



CLEAR O₃

FOR OZONE PURE WATER

WATER PURIFYING SYSTEM



Powered by:
Paramount
Pool Life. Simplified.

004-027-8780-00 REV011912 US Patent Pending



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Paramount@1Paramount.com • www.1Paramount.com

SAFETY INSTRUCTIONS



“IN ACCORDANCE WITH CANADIAN STANDARDS ASSOCIATION’S
STANDARD NO. CAN/CSA - C22.2 NO. 218.1 - M89”,
OZONE GENERATOR
WITH RESPECT TO RISKS OF ELECTRIC SHOCK
FIRE AND MECHANICAL INJURY ONLY
34YZ

IMPORTANT SAFETY INSTRUCTIONS: READ COMPLETELY BEFORE PROCEEDING WITH INSTALLATION. SAVE THESE INSTRUCTIONS

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



CAUTION: READ AND FOLLOW ALL INSTRUCTIONS

WARNING:

- Follow all applicable electrical codes.
- A qualified licensed electrician should perform electrical hookup.
- Turn off power at main source before making any electrical connections or servicing the unit.
- Use only liquid-tight flexible nonmetallic conduit for electrical connections.
- A terminal marked G is located inside the supply terminal compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electrical supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.
- At least one lug marked “BONDING LUG” provided on the external surface of the unit. To reduce the risk of electric

SAFETY INSTRUCTIONS (CONT.)

shock, connect the local common bond grid in the area of the pool or spa to this terminal with an insulated or bare copper conductor not smaller than 6 AWG.



WARNING:

- ALWAYS wear safety glasses when using power equipment during the installation process.
- Install at least 5 ft from pool or spa water using nonmetallic plumbing. Mount ozone generator near pool equipment at least one (1) foot above maximum water level to prevent water from contacting electrical equipment. Install in accordance with the installation instructions.
- Short-term inhalation of high concentrations of ozone and long-term inhalation of low concentrations of ozone gas can cause serious harmful physiological affects. Do not inhale gas produced by this unit. If installed in an enclosed space make sure to account for adequate ventilation.
- UV LIGHT PRODUCED BY THIS UNIT IS HARMFUL TO THE EYES AND MAY CAUSE BLINDNESS. DO NOT LOOK DIRECTLY AT A LIT BULB!



NOTICE TO OWNER:

- Save these instructions and deliver to pool owner when installation is complete.

For technical assistance call 1.800.621.5886 or contact your regional representative

WHAT IS OZONE AND HOW DOES IT WORK

- Ozone is created from oxygen using a simple yet powerful system of UV bulbs, to be used as a pure shock (oxidizer) for the swimming pool.
- Ozone is injected into the pool water using the Clear O3® suction injection system, where the ozone enriched air is mixed with the water going into the pool circulation pump. This creates a dynamic environment that best mixes the air and water at high pressure as it is sent into the filter
- Once in the water, the ozone breaks down materials such as ammonia, oils, and other non-living waste that are detrimental to chlorine's function in the pool. This occurs between the pump and filter and also in the filter. Chlorine is in a group of the least stable elements and must be combined with another material to become stable. In swimming pools, this process creates the formation of combined chlorines, like chloramines, which do not sanitize and have adverse effects on human skin. Use of ozone allows the chlorine to work primarily as a water disinfectant.
- Pool water treatment can be broken down into three primary categories:
 1. **Disinfectant**- The killing of living organisms (virus, bacteria, algae). This consumes only 10-20% of the chlorine normally placed in a pool.
 2. **Oxidation**- The removal of non-living waste from pool water. This consumes up to 70% of the chlorine placed in standard treated pools
 3. **Residual**- The remaining, measurable sanitizer is left in the pool as a safety net to maintain the water quality until it is brought through the pool equipment again. Usually less than 10% of the chlorine originally placed in a pool is left over as residual.

Installing a Clear O3® Water Purification system will reduce the amount of chlorine needed to maintain a pool by up to 70%.

The benefits of using ozone include:

- Fewer chemicals to maintain the pool.
- Less work to maintain the pool water.
- More enjoyable water, being treated similar to bottled water.
- Longer filter cycles, and increased life for the salt chlorinator cells (if present).

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SETTING AIR FLOW

1. Clean filter and pump basket before setting airflow.
2. Turn the knob on the needle valve/flow meter clockwise to close valve completely.
3. Turn the power on to the pump
4. Turn the knob on the needle valve/flow meter counter clockwise until the ball reads in the middle of the two lines on the flow meter. **(Fig. 22)**

Fig. 22



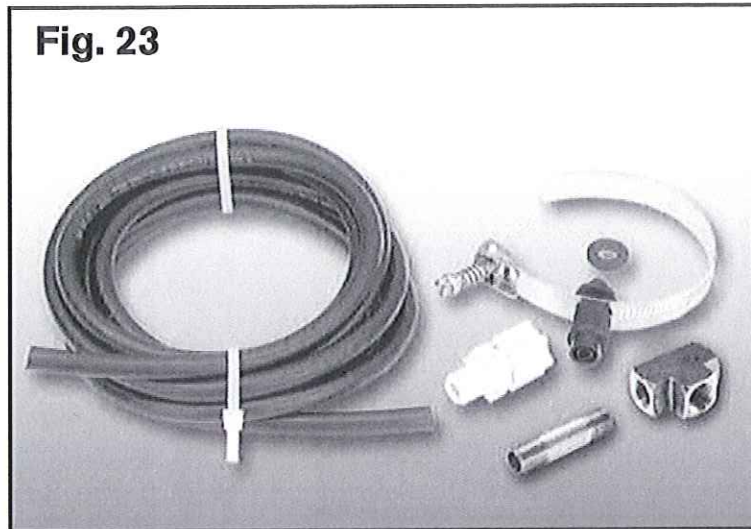
IMPORTANT NOTES REGARDING THE FLOW METER:

1. IF THE PUMP THAT THE CLEAR O3[®] UNIT IS INSTALLED ON IS A PUMP RUNNING A PARAMOUNT IN-FLOOR SYSTEM, lock the water valve on pause when the valve is switching ports and therefore at it's maximum flow (the pause control is located on top of the Paramount water valve). Set the flow meter so the ball is on the upper line of the Ideal range.
2. WHEN USING MULTIPLE SPEED PUMPS, SET THE FLOW METER WITH THE PUMP RUNNING ON THE HIGHEST SPEED THAT WILL BE USED.
3. The Clear O3 flow meter is very sensitive and the red ball may drop down below the 'ideal' marker after it has been set. If this happens on your unit, please be aware that this is normal. The flow meter will still deliver the proper amount of ozone as long as the blue light is on. You do not need to reset the flow meter until after you clean your filter.
Sometimes the internal air bleed on the filter is not sufficient to handle the extra air in the system with an ozonator installed. An External Safety Air Bleed

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EXTERNAL SAFETY AIR BLEED KIT INSTRUCTIONS (OPTIONAL)

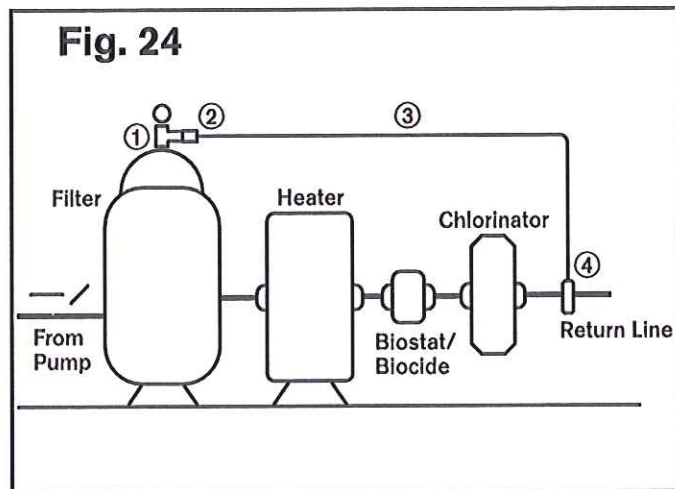
Kit (006-402-3872-00) **(Fig. 23)** for in-ground swimming pools is available to remove excess air from the filter and send it downstream (up to 15') past all equipment. After installing always test per instructions that air is vented from the filter when the pump is running. You must install an external air bleed if the filter is old, does not have an internal air bleed, there is a solar system on the pool or there is a robotic pressure side cleaner.



External Safety Air Bleed Kit

Mounting Instructions

1. Turn the power off to the pump.
2. Remove the pressure gauge from the filter.
3. Install the nipple into one end of the brass tee.
4. Install the pressure gauge by threading into the other end of the brass tee supplied.
5. Install the tubing compression fitting by threading into the side of the brass tee.
6. Install the tee assembly by threading into the hole where you



Installation of External Safety Air Bleed Kit

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EXTERNAL SAFETY AIR BLEED KIT INSTRUCTIONS (OPTIONAL) (CONT.)

- removed the pressure gauge **(Fig. 24 Pg. 17)**.
7. Insert one end of the tubing into the compression fitting **(Fig. 24 Pg. 17)**.
 8. Turn the power on to the pump and check that air is coming from the other end of the tubing.
 9. Turn the power off to the pump.
 10. Pick a spot on the return pipe downstream of all other devices (heater, chlorinator, pressure cleaner, etc.)
 11. Drill a 7/16" hole through the return pipe at the location selected.
 12. Install the saddle clamp with the fitting over the hole. Make sure the gasket is in place between the fitting and the pipe. **(Fig. 24 Pg. 17)**
 13. Lay the tubing along the return pipe to the saddle clamp fitting and cut off excess length.
 14. Connect the end of the tubing to the compression fitting on the saddle clamp **(Fig. 24 Pg. 17)**. The tubing can be secured to the pipe using cable ties (not included).

NOTE:

BULB REPLACEMENT

Ozone production from direct UV light will decline over time. UV bulbs continue to illuminate after they stop producing an effective level of ozone to clean your pool water. To make sure your pool continues to receive all the benefits of ozone, Paramount recommends that you replace your bulb every three (3) years.

WARNING:

- Turn off power at main source before making any electrical connections or servicing the unit.
- UV light produced by this unit is harmful to the eyes and may cause blindness! Do not look directly at a lit bulb!



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BULB REPLACEMENT (CONT.)

1. Turn the power off to filtration system pump at circuit breaker.
2. Remove three screws in left end side cap labeled "electrical connections". **(Fig. 25)**
3. Remove side cap. **(Fig. 26)**
4. Grasp light bulb plug and pull light out about one inch. **(Fig. 27)**

Fig. 25



Fig. 26

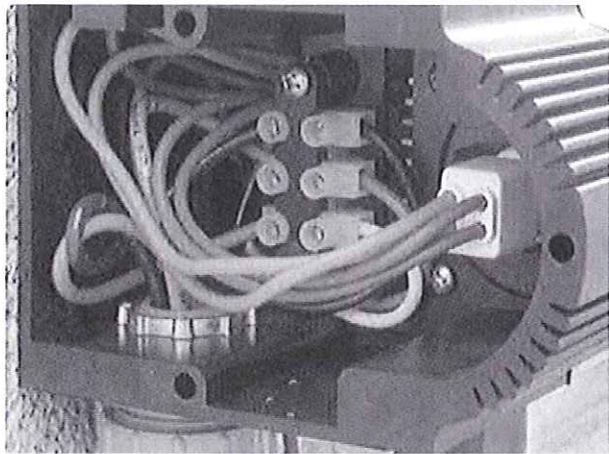
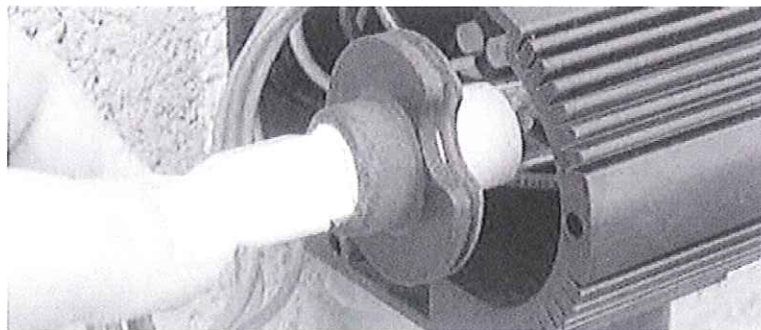


Fig. 27

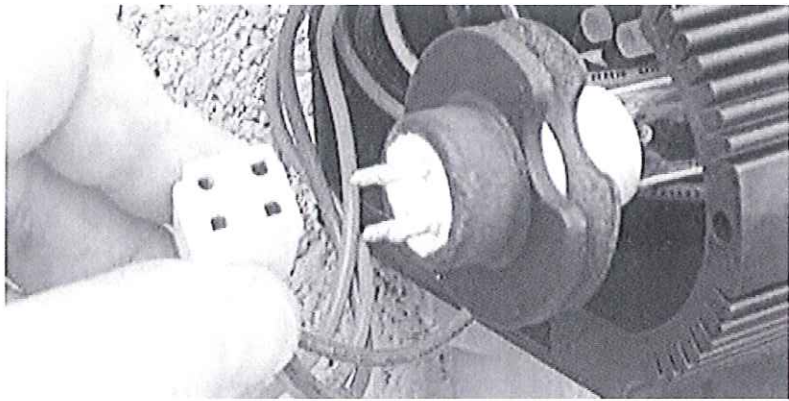


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BULB REPLACEMENT (CONT.)

5. Remove plug from light bulb. **(Fig. 28)**

Fig. 28



6. Pull light bulb free from Clear O3[®] unit. **(Fig. 29)**

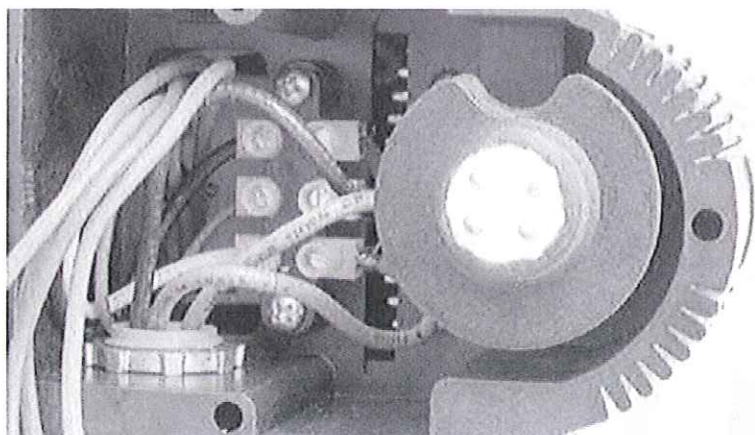
Fig. 29



7. Make sure gasket is in place on replacement light bulb.

8. Align with key and slide into hole until bulb seats firmly and completely into unit. **(Fig. 30)**

Fig. 30



9. Press plug onto light bulb.

10. Replace side cap and three screws.

11. Turn on power to filtration system pump.

12. Check glow tube on the left front of the Clear O3[®]. A light blue light indicates lamp is lit and the unit should be producing ozone.

1. Turn off the power

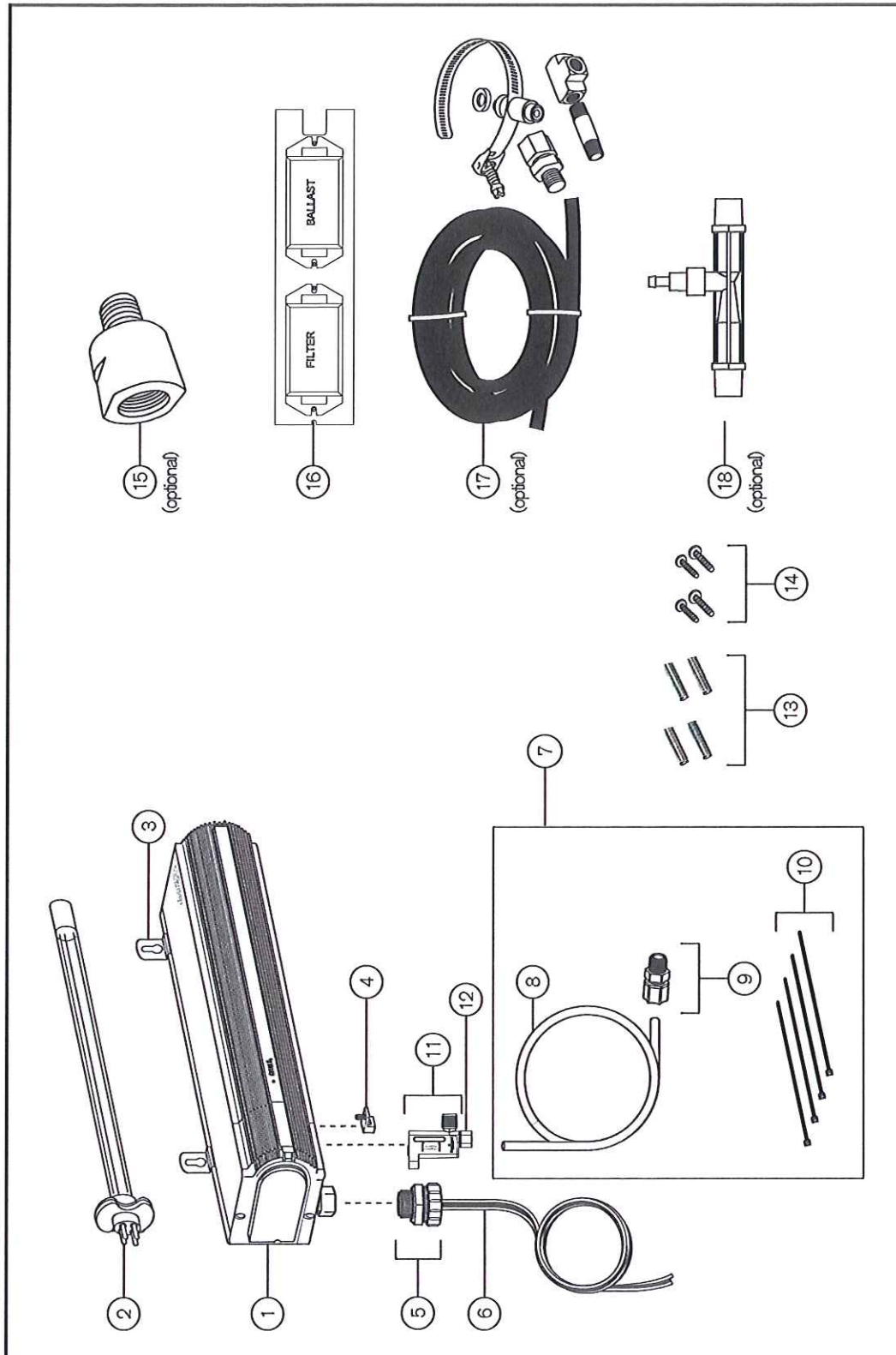
For technical assistance call 1.800.621.5886 or contact your regional representative

TROUBLESHOOTING & SERVICE

ISSUE	SOLUTION
1. No air bubbles entering system or pool	Clean filter then adjust airflow needle valve.
2. Filter empties and pump loses prime	Replace check valve fitting at strainer pot.
3. Light bulb does not light	Check power to Clear O3 [®] , then replace bulb.

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CLEAR 03® WATER PURIFYING SYSTEM



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CLEAR O3® WATER PURIFYING SYSTEM

Item	Part Number	Description
SINGLE UNIT		
1.	004-402-3880-00	Clear O3® Single Assembly
2.	005-402-3834-00	Lamp
3.	005-402-3820-00	Mounting Brackets (4Pk)
4.	**	Ground Lug
5.	005-402-1384-00	Conduit Compression Fitting 1/2"
6.	**	Wiring Harness 3-Wire 12 Gauge X 6ft
7.	005-402-3361-00	Tubing with Check Valve Pump Mount, & Wire Ties
8.	**	Tubing 3/8" OD X 1/4" ID X 10ft
9.	**	Pump Mount Check Valve 1/4" NPT x barb
10.	**	Wire Ties (4 pk)
11.	005-402-3247-00	Flow Meter Kit
12.	**	Compression Nut 1/4" X 3/8"
13.	**	Anchor #10
14.	**	Screw: 10 x 3/4 PHIL PH
15.	005-402-1050-00	Clear O3® Adapter Pot Plug (optional)
16.	005-402-3824-00	Ballast & Filter
AIR BLEED KIT		
17.	006-402-3872-00	Clear O3® Air Bleed Kit (optional)
18.	005-252-3250-00	Venturi Injector Kit (optional)

* Not Shown

** Not available to purchase individually

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WARRANTY INFORMATION

Paramount Pool & Spa Systems (PP&SS)
295 E. Corporate Place, Suite 100
Chandler, AZ 85225
1.800.621.5886
www.1Paramount.com



Paramount

Pool Life. Simplified.

U.S. Patents: 3,521,304 • 3,675,252 • 4,188,673 • 4,212,088
4,391,005 • 4,592,379 • 4,939,797 • 5,135,579 • 5,251,343
5,265,631 • 6,301,723 • 6,311,728 • 6,314,999 • 6,360,767
6,367,098 • 6,393,629 • 6,601,244 • 6,810,537 • 6,848,124
6,895,608 • 6,899,285 • 7,055,189 • 7,089,606 • 7,089,607
D.531.888 D.532.684 • 7,178,179 • 7,213,275 • 7,481,377
7,578,010 • 7,708,212 • 7,819,338 • 7,837,951
other U.S. and international patents pending

In compliance with the Magnuson-Moss Warranty-Federal Trade Commission Act (Public Law 93-0637, Paramount Pool & Spa Systems (PP&SS) provides the following limited warranties.

CONDITIONS

- This limited warranty shall be subject to the original owner complying with the following conditions:
1. The swimming pool shall be kept full of water at all times except for purposes for repair or maintenance not to exceed five (5) days.
 2. The PP&SS system shall be operated by the original owner with reasonable care and necessary maintenance.
 3. Registration card must be mailed to PP&SS within thirty (30) days of pool completion.

PP&SS NOZZLE AND BODY (EXCLUDING POOL VALET RETRO) ASSEMBLIES LIMITED LIFETIME MANUFACTURERS WARRANTY

PP&SS warrants to the original owner, materials and equipment to be free of defects for as long as original owner owns pool, determined under this warranty to be for the "Lifetime" ownership by original owner from date swimming pool is plastered or optional interior surface finish applied. The materials and equipment covered under the "Lifetime" warranty are the PP&SS Nozzle and Body Assembly, (PVC plumbing installed, labor, material and all other work performed by contractors is not covered under PP&SS Warranty.)

PP&SS RETROJETS (CARETAKER, CARETAKER 99, GAMMA 3, NET N' CLEAN, POOL VALET RETRO, QUICKCLEAN1, QUICKCLEAN 2) LIMITED MANUFACTURERS 1-YEAR WARRANTY

PP&SS warrants to original owner, materials, and equipment to be free of defects for a period of one (1) year from date of purchase. The materials, parts, and/or related component parts supplied or distributed by PP&SS are covered under this one (1) year limited warranty. (PVC plumbing installed, labor, material and all other work performed by contractors is not covered under PP&SS Warranty.)

PP&SS MDX® ANTI-ENTRAPMENT DEBRIS DRAIN AND MDX-R3 VGB COMPLETE DEBRIS DRAIN LIMITED MANUFACTURERS 1-YEAR WARRANTY

PP&SS warrants to original owner, materials, and equipment to be free of defects for a period of one (1) year from date of swimming pool start-up. The materials, parts and/or related component parts supplied or distributed by PP&SS are covered under this one (1) year limited warranty. (PVC plumbing installed, labor, material and all other work performed by contractors is not covered under PP&SS Warranty.)

PP&SS STEP-CLEAN ASSEMBLIES LIMITED MANUFACTURERS 2-YEAR WARRANTY

PP&SS warrants to original owner, materials, and equipment to be free of defects for a period of two (2) years from date of purchase. The bodies, nozzles, water valve and/or related component parts supplied or distributed by PP&SS are covered under this two (2) years limited warranty. (PVC plumbing installed, labor, material and all other work performed by contractors is not covered under PP&SS Warranty.)

PP&SS DISTRIBUTION WATER VALVE LIMITED MANUFACTURERS 3-YEAR WARRANTY

Paramount water valve module and housing are warranted for a period of 3 years to be free of manufacturing defects including wear and tear on product from date of pool start-up. This warranty applies to the original pool owner only. Replacement parts thereafter are warranted for a period of 1 year.

PP&SS DEBRIS CONTAINMENT CANISTER LIMITED MANUFACTURERS 3-YEAR WARRANTY

PP&SS warrants to original owner, materials, and equipment to be free of defects for a period of three (3) years from date of swimming pool start-up. The materials and equipment covered under this three (3) year warranty is the PP&SS Debris Containment Canister Housing. (PVC plumbing installed, labor, material and all other work performed by contractors is not covered under PP&SS Warranty.) The PP&SS Canister Debris Containment Basket, Internal Canister Lid, and Top Deck, Lid are covered for a period of one (1) year under this warranty.

OTHER RELATED SYSTEM PARTS, ANCILLARY PARTS AND REPLACEMENT PARTS LIMITED MANUFACTURERS 1-YEAR WARRANTY

PP&SS warrants to original owner, materials, and equipment to be free of defects for a period of one (1) year from date of swimming pool start-up. The materials, parts and/or related component parts supplied or distributed by PP&SS are covered under this one (1) year limited warranty. (PVC plumbing installed, labor, material and all other work performed by contractors is not covered under PP&SS Warranty.) Replacement parts are warranted for a period of 1 year from the date of purchase. PP&SS warrants to original owner a one (1) year limited warranty that the PP&SS related component parts to be free of defects from the time of installation.

REPLACEMENT CONDITIONS

This warranty is the responsibility of the owner to remove the PP&SS Nozzle & Body Assembly, Distributor Water Valve Top/Bottom Housing, Debris Containment Canister or other related system components described with this warranty, contact PP&SS for an RMA number, and return it to PP&SS. Ship part in question freight pre-paid, and upon confirmation of defect, PP&SS will repair or replace the PP&SS item warranted at no charge to the original owner. The repaired or replaced PP&SS item will be returned to the original owner with freight C.O.D. Labor to reinstall the repaired or replaced item is the sole responsibility of the owner.

LIMITATIONS

No warranty extends to any part of the PP&SS parts or components which is caused by any of the following conditions or events:

1. Defects or failures caused by abuse, lack of responsible care, lack of necessary maintenance, improper operation, vandalism, acts of God.
2. Damages or failures caused by abuse, lack of responsible care, lack of necessary maintenance, improper operation, vandalism, acts of God.
3. PP&SS expressly denies any responsibility or liability for incidental or consequential damages arising out of, or as a result of, use or ownership of your PP&SS parts or as a result of use or ownership of your PP&SS parts or components, or other related products covered under this limited warranty.
4. Any defects caused by acts of God, such as storms, earthquakes, ground movement, or freezing, etc., that are beyond the normal conditions.
5. Installation of the PP&SS System by non-authorized installer may render this warranty null and void.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Implied warranties are limited in duration to the duration of the written limited warranty herein. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that may vary from state to state.

004-027-7987-00 PAR0213 111910

WARRANTY REGISTRATION



A one (1) year warranty on Clear O3® parts shall be subject to the original owner, as stated in the "Other Related System Parts and Replacement Parts Limited Manufacturer's 1-Year Warranty."

POOL OWNER INFORMATION

Name: _____

Address: _____

City: _____

State: _____

Zip Code: _____

Telephone: _____

Fax: _____

E-mail: _____

Pool Start-Up Date Purchased: _____

Type of Pool (check one): Concrete Vinyl

Fiberglass

Type of Pool System (check one): PCC 2000 PV³

Pool Valet Cyclean

Vanquish Vantage

Ecopool

POOL BUILDER INFORMATION

Name: _____

Address: **Cody Pools**

City: **5117 S. IH-35**

State: **Georgetown, TX 78626**

Zip Code: _____

When complete, remove this page, fold, stamp and return to Paramount Pool & Spa Systems.

Postal Service: 295 East Corporate Place, Suite 100 • Chandler, AZ 85225

Fax: 480.753.3397

E-mail: Paramount@1Paramount.com

Web: www.1Paramount.com/products/warranty.php

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Paramount Pool & Spa Systems
295 East Corporate Place, Suite 100
Chandler, AZ 85225

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