X-10 Transmitter and Receiver Instructions

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

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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. If you have any questions or need additional free copies of these instructions, please call (800) 831-7133.

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.

No changes or modifications may be made to the units. Any changes made to the unit will void the user's authority to operate the equipment.

Section I.   Installation Instructions

A. PG2000 RETROFIT INSTRUCTIONS

Using The X-10 Remote Control

NOTE:

If an X-10 system is present prior to this installation, module settings for this unit must be adjusted to allow for settings already in use. See operating instructions for directions on how to change manufacturer default settings and then adjust the installation settings accordingly.

⚡	**⚠DANGER** **Risk of Electrical Shock or Electrocution.** 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.

1. Turn power switch and colorwheel switch on the side of the PG2000 unit to their "OFF" positions and disconnect power at the circuit breaker.

2. Remove the PG2000 cover by removing the bottom screws.

3. If retrofitting an RF2000 wireless system, locate the receiver module (on the left side of the unit) and disconnect its 4-pin plug from the PG2000. Remove the receiver module usually held in place by double stick tape.

4. Take one of the XPFM modules (see Figure 1), set the UNIT dial to channel 2 and the HOUSE dial to the appropriate code (A is usually chosen for first time X-10 use). Place this module on the LEFT side of the PG2000 as seen in Figure 4. First clean the mounting surface, then attach module with the double stick tape provided. Using the wire nuts provided, connect the BLUE wire and the YELLOW wire (from the colorwheel fuse). The BLACK (120VAC, line) wire will be connected in the next instruction.

5. Take the other module, set the UNIT dial to channel 1 and the HOUSE dial to the same as the other module. Onto a clean mounting surface, place this module on the RIGHT side of the PG2000 with the double stick tape provided. Connect the BLUE wire, the BLACK wire (from the LEFT side XPFM), and the smaller BLACK wire from the Ballast fuse together. Now, connect the RIGHT side XPFM's BLACK wire to the main's BLACK wire.

Figure 1.

6. Connect all the WHITE (neutral) wires together with one wire nut (should be 4 white wires in all).

7. Connect the mains GREEN (chassis) wire and the PG2000's GREEN wire together with a wire nut.

8. Check that all connections are tight and no bare conductors are exposed. Verify connections with the wiring diagram in Figure 4.

9. Replace the PG2000 cover and fasten with screws.

10. Change the side switches to match the Remote Switch Control setting (see Figure 3). Each switch is set to its own remote switch position (power and colorwheel).
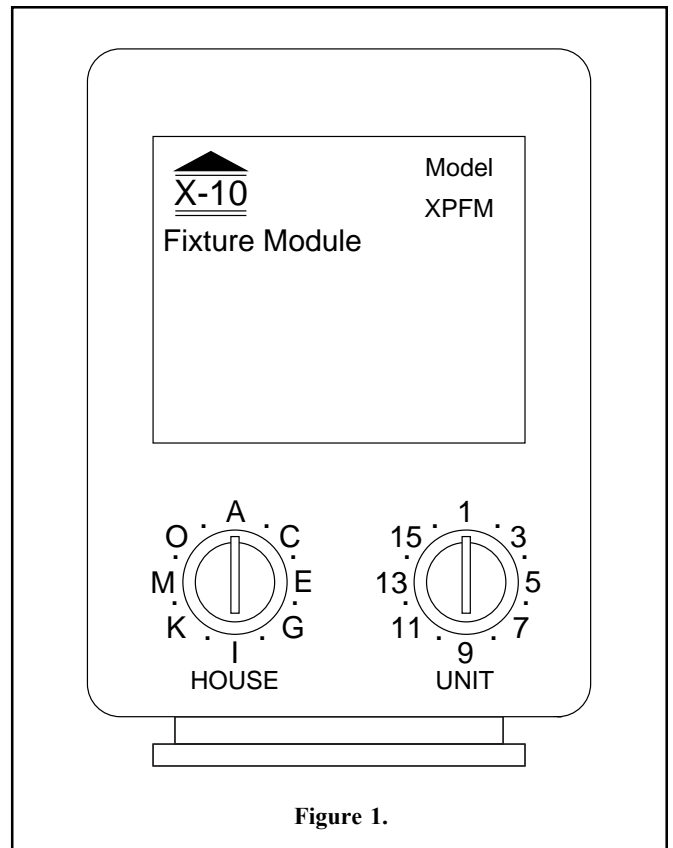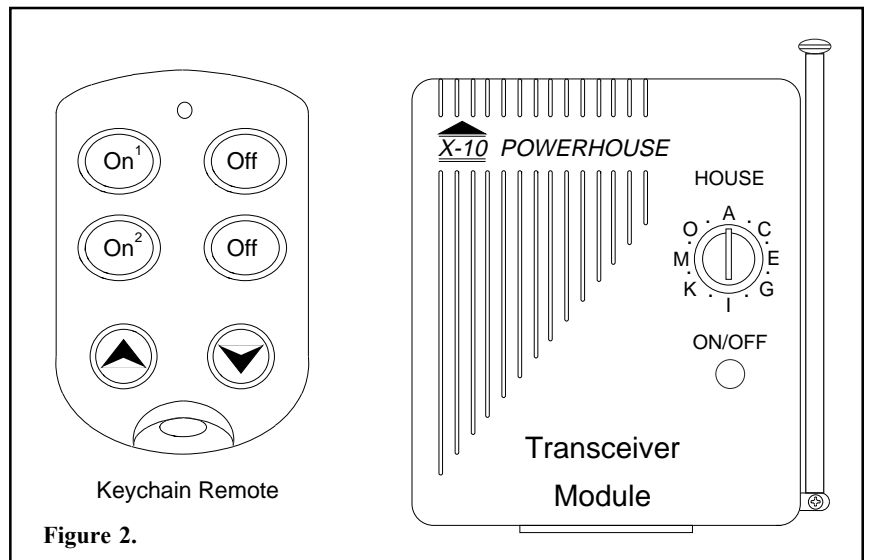
Section II. Operating Instructions

1. Plug in the Transceiver (see Figure 2) and extend antenna.

NOTE
The Transceiver is NOT weather-proof and MUST be installed indoors at least 5 feet from the pool or the minimum distance from the pool that local building codes require.

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2. Using the keychain remote (see Figure 2), press the first (top) ON button to turn on power for the PG2000 bulb, press the first (top) OFF button to turn off. Press the second ON button to start the colorwheel, press the second OFF button to stop the colorwheel.

Figure 2.

NOTE
Power to the PG2000 must be pressed first before being able to start the colorwheel.

A. To change the HOUSE code:

- Take the keychain remote, press and hold the first (top) ON button. While holding down, the red LED will blink once, 3 seconds later, the LED will then blink the current setting: 1 blink for HOUSE code A, 2 blinks for B, …, 16 for HOUSE code P.
- Release the ON Button.
- Press and release the first (top) ON button the number of times for the HOUSE code you want to set: 1 for A, 2 for B, … 16 for P. The LED will blink for each press.
- VERIFY the new setting by holding down the first (top) ON button, the LED will turn on, 3 seconds later, the LED will then blink the new setting.

B. To change the UNIT code for the first (top) two buttons: (the second pair of ON/OFF buttons are always one number higher than the first pair, i.e. if you set the first button to 6, the second button controls 7).
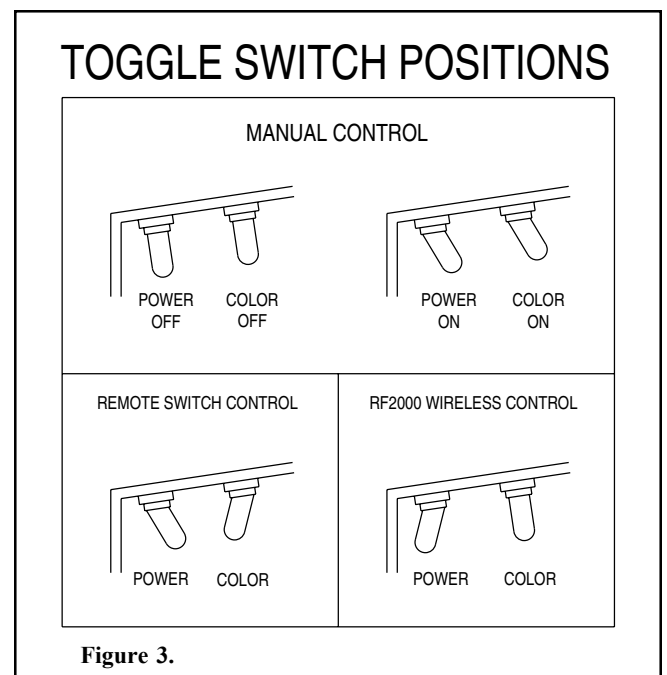
- Press and hold the top OFF button. The red LED will blink once, 3 seconds later, the LED will then blink the current setting: 1 blink for UNIT code 1, 2 blinks for 2, …, 16 blinks for 16.
- Release the top OFF button.
- Press and release the top OFF button the number of times for the UNIT code you want.
- VERIFY the new setting by holding down the top OFF button, the LED will turn on, 3 seconds later, the LED will then blink the new setting.

C. To change the battery:

- Pry the keychain remote apart and fit a CR2025 Lithium 3V battery into slot. Observe the polarity.

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.

Figure 3.

Section III. Trouble Shooting

If there is a signaling problem, the following methods may remedy it:

Problem: Short operating distance (20 ft. or less).

Action:

• Change battery (CR2025, 3V Lithium) in keychain remote.
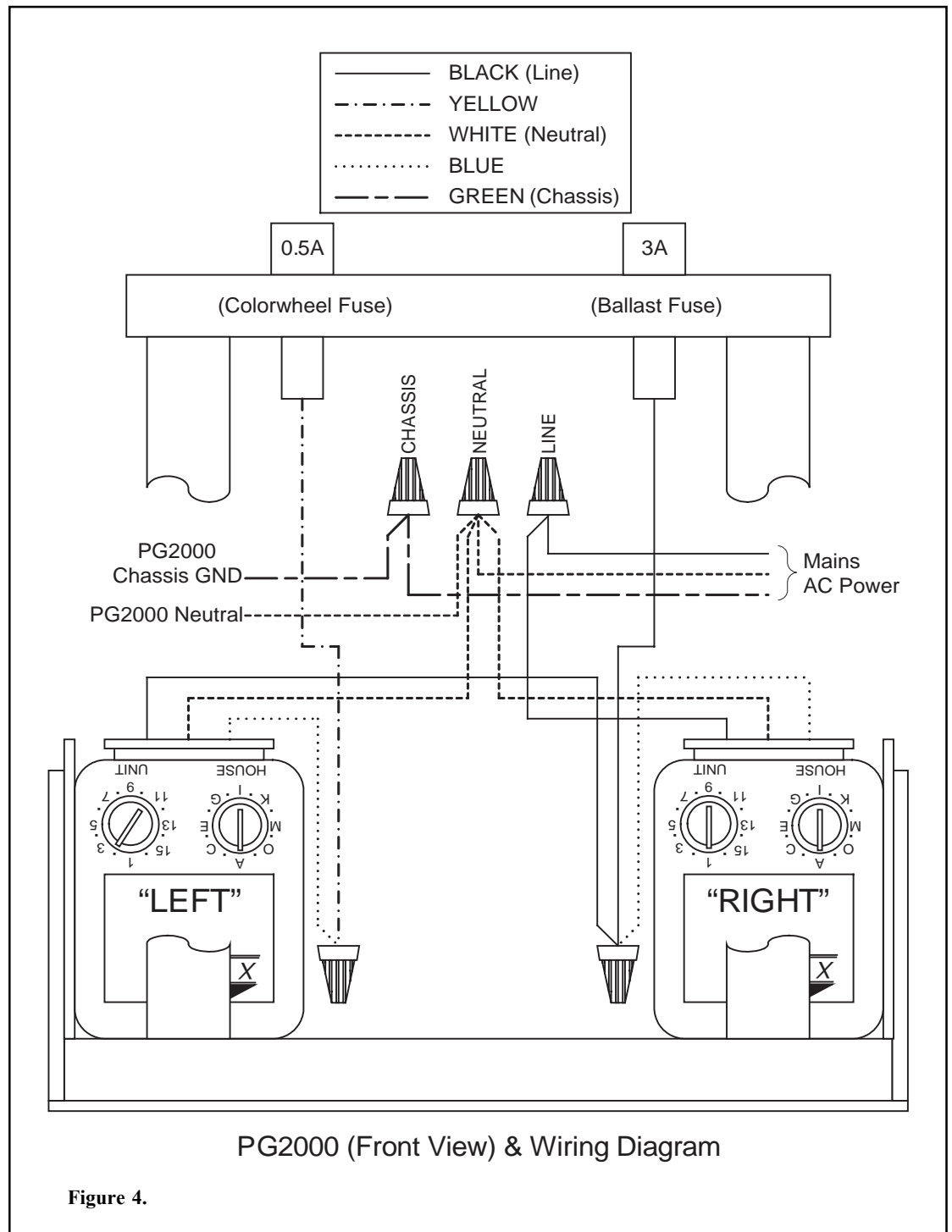
Problem: Not operating.

Action:

• When using the keychain remote, make sure you are within the expected operating distance from the Transceiver. (Operating distances can very depending on local RF noise levels.)

• Verify the House and Unit codes are set correctly on the Transceiver, keychain remote, and the PG2000.

⚠ CAUTION

BEFORE removing PG2000 cover, ALWAYS DISCONNECT POWER at main breaker AND at the PG2000 switches. In order to verify the codes in the PG2000, the cover must be removed.

PG2000 (Front View) & Wiring Diagram

Figure 4.

SAVE THESE INSTRUCTIONS.