

IMPORTANT SAFETY INSTRUCTIONS  
READ ENTIRE MANUAL BEFORE INSTALLING SPA.  
PLEASE SAVE THIS MANUAL.



# **OWNER'S MANUAL**

## **8 Button Controller & Pack**

**These instructions apply to:  
D, DC, DE, & DEC PACKS**

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NOTE: For best results, read each step carefully and entirely before proceeding to the next.

## FILLING YOUR SPA

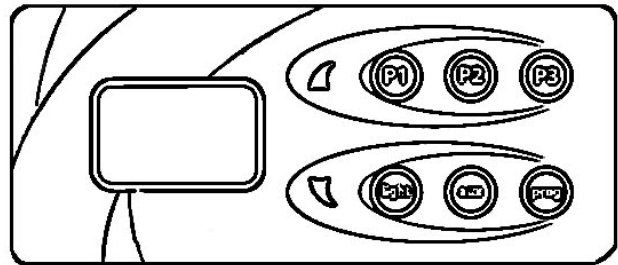
Wipe the interior of the spa with a damp, soft cloth to remove any residue that may be on the surface. Fill with a garden hose by inserting the nozzle of the hose in the filter inlet. (After filling is complete, remember to put the filter cartridge in place prior to starting the spa.) As the spa is filling, check in the equipment access area for any leaks. On occasion, it may be necessary to hand tighten a union fitting that may have come loose during transit. Continue to fill to the water line.

**WATER LINE** \_\_\_\_\_

NOTE: If your water is extremely hard, it is preferable to fill the spa halfway with hard water and the rest with softened water. Never fill the spa entirely with softened water.

## INITIAL START UP

Your spa has been programmed for your convenience. Once properly connected, the pump and heater will automatically come on and heat the spa to 102 F. Initial temperature, day, and time can be set and changed by following the instructions below. The Integrated Control System (I.C.S.) has a real time clock, with battery backup that is good for months. This allows a log of the spa operations over several days to be kept in flash memory.



The 8-Button Control Panel controls each function directly with dedicated buttons:

- "UP" - Increases the value on display
- "DOWN" - Decreases the value on display
- "JET1" - Press once for low speed, again for high speed, again for off
- "JET2" - Press once for low speed, again for high speed, again for off
- "JET3" - Press once for low speed, again for high speed, again for off
- "LIGHT" - Turns light on. If your spa has the Spectra Glow or Aquabrite option, press once for Spectra Glow and a second time for Aquabrite. Use UP/DOWN arrows within 10 seconds of having pressed the button to sequence through color changes.
- "AUX1" - Press once to turn on JET3 high speed if so equipped. Press again for off
- "AUX2" - Press once to turn on blower if so equipped. Press again for off
- "PROG" - Use to enter and process programming functions

### Important:

When your spa is activated or adjustment to temperature is made the spa calibrates itself. The spa will balance the temperature between the sensors for 2:30 minutes. During this you will notice the heater LED flashing.

## OPERATING INSTRUCTIONS

### DISPLAYING TIME OR TEMPERATURE

Pressing the "PROG" button will switch the display between current time and current water temperature.

### SETTING TEMPERATURE FOR A DAY.

1. Press the "PROG" button to display water temperature.
2. Press the "UP" or "DOWN" arrow to select the desired temperature.

NOTE: this setting is only valid for the rest of the day. Go to section SETTING PERMANENT TEMPERATURE BELOW to make permanent changes.

### PROGRAMMING MENU

Press and hold for five seconds to enter the programming menu.

Note that at any point in the sequence; press any other button to exit programming. Alternately, the display will return to normal if no button is pressed within 10 seconds.

### SELF-DIAGNOSTIC TOOL.

Your spa controller offers the latest state-of-the-art diagnostic tool. To start the test, press and hold "PROG" for 5 seconds. The display will show "dISC". Initiate the self-diagnostic test by pressing the "UP" button. This test will run the equipment sequentially for 2.5 minutes. Use the "DOWN" button to cancel the self-test at any time. Once the test completed, the message "GOOD" will be displayed if your spa operates properly. If a problem is found, the malfunction code will be displayed. Please contact your dealer for corrective action.

### HEAT DAYS

If your spa is located in a weekend home, or if your schedule allows utilization of the spa only on certain days of the week, you may decide for energy conservation reasons to lower the water temperature on the days you will not use the spa. Your spa is pre-programmed from factory and set to "All" days "hd=A". To choose different temperatures for different days of the week, follow the following steps:

Example: Let's assume that you have selected 100 degrees F as your desired temperature in the "Setting Permanent Temperature" procedure and Sunday as "1." You would now like to lower the water temperature to 80 degrees F on Mondays, Tuesdays, and Wednesdays.

1. Hold down "PROG" for 5 seconds, "dISC" will appear.
2. Press "PROG" to sequence to "hd=A" on the display.
4. Press "UP/DOWN" buttons to select the desired heat day. ("hd=2" (Monday))
5. Press "PROG" to display temperature. Hold down "DOWN" button to lower temperature to 80 degrees F.

Repeat steps 2, 3, & 4 to do the same for Tuesday and Wednesday. Normal display will resume after 10 seconds.

### SETTING PERMANENT TEMPERATURE:

1. While in the programming menu, press "PROG" to sequence to the display temperature.
2. Press UP/Down to select desired temperature.

NOTE: See procedure above if you would like to choose different temperatures for different days of the week.

### "F" FAHRENHEIT OR "C" CELSIUS DEGREES

Your spa has been preset to show the temperature in Fahrenheit "F" degrees. If you desire, you can change to Celsius "C" degrees (while in the programming menu) by pressing the UP/DOWN button to switch back and forth between "F" and "C" mode.

### H.E.E.T. PUMP (Option)

If your spa is equipped with our exclusive High Efficiency Energy Transfer (H.E.E.T) pump, similar to the principle of heat transfer pumps, the H.E.E.T. system transfers the heat generated by the circulation pump motor to the water 24 hours a day (Factory programming). As a protection against potential overheating, the H.E.E.T. pump continuous operation can be reduced to 12 or 6 hours. If so, the pump will turn off if the water temperature exceeds the desired temperature outside of those 12 or 6 hours. Set temperature will still be maintained automatically by the pump and heater coming back on when the water temperature falls 1°F under the desired temperature.

## OPERATING INSTRUCTIONS

To select your hours of continuous circulation, while in the programming menu ("PROG" pressed for 5 seconds), press "PROG" to sequence to "C=24" (circulation pump runs 24 hours a day, regardless of water temperature). Use down button to select 12 hours "C=12" (1am to 1pm) or 6 hours "C=6" (2hours on and 2 hours off) starting at 1am.

### HOURLY AND CALENDAR SETTING.

While in the programming menu ("PROG" pressed for 5 seconds), press "PROG" to sequence through the following displays to set the hour and calendar.

Hour Display - "H=24". Allows you to cycle between 12 and 24 hour time features. Use UP button to select 24 hour display, "H=24" or the Down button to display "H=12"

Hour - "12:00" notice hour flashing. - Use UP/DOWN buttons to change the hour to the current time "12:00" This should not be necessary unless the spa has not been powered up for several days.

Minutes - "12:00" notice the minutes flashing.  
Use UP/DOWN buttons to change the minutes to the current time

Month - "1 1" notice the month flashing.  
Use UP/DOWN buttons to change the month

Date - "1 1" notice the day flashing.  
Use UP/DOWN buttons to change the day.

Year - "2007" notice the year flashing.  
Use UP/DOWN buttons to change the year

### HEATER LOCK

You may want to prevent anyone from changing the water temperature you have chosen, while still allowing the use of any of the spa functions. While in the programming menu ("PROG" pressed for 5 seconds), press "PROG" to sequence to "HL" Heater Lock position. Use UP button for to Lock in the set temperature. Notice the lock icon solid. Press the "DOWN" button to remove the "Heat Lock" of the heater. Notice that the lock icon will disappear. All spa functions, including temperature adjustment will be accessible.

### PANEL LOCK

The spa panel can be locked to keep children or others from using any of the spa functions. To deactivate all buttons, while in the programming menu ("PROG" pressed for 5 seconds), press "PROG" to sequence to "PL" on the display. Then press the "UP" button. Notice the flashing lock icon. The panel is locked. To unlock the panel, press the "PROG" button again. "PL" will display press the up/down arrow. The flashing lock icon will disappear and all spa functions will be accessible.

### INVERTING DISPLAY

The topside display can be inverted to allow easier reading from inside the spa. To do so, while in the programming menu ("PROG" pressed for 5 seconds), press "PROG" to sequence to "FLIP" on the display. Use the UP or DOWN buttons to invert the display back and forth.

### SKIM-AWAY

(Only available with circ pump option)

Skim-Away is an automatic skimming action which takes place each day from 8am until 8:15am each morning and from 4pm until 4:15pm each afternoon. The primary pump turns on to skim surface oils and debris into the filter well cavity.

## OPERATING INSTRUCTIONS

### ADVANCED FEATURES SETUP

Note that at any point in the sequence, press any other button to exit programming. Alternately, the display will return to normal if no button is pressed within 10 seconds.

### SETUP ("SU")

Enter programming menu by holding "PROG" button for 5 seconds. Then press "PROG" to sequence to "SU" on the display. To access the advanced features menu, while in the "SU" display, hold the "PROG" button for 10 seconds.

### PUMP SETUP

Your spa is factory programmed in accordance with the spa model for the number of pumps it offers. To ensure that pump setting is correct or to change it if needed, press "PROG" to sequence to "P= XX". Use UP/DOWN buttons to select the number of pumps installed. (Note: that the "C" following each number designates the inclusion of a circulation pump).

P=3C or 2C or 1C - (3, or 2 or 1 therapy pump plus circulation pump)

P=3 or 2 or 1 - (3, or 2, or 1 therapy pump)

### SETTING THE SERVICE AMPERAGE DRAW

While in "SU" programming menu, press "PROG" to sequence to S=3 on the display. S=3" is the factory default. Use the "UP" or "DOWN" arrows to change the pump setting:

S=3 Indicates that the heater will shut off if four pumps are on high speed. (The blower-air pump is included in the count.

S=2 Indicates that the heater will shut off if three pumps are on high speed at the same time.

S=1 Indicates that the heater will shut off if two pumps are turned on high speed at the same time.

S=0 Indicates that the heater will shut off if one pump is turned on high speed.

Service level S=0 is only setting for 120v 60Hz and 230V 3 phase 50Hz spas.

Once the service level has been set, it does not have to be set each time. It will be entered into the system memory.

### STEREO OPTION

Country Code Setting - Advance the programming sequence to display. "CO=U" (default setting). Use the "UP" or "DOWN" buttons to change the country, as required: U for USA, E for Europe, or J for Japan

Stereo Access and Volume Control - To access the stereo, press "UP" and "DOWN" buttons on the spa control pad simultaneously. The stereo will turn on, and you will automatically be taken to the volume control. Your volume range is L0 through L10 (L=00 means off and L=10 means the loudest). To adjust the volume level press "UP" or "DOWN" arrows.

Bass - While in the volume mode, press "PROG". Bass range is B=0 through B=10.

Frequency Source - From Bass Mode, press "PROG" to select source. S=F equals F.M. or S=L equals line input. If FM source is selected, press "PROG" to advance to frequency and selection or use "UP" or "DOWN" keys to scan stations. In S=L you can connect optional CD player, or any other personal stereo device, such as a walkman or MP3.

### BLOWER AND JET PURGE

For the self-test function to work properly, the blower setting must be set correctly: "b=b" if there is a blower & "b=-" if there is no blower. If the blower setting is incorrect, while in "SU" programming mode, press "PROG" to sequence to "b=b" or "b=-". Use UP/DOWN buttons to select the correct setting.

Each day, at 10am and 6pm, the blower and jet pump(s) will automatically run for one minute to circulate potential stale water in the piping. This is a normal function of the spa. "BJ2P" will be displayed while this takes place.

Note: Spa will skip sequence if any other function is operating.

### PRIMING

Normal setting is "Pr=P" This indicates that all pumps will turn on for 2 minutes to insure proper priming when the spa is powered up, initially or after power interruption. This setting should remain in that mode.

# I.C.S. PROGRAMMING CHART

Button Operation

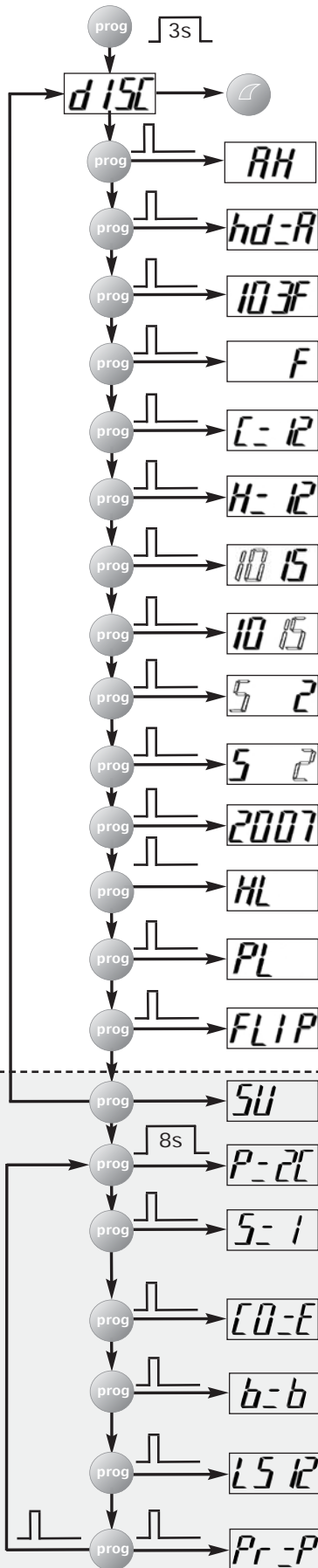
8s Press button for 8 seconds

For Pump 3

For Blower

Underwater LEDs

Underwater LEDs & Surround Lights



Self Test (2 min.)

DOM

EXP

Auto Heat (AH) or Economy (ECO)

ECO

ECO

Heating Days: 1 / 2 / 3 / 4 / 5 / 6 / 7 / A

hd-R

hd-R

Temp shows: \_\_\_°F or \_\_\_°C

102F

38C

F / C

F

C

Circulation: 6h / 12h / 24h

C-12

C-12

⌚ Clock Hours Show: 12 / 24

H-12

H-12

⌚ Clock Hours Set

10 15

⌚ Clock Minutes Set

10 15

⌚ Calendar: Month setting (1 - 12)

5 2

⌚ Calendar: Day setting (1 - 31)

5 2

DOM

EXP

⌚ Calendar: Year Set

2007

H-12

Heat Lock: to & to

HL

HL

Panel Lock: to & to

PL

PL

Display Flip: FLIP or d177

FLIP

FLIP

**DISCLAIMER: ADVANCED SETTINGS  
DO NOT ENTER SECTION UNLESS  
INSTRUCTED TO BY QUALIFIED  
TECHNICIAN**

Setup Menu

DOM

EXP

Pumps: 1 / 1C / 2 / 2C / 3 / 3C

Per Spa Pack

Service Level: Number of pumps allowed at High Speed with the heater "On"

115/215 S-0

All others S-1 | S-3

S-2

Country (Stereo)

U=US, E=Europe  
J=Japan

CO-U

CO-E | CO-J

Blower: b = Activate, - = Deactivate

100/600

b--

b--

200/700

b-b

b-b

Pump 2

Pump Cycle: LS12 = 2 speeds LS1- = 1 speed

LS 12

LS 12

Prime Cycle: P = Yes - = No

Pr-P

Pr-P













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