



WATER WONDERS®

www.bluworlIdusa.com

Serrano Floor 90" Instruction Manual

Welcome to the Bluworld/Water Wonders family. A few simple steps will ensure that your Serrano Water Feature remains a soothing, enjoyable fountain that brings the sight and soothing sounds of falling water to you.

Tools Required:

Phillips Screwdriver

Small Parts List:

- A. Pump/filter/valve assembly
- B. 2 x Light Shields
- C. 2 x Sets of 3 Color Lenses
- D. 2 x Decorative Rings
- E. 1 x Pair of Lights
- F. 1 x Upper Splash Guard (may already be welded to the top of the panel on some models)
- G. 1 x Lower Splash Guard (2 for center mount)
- H. 4 x EVA Vibration/Level Pads
- I. 1 x Wire Mesh



A.



B.



C.



D.



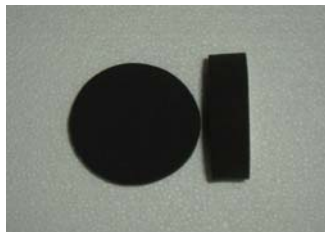
E.



F.



G.



H.

Assembly:

1. Remove the Serrano panel and base from their respective shipping cartons.
2. Remove all small parts from packaging.
3. Lean the glass panel upright against a wall until you get to step 6.
4. Take the pump/filter/valve assembly (A) and attach it to the threaded opening on the pump by screwing it in. See Fig 4.A & 4.B.



Fig. 4.A



Fig. 4.B

5. Be sure to place some cardboard under the base to prevent scratching. Place base upside down on the cardboard and install 4x EVA Vibration/Level Pads (H) pads on the 4 corners of the bottom of the base. Turn the Base right-side up. Place the assembled Pump/Filter/Valve assembly (A) into the reservoir with the valve next to the side that has the hole cut out for the cord. Pull the wire through the hole and leave around 12" of cord slack in the base. See Fig 5.A - 5.C.



Fig. 5.A



Fig. 5.B



Fig. 5.C

6. Take the glass panel from step three. With two people, carefully slide the panel into the center of the base as shown in Fig. 6.A. It is important to place the panel in the reservoir so the side with the plumbing is coming out of the bottom. Note: The side that has the peel off sticker "Front" is the side that the water flows down & should be facing the front.



Fig. 6.A

Fig. 6.A

7. Once the panel is placed in the base, turn the wingnuts screws located inside the resevoir.

8. Line up the Pump/Filter/Valve assembly (A) to the hose coming out of the panel as shown. Simply hand-tighten the two connections together. See Fig 8.A & 8.B



Fig. 8.A



9. Locate the upper splash bar (F). See Fig 9.A Locate at the water dispersion system located directly above the water feature panel. Observing the splash bar, please note the short lip. Slide the short side of the lip on to the two grooves located on the water distribution panel. See Fig 9.B. Correctly installed upper splash bar (F). See Fig 9.C



Fig. 9.A



Fig. 9.B



Fig. 9.C

11. Locate the Lower Splash Guard (G). Carefully note the grooved tabs located on the lower portion water feature panel. Simply slide the splash guard into the grooved tab as shown in Fig 12.A - 12.C if it did not come attached to the bottom of the panel.



Fig. 11.A



Fig. 11.B

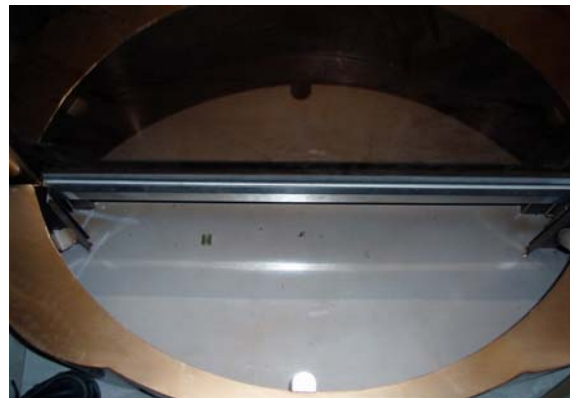


Fig. 11.C

12. Fill the reservoir with water. Make sure not to fill it beyond the plug hole. Do not plug in the waterfall and water should begin to flow. Adjust flow if necessary by turning the red handle on the pump/Filter/Valve (A) assembly as shown in Fig 9.A . Note: Too much water flow will cause splashing. In addition, the water level needs to be maintained at least 1 inch above the pump at all times. If the water level drops below the pump, damage to the pump may occur.

13. Locate decorative ring (D). See Fig 13.A

14. Observing where the panel slides into the base, slide decorative ring over panel upright support. As shown in Fig 14.A-14.D.

15. Correctly installed decorative ring. See Fig 15.A



Fig. 12.A



Fig. 13.A



Fig. 14.A



Fig. 14.B



Fig. 14.C



Fig. 15.A

Installing the Light Accessory

Light Shield

16. Locate light and light shield (B). A Phillips screwdriver will be needed to complete assembly. See Fig 16.A & 16.B.



Fig. 16.A



Fig. 16.B

17. Locate nut and bol which can be loacted inside the Light Shield (B) plastic bag. Pull the ends with the two tabs together and insert bolt, attach nut to the bolt, and hand-tighten loosely to the light shield (B), slide over light (E), then tighten with the screwdriver. See Fig 17.A-17-F. Position lights in base until desired lighting effect is acheved. Install wire mesh (s)WARNING: DO NOT SUBMERSE LIGHT TRANSFORMER IN WATER.



Fig. 17.A



Fig. 17.B



Fig. 17.C



Fig. 17.D



Fig. 17.E



Fig. 17.F



Fig. 17.G



Fig. 17.H

18. If you are looking for a different color effect, you have been provided with two sets of three different color lenses. If you wish to install them please note the correct installation procedure. See Fig 18.A-18.C.

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Fig. 18.A



Fig. 18.B



Fig. 18.C

Pump Maintenance

See accompanying Pump manual for all pump operating, maintenance, and safety instructions.

Maintenance Guide

Throughout the world, our water sources vary greatly in terms of its mineral content. If you have hard water, this means that the mineral content is very high. In this case, you must pay extra attention to the care of your fountain as hard water can create calcium deposits which can hinder the performance of your water feature.

Below you will find a recommended maintenance checklist. By following this simple maintenance checklist, you can ensure that your new water feature will function reliably for many years. Since water sources vary in mineral content, frequency of maintenance will vary. For the first few months, it is important that you monitor your waterfall for any signs of mineral deposits and adjust your maintenance intervals accordingly. It is highly recommended that you use distilled water when filling your water feature as this can reduce maintenance intervals.

****Remember to unplug your waterfall before conducting any maintenance****

Recommended Hours of Operation: We recommend that you allow your water feature to operate 24 hours a day.

Reservoir: Clean thoroughly with a rag every six months or as needed.

Water Distribution Pipe: Should be removed, inspected, and cleaned every six months or as needed.

Waterfall Surface: It is recommended that you wash the glass once every two weeks with a glass cleaner.

Filter: To maximize the lifespan of your filter, be sure to keep the reservoir at the recommended water level. Remove and thoroughly wash the filter once every three months or as needed.

Change/Add Water: It is highly recommended that you add distilled water to the reservoir as needed. If you choose not to use distilled water, using Fountec™, a totally organic algae removing and preventative additive, in conjunction with Protec™, an all natural mineral deposit preventative additive, together will keep your waterfall running clean. For your convenience, we offer both of these products and they are readily available. Please contact our friendly service department for more details.

Pump See pump maintenance instructions.

Safety It is always recommended that all Bluworld waterfalls use a surge protector.

Troubleshooting Guide

Troubleshooting Guide

| Problem | Cause | Solution |
|--|--|---|
| Water not flowing | 1. Water level in reservoir too low | 1. Fill reservoir until water level is two inches below the edge of the basin. Make sure the pump is completely submerged underwater. |
| | 2. Your Serrano has a flow control valve. There is one between the pump and the inlet hose. It is possible that the valve is closed. | 2. Locate the water flow control valve between the pump and the inlet hose. Open water flow control valve. |
| | 3. Blockage in water distribution bar which is located above the mirrored panel. | 3. Remove distribution bar by carefully twisting the bar back and forth until it disconnects from the PVC elbow. Thoroughly clean the distribution bar and re-insert into elbow. |
| | 4. No Outlet Power | 4. Make sure outlet has power. |
| | 5. Inlet hose is disconnected from pump. | 5. Make sure that the pump is securely connected to the inlet hose. |
| | 6. Algae Creating blockage | 6. Thoroughly clean reservoir, pump and distribution bar. It is recommended that you use Fountec™ to prevent the formation of algae. For your convenience, we have Fountec readily available. Please call customer service. |
| | 7. Dirty Filter | 7. Remove re-usable filter from pump, clean and re-install. |
| | 8. Pump is clogged or malfunctioning. | 8. See pump cleaning instructions. If still not working, unplug waterfall and contact customer service. |
| Water not flowing evenly ('V'ing) down the panel | 1. Water pump is running but air is in the line. | 1. Wait until pump evacuates air from the line. If still not flowing evenly, unplug and re-plug pump a few times to assist in bleeding air out of the line. |
| | 2. Pump pressure too low. | 2. Turn flow regulator valve located between pump and inlet hose to until water flows evenly down panel. |
| | 3. Thin invisible water soluble protective film from factory | 3. With the fountain running, use a very light non-abrasive bristle brush or use your hand and gently spread water evenly across the glass panel until water flows evenly down the panel. |
| | 3. Blockage in water distribution bar. | 3. Remove distribution bar by carefully twisting the bar back and forth until it disconnects from the PVC elbow. Thoroughly clean the distribution bar and re-insert into elbow. |
| | 5. Dirty Filter | 5. Remove re-usable filter from pump, clean and re-install. |
| | 6. Pump is clogged or malfunctioning. | 6. See pump cleaning instructions. If still not working, unplug waterfall and contact customer service. |

| | | |
|--------------------------------|--|--|
| Noisy Pump | 1. Water level too low | 1. Please fill water until until water is 2 inches below the top edge of the basin. |
| | 2. Mineral deposit in pump. | 2. Clean pump and re-install into fountain. please refer to the pump maintainance section for cleaning instructions. |
| | 3. Pump not positioned properly. | 3. Make sure that rubber feet of the pump are positioned properly on the bottom of the reservoir. |
| | 4. Dirty Filter | 4. Remove re-usable filter from pump, clean and re-install. |
| | 5. Pump is clogged or mal-functioning. | 5. See pump cleaning instructions. If still noisy, unplug waterfall and contact customer service. |
| Water flow is too slow/fast | 1. Your Serrano has a flow control valve. There is one between the pump and the inlet hose. It is possible that the valve is closed. | 1. Locate the water flow control valve between the pump and the inlet hose. Open water flow control valve. |
| | 2. Blockage in water distribution bar. | 2. Remove distribution bar by carefully twisting the bar back and forth until it disconnects from the PVC elbow. Thoroughly clean the distribution bar and re-insert into elbow. |
| | 3. Dirty Filter | 3. Remove re-usable filter from pump, clean and re-install. |
| | 4. Pump is clogged or malfunctioning. | 4. See pump cleaning instructions. If still not working, unplug waterfall and contact customer service. |
| Water leaking behind the panel | 1. Distribution bar is not fully inserted into the elbow. | 1. Turn off water feature and carefully twist distribution bar back and forth while applying light pressure to ensure it is completely inserted into the elbow. |
| | 2. Distribution bar o-ring gasket mis-aligned. | 2. Turn off water feature and carefully twist distribution bar back and forth and remove distribution bar. Located on the distribution bar is a thin o-ring gasket. Make sure gasket is properly aligned and re-insert into elbow. |
| | 3. Water flow too strong. | 3. Between the water pump and the inlet hose there is a water flow valve. Turn the valve to increase the flow of water. |
| | 4. Other | 4. Unplug waterfall and contact customer service. |
| Smell | 1. Algae | 1. Thoroughly clean reservoir, pump and distribution bar. It is recommended that you use Fountec™ to prevent the formation of algae. For your convenience, we have Fountec™ readily available. Please call customer service. |
| Light Not working | 1. Bulb is faulty | 1. Replace bulb. |
| | 2. Light is not plugged in wall. | 2. Plug light into wall. |

If you have any questions regarding the set-up or maintenance of your fountain please call our customer service department at 407-427-7674.

LIMITED WARRANTY

BLUWORLD INNOVATIONS warrants this product to be free from defects in material and workmanship for 90 days from the original date of purchase by the consumer. This warranty is limited to the replacement of defective parts or components. In addition, the submersible pump is warranted by its manufacturer for a period of six (6) months against defective material and workmanship. All claims must be presented to the manufacturer along with the original purchase receipt to verify a valid warranty period. BLUWORLD INNOVATIONS will not be responsible or liable for any damage caused by negligence or misuse, goods damaged in transit, or improper set up, installation or assembly by the purchaser. Please read all instructions carefully. *Notice: Glass mirrors and plastics have prevalent characteristics such as bubbles, mirror rabs, slight discolorations, blurs, and hairline scratches. These are to be expected, as they are inherent qualities that meet or exceed federal specifications DD-G-451D*

Attention

New Warranty in effect as of August 1, 2008

Bluworld's Warranty has changed as of August 1, 2008 and supersedes all previous warranties for product purchased after August 1, 2008. If there is printed material within this shipment it is considered void and the Warranty as stated below is policy.

Bluworld product is warranted against defects that render it unfit for its reasonably intended use. This Warranty is not extended to cover use of the product for a purpose other than as intended, and if the product is used unreasonably, or for purposes other than as intended, or if it is altered, modified or repaired by a party other than Bluworld, then the Warranty shall be null and void. The Warranty is in effect for a period of six months beginning from the date of sale to the original retail purchaser and the rights under this Warranty are limited to the original retail purchaser. Bluworld will, upon written notification thereof, take commercially reasonable steps to correct such defects (see "manufacturers defects below"), at Bluworld's sole option, by suitable repair, replacement, or refund. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESS OR IMPLIED, EXCEPT FOR THE WARRANTY OF TITLE AGAINST PATENT INFRINGEMENT. Corrections of nonconformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of Bluworld to any Dealer with respect to the goods, whether based on contract, negligence, and strict tort or otherwise. Bluworld contract sales personnel, including but not limited to authorized Dealers and Resellers (collectively, "Sales Personnel"), are not authorized to make warranties about Bluworld merchandise. ORAL STATEMENTS DO NOT CONSTITUTE WARRANTIES. Oral statements made by Bluworld employees or other Sales Personnel shall not be relied upon by a Dealer and shall not become part of any contract for sale. The entire sales contract between a Dealer and Bluworld will be set forth in the invoice and/or accompanying or reference documents provided by Bluworld to the Dealer or Sales Personnel. No other warranties are given beyond those set forth in those documents. Please be aware that you may have valuable rights under the state law in which you reside. Some of the provisions of this Warranty may be prohibited by your state law in which case your state law will govern and control. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. 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 which vary from state to state.

Our products are warranted for a period of six months against defects in finish, pumps and other product performance issues. Light bulbs are not warranted. Our experience has shown that in practically 100% of incidents that any defect is apparent within a week of installation and use. Appearance defects should be noticed upon unpacking the fountain. We have found that finishes have 'failed' due to poor maintenance, local water conditions with minerals affecting the finish, attempts to clean with harsh chemicals or abrasive pads being used. Performance of water flow, spitting, and other 'leaks', are usually caused by debris getting into the fountain, buildup of minerals, algae from poor water or lack of maintenance. Pumps can also fail due to water levels not being maintained in the reservoir and this is not covered by the warranty.

Manufacturers Defect defined - A distinct and obvious flaw in the manufacturing of the product that inhibits the product's ability to function properly or a distinct and obvious flaw in the workmanship of the product that affects its physical appearance. Bluworld water features are manufactured under generally accepted manufacturing techniques as recognized by the International Organization of Standardization. Our products are hand made and hand finished thus minor scratches in materials within accepted ranges are not considered defects.

Slate- Many of our products contain natural slate. Slate can vary to a large degree and that individuality is what is considered to be unique and inherent to the beauty of the natural product as no two are exactly alike. Photos in our marketing materials are representative of our slate products but should not be relied on to duplicate the photo. We use natural mined slate in our products. Personal taste in the appearance of slate is not considered a reason for a return.

Mirrors-We use tempered mirror in our water features for safety reasons and the process of tempering the mirror may cause the mirrors not to reflect images in the same manner of a non-tempered mirror which is designed to reflect images in their true form. When water is flowing over our tempered mirror surfaces, these slight differences are not noticeable and this is not considered a reason for a return.

Copper- Since we have numerous products manufactured with natural pure copper it is important to note that we do protect the copper with a clear heat-baked on powder coat material. This material should last for a minimum of one year but water conditions may affect the length of protection it will afford to the copper. Copper oxidizes differently than other metals and personal tastes differ as to an individual's perception of it. It may oxidize as a green oxidation or rose colored blush. You can minimize this by wiping down the oxidation and then applying wax or Pledge™ to that area. This condition is not a reason for a return or warranty claim.