

RF2000 Transmitter and Receiver Instructions

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

Table of Contents

Section I. Installation Instructions	2
Section II. Operating Instructions	2
Section III. Trouble Shooting	3

Important Notice



Attention Installer.

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment. Call (800) 831-7133 for additional free copies of these instructions.

Important Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the party responsible for FCC compliance could void the user's authority to operate the equipment.

Pentair Pool Products

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Section I. Installation Instructions

1. If the installation has multiple PG2000s and individual control of each unit is desired, there are four available channels on the transmitter. Each channel may control more than one unit. Set the channel code in the receiver by switching dipswitches 5 and 6 inside of the receiver, (see Figure 1). The default factory setting is Channel 1. See Table 1 for proper dipswitch settings.

Receiver Channel Dipswitch Settings		
Channel	Dipswitch 5	Dipswitch 6
1	Off	Off
2	On	Off
3	Off	On
4	On	On

Table 1.

⚠ DANGER



Risk of Electrical Shock or Electrocutation.

Always disconnect the power to the PG2000 at the circuit breaker before removing the lid and servicing the light. Failure to do so could result in death or serious injury to serviceman, pool users or others due to electrical shock.

2. Turn power switch and colorwheel switch on the side of the PG2000 unit to OFF and disconnect power at the circuit breaker.
3. Remove PG2000 body.
4. *Very carefully* straighten out the antenna on the receiver module.
5. Place receiver module on the left side of the unit next to the ballast. Look for the ribs as a guide. The 4 pin plug should face the back of the unit and the antenna should face forward. Use the double sided foam tape to hold the receiver in place. (See Figure 2.)
6. Plug the 4 pin connector from the PG2000 into the 4 pin connector from the RF2000. The plug coming out of the RF2000 basically does a “U” turn and heads toward the PG2000 plug. You may have to shift the receiver module around a bit to get your hands in to make the connection.
7. Drape the antenna forward into the fiber conduit area. It should stay on the outer perimeter of this area curving around to the front of unit. Keep the antenna as straight as possible.
8. Make sure the receiver module will clear the body and the entire antenna remains inside of the PG2000 housing.
9. Replace the PG2000 body.
10. Change power switch to RF2000 Wireless Control position. The colorwheel switch remains in the off/RF2000 Wireless Control position, (see Figure 3).
11. Install the 9V battery in the transmitter.

Section II. Operating Instructions

1. The 4 buttons along the top of the transmitter are the channel buttons. Depress the appropriate channel you would like to operate. The channel button is activated if it is in the depressed position. Any combination of channel buttons can be used to give individual control or synchronous control. The default setting in all receivers is channel 1.
2. To turn on the unit press the “POWER ON” function button. The beeping sound indicates that a signal is being sent. Hold down the button until the unit turns on. This should happen immediately but there may not be a visible indicator since the bulb must first warm up. The transmitter will only send a signal for 5 seconds as indicated by the beeping.

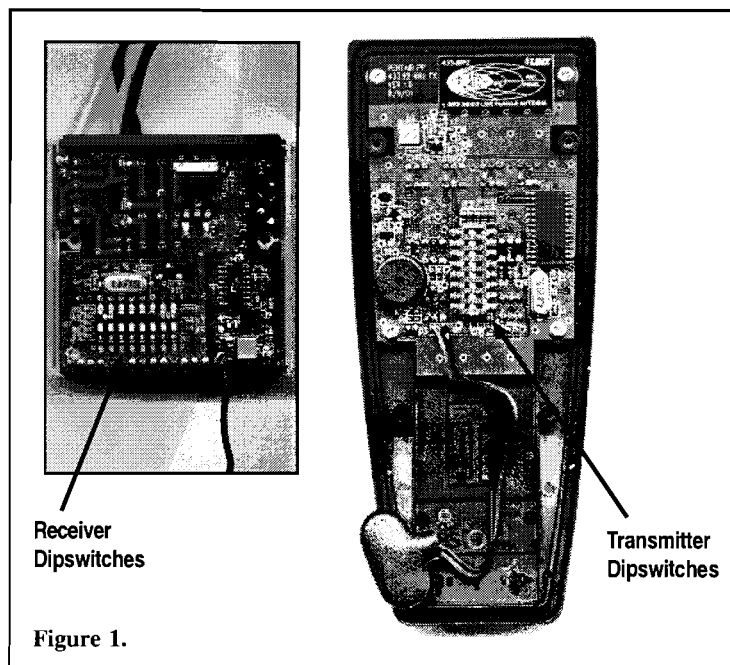


Figure 1.

3. To turn on the colorwheel, press the "COLOR ON" function button. The beeping sound indicates that the signal is being sent. There is a 1/2 second delay once it has received the signal.
4. To freeze on a color, simply press the "COLOR OFF" function button. If you turn the power off, it will also shut off the colorwheel.

Transmitter and Receiver Dipswitch Settings				
Component	Dipswitch #	Default Setting	Function	Notes
Receiver	1	Off	Addressing	Set a different combination of 1st four switches to eliminate interference problems. These must match 1st four switches on the transmitter
Receiver	2	Off	Addressing	
Receiver	3	Off	Addressing	
Receiver	4	Off	Addressing	
Receiver	5	Off	Channel	Set combination of switches 5 & 6 to control channel setting. See Table 1
Receiver	6	Off	Channel	
Receiver	7	Off	none	Leave in Off position
Receiver	8	Off	none	
Transmitter	1	Off	Addressing	Set a different combination of 1st four switches to eliminate interference problems. These must match 1st four switches on all receivers
Transmitter	2	Off	Addressing	
Transmitter	3	Off	Addressing	
Transmitter	4	Off	Addressing	
Transmitter	5	Off	none	Leave in Off position
Transmitter	6	Off	none	
Transmitter	7	Off	none	
Transmitter	8	Off	none	

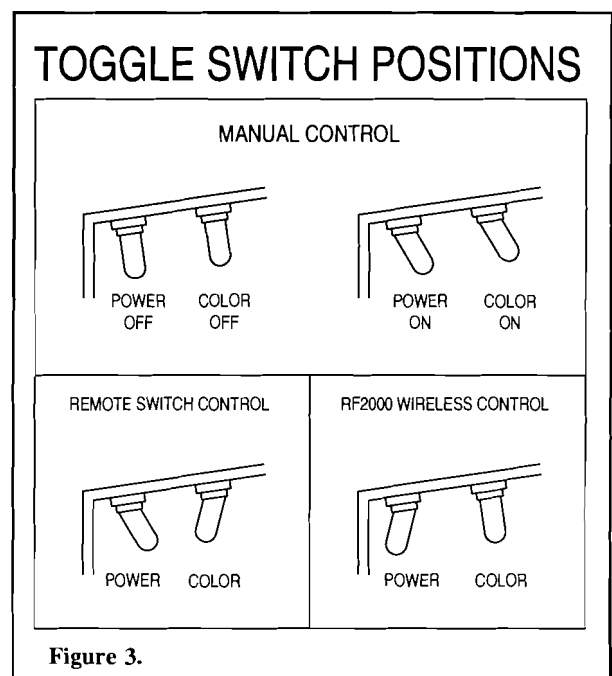
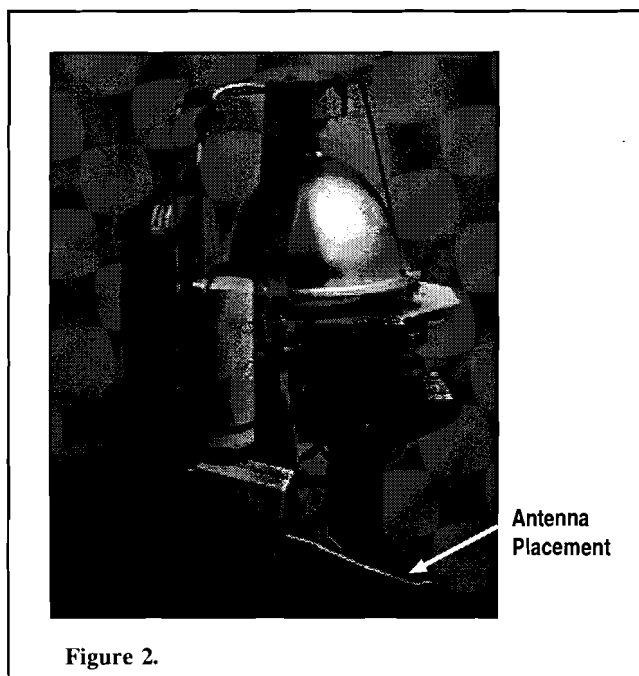
Table 2.

NOTE

If the unit is cycled off then on it may take up to 3-4 minutes for the lamp to "restrike" or come back on. All metal halide lamps have this characteristic and this is a normal function of the PG2000.

Section III. TroubleShooting

1. If the unit experiences interference from other RF devices, (e.g. neighbor has RF2000), the addressing must be changed in both the receiver and transmitter. See Figure 1 for dipswitch locations and Table 2 for addressing options.
2. The performance of the RF2000 will vary from installation to installation depending on its operating environment. For best results, locate the PG2000 in an open area. Also, minimize the number of obstructions between the desired transmitting location and the PG2000.
3. If the RF2000 fails to operate, the PG2000 may be manually operated by using the toggle switches on the right side of the unit. See Figure 3.



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