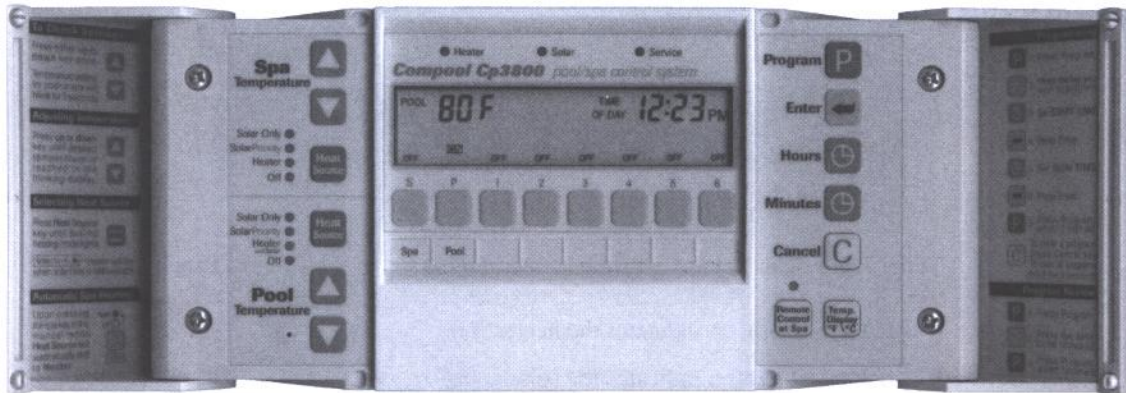


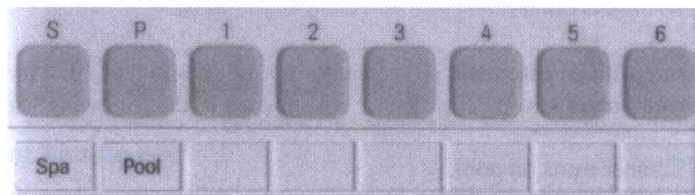
Operating Instructions

Control Panel



Installed at a convenient location inside the house, the Control Panel provides complete control of all the equipment associated with your swimming pool and spa. The system comes with one Control Panel, however additional Control Panels may be added as needed.

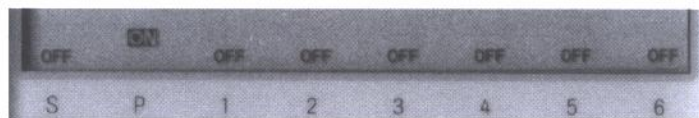
Equipment Keys



Equipment keys activate the Spa, Pool, and up to 6 additional items. Each key can be custom-labeled for your specific application. To turn equipment on or off, press the appropriate Equipment key once. An audible beep will indicate the key has been pressed.

Note Turning off equipment that has been turned on by a program will cancel that program for the day.

Equipment Status Icons



Equipment Status icons are located above each Equipment key.

- A solid ON indicates the equipment is on.

- A solid OFF indicates the equipment is off.
- A blinking ON indicates the cleaner is in a safety delay mode. The cleaner will turn on in 5 minutes.
- A blinking OFF indicates the heater is in a cool down mode. The pool will turn off after 10 minutes.

Equipment Status Lamps



Three Equipment Status lights are located on the top of the Control Panel.

- **Heater** Light on indicates the heater is on.
- **Solar** Light on indicates the solar is on.
- **Service** Blinking light indicates the system is in Service Mode.

Heater Protection

When the pool or spa is turned off, the system may keep the filter pump on for an additional 10 minutes to allow the heater to cool down. During this cool down cycle, and icon on the display will indicate DELAY. Some heaters do not require a cool down period, so this function may have been disabled. See Configuration Switches for details.

Cleaner Protection

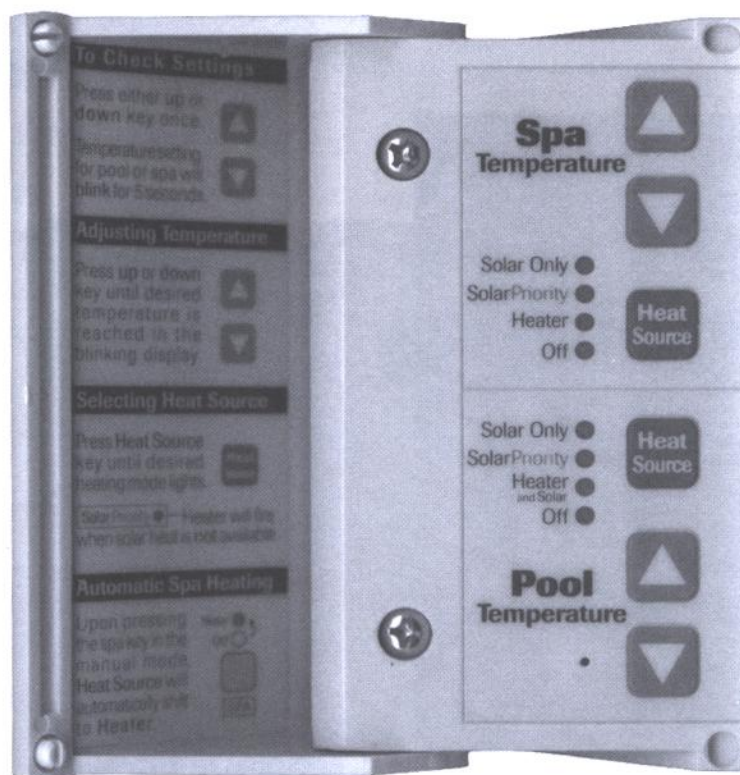
Systems with an automatic pool cleaner (booster pump type) will have been set up to control it with equipment key 1. The cleaner will operate in the following way.

- Cleaner turns on pool.
- Cleaner turns on after 5 minute delay.
- Cleaner is disabled while spa is on.
- Cleaner is disabled for 5 minutes when the solar turns on.

Canceling Heater and Cleaner Protection

For testing purposes only, it is possible to cancel the heater and cleaner protection by pressing the CANCEL key, which is located behind the right-side door of the Control Panel.

Temperature Control



Located behind the left door of the Control Panel is the Temperature Control area. Heating choices are selected using the following keys.

Heat Source key

To select heating method, press the Heat Source key through the different heating options.

- **Solar Only** - Heat with solar only.
- **Solar Priority**- Heat with solar when available, otherwise switch to gas heater.
- **Heater** - Heat with gas heater and solar when available.
- **Off** - No heating.

For added convenience, whenever the spa is manually activated (from either the Control Panel or the Spa-side Remote), the Spa Heat Source Lamp will automatically switch to “Heater”. Turning the spa off will return Spa Heat Source Lamp to its previous position.

Note If system does not incorporate solar, the Solar Priority and Solar Only options will not be available.

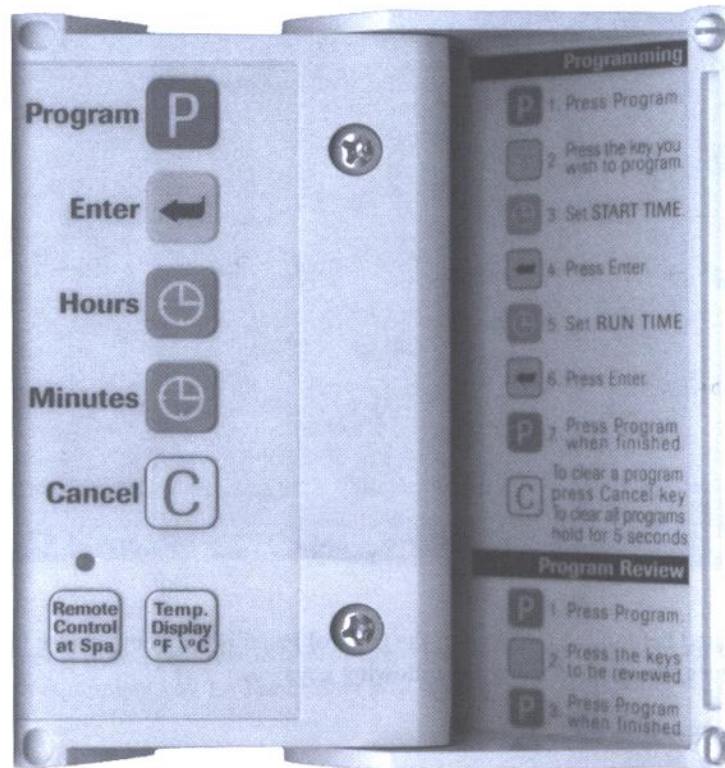
Temperature keys

To adjust the pool or spa temperature settings, press the appropriate Temperature key once. SET TEMP will be displayed. Press the Temperature keys to adjust desired water temperature. After 5 seconds, the display will automatically return to its original condition.

Fahrenheit/Celsius key

Located behind the right-door of the Control Panel is the Temp. Display key. Press this key to select Fahrenheit or Celsius temperature display.

Programming



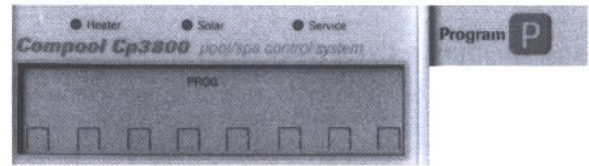
Behind the right door of the Control Panel are the keys used to Program equipment.

Programming

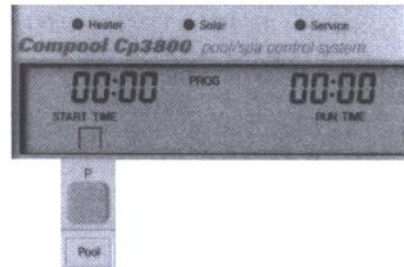
Typically only the Pool key (Pool filtration) needs to be programmed. Other Equipment keys can be programmed the same way.

- **To program Pool filtration**

1. Press the Program key.



2. Press the Pool key.



3. Press the Hours/Minutes key to set the START TIME.



4. Press the Enter key.



5. Press the Hours/Minutes key to set the RUN TIME.



6. Press the Program key to end.

Programming additional Run Times

It is possible to program up to four separate START TIME and RUN TIME's for each equipment key. Follow the previous example to step 2, then press the same equipment key until PROG 2 is displayed. Continue with steps 3-6 to enter the second START TIME and RUN TIME.

Programming a Time-out

By default, manually activated equipment will Time-out after 12 hours. However, it is possible to program a different Time-out period for each equipment key.

Follow Programming example, set START TIME to 0:00 hours. Set RUN TIME to the number of Hour/Minutes before equipment should Time-out.

Note If the RUN TIME is set for 24 hours, manually activated equipment will run continuously until manually turned off.

Programming a Once-only

The Once-only program is used to start the spa after a few hours, for example, you would like to have the spa start in 2 hours. Once the program executes, it is automatically erased.

Follow the programming example above, enter the time the Spa should start (START TIME) and set the RUN TIME to 0:00.

Canceling Programs

- **To cancel all of the programs**
 1. Press the Program key. The Display will show a row of blinking icons located immediately above the eight Equipment keys.
 2. Press and hold down the Cancel key for 5 seconds. After 5 seconds, a continuous alarm will sound (until you release the Cancel key), indicating that all of the programs have been erased.
 3. Press the Program key to end.
- **To cancel an individual program**
 1. When programming or reviewing a program, pressing the Cancel key will return the START TIME and RUN TIME to "0:00".

Setting the Time of Day

To set the TIME OF DAY, press the Hours/Minutes key to set correct time. Pay attention to the AM/PM symbol.

Remote Control at Spa key

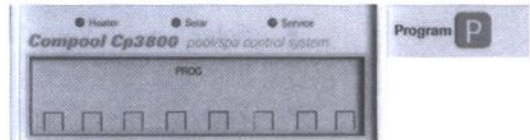
It is possible to disable the Spa-side Remote from your Control Panel by pressing the Remote Control at Spa key. The key is located behind the right-side door of the Control Panel. If the status lamp is on, the Spa-side Remote is operational. If the status lamp is off, the Spa-side Remote is disabled.

Calibration

The temperature sensors, backwash, and floor cleaner valve can be adjusted in the calibration mode. Allow pool to run 5 minutes before calibrating the Water Temperature Sensor.

- **To calibrate equipment**

1. Press the Program key.



2. Press the Spa Heat Source key.



3. Enter correct pool temperature and press Spa Heat Source key.



4. Enter correct solar temperature and press Spa Heat Source key.



5. Enter correct air temperature and press Spa Heat Source key.



6. Enter number of days between backwash and press Spa Heat Source key.



7. Enter number of minutes to backwash and press Spa Heat Source key.



8. Enter floor cleaner valve cycle time and press Spa Heat Source key.



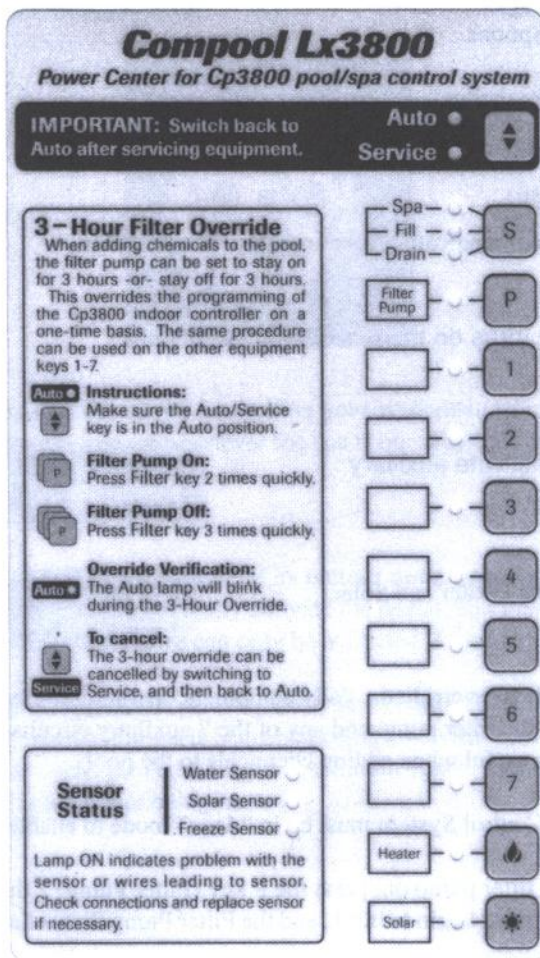
9. Press the Program key to end.

Note Solar, backwash, and floor cleaner valve adjustments are skipped if feature is not enabled.

Tips for calibrating the temperature sensors

- **Water Sensor** Let the pool run for 5 minutes to allow water temperature sensor to accurately pickup current pool water temperature.
- **Solar Sensor** Put a thermometer into direct sunlight and add 10 degrees to the measurement.
- **Freeze Sensor** Shade thermometer from direct sunlight.

Power Center

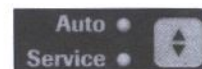


Equipment keys

Located at the equipment pad, the Power Center provides manual-override capability of your equipment.

Caution To prevent water damage, close Power Center door after use.

The Auto/Service key toggles the Power Center between the following modes.

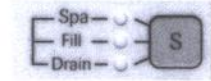


- **Auto** Control Panel and Spa-side Remote are enabled. Power Center keys are disabled.
- **Service** Power Center keys are enabled. Control Panel and Spa-side Remote are disabled.

A blinking “Auto” status lamp indicates that the equipment is undergoing a 3-Hour program override. See 3-hour Filter Override for details.

Caution Manual-activation of equipment from the Power Center, will override any of the built-in equipment interlocks and safety delay circuits.

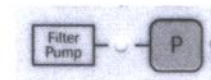
The S key toggles the Intake and Return Valve Actuators through the following options.



- Spa circulation.
- Fill spa.
- Drain spa.

No status lamp indicates valves are in pool circulation.

The P key turns on the Filter Pump.



Keys 1-7 activate auxiliary equipment.



Activates the Heater and Solar.



3 - Hour Filter Override

It is possible to override the daily equipment operating cycles, and manually activate (or deactivate) the filter pump and any of the 7 auxiliary circuits for a 3-Hour period. This is particularly useful when adding chemicals to the pool.

Note The Control System must be in “Auto” mode to enable these feature.

To turn the filter pump on, press the P key (Filter Pump) 2 times quickly. The “Auto” mode Status Lamp will begin to blink, and the Filter Pump Status Lamp will illuminate for the 3-Hour cycle.

To turn the filter pump off, press the P key (Filter Pump) 3 times quickly. The “Auto” mode Status Lamp will begin to blink, and the Filter Pump Status Lamp will not be illuminated during the 3-Hour cycle.

Sensor Status

If there is a fault with a temperature sensor, the appropriate status lamp will turn on. Check cable and connections to appropriate sensor. If necessary, replace Temperature Sensor.

Spa-side Remote



The Spa-side Remote allows controlling your equipment from the spa. The light in the middle of the switch will turn on whenever the spa is on. The light will blink when the spa is being heated.

Spa-side Heat Boost

If your Spa-side Remote has one of its buttons designated for the controlling the Heat Boost feature, it is possible to manually activate the heater, and boost the spa temperature for a five minute period. This feature can only be activated if the Spa-side Remote light is not blinking.

To activate the Heat Boost, press the designated button. The light will blink during the 5-minute cycle to indicate that the spa is being heated. If you wish to turn the heater off at any time during this 5-minute cycle, press the Heat Boost button again. The light will stop blinking to indicate that the spa is no longer being heated.