

TROUBLESHOOTING

Your control system is designed to provide years of trouble-free pool and spa enjoyment. However, if at any time your system behaves erratically, consult the following Check List, which should help alleviate any problems caused by operator error. If you are still unable to solve your particular symptom, refer the situation to a qualified pool service company.

NOTHING OPERATES :

1. Check all circuit breakers at electrical subpanel.
2. Check 3 amp circuit breaker which is located above **FILTER TIMER Dial** in Power Center. A tripped circuit breaker is indicated by a white tab.
3. If circuit breaker continues to trip, refer to a qualified service company.

FILTER PUMP DOES NOT OPERATE :

1. Check that **FILTER TIMER Dial** in Power Center is programmed on, and that **FILTER PUMP Service Switch** is not in the "OFF" position.
2. Check filter pump circuit breaker at electrical subpanel.
3. Filter pump may require servicing.

POOL CLEANER DOES NOT OPERATE :

1. Make sure that Remote Control switches are connected to the system.
2. Check that **SPA Switch** at Remote Control is in "POOL" position.
3. Check that **CLEANER TIMER Dial** in Power Center is programmed on.
4. Check cleaner pump circuit breaker at electrical subpanel.
5. Pool Cleaner pump may require servicing.

HEATER DOES NOT OPERATE :

1. Make sure that filter pump is on.
2. Check heater thermostat setting and pilot light (if applicable).
3. Check filter pressure. If filter is clogged, the heater may not be getting sufficient water flow.
4. Heater may require servicing.

SPA WATER LEVEL DROPS :

1. Check that **SPA SERVICE Switch** in Power Center is in "AUTO" position.
3. Check that cables have not been unplugged from Valve Actuators.
4. A "check valve" in the system may be leaking. Refer to a qualified service company.

SAVE THESE INSTRUCTIONS

CP-30 POOL-SPA SWITCHING SYSTEM



USER'S GUIDE

**IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS**

Customer Service

If you have questions about ordering Pentair Pool Products replacement parts, and pool products, please use the following contact information.

Customer Service (8 A.M. to 5 P.M. Pacific Time)

Phone: (800) 831-7133 (press 3 in voice mail)

Fax: (800) 284-4151

Technical Support for Pentair Pool Products

Sanford, North Carolina (8 A.M. to 5 P.M. Eastern Time)

Phone: (919) 774-4151 (press 1 in voice mail)

Fax: (919) 776-0562

Moorpark, California (8 A.M. to 5 P.M. Pacific Time)

Phone: (805) 523-2400 (Ext. 6502)

Fax: (805) 530-0194

Web site

visit www.pentairpool.com to find information about Pentair Pool Products

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1620 Hawkins Ave., Sanford, NC 27330 • (919) 774-4151
10951 West Los Angeles Ave., Moorpark, CA 93021 • (805) 523-2400

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MAINTENANCE

WINTERIZING THE SYSTEM :

During the winter season, it is possible to partially drain your swimming pool and disable the pool equipment, but still be able to use your spa.

Consult a qualified service company to drain the pool, and protect the plumbing from freeze damage.

The following procedures will disable the pool equipment :

1. At the Remote control, turn the **SPA Switch** to "SPA" position.
2. Unplug cables from Valve Actuators.
3. At the Remote Control, turn the **SPA Switch** back to "POOL" position.
4. At the Power Center, turn **FILTER PUMP Service Switch** to the "OFF" position.

NOTE : If daily spa filtration is required, the FILTER TIMER Dial should be programmed accordingly.

A **Recirculating Freeze Sensor (model FPS-C)** may have been added to your system. It protects the plumbing and equipment from possible freeze damage, by running the filter pump whenever the temperature falls to approximately 41° F. In this instance, it will not be necessary to have the swimming pool drained. It is, however, recommended that all freeze sensors be tested by an authorized Service-person before the onset of the winter season.

Testing can be accomplished by placing sensor in a glass of ice water, and turning **FILTER PUMP Service Switch** to the "OFF" position. If the sensor is functioning correctly, the filter pump should turn on within ten minutes.

Repeat this test for any **Auxiliary Freeze Sensors (model FPS-AUX)** which may have been added for the jet pump or auxiliary equipment.

CLEANING THE SPA :

It is possible to empty your spa for cleaning and maintenance purposes, and then to refill with clean water from your pool.

At the Power Center :

1. Set the **SPA SERVICE Switch** to "DRAIN" position.
2. Set the **FILTER PUMP Service Switch** to "ON" position. The spa will begin to drain into the pool.
3. Before the spa has drained completely, set the **FILTER PUMP Service Switch** to "OFF" position. Do not drain the spa completely or prime will be lost.
4. When cleaning or spa maintenance is complete, set the **SPA SERVICE Switch** to "FILL" position and the **FILTER PUMP Service Switch** to "ON" position. The spa will begin to fill with clean water from the pool.
5. When water level in the spa has returned to normal, return the **SPA SERVICE Switch** to "AUTO" position and the **FILTER PUMP Service Switch** to "TIMER" position.

CAUTION : Do NOT leave equipment unattended when draining or filling the spa.

VALVE ACTUATORS

Your control system is designed to activate two motorized valves which automatically rotate between pool and spa filtration whenever the SPA Switch is activated at the Remote Control.

The valves are also activated from the “FILL” and “DRAIN” positions of the **SPA SERVICE Switch** at the power Center.

REMOTE CONTROL



A four-function Remote Control Switchplate is provided in a convenient location for your daily spa use.

It operates your spa, heater and two auxiliary pieces of equipment.

SPA Switch :

Rotates motorized valves between pool circulation and spa circulation. In “SPA” position, the filter pump will automatically be activated, even if the **FILTER TIME Dial** is not programmed on.

NOTE : If your pool is equipped with a pool cleaner pump, a built-in safety circuit will automatically turn off the pool cleaner whenever the spa is in use.

HEAT Switch :

IF YOUR SYSTEM INCORPORATES A DUAL THERMOSTAT HEATER :

SPA Position : Enables heater to heat the water to the “high” thermostat setting whenever the filter pump is running;

OFF Position : Disables the heater;

POOL Position : Enables heater to heat the water to the “low” thermostat setting whenever the filter pump is running.

IF YOUR SYSTEM INCORPORATES A SINGLE THERMOSTAT HEATER :

SPA Position : Enables the heater whenever the filter pump is running;

OFF Position : Disables the heater;

POOL Position : Disables the heater.

AUX1 and AUX2 Switches :

These switches are used to control additional equipment (such as pumps, lights, fountain, waterfall, etc.).

When operating or servicing this electrical equipment, basic safety precautions should always be observed.

⚠ WARNING

To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

INTRODUCTION

The CP-30 is a remote control system which is designed to coordinate and operate all of the equipment associated with your swimming pool and spa.

The system is comprised of three principal components:

1. The **LX-30 Power Center**;
2. Two **CVA-24 Valve Actuators**; and
3. The **CP-30 Remote Control**.

The **Power Center** automatically control the timing of your filter pump and pool cleaner (if applicable); the **Valve Actuators** automatically switches the filter between pool and spa circulation; and the **Remote Control** provides convenient switching of your spa, heater, and two auxiliary pieces of equipment (such as: air jets, lights, waterfall, etc.).

Additionally, the CP-30 incorporates important safety features which protect your pool equipment from accidental damage.

Before using this equipment, obtain a copy of the Installation Instructions and the completed EQUIPMENT CHECKLIST from your Pool Builder or Start-up Person.

POWER CENTER

FILTER TIMER Dial :

Check with your Pool Builder or Service company as to the amount of time required to provide efficient filtration and cleaning of your pool.

To set the correct time of day, rotate the FILTER TIMER Dial in a clockwise direction until the hours and minutes line up with the white arrow at eight o'clock position on the clock face.

Pay particular attention to the AM and PM sections of the Dial.

To program the daily filtration cycle(s), depress the desired number of sections around the perimeter of the Dial by pushing towards the center. For each section, depress the filter pump will operate for 15 minutes.

FILTER PUMP Service Switch :

For normal system operation, keep this Switch in the "TIMER" position. The "OFF" and "ON" positions allow your Pool Service-person to override the FILTER TIMER Dial without altering the program.

PUMP OFF DELAY Light :

A built-in electronic delay circuit will automatically run the filter pump for an additional 4 minutes whenever the system is turned off.

This feature enables the heater to cool down so that the heat exchanger and plumbing are not damaged from overheating.

The **PUMP OFF DELAY Light** indicates that the delay is in effect.

NOTE : It is possible to temporarily cancel this delay by switching the **FILTER PUMP Service Switch** to "OFF" and the back to "TIMER".

POWER ON Light :

Indicates that power has been connected to the system.

If this light is not on, consult your Pool Service-person.

SPA SERVICE Switch :

For normal system operation, keep this Switch in the "AUTO" position. The "FILL" and "DRAIN" positions are used when cleaning the spa.

CLEANER TIMER Dial :

If your system incorporates a mechanical time clock for the pool cleaner, follow the same procedure as the **FILTER TIMER** for setting the correct time of day and programming the operating cycle(s) of your cleaner.

NOTE : A built-in protection circuit automatically activates the filter to pump whenever the cleaner is running, even if the **FILTER TIMER** is not programmed on. This safeguards against possible damage to the pool cleaner pump when there is not water circulation.

