IMPORTANT SAFETY INSTRUCTIONS
READ ENTIRE MANUAL BEFORE INSTALLING SPA.
PLEASE SAVE THIS MANUAL
xSTREAM PRO AND xSTREAM DUO-PRO

DM Industries, Ltd.
OWNER’S MANUAL

DM INDUSTRIES, LTD.
2320 N.W. 147th Street Miami, Florida 33054

health and relaxation for life
OWNER’S MANUAL

xStream Pro Spa & xStream Duo Pro Spa

OWNER’S RECORD

DATE PURCHASED: ________________________________
DATE INSTALLED: ________________________________
DEALER: _______________________________________
ADDRESS: _____________________________________
_________________________________________________
TELEPHONE: ____________________________________
SERIAL #: _____________________________________
MODEL #: _____________________________________
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1. **WARNING** - To reduce the risk of injury. Do not permit children to use this product unless they are closely supervised at all times.

2. **DANGER** - Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this spa unless they are supervised at all times.

3. **DANGER** - Risk of injury. The filter in this spa is sized to match the specific water flow created by the pump. Should the need arise to replace the filter or the pump, be sure that the flow rates are compatible. Never operate the spa if the filter is broken or missing. Never replace a filter with one rated less than the flow rate on the original filter.

4. **DANGER** – Risk of Injury

   Do not remove suction fittings. The suction fittings on this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate the spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

5. **DANGER** - Risk of electrical shock:

   A Ground terminal (pressure wire connector) is provided on the control box inside the unit to permit connection of a minimum No. 8 AWG (8.2mm²) solid copper bonding conductor between this point and any metal equipment, metal water pipe, metal enclosure of electrical equipment, or conduit within five feet (1.5m) of the unit.

6. **DANGER** - Risk of Electric Shock. Install the spa at least 5 feet (1.5 m) from all metal surfaces. A spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum No. 8 AWG (8.4) solid copper conductor to the wire connector on the control box which is provided for this purpose.

7. **DANGER** - Risk of Electric Shock. Do not permit any electric appliance, such as a light, telephone, radio, or television, within 5 feet (1.5 m) of a spa.

8. **WARNING** - To reduce the risk of injury:

   A. The water in a spa should never exceed 40° C (104° F). Water temperatures between 38° C (100° F) and 40° C (104° F) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

   B. Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 38° C (100° F).

   C. Before entering a spa the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices varies.

   D. The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.

   E. Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.

   F. Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

9. **WARNING** - Prolonged immersion in water that is warmer than normal body temperature can result in a dangerous condition known as: HYPERTHERMIA. The causes, symptoms, and effects of hyperthermia may be described as follows: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6 degrees F. The symptoms of hyperthermia include dizziness, fainting, drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include: (1) unawareness of impending hazard, (2) failure to perceive heat, (3) failure to recognize the need to exit the spa, (4) physical inability to exit the spa, (5) fetal damage in pregnant women, and (6) unconsciousness resulting in a danger of drowning.

10. **WARNING**

    • The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

    • Persons taking medications which induce drowsiness such as tranquilizers, antihistamines or anticoagulants should not use the spa.

    • Pregnant women and persons with a medical history of heart disease, circulatory problems, diabetes or high blood pressure should consult their physician before using the spa.

    • Children are especially sensitive to hot water. At no time should children have unsupervised access to the spa. The use of elevated decking may encourage children to climb onto the thermal cover — IT IS NOT DESIGNED AS A SAFETY OR CHILD RESISTANT COVER! The Spa comes with a thermal cover which is provided with locking straps. INSTALL the locks for your child's safety.
WARNING LABEL INSTALLATION

WARNING

DURING PREGNANCY, SOAKING IN HOT WATER MAY CAUSE DAMAGE TO THE FETUS.
LIMIT USE TO 10 MINUTES AT A TIME.

PREVENT DROWNING
SPA HEAT SPEEDS UP EFFECTS OF ALCOHOL, DRUGS, OR MEDICINE AND CAN CAUSE UNCONSCIOUSNESS.
IMMEDIATELY LEAVE SPA IF UNCOMFORTABLE OR SLEEPY.

PREVENT CHILD DROWNING
WATER ATTRACTS CHILDREN.
 ALWAYS ATTACH A SPA COVER AFTER EACH USE.

WARNING LABEL

Position warning label in visible area prior to entry of spa.

For instructions, please refer to posted warnings located on page 1

If replacements are needed please contact local dealer and order using part number 0461536 - Warning Label
Reading and understanding these warnings will allow you to reduce the risk of causing inadvertent damage to your spa, your surroundings, or yourself. Read these warnings carefully.

**DO** Make sure the spa is connected to a Ground Fault Circuit Interrupter (GFCI). Test the GFCI before each use.

**DO** Test the water with your hand before entering the spa to be sure it is comfortable.

**DO** Remember that wet surfaces can be slippery. Take care when entering and existing the spa. Only enter by way of the step(s) in the spa. Do not step on edges or filter lids.

**DO** Keep the thermal cover on the spa when it is not in use, empty or full.

**DO** Maintain proper water pH (7.4-7.6) and clean filter cartridge weekly. Refer to Water Maintenance section.

**DO** Take steps to prevent the intrusion of sand and dirt into the spa.

**DO** Maintain water level to 1" above the highest jets. The jets can spray water out of the spa if the water level becomes too low.

**DO** Shut off circuit breaker to the spa before draining the spa, while it is empty and while filling it.

**DO** Place only on surfaces that can withstand the floor loading requirements of your tub. If you do not know the rating of your floor, consult an architect or engineer before filling.

**DO** Install the spa only on floors or areas that can withstand repeated exposure to water (tile, brick, etc.)

**DO** Clean the filter cartridge weekly.

**DO NOT** Store chemicals in the spa's equipment compartment.

**DO NOT** Open the electrical control box. They are no user serviceable parts inside.

**DO NOT** Operate the pump(s) on hi-speed for extended periods of time with the cover on. Extended hi-speed pump operation will cause a slow heat build-up due to water friction, which could trip the spa's hi-limit thermostat.

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**WARNING:** The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

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### MANUFACTURER'S DO'S AND DON'TS

**SITE SELECTION**

Structure: The spa should always be placed on a structurally strong, smooth and level surface. Concrete is preferred.

The xStream Duo Pro Spa has a loading capacity of 175lbs. - 190lbs. /sq. ft

**LOCAL CODES:**

There may be certain restrictions and/or requirements that are particular to your locality.

**MAINTENANCE:**

Trees, lawn, placement surfaces, etc. can create extra work in keeping your spa area clean and safe. Please be advised that placing your spa near dirt or trees may increase the amount of debris inadvertently brought into the spa water on the feet of users or by the wind. The intrusion of this debris into the spa water may cause harm to your equipment as well as the spa surface and is not covered under warranty.

**PRIVACY AND WIND SHIELDING:**

A sheltered environment can result in lower operating and maintenance costs. You may also want to take into consideration your privacy during times of the year when trees may be barren, having the spa located where you have a view of a peaceful sunset, where you may be able to catch soothing breezes, or your view and the view of your neighbors may also be something that you should address prior to the final installation of your spa.

**CLEARANCES**

**CHECK THE FOLLOWING AREAS PRIOR TO SPA DELIVERY** *

1. **TREE BRANCHES** - Clearance for spa passage.
2. **TIGHT CORNERS** - Make sure there is space to maneuver.
3. **STORAGE SHEDS, DOG HOUSES, WOOD PILES** - Remove out of the way.
4. **OVERHANGS AND GUTTERS** - Anything overhead, as well as drain pipe locations, must allow for spa passage.

*Most installations require a crane...Estimated dry weight of spa is 3700lbs.

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**SAVE THESE INSTRUCTIONS**
INSTALLING THE SPA COVER

1. Position the cover squarely over the spa.
2. Position the locks for the tie-downs on the sides of the spa. You should allow approximately 1/2” to 3/4” slack in the straps for ease of insertion into the locks and to allow for material shrinkage during temperature changes.

3. Using the screws provided, attach the locks and insert the cover tie-down straps. Utilizing the cover anytime the spa is not in use will reduce heat loss and thereby reduce the amount of running time required to make up that loss by the heating system.

Keep cover fastened down at all times when not in use.

DANGER - RISK OF INJURY
To reduce the risk of potential injury:
1. Never leave a spa uncovered or unattended.
2. Never leave a spa cover unlocked.
3. Do not stand, sit, or lie on the cover.

ALWAYS REMOVE SNOW FROM THE COVER. THE COVER HAS NOT BEEN DESIGNED TO SUSPEND THE WEIGHT OF WET SNOW.
Speakers (Optional)

Power Cable Access

Waterfall

Waterfall Valve

Speakers (Optional)

Therapy Section (see pages 5 - 8)

Therapy drain

Power Cable Access

Dual Access Panel

Therapy Section (see pages 5 - 8)

Swim Section (see pages 9 - 13)

Swim Section (see pages 9 - 13)

Excercise Bar (Optional)

100 sq. ft. Filter Element

Speakers (Optional)

Speakers (Optional)

Dual Access Panel

Drain located here

Speakers (Optional)
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.

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.

TESTING THE GFCI
The GFCI is a very important safety device and the National Electric Code requires that all spas are GFCI protected.

The GFCI shuts off the electricity in a fraction of a second if there is a short anywhere in the system. It is recommended that the GFCI be tested prior to each use. Test as follows:

1. Push the TEST button on the GFCI. The RESET button will trip out, the top side digital control LED display will go out. If this does not happen, DO NOT USE spa. CALL your dealer FOR ASSISTANCE.

2. If the GFCI tests properly, firmly push the RESET button back into place. The top side digital control LED display will come back on. If this does not happen, DO NOT USE spa. CALL your dealer FOR ASSISTANCE.

3. If the GFCI trips by itself at any time, firmly press the RESET button back into place and perform the above tests. If this happens more than once, DO NOT USE spa. CALL your dealer FOR ASSISTANCE.

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

The L60 Control Panel controls each function directly with a dedicated button. A brief description of each button is as follows:

- "UP" - Increases the value on display
- "DOWN" - Decreases the value on display
- "JET" - Press once for on, then 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.
- "N/A"
- "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 the calibration process you will notice the heater LED flashing.
A. DISPLAYING TIME OR TEMPERATURE
Pressing the "PROG" button will switch the display between current time and current water temperature.

B. 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.

C. 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.

D. 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 "dlSC". 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 is completed, the message " " 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.

E. 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 the 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, "dlSC" will appear.
2. Press "PROG" to sequence to "hd=A" on the display.

3. Press "UP/DOWN" buttons to select the desired heat day. ("hd=2" (Monday))
4. Press "PROG" to display temperature. Hold down "DOWN" button to lower temperature to 80 degrees F.

Repeat steps 3, 4, & 5 to do the same for Tuesday and Wednesday. Normal display will resumes 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. "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.

G. HOUR AND CALENDAR SETTING.
While in the programming menu ("PROG" pressed for 5 seconds), press "PRG" 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"

- **Minutes** - "12:0000" notice the minutes flashing. - Use UP/DOWN buttons to change the minutes to the current time

- **Month** - "111" notice the month flashing. - Use UP/DOWN buttons to change the month.

- **Date** - "1 11" notice the day flashing. - Use UP/DOWN buttons to change the day.

- **Year** - "22000077" notice the year flashing. - Use UP/DOWN buttons to change the year

**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.
ADVANCED OPERATING INSTRUCTIONS

(Do not enter section unless asked by a qualified technician)

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 8 seconds. Then press "PROG" to sequence to "SU" on the display. To access the advances 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.
xs=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.

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

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.
PROGRAMMING CHART

**DM INDUSTRIES**

- Press hold button for 8 seconds

**I.C.S. PROGRAMMING CHART**

- Press hold button for 8 seconds
- **AUX** For Blower option
- **LIGHT** Underwater LEDs

- **PROG**
- **8s**
- **d**
- **3s**
- **L**

Self Test (2 min.)

Auto Heat (AH) or Economy (ECO)

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

Temp shows: ___°F or ___°C

F / C

Clock Hours Show: 12 / 24

Clock Hours Set

Clock Minutes Set

Calendar: Month setting (1 - 12)

Calendar: Day setting (1 - 31)

Calendar: Year Set

Display Flip: **FLIP** or **d177**

**DISCLAIMER:** ADVANCED SETTING
DO NOT ENTER SECTION UNLESS ASKED BY A QUALIFIED TECHNICIAN

**Setup Menu**

- **SU**
- **P-2C**
- **S-1**
- **C0-E**
- **b-b**
- **Pr-P**

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

- Service Level: Number of pumps allowed at High Speed with the heater “On”

- Country (Stereo) U=US, E=Europe J=Japan

- Blower: b = Activate, - = Deactivate

- Prime Cycle: P = Yes - = No
The 8-Button Control Panel controls each function directly with dedicated buttons:

- **"UP"** - Increases the value on display
- **"DOWN"** - Decreases the value on display
- **"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 BADU Jets. Press again for off.
- **"AUX2"** - N/A
- **"PROG"** - Use to enter and programming process 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.

**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.
3. Press "UP/DOWN" buttons to select the desired heat day. ("hd=2" (Monday)
4. 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.
SWIM OPERATING INSTRUCTIONS

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.

CIRCULATION PUMP
Your spa is equipped with a circulation pump that continuously circulates in a relaxation mode. As needed the heater will activate to generate the heat necessary to get your desired water temperature. The circulation pump motor is set to circulate the water 24 hours a day (Factory programming). As a protection against potential overheating, the pump's 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.

To select your hours of continuous circulation, while in the programming menu ("PROG" pressed until "DISC" appears), continue to press "PROG" until sequence to "C=24" (circulation pump runs 24 hours a day, regardless of water temperature) appears. 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.

HOUR 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"

Minute Display - "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 "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 "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
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.
BADU STREAM II JETS

To start swimming, jogging or running it is suggested that the two nozzles are pointed slightly inward and slightly upward so that the water "breaks" approximately 3ft. in front of the BADU STREAM II. Start the jets by pressing the “AUX1” button, if desired, you can add force via the air control.

Consult your physician before attempting any strenuous exercise.

The air regulator permits a controlled mixture of air into the water flow and creates a unique, invigorating, bubble bath effect. It will also add additional resistance to swim against.

BADU STREAM II’s adjustable flow nozzle enables swimmer to regulate the volume of water released through the jet(s). Turning the nozzle clockwise reduces the flow.

The swivel nozzle(s) of the BADU STREAM II can be positioned in various directions, allowing swimmers to use various swim styles.

Under certain conditions it is possible that the current "drifts off" the the left or the right from the middle due to water bouncing off the back wall. In the event that it interferes with your swimming action, turn unit off for a few minutes and restart.

WARNING! Do not use or operate the BADU STREAM II if the square, anti-entrapment cover is missing, broken, or loose.

TURNING ON THE LIGHT

Your spa has 2 underwater L.E.D. lights. A single touch of the Light button turns the light on. A second touch will turn the light off. If left on, the light will automatically turn off after three (3) hours of continuous operation.

AQUABRITET (DIGI-CHROMIUM)(Optional)

The LED Digi-chromium option is activated by pressing the light button on the spa side control.

To program the lights, press the light button.

Once the display reads L=XX, release the button.

Using the “PROG” button, you may select the different settings.

Review each setting to determine which is best suited for you. The selection may be changed at any time by repeating the previous steps.

<table>
<thead>
<tr>
<th>L</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Off</td>
</tr>
<tr>
<td>01</td>
<td>Red/Blue/Green</td>
</tr>
<tr>
<td>02</td>
<td>Blue</td>
</tr>
<tr>
<td>03</td>
<td>Green</td>
</tr>
<tr>
<td>04</td>
<td>Red</td>
</tr>
<tr>
<td>05</td>
<td>Strobe effect Red/Green/Blue</td>
</tr>
<tr>
<td>06</td>
<td>Gradual change Red/Green/Blue</td>
</tr>
<tr>
<td>07</td>
<td>Combination Colors: Blue/Green</td>
</tr>
<tr>
<td>08</td>
<td>Combination Colors: Red/Green</td>
</tr>
<tr>
<td>09</td>
<td>Combination Colors: Red/Blue</td>
</tr>
<tr>
<td>10</td>
<td>Music (Stereo must be on to work)</td>
</tr>
</tbody>
</table>

The lighting system will automatically turn itself off after three (3) hours.

STEREO (OPTION)

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.
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 advances 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=0 on the display. S=0" 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.
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. (Swim spa must be programmed for S=0)

Service level S=0 is only setting for 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

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.
**SWIM PROGRAMMING CHART**

- **Self Test (2 min.)**
- **Auto Heat (AH) or Economy (ECO)**
- **Heating Days: 1 / 2 / 3 / 4 / 5 / 6 / 7 / A**
- **Temp shows: ___°F or ___°C**
- **F / C**
- **Circulation: 6h / 12h / 24h**
- **Clock Hours Show: 12 / 24**
- **Clock Hours Set**
- **Clock Minutes Set**
- **Calendar: Month setting (1 - 12)**
- **Calendar: Day setting (1 - 31)**
- **Calendar: Year Set**
- **Display Flip:**
- **Pump 2 Cycle:**
- **Prime Cycle:**

**Setup Menu**

- **Pumps:** 1 / 1C / 2 / 2C / 3 / 3C

- **Service Level:** Number of pumps allowed at High Speed with the heater “On”

- **Country (Stereo)**
  - U=US, E=Europe, J=Japan

- **Blower:** b = Activate, - = Deactivate

- **Prime Cycle:** P = Yes, - = No

**Button Operation**

- **Press button for 8 seconds**
- **For Pump 3**
- **For Blower**

**Underwater LEDs & Surround Lights**

**DISCLAIMER:**

ADVANCED SETTINGS

DO NOT ENTER SECTION UNLESS INSTRUCTED TO BY QUALIFIED TECHNICIAN

**Page 13**
Your spa is designed with a unique jet system to allow you to select a wide variety of massage patterns. The following is a description of the various types of jets and their operation you may use to tailor your spa to your specific massage needs.

**A) EURO CLUSTER MASSAGE JET**

These jets are used for back, neck and shoulder massage. They deliver a firm pinpoint jet stream of massaging action that are directed to specific areas of the neck or shoulders. They can be pressure controlled by rotating the jet face or by opening and closing the air control valves.

For cleaning purposes, these jet faces can be removed by grabbing outer face and pulling away from jet body. Re-install it by pushing the face back in place.

**B) DIRECTIONAL MASSAGE JETS**

When the pump is on the Directional Quad jets will be operational. The nozzle of the Directional Quad jets can be adjusted to direct the flow to specific parts of your body.

For cleaning purposes, these jet faces can be removed by depressing locking tab and pulling away from jet body. Re-install it by pushing the face back in place.

**C) AIR CONTROL**

The Air Controls are used to introduce air into the water jet stream. They allow the user to increase (open) jet pressure or decrease (close) jet pressure as desired.

**D) WATERFALL VALVE**

The valve operates a water volume control for the lighted waterfall.
SAFETY FEATURES

A. Freeze Protection
If the temperature in the spa plumbing falls below 50 degrees Fahrenheit (10 degrees celsius), the water pump will turn on low speed and run for 30 seconds. After 30 seconds, if the water is still at 50 F, the heater will turn on and raise the temperature 10 Degrees. The top side control will display the message "ICE" to indicate potential freeze conditions.

B. Flow Protection
If the flow of water through the heater is insufficient, the spa controller will automatically turn off the heater to prevent overheating. The display will show "FLO", indicating a flow restriction caused by a clogged filter or pump impeller, a malfunction of the pressure switch or a defective pump motor. Refer to the Trouble Shooting Chart. If you cannot pinpoint the cause, Call Your Dealer for technical assistance.

C. Overheat Protection.
If a malfunction occurs and the spa water temperature reaches 112F, the pump and heater will turn off. DO NOT ENTER THE WATER. Remove the cover and allow the water temperature to cool down to 104 F. Reset the system by holding the "UP" arrow for 5 seconds. The pump and heater will start normal operation. If this happens a second time in a row, TURN THE POWER TO THE SPA OFF AND CALL YOUR DEALER FOR ASSISTANCE.

If there is an overheat condition in the spa heater, the display will show the message "HILI". DO NOT ENTER THE WATER. Remove the cover and allow the water to cool down to 104F. Then reset the system by holding down the "UP" button for 5 seconds. If the "HILI" message returns, TURN THE POWER TO THE SPA OFF AND CALL YOUR DEALER FOR ASSISTANCE.
FILTER MAINTENANCE

Your Spa is designed with the most efficient top loading filtration system in the industry. Filter maintenance is the most critical factor in keeping your Spa water clean.

TO CLEAN THE FILTER

(NOTE: Never run the Spa without a filter installed)

Remove the skimmer basket and the cartridge. Spray it with a garden hose. It will be necessary to rotate the cartridge while spraying so as to thoroughly remove the debris lodged between the filter pleats.

After allowing to dry, inspect the cartridge for calcium deposit (scaling) or an oil film. Rapid mineral build-up from hard water, or oil build-up from the use of oil-based water scent or body oil may coat the filter cartridge. A filter cleaner to soak the cartridge is available from your local Spa dealer and should be used as part of your spa maintenance. Use a rag to remove any debris at the bottom of the filter housing. Replace the cartridge in the filter housing. We recommend the use of a spare filter. This way one can be soaking and cleaning while you continue to enjoy the use of your Spa.

DRAINING YOUR SPA

Detergent residues from bathing suits as well as soap film from your body may gradually accumulate in the water. Foam inhibitors will suppress the foam but will not remove the soap from the water. Eventually, the soap build-up in the water will concentrate enough to leave an unclean feeling on the user’s skin, causing sudsing and make the water impossible to clarify. Depending on the amount of soap input, the Spa water should last between four to six months.

WINTERIZING YOUR SPA

Your Spa has been designed and engineered for year-round use in any climate. If the spa will not be used for prolonged periods of time, contact your local authorized service station to properly drain and protect your Spa.

EXCEL-PLUS CABINET MAINTENANCE

The exterior of your xStream Duo Pro Spa cabinet is made from a newly formulated high strength material that is factory stained and sealed. Depending on the location and exposure of the Spa to nature’s elements, it is recommended that you clean the cabinet once or twice a year with warm water and a mild soap.

CARE OF ACRYLIC SURFACE

To maintain the surface of your Spa, simply clean with a soft damp cloth (a mild detergent is okay) or with any glass cleaner. DO NOT clean the surface with any type of abrasive as it will dull the surface and natural luster of the acrylic. DO NOT use any type of oil based solvent. Such products can be very harmful to the surface of the Spa and will void the surface warranty of the Spa.

COVER MAINTENANCE

Your cover is manufactured from a durable marine grade, UV resistant material. Even so, monthly cleaning and periodic conditioning is recommended to maintain its beauty. To clean and condition the vinyl cover: Lightly spray the cover with a garden hose to rinse it and remove the debris. Using a large sponge or soft cloth and a mild soap solution (1 teaspoon dish washing liquid with 2 gallons of water), scrub lightly in circular motion. Then rinse it thoroughly with plenty of water. Condition the vinyl after cleaning by applying a thin film of vinyl conditioner. NOTE: To remove tree saps, use lighter fluid (not charcoal lighter but the kind used in cigarette lighters). Use sparingly and rinse with mild soap solution afterwards. Wipe dry.
## Resetting Your Spa

Like your PC at home, your spa electronics could get corrupted by electrical surges and operate improperly. If your spa system is not operating properly or shows any of the following messages, please reset it before calling for service to see if the malfunction disappears.

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>MEANING</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spa Inoperative</td>
<td>Power failure outside of spa.</td>
<td>Check power source Breaker and GFCI; Reset breaker/GFCI. Call Electrician if it will not start.</td>
</tr>
<tr>
<td>MESSAGE</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>FLO</strong> FLO</td>
<td>Lack of water flow through Heater.</td>
<td>Remove filter and check for debris in filter and filter adapter. If &quot;FLO&quot; remains check for prime the pump(s).</td>
</tr>
<tr>
<td><strong>HILI</strong> HILI</td>
<td>HIILI message appears if the high-limit sensor detects 112F at the spa heater. DO NOT ENTER THE WATER.</td>
<td>Remove the spa cover and let the water temperature cool down to 104F. If your spa reaches 112F again, contact your dealer for service. No action required.</td>
</tr>
<tr>
<td><strong>ICE</strong> ICE</td>
<td>Water in plumbing below 50 F Call for service if spa fails to come on.</td>
<td>Pump will come on to circulate water and then heater. Heater will stay on until water reaches 60 F or set temperature.</td>
</tr>
<tr>
<td><strong>LS</strong> LS</td>
<td>Water temperature sensor</td>
<td>Reset spa. If message comes back, call for service.</td>
</tr>
<tr>
<td><strong>SS</strong> SS</td>
<td>High Limit sensor</td>
<td>Reset spa. If message comes back, call for service.</td>
</tr>
<tr>
<td><strong>LS-5</strong> REL</td>
<td>Open or shorted relay</td>
<td>Reset spa. If message comes back, call for service.</td>
</tr>
<tr>
<td><strong>CS</strong> CS</td>
<td>Current Sensor</td>
<td>Current sensor Inoperable. Check that it is connected to the board.</td>
</tr>
<tr>
<td><strong>CP</strong> CP</td>
<td>Circulation pump may be faulty</td>
<td>Check that circulation pump is plugged in. If message comes back, call for service</td>
</tr>
<tr>
<td><strong>REL</strong> REL</td>
<td>Relay Error</td>
<td>Relay not closing correctly. Reset. If message comes back, call for service.</td>
</tr>
<tr>
<td><strong>HC</strong> HC</td>
<td>Heater Error</td>
<td>Replace Heater</td>
</tr>
<tr>
<td><strong>PI</strong> PI</td>
<td>Pump 1</td>
<td>Check plug for pump 1. Possible loose connection.</td>
</tr>
<tr>
<td><strong>FI</strong> FI</td>
<td>Blower Fuse</td>
<td>Replace fuse 1 or fuse 2</td>
</tr>
<tr>
<td><strong>BUS</strong> BUS</td>
<td>Communication Problem</td>
<td>Reset spa. If message comes back, call for service.</td>
</tr>
</tbody>
</table>
MAINTENANCE LOG

Use this section to keep a record of when you perform any maintenance on your spa.