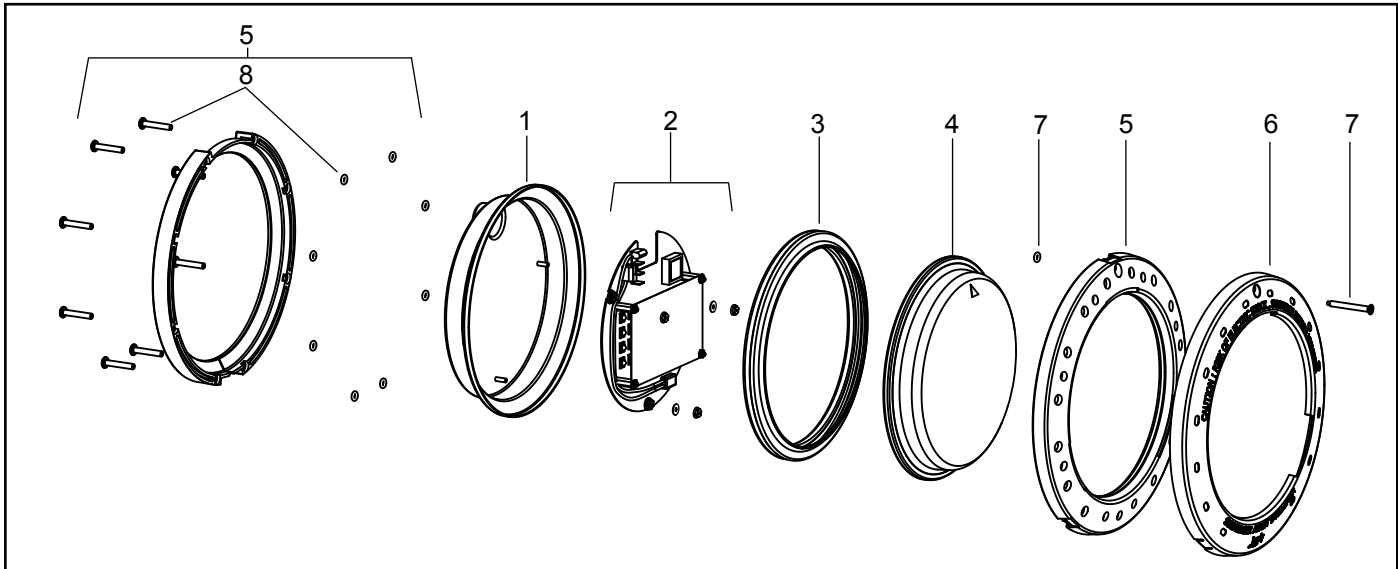


Figure 11. Jandy Pro Series Large WaterColors LED Light Exploded View

DWG #	Part #	Description	Field Replaceable
1	N/A	WaterColors Light Housing	<i>NO - Purchase New Light</i>
2	R0474000	Light Engine PCB, 12V Large LED Light w/ Light Shaping Diverger	YES
2	R0474100	Light Engine PCB, 120V Large LED Light W/ Light Shaping Diverger	YES
3	R0451101	Silicone Gasket	YES
4	R0450601	Glass Lens	YES
5	R0450701	Clamp Assembly	YES
6	R0450801	Face Ring, Stainless Steel (SS)	YES
6	R0450802	Face Ring, Plastic, Whitet	YES
6	R0450803	Face Ring, Plastic, Black	YES
6	R0450804	Face Ring, Plastic, Gray	YES
6	R0450805	Face Ring, Plastic Set	YES
7	R0450901	Pilot Screw, with Retainer	YES
8	R0451001	Clamp Screws (8 Screws and 8 Retainers)	YES

9.2 Jandy Pro Series Small WaterColors LED Light

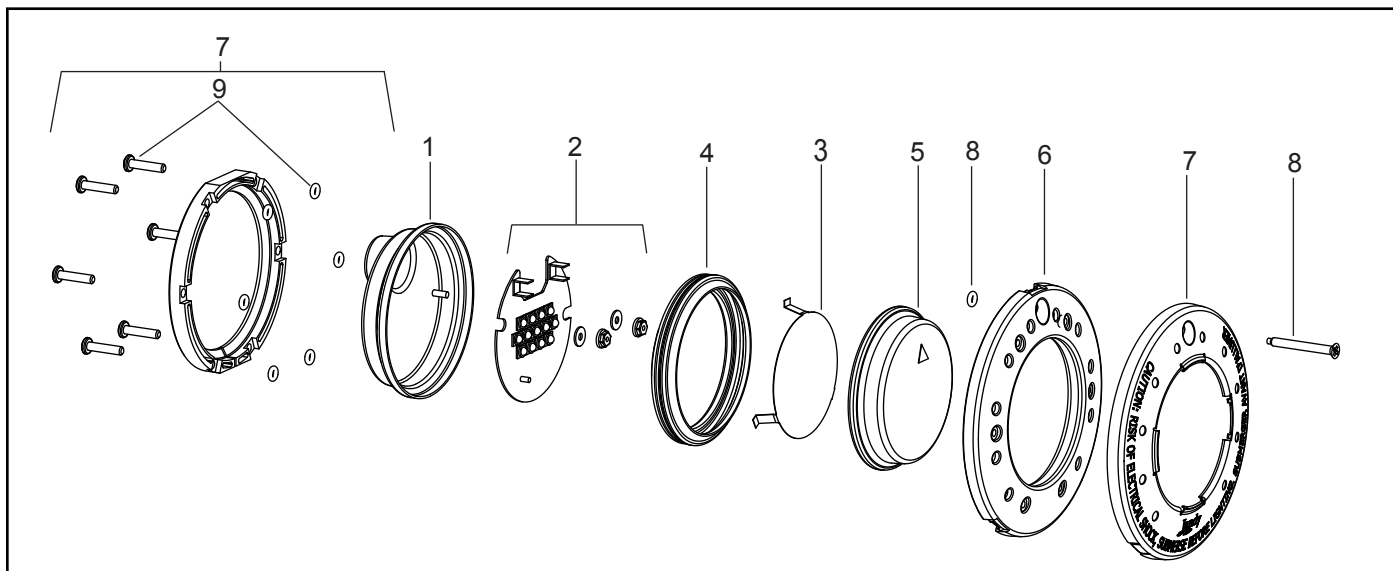


Figure 12. Jandy Pro Series Small WaterColors LED Light Exploded View

DWG #	Part #	Description	Field Replaceable
1	N/A	WaterColors Light Housing	NO - Purchase New Light
2	R0473900	Light Engine, 12V/120V Small LED Light	YES
3	R0474200	Diverger, Light Shaping, Small LED Light	YES
4	R0400501	Silicone Gasket	YES
5	R0400601	Glass Lens	YES
6	R0451201	Clamp Assembly	YES
7	R0451301	Face Ring, Stainless Steel (SS)	YES
7	R0451302	Face Ring, Plastic, White	YES
7	R0451303	Face Ring, Plastic, Black	YES
7	R0451304	Face Ring, Plastic, Gray	YES
7	R0451305	Face Ring, Plastic Set	YES
8	R0450901	Pilot Screw, with Retainer	YES
9	R0451401	Clamp Screws (6 Screws and 6 Retainers)	YES

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