

SALVIN

# WaterRise

(Antigravity Waterfall)

*Installation/Instruction*

*Manual*

*By SALVIN*

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# Unpacking

Unpack items and place on table. Most of the WaterRise is preassembled so not much assembly is required.

Inspect for any noticeable damages. If any, call Salvin immediately (845-340-0489).

## Parts included

- |  |                       |
|--|-----------------------|
| 1 - C-Clamp                              | 2 - Probelites        |
| 1 - Timing Head                          | 2 - 1/8" Timing Cable |
| 2 - Feed Line @20 ft.                    | 1 - Flow Valve        |
| 1 - Filter w/ filter Cartridge           | 1 - Pump              |
| 1 - Spare Filter Cartridge               |                       |
| 1 -Quick Connect in-line1/2" Hose Joiner |                       |



## Parts not included

Catch Basin    Electric

Water (**Distilled Water preferred**)

# Preparation

Arrange parts so you will have easy access during installation. Plan your placement and installation. Have electric and control in place prior to installation.

WaterRise is supplied with two sections of 3/8" hose. Determine the distance from pump to the filter and from filter to the head unit, cut hose. You will also need to cut one small piece (6"-12") from any extra piece of hose to insert the flow valve into the system as in figure 1.

Have 3-4 gallons of water (distilled water preferred) on hand to fill the catch basin.

## Ideas

The WaterRise is ideal as a;

- 1 - Conversation Piece
- 2 - Mood Setter
- 3 - Advertising Device
- 4 - Room Highlight

**Don't be afraid to call us to  
discuss install tips and  
placement ideas. 845-340-0489**

# Ideas (continued)

When back-lighting be sure to diffuse the Probelites, Don't blind your clients with the Probelites

Arrange lights so no one will be blocking the output from the Probelites to the water droplets.

Arrange Probelites so water droplets are evenly illuminated.

Droplets are best viewed when placed in front of a dark surface and lit from the sides.

When placing Probelites close to water droplets, use a defusion material such as;

**Rosco diffusion 102, 103 or 111**

**Salviflex Serpentine Clear**

These products widen the spread of light from the Probelites in a shorter distance and cover more of the water drop.

#1 thing to remember is that the **WaterRise is a light sensitive effect** and must be placed in a low light environment to achieve the most dramatic effect. With the addition of Salvin's Probelites you can achieve extra high effects as well a 360 degree viewing area. See figures 3-5 for placement ideas.

# Installation

This procedure is assuming you have a catch basin in place!  
FYI...One should never ASS-U-ME!

## Placement

The WaterRise is supplied with a theatrical style c-clamp that will easily attach to any pipe 1" to 2" OD. After attaching c-clamp to WaterRise head (fig.1) you are now ready to mount the head into a position. (fig.2-5)

Mounting location should be a stable and vibration free location to achieve the best effect. Mounting close to sub-woofers, slamming doors and an atomic blast will cause unwanted vibrations.

Once WaterRise is loosely attached and somewhat level, it is time to visually level the head using the bubble level on the top of the head.

1 - Adjust head as close to level as possible using the bubble level mounted on top of head.

2 - Secure the c-clamp and fine tune the balance with the leveling screws located on top of the head. This should put that little air bubble directly in the middle of the bubble eye.

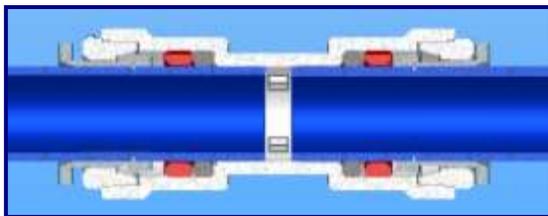
3 - Now we are ready to apply a little water...**the key word is little!**

4 - Place pump in the catch basin and insert feed hose into quick disconnect on top of pump.

5 - Mount filter and bracket in a location where you will be able to change the filter cartridge when necessary and insert feed line to the quick connect on input side of filter cartridge.

6 - Attach flow valve to the output side of the filter in the same manner and then continue to WaterRise head. Leave a small loop of feeder hose near head so there is not too much strain at the head fitting....if possible.

7 - Double check that all hoses are inserted properly into quick-disconnects. (see fig 1).



((fig. 1)



# Installation

## Fine tuning water flow ( The Most Critical Step )

If your system is similar to the figure 3 drawing you are ready to add water. Water level should be by 4-6 inches above pump. Using distilled water will add longevity to the effect.

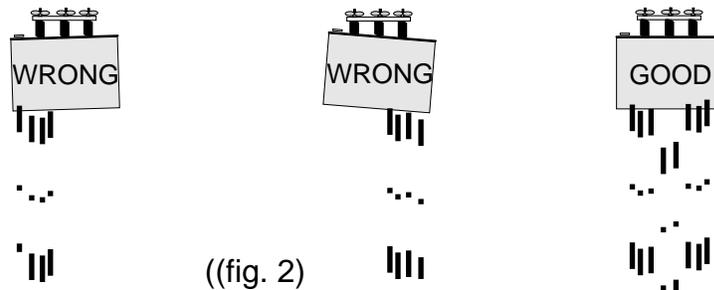
**These next few steps are the key to getting the proper effect!**

**Step 1-** Turn the flow valve to the off position. (note the on/off arrows on flow valve handle).

**Step 2-** Turn pump on.

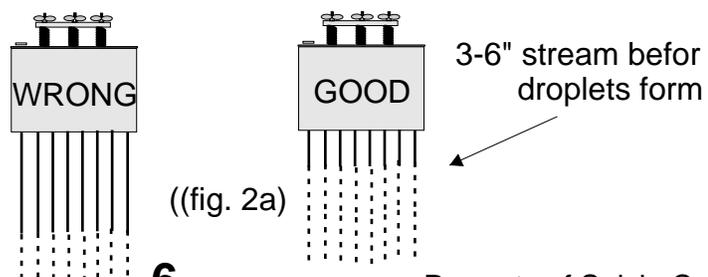
**Step 3- SLOWLY** turn on flow valve, first in 1/8" increments (don't look for instant water to flow from the head. The water has a long way to go, with a filter and flow valve in the path it will take a little time). You may even see the progress in the plastic water lines). **Note adjustment on this valve is very little, you should not need much more than a 1/4 turn on from the off position to be adjusted for enough water flow!**

**Step 4-** By this time water should be trickling from the small holes, (eight total) in the head. **At this point look for leaks! Note** the flow rate...if water seems to be flowing more to one side you will need to raise or lower the appropriate side of the head. Adjusting is a balancing act. Do not over tighten springs, there should always be a little spring in the springs!

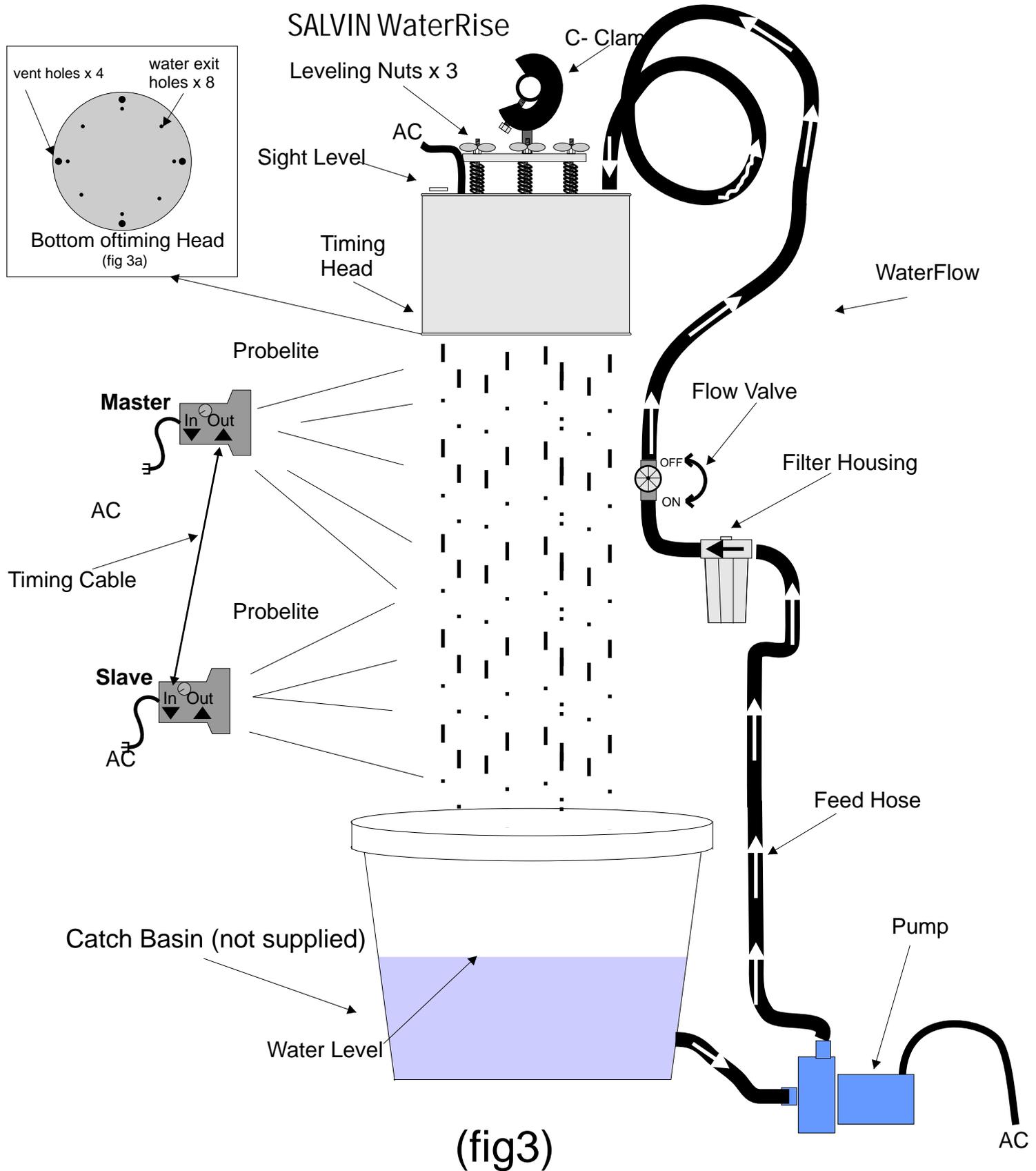


Basically, you are trying to distribute the same amount of water to all the eight holes equally. Once you level head you may need to add a little more water by slightly opening the flow valve a little more. **The change will not be immediate. Flow changes should be slight.** Too much flow will cause water to flow from the four breather holes located on the bottom of the head.

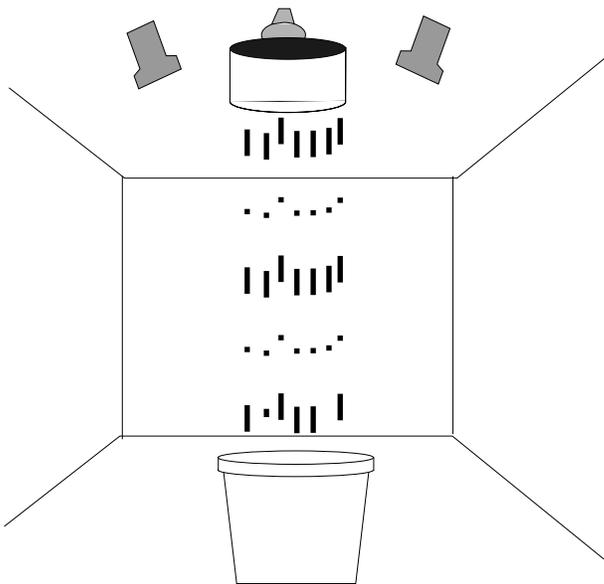
When you have the same amount of water flowing from all holes you are almost there. **Note** the streams from the eight exit holes the distance until they break into droplets. It should be 3-4 inches in length!



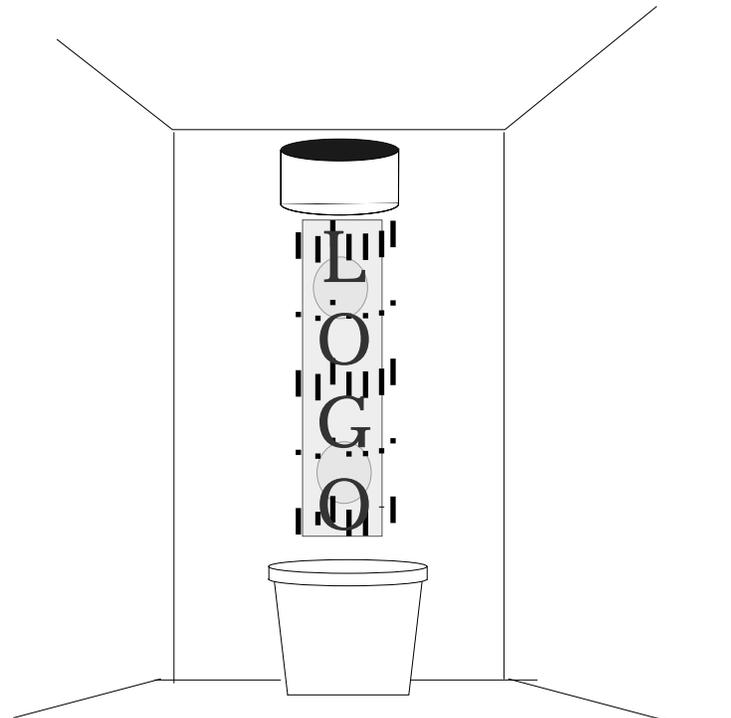
# Typical Hook up



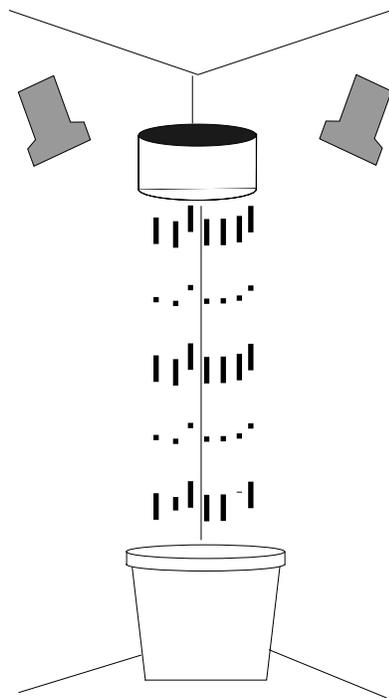
# Probelite Positions Ideas



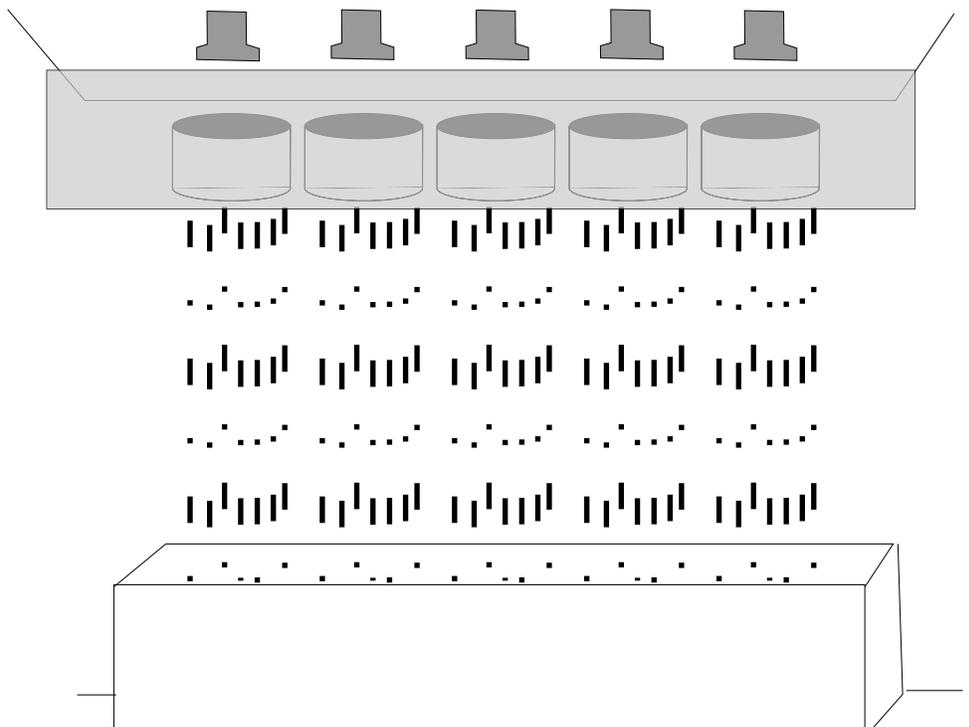
Free standing (middle of room)  
(fig 5)



Against wall with Probelites built into wall  
behind a logo cutout. (fig 6)



Corner w/probelites exposed  
(Fig. 7)



Multiple heads located behind a soffit can work in any  
of the previous descriptions  
(fig 8)

# Setting the Proprobe lites

By Now you should know where you want to place the Probelites. This section will deal with hook-up and adjustments.

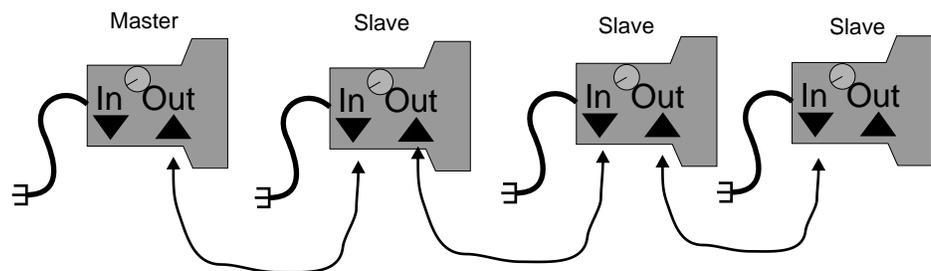
The number of probelites ordered will determine the amount of linking 1/8" cables supplied with the system. Two probelites get one link cable, three probelites get two and so on and so on!

Each Probe lite has two 1/8" jacks on the side. Each has a arrow bellow it facing one up▲ and the other one down▼ . Down▼ is the input and will make it the **slave** in the system. The up arrow▲ is the sending unit making it the **master**. The control knob on the master will now control all other probelites inserted after it.

## Adjusting ProbeLights

Once Probelites are placed turn on the water and Probelites and room lights down.)See figuar 6)

Using the adjustment knob on the side of the master you will be able to adjust the direction of the water droplets to flow up or down.



(Fig 4)

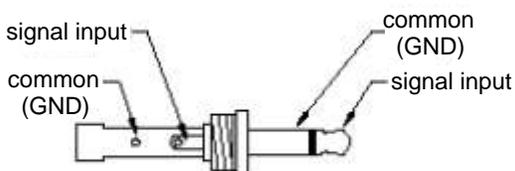


Fig 4a input/output connector detail

# Adjusting ProbeLights (continued)

The Probelites are shipped with the speed adjusted to create an illusion of the water droplets moving in a negative or upward flow. This is the case if no one was playing with it prior to installation! You can adjust the illusion to flow upward or downward faster or slower by rotating the speed knob clockwise or counter clockwise. Once Probe lights are set they will maintain their memory even if unplugged or switched off from a wall switch.

Approximate settings;	<u>120/220vac 60hz.</u>	<u>100/220vac 50hz.</u>
Stopped droplets.....	3600.00 *fpm/rpm	3540.00 fpm/rpm
Slow upward droplets.....	<b>3650.00 fpm/rpm</b>	<b>3590.00 fpm/rpm (factory default)</b>
Fast upward droplets.....	3767.00 fpm/rpm	3697.00 fpm/rpm
Slow downward droplets.....	3550.00 fpm/rpm	3490.00 fpm/rpm
Fast downward droplets .....	3430.00 fpm/rpm	3370.00 fpm/rpm

These settings will get you in the ballpark so you can adjust for your taste.

**\* Some strobes may not display FPM**

The display panel consist of a back lit liquid quartz crystal display with six numeric digits on the top and five alphanumeric digits on the bottom, which indicate modes, flash rates etc. (see fig9)



Multiplies flash rate by 2 times  
ALT Function - Starts Menu



Divides flash rate by 2



Toggles display between RPM and RPS  
ALT Function - Toggles Tach Mode (flashing) on/off



Manually toggles between Internal and External Modes  
ALT Function - Reads and Stores 9 preset flash rates



Activates Alternate Function for buttons (lower section) and knob



In Internal Mode, toggles between normal flash rate adjust and "phase" delay adjust

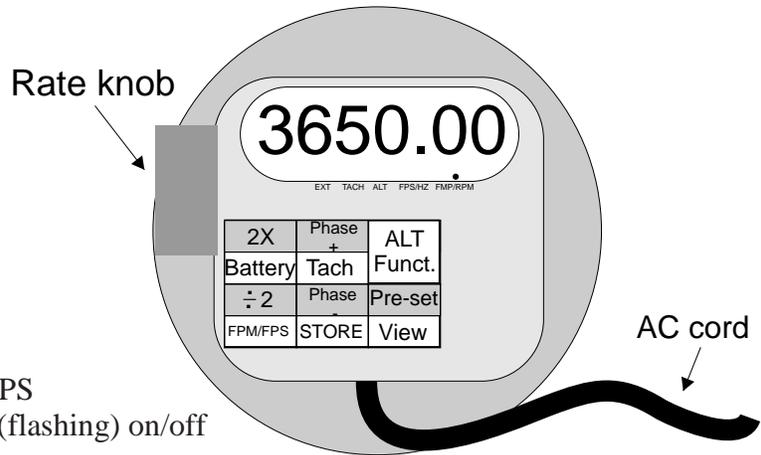


Fig.#9

The **ALT FUNCTION** button toggles **ALT.** in the display. When ALT is displayed, the buttons will perform their secondary function listed in the lower section of each button. It also changes how the tuning knob works.

# LAMP AND FUSE REPLACEMENT

## Lamp Replacement;

**WARNING: Before attempting to remove the lamp, make sure the Probelite is turned off and any power cord is removed from the AC outlet. Allow the lamp to cool waiting at least 5 minutes.**

The Probelite is designed to discharge the internal high voltages within 30 seconds. However, caution should be exercised when replacing the lamp. The lamp can be replaced by using just a pocket screwdriver. **It is not necessary to remove any screws to replace the lamp.**

## To change the lamp:

1. Push apart the two tabs on the side of the reflector housing and remove the lens using a small screwdriver to help pry one tab and lift the lens. Take care not to pry the tab any more than is necessary to free the lens. The reflector is held in place by the front lens and will come loose, but it is not necessary to remove the reflector.

2. Hold the lamp with a cloth between your forefingers and thumb and rock it back and forth gently while pulling out. Do not attempt to rotate the lamp. The lamp is socketed and will come out easily when pulled straight out.

**WARNING: Do NOT touch the new lamp with bare fingers.**

3. The lamps are polarized and must be put into the socket matching polarity. **Using a lint free cloth, match up the red dot on the plug with the red dot on the socket** and gently rock the lamp while pushing it into place (see Figure 10). Make sure the lamp is in straight and centered in the reflector hole.

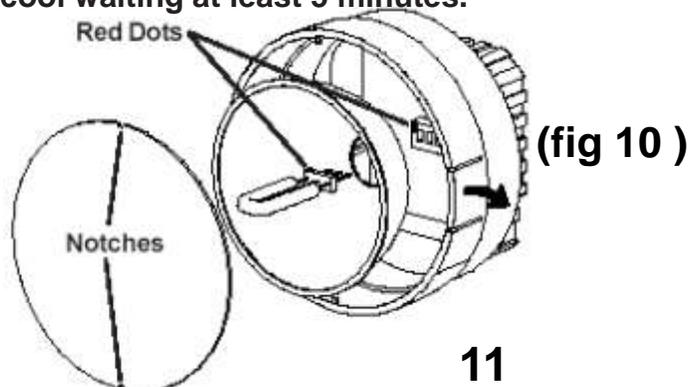
**CAUTION: Do NOT allow the reflector to contact the lamp.**

4. Reinstall the reflector and then position the front lens in place matching up the notches on the lens with the two small tabs on the housing to prevent lens rotation (see Figure 10). Push the tabs on the front rim outward and press the lens into place.

## Fuse Replacement

Under normal operating conditions, the fuse within the Probelite should never blow. Examples of abnormal operating conditions would be foreign materials entering the Probelite, such as water, pulp, ink, etc. The Probelite has a replaceable fuse inside the unit, which may be accessed by removing the lens and reflector - refer to Figure 10. If the fuse needs to be replaced, replace only with a fuse of the same type and value: Fast Blow - 750mA, 2AG.

**WARNING: Before attempting to replace the fuse, make sure the Probelite is turned off and any power cord is removed from the AC outlet. Allow the lamp to cool waiting at least 5 minutes.**



# Trouble shooting Problems

Symptom	Check
Limited or no Water flow / Water Beads inconsistent	Make sure flow valve is on! Make sure pump is on and not clogged! Check water level in catch basin!
Water flowing from vent holes	Turn flow valve down Exit holes plugged
Slow water flow/ Uneven water flow	Check filter cartridge Make sure pump screen is not clogged!
No Probelite light output	Check to see Probelites are plugged into outlet Check connecting cables between Probelites Replace lamp
Droplets not even	Check water flow Check for obstructions around exit holes on head

## Do's and Don't's

Don't place Probelites so they blast your clients in the eyes...they will leave your place!

Don't let the pump run dry...it will burn out!

Don't break the VOID seals on the head unit...it will void your warranties!

Don't leave the Probelites running when you are closed... they will burn out...they are expensive!

Do tell people where you got your WaterRise from!

## Up-keep

Change filter cartridge once every two months.

Use distilled water if possible...it will extend the life of the unit.

Lamp and fuse replacement is explained on page 12.

## Warranty

Salvin warrants the WaterRise for a period of one year from date of purchase against all defects in materials and workmanship. Lamps are covered for 30 days. Any misuse will void any and all warranties expressed herein.

# WaterRise Specifications

## Head

Plexiglas/ construction brass

110vac 60hz.Standard (Custom voltages available)

Dimensions;

10"(254mm) Diameter x 8"(203mm) high

9lbs.(4.1kg.)

## Light Specifications

Lamp; Xenon 15 watts

110vac 50/60hz

1.5 lbs. (.72 kg.)

9" x 3.66" x 3.56" (229 x 93 x 90 mm);

Reflector Housing: 4.8" (122 mm) diameter

115 Vac, 50-400 Hz or 220-240 Vac, 50-400 Hz

## Punp Specifications

Amperage : 8.5 A @110vac

Assembled Depth (In Inches) : 8 in (203mm)

Assembled Height (In Inches) : 10.25 in (260.4mm)

Assembled Weight : 9 lb (4.1kg.)

Assembled Width (In Inches) : 8 in (203mm)

Cord Length : 8 ft (2.4m)

Horsepower : .25 hp

Outlet Dimension : 1.25 in(32mm) NPT

**Specify voltage required**

!...All specifications subject to change without notice...!