PG2000® Owner's Manual

Specifications:

Electrical:	120 VAC 60 Hz
Operating load:	2 amps
Material:	High Strength Plastic
Weight:	20 lbs.
Lamp:	150 Watt Metal-Halide
Lamp Life:	6000 hours
Restrike time:	2-3 minutes

Pentair Water
Pool and Spa®

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS BEFORE OPERATING SYSTEM

Operating the PG2000®

Refer to the toggle switch position diagram below for the appropriate switch positions for your particular installation. The switches are located on the lower right side of the unit. The PG2000® should always operate in manual mode no matter what type of control system is installed.

NOTE

When cycling system off, then back on, it may take up to 3-4 minutes before the lamp "restrikes" or comes back on. The lamp must cool down before restriking. All metal halide lamps have this characteristic and this is a normal function of the PG2000®.

⚠CAUTION

PG2000® Illuminator must have good ventilation to operate properly. Blockage of air flow or air intake will shorten the bulb life and could damage the unit. Make sure foliage; grass, groundcover, yard debris, etc. is kept clear of intake vents on back of the unit in order to allow for proper air flow. Do not install PG2000® Illuminator in an underground utility box or similar appliance. Damage to the unit due to blocked air vents or poor ventilation will void the warranty.

TOGGLE SWITCH POSITIONS

MANUAL CONTROL

POWER OFF   COLOR OFF   POWER ON   COLOR ON

REMOTE SWITCH CONTROL   RF2000 WIRELESS CONTROL

POWER   COLOR   POWER   COLOR

Replacing the Bulb.

1. Turn power to unit off.

⚠WARNING

Turn off power before changing bulb. Failure to turn off power may lead to severe electrical shock, which can result in death or severe injury.

2. Remove two screws securing outer body and lift outer body straight up.

⚠WARNING

Bulb socket, and reflector are extremely hot during and following operation. Allow sufficient time for cooling before touching them, or you may suffer severe burns.

3. Remove screws (3) at bottom of socket bracket, (see Figure 1.) and separate socket bracket assembly from reflector.

   Remove bulb from socket and insert new bulb. Be sure not to touch the glass of the bulb.
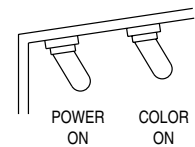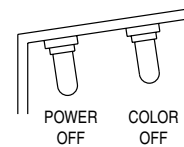
⚠CAUTION

Do not touch the bulb with your bare fingers - fingerprints can actually cause the bulb to overheat and crack. Handle the bulb using sheath provided in packaging.
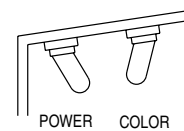
4. Reassemble socket bracket and make sure bulb is centered in reflector.

5. Replace outer body and secure with two screws.
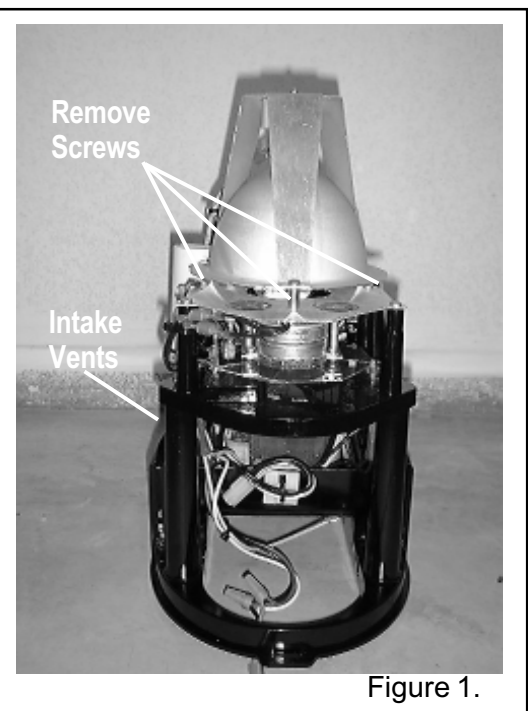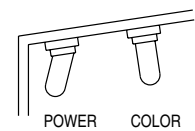
Remove Screws

Intake Vents

Figure 1.

PG2000® Synchronization Procedures with S*Am*® light

Listed below are the procedures to follow if you have a S*Am*® underwater color light installed in your pool or spa and wish to synchronize your fiber optics with S*Am*®.

NOTE

There may be slight color variations between the S*Am*® and PG2000® 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).

In order for instructions to work you must have P/N 840242 – 7 Color, Electronic Synchronized PG2000®

(all other part numbers must use visual synchronization method)

Synchronization Start Conditions

1. S*Am*® is ON and colorwheel is stopped on ANY color (including white).
2. PG2000® power is ON and the colorwheel is OFF.

Synchronization Procedure

1. Simultaneously toggle S*Am*® OFF/ON and turn the PG2000® colorwheel ON.
2. Allow about 1½ minutes for colors to synchronize. **Enjoy!**
3. To stop both lights on the same color, simultaneously toggle S*Am*® OFF/ON and turn the PG2000® colorwheel OFF.

Visual Synchronization Method (for use with P/N 840241 only)

1. Turn S*Am*® ON, colorwheel is stopped on ANY color (including white).
2. Turn PG2000® ON and colorwheel ON.
3. When PG2000® transitions between purple and magenta toggle S*Am*® OFF/ON.
4. To stop both lights on the same color, simultaneously toggle S*Am*® off and on while turning the PG2000® colorwheel off.

Troubleshooting

If the PG2000® does not come on at all…

- Make sure the power switch is on (see switch position diagram). On Auto Remote Control (Compool®/Jandy®) make sure the proper auxiliary is turned on. The PG2000® should always operate in manual mode no matter what type of control system is installed.
- Check that the circuit breaker is not tripped.
- Check the incoming voltage at the PG2000® to verify power supply.
- Check the fuse(es) inside the unit. Replace if fuse is open.

If there is no light…

- Check that the bulb is in place securely in the socket.
- If you can hear the fan running the lamp has probably failed. Replace lamp.

If the fan runs, but the light cycles on and off…

- Check the vents of obstructions. There must be adequate air flow or PG2000® will overheat and begin to cycle.
- If the unit is operating in direct sunlight during a very hot day it may exceed the recommended operating temperature and cycle on and off. This protects the end of the fiber optic cables from damage and is normal.

If the light comes on, but the fan is not running…

- Turn off PG2000® immediately and check for obstructions in the fan!
- DO NOT continue to operate PG2000® without the fan running! The excess heat can damage the fiber optic cable.

Colors do not change….

- Make sure the colorwheel power is on. On Auto Control (Compool®/Jandy®) make sure the proper auxiliary is turned on.
- Remove the body and check the colorwheel for obstructions or debris that might be interfering with the rotation of the color wheel.

TROUBLESHOOTING NOTE:

If none of the above suggestions solve your particular problem, contact your pool contractor, or Pentair Water Pool and Spa, Inc.'s Customer Service hotline at: 800-831-7133, Monday through Friday 7:30 a.m. – 4:30 p.m.

SAVE THESE INSTRUCTIONS