

# SAm<sup>®</sup>/Photon Generator<sup>®</sup> Synch Instructions

This Photon Generator is equipped with a Spectrum *Amerlite* (*SAm*) compatible colorwheel. The colors have been arranged in spectral order so that they will closely match the colorful light output of the new Pentair Water Pool and Spa *SAm* light. Follow the instructions below to synchronize the colorwheels of the *SAm* and Photon Generator.

## NOTE

There may be slight color variations between the *SAm* and Photon Generator depending on the application. These variations are caused by differences in initial light intensity and attenuation of the water and/or reflective surfaces (i.e. pool wall coloring).

1. Turn on the *SAm* light and make sure the *SAm* colorwheel is stopped on a color (any color).
2. Turn on the Photon Generator power and colorwheel. If there are multiple synchronized Photon Generators, allow enough time for these units to synchronize with each other before continuing.
3. When the Photon Generator colorwheel transitions between Purple (Pacific Violet) and Magenta, toggle the *SAm* light power off and on.
4. The units are now synchronizing! Allow about 30 seconds for the units to begin simultaneously rotating through the color spectrum.

## ADDING THE OPTIONAL EIGHTH COLOR (P/N 840264) TO THE PHOTON GENERATOR

An optional additional color filter may be inserted into one of the open positions in the Photon Generator Colorwheel. Adding the eighth color will add another brilliant color to the current spectrum of colors. However, the unit will not be completely synchronous with the Spectrum *Amerlite* (*SAm*). Follow the steps below if you wish to add the additional color filter to the Photon Generator.

1. Remove Lid of Photon Generator.
2. Turn on unit and colorwheel. Allow colorwheel to rotate until two open slots are towards back of unit (see Figure 1). Do not allow unit to operate for more than one minute with lid removed.
3. Turn Off unit power.

## ⚠ WARNING



Disconnect all power to Photon Generator before installing additional color filter. Failure to do so may lead to severe electrical shock, which can result in death or severe personal injury.

4. Slide additional colorwheel filter into blank slot as shown in Figure 1. Make sure filter is completely inserted and rests level with other filters.

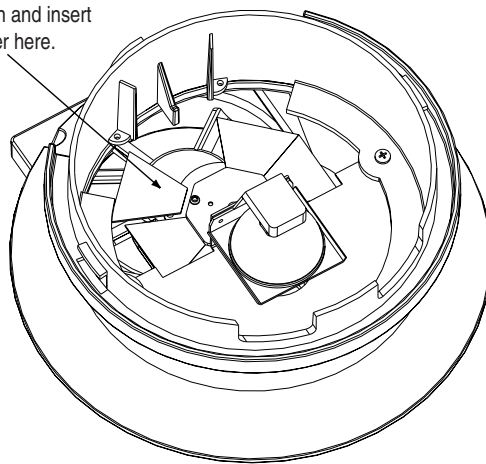
## ⚠ WARNING



The edges of the color filter can be sharp. Handle color filter with care when inserting into colorwheel. Failure to do so could result in lacerations from broken or sharp color filter.

5. Turn on unit power and check rotation of colorwheel to make sure there are no interference problems with wires, etc. If unit needs to be adjusted, remember to first turn off the power!
6. Replace lid.

Position colorwheel as shown and insert extra filter here.



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