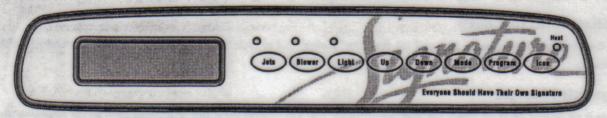# Signature Spas SIG500 Control Reference Card

Start-up

When your spa is powered up, you will see the words "SET CLOCK" flashing on the display. See Time of Day below for instructions. Your spa begins running in Economy mode, which means that the heater will only operate during the preset filter cycles. This setting is designed for periods of little or no spa use, but continues to filter twice a day and maintain water quality. Pressing the "Mode" pad switches the spa to Standard mode which automatically heats and maintains the water at 37.5°C or your desired set temperature.

Temperature Adjustment (16°C - 40°C)

When the "Up" or "Down" pad is touched once, the LCD will display the set temperature and the current temperature, as well as the words "SET TEMP." Each time either of these pads is pressed again, the set temperature will increase or decrease by .5°C, depending on which pad is pressed. After 3 seconds, the LCD will automatically display the current spa temperature.

Jets

Press the "Jets" pad once to activate the low speed of pump 1. Press the pad a second time to switch to the high speed of pump 1. Press the pad again, and high speed of pump 1 and pump 2 will run. Press the pad again and only pump 2 will run. Press the pad a final time to turn off all functions. If left on, the low speed of pump 1 will turn off after 2 hours. The high speed of pump 1 and pump 2 will turn off after 1 hour or your programmed time-out. When the heater is turned on, the low speed of pump 1 is automatically activated. If automatically activated, it cannot be turned off with the function pad; however, the high speed of the pump may be started.

Blower

Press the "Blower" pad to cycle through the highest to lowest blower setting, and then to turn off the blower. If left running, the blower automatically turns off after 20 minutes.

Light

Press the "Light" pad to cycle through the highest to lowest intensity, and then to turn off the light. Perimeter light stays on at any setting. If left on, the light and the perimeter light automatically turn off after 4 hours.

Standard and Economy Mode

Press the "Mode" pad to switch between modes. **Standard mode maintains the desired temperature at all times.** Economy mode only heats water during filter cycles.

Filter Cycle Programming

Filter cycle duration is programmable for 60, 90, 120, 150, or 180 minutes. The default cycle duration is 120 minutes. You may select between 1, 2, 3, or 4 filter cycles daily. The default is 2 cycles daily. You may also select filter cycle start times.

To program, press the "Program" pad and follow the steps displayed.

During filtration, the low speed of pump 1 and the ozone generator (if installed) will run. The blower will activate for 30 seconds to clean out the air channel.

Temperature Display Inversion

Press "Up" or "Down," then "Jets" to invert the temperature display. Press the same sequence to set back.

Time of Day

Press the "Icon" pad to view the time of day and to view the set temperature. The current spa temperature will automatically be displayed after 3 seconds. To set the time, press the "Program" pad, then "Up" or "Down". After either pad is pressed once, the time will begin changing in one-minute increments. Press either pad to stop the time from changing. Press the "mode" pad to enter your correct time into the system.

Locking the Panel and the Temperature

These pads must be pressed within 3 seconds to activate the lock. To lock the panel, press "Icon," "Icon," "Mode." Panel will read "ALL SPA FUNCTIONS LOCKED." To lock the temperature, press "Icon," "Icon," "Program", then "Icon," "Icon," "Mode." Panel will read "PROGRAM LOCKED."

Unlocking the Panel and the Temperature

To unlock the panel and the temperature, press "Mode," "Mode," "Icon" within 2 seconds.

Auxiliary Panel (optional)

Press the "Jets" pad to turn pump 2 on and off. Press the "Blower" pad to cycle through the highest to lowest intensity, and then to turn off the blower.

Diagnostic Messages

If there is no display on LCD, power has been cut off to the spa. The control panel will be disabled until power returns to the unit. Settings will be preserved for 30 days using a battery backup.

Overheat - "OVERHEAT XXX°C" flashes on the first line. "REDUCE HEAT-CHECK WATER TEMP BEFORE ENTERING" scrolls on the second line.
DO NOT ENTER THE WATER. If the spa water has reached 45°C, remove the spa cover to cool the water. Overheating may occur if the filter cycle is set too long. At 43°C, the spa should reset itself. If the high-limit sensor detects 48°C at the heater, the spa will shut down. When the heater cools to 43°C, press any button to reset the spa. If the spa will not reset, then shut off power to the spa and call your dealer or service organization.

Open Flow Switch - "LOW FLOW" flashes on the first line. "CHECK WATER LEVEL-CLEAN FILTERS" scrolls on the second line.
The spa will continue to operate, but the heater will not activate.

Stuck Closed Flow Switch - "FLOW SENSOR" flashes on the first line. "CALL FOR SERVICE" will display solid on the second line .
Contact your dealer or service organization.

Freeze Condition - "ICE xxx°C" flashes on the first line. (Current temp will show in place of xxx)
Freeze Protection - "FREEZE PROTECTION-PUMPS ACTIVATED" scrolls on the second line.
If the high-limit sensor detects 4°C at the heater, then all equipment is automatically activated to provide freeze protection. This is a normal spa function; no corrective action is necessary. The equipment stays on until the sensor detects 7°C at the heater. Freeze protection is enabled regardless of spa status. An optional additional freeze sensor may be added to protect against freeze conditions. See your dealer for details.

Hi Limit Sensor Faulty (Spa is deactivated) - "HI LIMIT SENSOR" flashes on the first line. "CALL FOR SERVICE" will display solid on the second line.
Call your dealer or service organization.

Water Temp Sensor Faulty (Spa is deactivated) - "TEMP SENSOR" flashes on the first line. "CALL FOR SERVICE" will display solid on the second line.
Call your dealer or service organization.

Prompt Messages

Every 2 days - "WATER BALANCE" flashes on the first line. "TEST SPA WATER FOR CORRECT CHEMICAL LEVELS-PUSH ICON TO RESET" scrolls on the second line.

Every 21 days - "DIRTY FILTER" flashes on the first line. "REMOVE FILTER AND RINSE WITH HOSE-PUSH ICON TO RESET" scrolls on the second line.

Every 60 days - "DIRTY FILTER" flashes on the first line. "REMOVE FILTER AND CLEAN IN SOLUTION-PUSH ICON TO RESET" scrolls on the second line.

Every 90 days - "CHANGE WATER" flashes on the first line. "TURN POWER OFF-DRAIN AND REFILL SPA-PUSH ICON TO RESET" scrolls on the second line.

Every 365 days - "OZONE" flashes on the first line. "IF USING OZONE GENERATOR-CHECK BULB" scrolls on the second line.

Every 730 days - "CARTRIDGE FILTER" flashes on the first line. "TIME TO REPLACE FILTER-CONTACT DEALER-PUSH ICON TO RESET" scrolls on the second line.