

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



xStream



DM Industries, Ltd.

OWNER'S MANUAL

for models

xStream • xStreamPro • xStreamDuoPro

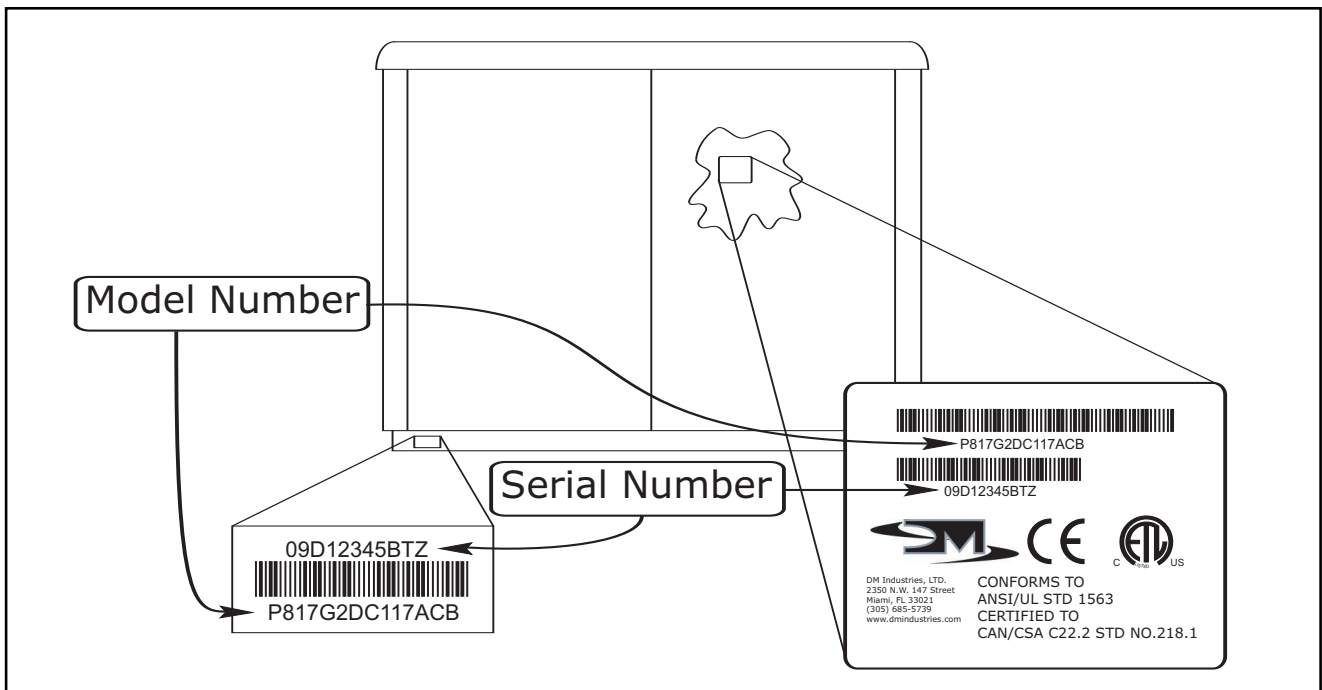
DM INDUSTRIES, LTD.

2320 N.W. 147th Street Miami, Florida 33054

www.dmindustries.com

h e a l t h a n d r e l a x a t i o n f o r l i f e

ID PLATES ARE LOCATED IN THE FRONT OF THE SPA.
A SMALL ID TAG IS FOUND IN THE BASE OF THE UNIT,
AND A COMPLETE ID TAG IS FOUND ONCE THE FRONT
PANELS ARE REMOVED.



xStream

OWNER'S MANUAL

for models

xStream • xStream Pro • xStream Duo Pro

OWNER'S RECORD

DATE PURCHASED: _____

DATE INSTALLED: _____

DEALER: _____

ADDRESS: _____

TELEPHONE: _____

SERIAL #: _____

MODEL #: _____

xStream xStream Pro xStream Duo Pro

TABLE OF CONTENTS

GENERAL INFORMATION

- Important Safety Instructions 1
- Manufacturer's Do's and Don'ts 2

SET UP AND INSTALLATION

- Set Up and Installation Instructions. 2
- Warning Label Installation 3
- Cover installation. 3
- Spa Schematics and Part Numbers 4
- Filling the Spa 5
- Testing GFCI 5

xSTREAM DUO PRO OPERATION

THERAPY OPERATION

- Initial Startup & Operation 6
- Displaying Time or Temperature 6
- Setting Temperature for the Day 6
 - Therapy Programming Instructions 7*
- Self-Diagnostic Tool 7
- Heating 7
- Setting Filtration Cycles. 7
- Setting Heat Days & Temperature 8
- F or C Degrees 8
- Clock & Calendar Setting. 8
- Inverting Display 8
- Therapy Advanced Programming Instructions . . 9
- Therapy Control Programming Chart. 21

SWIM OPERATION

- Initial Startup & Operation 10
- Displaying Time or Temperature 10
- Setting Temperature for the Day 11
- Badu Stream Jets II 11
- V-Stream Jets 11
- Operating the Lights 12
- Programming AquaBrite/Chromatherapy. . . . 12
- Operating the Stereo. 12

SWIM OPERATION *(continued)*

- Swim Programming Instructions 13*
- Setting Heat Days & Permanent Temperature 13
- F or C Degrees. 13
- Filtration Cycle 13
- Clock & Calendar Setting. 14
- Heater Lock 14
- Panel Lock 14
- Inverting Display 14
- Swim Advanced Programming Instructions . . . 15
- Swim Control Programming Chart 22

JET OPERATION

- Euro Cluster Massage Jet 16
- Directional Massage Jet. 16
- Air Control 16
- Waterfall Control 16

SAFETY FEATURES

- A. Freeze Protection 17
- B. Flow Protection 17
- C. Overheat Protection 17

SPA MAINTENANCE

- Filter Maintenance 18
- To Clean Filter 18
- Excel Plus Cabinet Maintenance 18
- Care Of Acrylic Surface 18
- Cover Maintenance 18
- Draining Your Spa 18
- Winterizing Your Spa 19

DIAGNOSTICS & TROUBLESHOOTING

- Resetting Spa 20
- Diagnostic Messages 20
- Therapy Control Programming Chart. 21
- Swim Control Programming Chart 22

IMPORTANT SAFETY INSTRUCTIONS

WHEN INSTALLING AND USING THIS ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING DANGERS:

- 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 8.2mm² (No. 8 AWG) solid copper bonding conductor between this point and any metal equipment, metal water pipe, metal enclosure of electrical equipment, or conduit within 1.5 m (5 feet) of the unit.
- 6. DANGER** - Risk of Electric Shock.
Install the spa at least 1.5 m (5 feet) from all metal surfaces. A spa may be installed within 1.5 m (5 feet) of metal surfaces if each metal surface is permanently connected by a minimum 8.2mm² (No. 8 AWG) 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 1.5 m (5 feet) 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 37°C (98.6°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.
- 11. DO NOT DIVE INTO SPA.
IT WILL CAUSE HARM OR INJURY.**

MANUFACTURER'S DO'S AND DON'TS

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 spa. 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.

DO NOT DIVE INTO SPA

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

SET UP AND INSTALLATION INSTRUCTIONS

SITE SELECTION

Structure: The spa should always be placed on a structurally strong, smooth and level surface. Concrete is preferred. The xStream spa models have a loading capacity of 850kg/m² - 930kg/m² (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

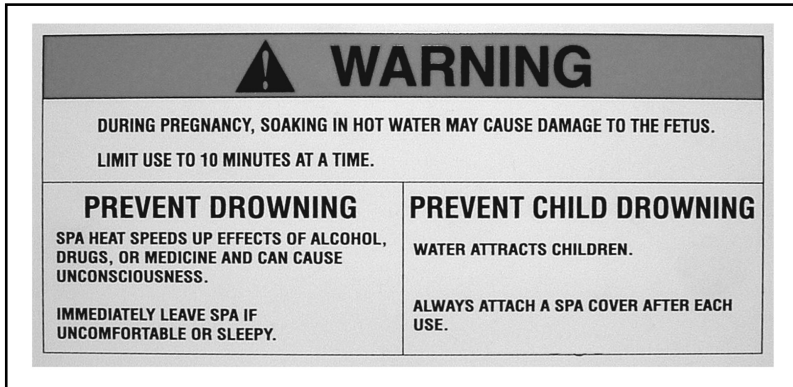
CHECK THE FOLLOWING AREAS PRIOR TO SPA DELIVERY*

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 1795kg (3950 lbs).

SAVE THESE INSTRUCTIONS

WARNING LABEL INSTALLATION



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"

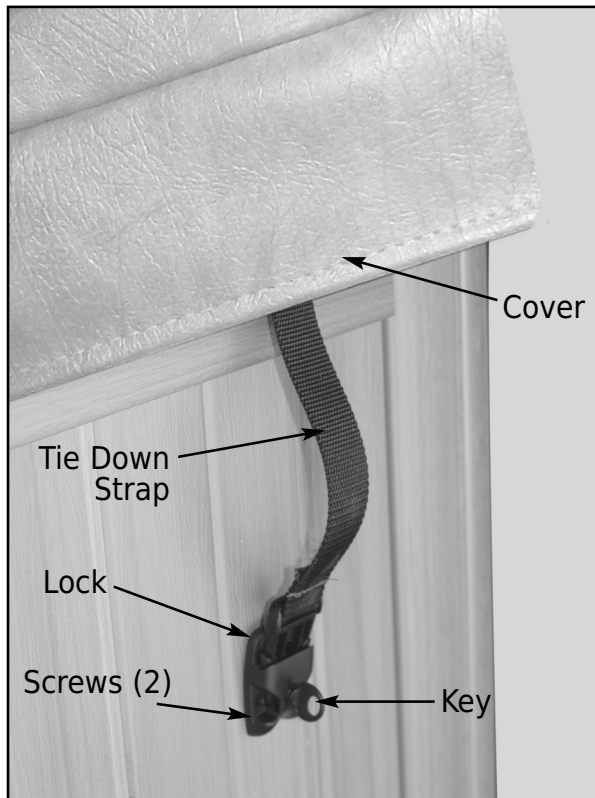


NO DIVING WARNING

DO NOT DIVE INTO SPA.

IT CAN CAUSE HARM OR INJURY.

COVER INSTALLATION



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 13mm to 20mm (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:

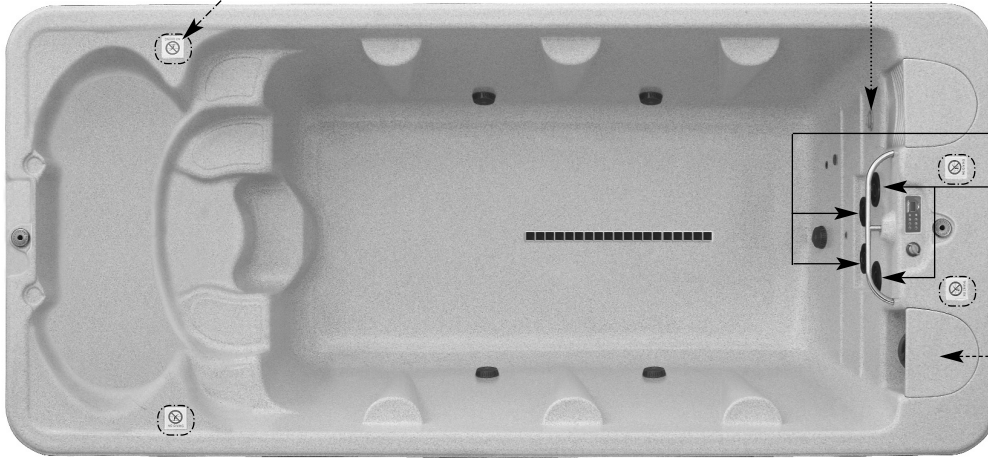
1. Never leave a spa uncovered or unattended.
2. Never leave a spa cover unlocked.
3. Do not stand, sit, or lie on the cover.

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

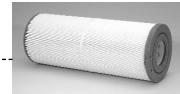
IF YOUR SPA INCLUDES A COVERLIFTER (DUO & DUOPRO), PLEASE READ INSTALLATION INSTRUCTIONS INSIDE THE BOX

xStream 817G3

NO DIVING TILES



DRAIN

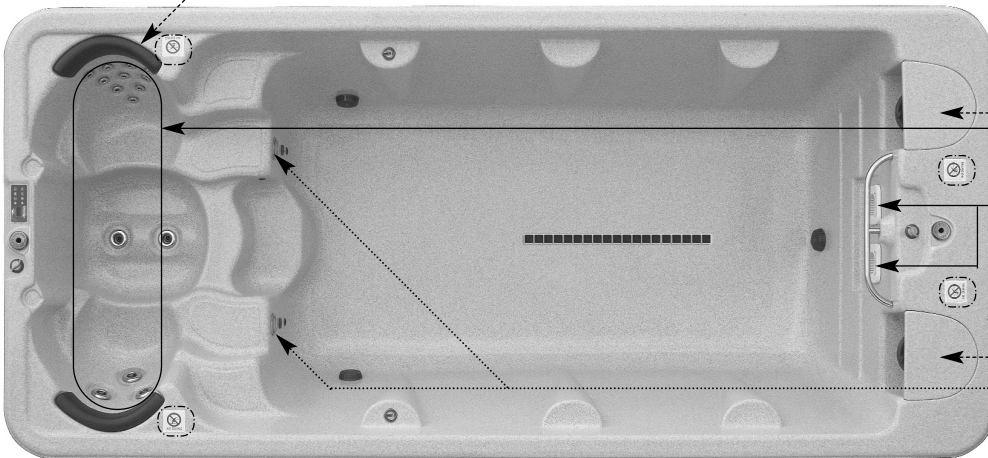


(1 ea) 0212318

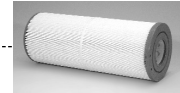
xStream pro 817G1



(2 ea) 0532064



DRAIN



(2 ea) 0212318

xStream duo-pro 817G2

Cascade Cover Plate
0663005

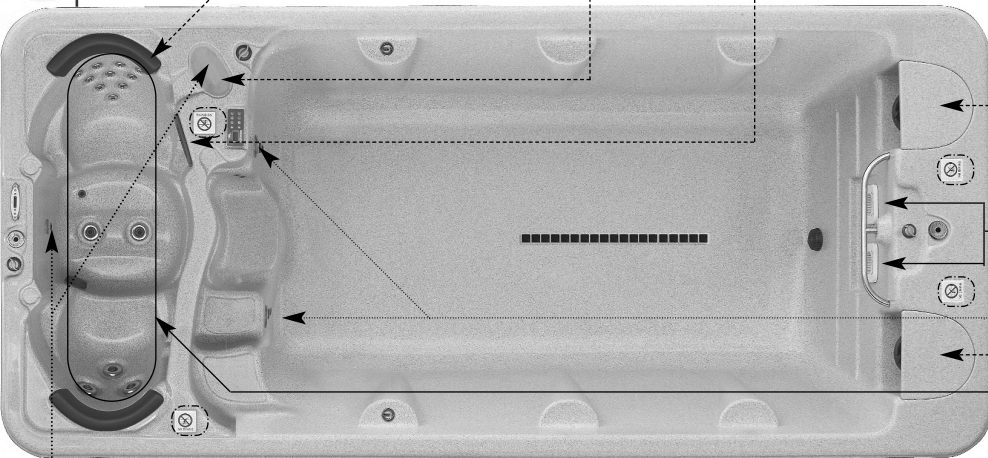


(1 ea) 0212305-TRB

DRAIN



(2 ea) 0532064



DRAIN

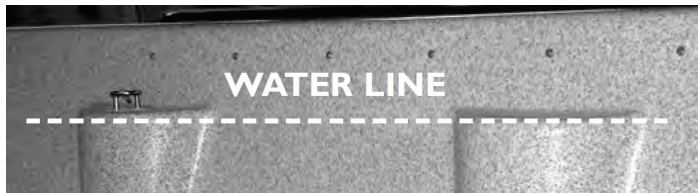


(2 ea) 0212318



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 as marked or top of baffles in swim area.



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.

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.

TESTING THE GFCI

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 Spa Control Center(s) display(s) 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 Spa Control Center(s) display(s) will come back on.

If this does not happen, DO NOT USE spa. CALL your dealer FOR ASSISTANCE.

If the GFCI trips by itself at any time, firmly press the RESET button back into place and perform the above tests.

If this does not happen, DO NOT USE spa. CALL your dealer FOR ASSISTANCE.

**xStream Duo Pro
Therapy Control Center**



Operates functions on therapy portion of Duo Pro

The xStream Duo Pro spa has been designed for your maximum enjoyment and comfort, with two totally independent areas, one for swimming exercises and one for therapy.

It has also been engineered for energy efficiency. The two areas run independently by two separate ICS™ electronic control centers that allow each area to have their temperatures and filtration cycles individually controlled.

With the ICS™ electronic control center you may program for each and every day of the week different temperatures and filtration cycles, giving you all the tools for maximum energy savings.

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 therapy to 102°F (39°C). Date and time must be set at this time by following the Therapy Programming Instructions, which also allow all other spa features to be programmed.

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

JET By pressing this button the pump cycles through a soothing "soaking" mode, to an invigorating "therapy" mode and then off.

Note: If the spa is in the programmed filtration cycle or in heating mode, it will immediately restart running at low speed to filtrate and/or heat the water.

LIGHT This button controls the LED lights. The first press turns the underwater light on. Second press turns the waterfall light on. Third press turns lights off. For color and intensity programming, please refer to the Aquabrite/Chromatherapy instructions on page 12.

PROG This button is used to cycle between time and temperature display and also to enter and process programming functions.

This button increases the value on display.

This button decreases the value on display.

AUX This button is not active on this model.

DISPLAYING TIME OR TEMPERATURE

Press **PROG** to switch the display between current time and current water temperature.

SETTING THE TEMPERATURE FOR A DAY

Press **PROG** to display water temperature.

Press to increase the set temperature.

Press to lower the set temperature.

NOTE:

This setting only alters the temperature for the rest of the day.

Go to section "E. HEAT DAYS & TEMPERATURE" on page 8 to make permanent changes.

IMPORTANT:

When your spa is activated or temperature is adjusted, the spa goes through a 2-½ minute calibration cycle. The controller will evaluate the temperatures at the heater and water in the spa and will determine proper operation and heating needs. The calibration process is indicated by the flashing of the heater LED on the L60 Control Center display.



THERAPY PROGRAMMING INSTRUCTIONS

REFER TO PROGRAMMING INSTRUCTIONS ON PAGE 21 FOR QUICK PROGRAMMING STEPS



A. PROGRAMMING MENU

Note: All programming functions are shown sequentially. To access any specific programming step, you have to enter programming from the beginning, as explained here.

Press and hold **PROG** for three (3) seconds until "dISC" is on the screen to enter the programming menu.

To exit programming mode, press **JET**, **LIGHT** or **AUX** at any point in the sequence or wait for 10 seconds (without pressing any button).

B. SELF - DIAGNOSTIC TOOL

Note: This feature is operational on all Control Boards Rev J and up.

Your spa controller offers the latest state-of-the-art diagnostic tool. To start the test, press **▲** while the display is showing "dISC". This test will run the equipment sequentially for two (2) minutes. To cancel the self-test at any time, press **▼**. Once the test is 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.

C. HEATING

Your spa is pre-programmed from factory to run on **AutoHeat** mode every day of the week. That means whenever the temperature of the water falls 1°F (0.5°C) below the set temperature, the ICS™ control will start the heating cycle and run it until the temperature reaches 1°F (0.5°C) above the set temperature.

Note: Refer to Section E. HEAT DAYS & TEMPERATURE for how to change this setting.

To save even more, you may switch it to **ECONOMY** mode, where the heating cycle will only come on during programmed filtration hours. (See "Filtration Cycle" below).

Note: In ECONOMY mode, if at the end of filtration cycle the water has not reached the set temperature, the heating cycle will stop. This mode is used for energy conservation, the same way you would control your heat or air conditioning in your house.

D. FILTRATION CYCLE

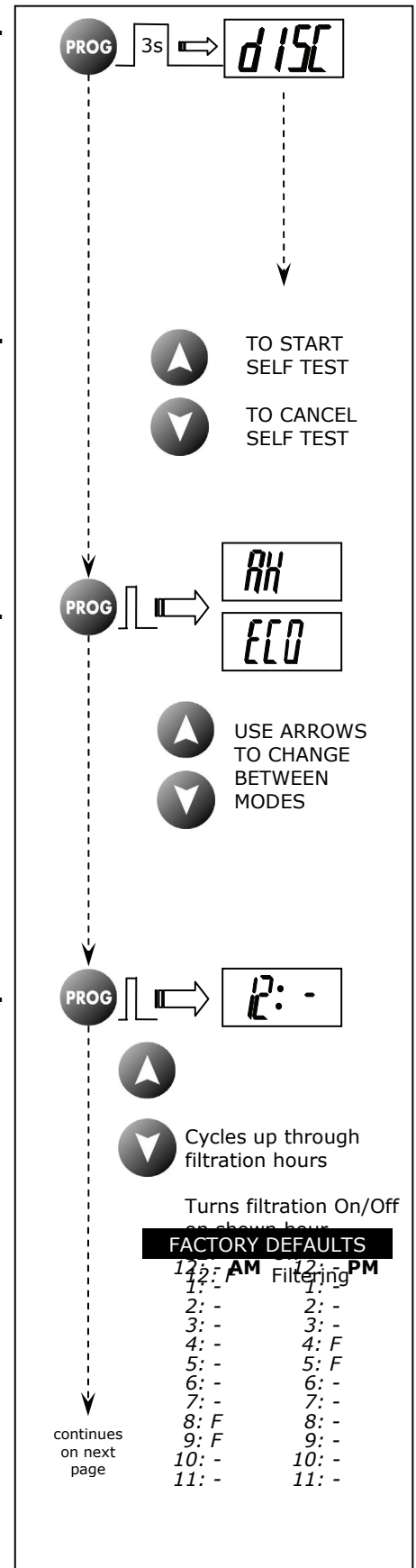
Your spa is pre-programmed from the factory to run the filtration cycle for two hours in the morning and two hours in the evening. It is recommended that filtration hours be set to the minimum necessary to maintain water quality.

Notes: Please review this setting upon installation.

Some Control Boards programmed for AH may jump the filtration hours setting. If that happens, change from AH to ECO, program the desired filtration hours and change back to AH.

During filtration, the water temperature may rise slightly, therefore to prevent overheating during the warmer months of the year, do not program filtration for more than 6 hours a day (4 hours in very hot climates).

Keeping your set temperature a few degrees below your desired temperature will aid in controlling water temperature.



THERAPY PROGRAMMING INSTRUCTIONS

E. HEAT DAYS & TEMPERATURE

Your spa is pre-programmed from factory to heat "All" days, "hd=A". It has however the ability to be programmed for different temperatures on different days of the week. To do so, follow these steps:

Example: Let's assume that you don't normally use the spa between Mondays and Thursdays and you want to save on your electric bill by reducing the spa's energy consumption.

1. While the display shows "hd=A" press . The display will show the heat day. Press again until the desired heat day is selected
2. Press to display temperature for the day selected. Press and hold to lower temperature to, for instance, to 80°F (27°C). Press to increase the temperature.

a.	hd=7	Saturday
b.	hd=6	Friday
c.	hd=5	Thursday
d.	hd=4	Wednesday
e.	hd=3	Tuesday
f.	hd=2	Monday
g.	hd=1	Sunday

3. To check or adjust the temperature on another day, press to cycle through the program until the display shows "hd=A" again. Then repeat steps 1 through 3 to do the same for Wednesday (hd=4), Tuesday (hd=3) and Monday (hd=2).

NOTE: If you programmed different temperatures at different days, DO NOT alter the temperature setting after the display shows "hd=A". If you do so, "All" days will revert to the newly set temperature.

F. TEMPERATURE – °F or °C.....

Your spa is pre-programmed from factory to display temperature in degrees Fahrenheit (°F). Use the arrow keys to change between degrees Celcius (°C) and degrees Fahrenheit (°F).

G. CLOCK AND CALENDAR SETTING

The display will sequence through the time and calendar settings as is pressed.

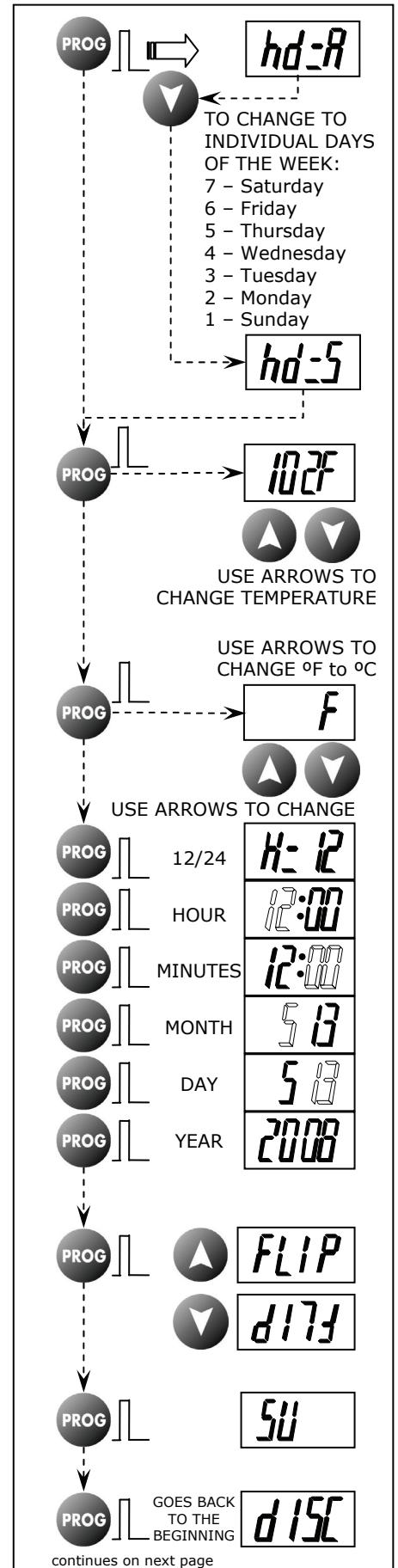
- Sequence is:
- "H=12" – 12-hr or "H=24" – 24-hr clock
 - Hours setting
 - Minutes setting
 - Month setting
 - Day setting
 - Year setting

Use the arrow keys to change the setting of the blinking digits.

H. DISPLAY

The Control Center display can be inverted to allow easier reading from inside the spa. To do so, while the display shows "FLIP" use or to invert the display back and forth.

To exit programming mode, press , or at any point in the sequence or wait for 10 seconds (without pressing any button).



THERAPY ADVANCED PROGRAMMING INSTRUCTIONS

DO NOT ENTER THIS SECTION UNLESS INSTRUCTED BY A QUALIFIED TECHNICIAN

**** IMPROPER CHANGES MAY CAUSE MALFUNCTION OR DAMAGE YOUR SPA AND MAY VOID THE WARRANTY! ****

ADVANCED FEATURES SETUP

To exit programming mode, press **JET**, **LIGHT** or **AUX** at any point in the sequence or wait for 10 seconds (without pressing any button).

A1. SETUP ("SU")

While the display shows "SU" enter the Advanced Programming Menu by holding down **PROG** for 8 seconds.

A2. PUMP SETUP

The Therapy side of the xStream Duo Pro should be set to "P=1" ONLY. Changing this setting will cause the pump to follow button commands incorrectly.

A3. POWER SERVICE LEVEL

The Therapy side of the xStream Duo Pro should be set to "S=0" ONLY. This indicates that the heater will shut off when the pump is turned on high speed.

Warning! Changes to this setting may cause inadvertent breaker tripping and strain your power connections. If so, this would void your warranty.

A4. COUNTRY CODE

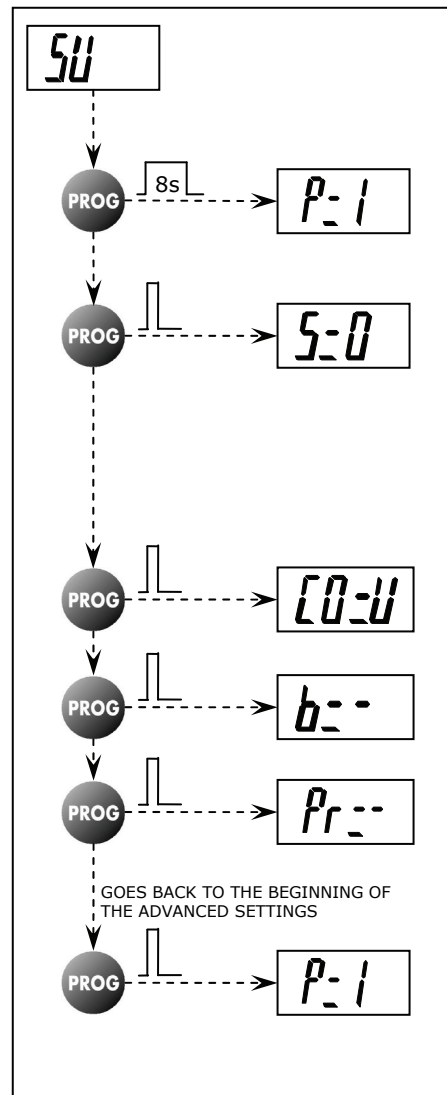
This setting is not applicable to the Therapy Control.

A5. AUX BUTTON (BLOWER)

This setting is not applicable to the Therapy Control, but should be left at b=-.

A6. PRIME CYCLE AT STARTUP

This step, if present, turns the pump on for a minute or two every time power is applied to the spa, to prime the pump. Default setting is "Pr= -".



To exit programming mode, press **JET**, **LIGHT** or **AUX** at any point in the sequence or wait for 10 seconds (without pressing any button).

SWIM OPERATING INSTRUCTIONS

Swim Control Center



Operates functions on swim portion of spa

The xStream Series spas have been designed for your maximum enjoyment and comfort.

They have been engineered for energy efficiency, and the ICS™ electronic control center allows full programming of temperature and filtration cycles.

With the ICS™ electronic control center you may program different temperatures for each and every day of the week, giving you all the tools for maximum comfort and energy savings.

INITIAL START UP

Your spa has been programmed for your convenience. Once properly connected, the filtration pump and heater will automatically come on and heat the swimming portion to 85°F (29°C) (please confirm this setting has not been changed during installation). Date and time must be set at this time by following the Swim Programming Instructions, which also allow all other spa features to be programmed.

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

Button	<i>xStream</i>	<i>xStream pro</i>	<i>xStream duo-pro</i>
	Not active	Pressing this button will cycle the therapy jets through a soothing "soaking" mode, to an invigorating "therapy" mode and then off.	Not active
	Pressing this button will turn the top swim jets on and then off.	Pressing this button will turn the Badu jets on and then off.	Pressing this button will turn the Badu jets on and then off.
	Pressing this button will turn the bottom swim jets on and then off.	Not active	Not active
	This button operates the lights. Refer to the "TURNING ON THE LIGHT" section for operating instructions. For spas equipped with Digichromium option, refer to "AQUABRITE/ CHROMATHERAPY" instructions on page 12 for color and intensity programming.		
	This button is used to cycle between time and temperature display and also to enter and process programming functions.		
	The "UP" button increases the value on display. The "DOWN" button decreases the value on display.		
	Not active		



DISPLAYING TIME OR TEMPERATURE



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

SWIM OPERATING INSTRUCTIONS


SETTING TEMPERATURE FOR A DAY.

-  Press this button to display water temperature.
-  Press these buttons to select the desired temperature.

NOTE: This setting only alters the temperature for the rest of the day. Go to section B. HEAT DAYS & TEMPERATURE on page 13 to make permanent changes.

NOTE: For full instructions on programming your ICS™ controller, go to the SWIM PROGRAMMING INSTRUCTION section on page 13.

IMPORTANT:

When your spa is activated or temperature is adjusted, the spa goes through a 2-½ minute calibration cycle. The controller will evaluate the temperatures at the heater and water in the spa and will determine proper operation and heating needs. The calibration process is indicated by a flashing of the  (sun) icon on the Control Center display.




BADU-STREAM II JETS

(Standard on PRO & DUOPRO MODELS • Optional on XSTREAM)



To start swimming, jogging or running it is suggested that the two nozzles be pointed slightly inward and slightly upward so that the water "breaks" approximately 3 feet in front of the BADU-STREAM II.

Start the jets by pressing the  button. You can control water flow strength by adjusting the air control and jet nozzles.

The air control is located above the jets and varies the mixture of air into the water flow and creates a unique, invigorating, bubble bath effect. It will also add additional resistance to swim against.

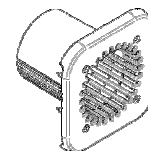
BADU-STREAM II's adjustable flow nozzle enables swimmers to regulate the volume of water released through the jets. Turning the nozzle clockwise reduces the flow.

The swivel nozzle 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 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 the jets off and restart them after the water flow dies.

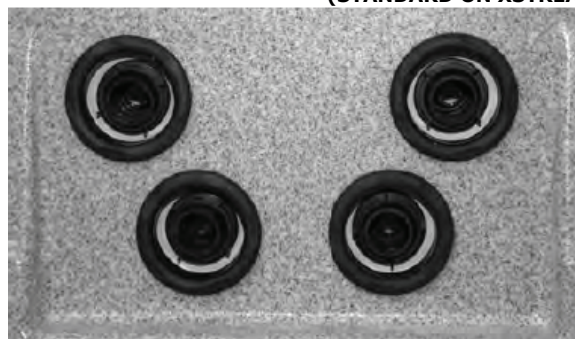
WARNING!

- **DO NOT USE** or operate the **BADU STREAM II** if the **square, anti-entrapment cover is missing, broken, or loose.**
- **Consult your physician before attempting any strenuous exercise.**
- **The BADU-STREAM II jets do not close water flow all the way. Overturning Jet Nozzle can cause breakage.**





V-STREAM JETS

(STANDARD ON XSTREAM)



The V-Stream Jets are powered by two 4HP high powered pumps.


-  operates the 2 top jets (Pump 1).
-  operates the 2 bottom jets (Pump 2).

The V-Stream Jets are adjustable by using the center nozzle.

SWIM OPERATING INSTRUCTIONS


TURNING ON THE LIGHT

Standard Light: Press  to turn light on and off.



LED Light: Press  once to turn underwater lights on. Pressing a second time will turn on Aquabrite/ Chromatherapy, if so equipped. Pressing a third time will turn lights off.



For color/intensity programming, refer to Aquabrite/Chromatherapy instructions below.

AQUABRITE/CHROMATHERAPY (OPTIONAL)

The Aquabrite/Chromatherapy option is activated by pressing the  button on the spa control center.

Programming the lights can be done once the display reads "**L=XX**".

The  button increases and the  button decreases light intensity.

The  button is used to select different light color settings. This selection may be changed at any time the display reads "**L=XX**". If the display does not read "**L=XX**", press the  button on the spa control center until it does.

Available color combination settings:



- L=00** Lights Off
- L=01** White (Red, Blue and Green LEDs on)
- L=02** Blue
- L=03** Green
- L=04** Red
- L=05** Strobe effect Red/Green/Blue
- L=06** Gradual change Red/Green/Blue
- L=07** Combination Colors: Blue/Green
- L=08** Combination Colors: Red/Green
- L=09** Combination Colors: Red/Blue
- L=10** Music (Stereo must be on to work)



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




SURROUND STEREO (OPTIONAL)




The stereo option allows you to listen to FM stations or any other audio source connected to the "Line" input.




ACTIVATING THE STEREO SYSTEM - The stereo is turned on by simultaneously pressing the  and  buttons on the spa control center. The stereo will automatically be taken to the volume control.



LOUDNESS - While the display shows "**Loud**", you may adjust the volume level by pressing the  or  buttons. The volume range is **L=00** (off) through **L=10** (the loudest volume).

BASS - While in the volume mode, press the  button to change to Bass mode. Bass can now be adjusted by pressing the  or  buttons and ranges from **B=00** through **B=10**.


AUDIO SOURCE - From Bass Mode, press  to select source (use the  or  buttons to change):

- S=F** Stereo will enable FM station tuning.
- S=L** Stereo line input is enabled.

FM TUNING - If FM source is selected, press  to advance to station tuning. The control pad display will show the FM frequency.

Station scanning starts by pressing  or  buttons.

CD/MP3 PLAYER - If source is **S=L** (Line input), you can connect an optional CD player or any other personal stereo device, such as a walkman or MP3.

Pressing  again will make the controller cycle back to Loudness.

SWIM PROGRAMMING INSTRUCTIONS

REFER TO PROGRAMMING INSTRUCTIONS ON PAGE 22 FOR QUICK PROGRAMMING STEPS



A. PROGRAMMING MENU

Note: All programming functions are shown sequentially. To access any specific programming step, you have to enter programming as explained here.

Press and hold for three (3) seconds until "dISC" is on the screen to enter the programming menu.

To exit programming mode at any point in the sequence, press any button other than , or , or wait for 10 seconds (without pressing any button).

B. HEAT DAYS & TEMPERATURE

Your spa is pre-programmed from factory to heat "All" days, "hd=A". It has however the ability to be programmed for different temperatures on different days of the week. To do so, follow these steps:

Example: Let's assume that you don't normally use the spa between Mondays and Thursdays and you want to save on your electric bill by reducing the spa's energy consumption.

1. While the display shows "hd=A", press . The display will show the heat day. Press again until the desired heat day is selected
2. Press to display temperature for the day selected. Press and hold to lower temperature to, for instance, to 80°F (27°C). Press to increase the temperature.

a.	hd=7	Saturday
b.	hd=6	Friday
c.	hd=5	Thursday
d.	hd=4	Wednesday
e.	hd=3	Tuesday
f.	hd=2	Monday
g.	hd=1	Sunday

3. To check or adjust the temperature on another day, press to cycle through the program until the display shows "hd=A" again. Then repeat steps 1 through 3 to do the same for Wednesday (hd=4), Tuesday (hd=3) and Monday (hd=2).

NOTE: If you programmed different temperatures at different days, DO NOT alter the temperature setting after the display shows "hd=A". If you do so, "All" days will revert to the newly set temperature.

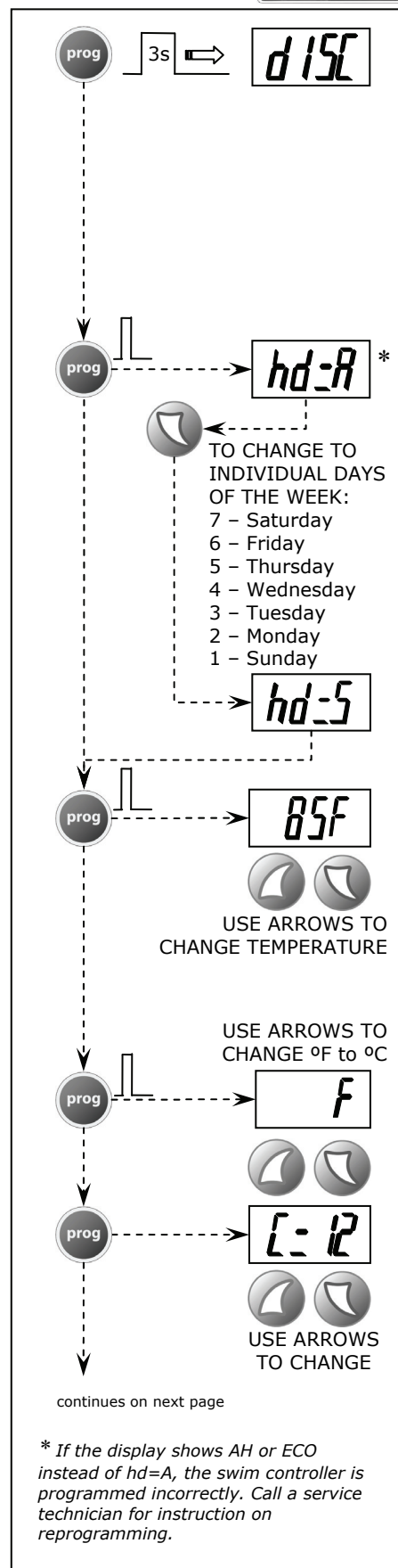
C. TEMPERATURE – °F or °C.....

Your spa is pre-programmed from factory to display temperature in degrees Fahrenheit (°F). Use the arrow keys to change between degrees Celcius (°C) and degrees Fahrenheit (°F).

D. FILTRATION (CIRCULATION) CYCLE


Your spa is pre-programmed from factory to run the filtration cycle for 12 hours a day. You may change this setting to 6 hours or 24 hours a day. It is recommended that filtration hours be set to the minimum necessary to maintain water quality.

Notes: During filtration, the water temperature may slightly rise, therefore to prevent overheating during the warmer months of the year, do not program filtration for more than 4 hours a day. Keeping your set temperature a few degrees below your desired temperature will aid in controlling water temperature.



SWIM PROGRAMMING INSTRUCTIONS



E. CLOCK AND CALENDAR SETTING


The display will sequence through the time and calendar settings as  is pressed.

Sequence is: **"H=12"** – 12-hr or **"H=24"** – 24-hr clock
 Hours setting
 Minutes setting
 Month setting
 Day setting
 Year setting

Use  and  to change blinking digits.



F. HEAT LOCK

The ICS™ controller allows you to prevent anyone from changing the water temperature you have chosen, while still allowing the use of any of the spa functions. While the display shows **"HL"** Heater Lock position. Press  for to **Lock** in the set temperature. Notice the lock icon  solid on the display. No temperature changes are allowed.

Press  to remove the "Heat Lock" of the heater. Notice that the lock icon will disappear. All spa functions, including temperature adjustment will be accessible.



G. PANEL LOCK

The ICS™ controller also allows you to lock the spa Control Center to keep children or others from using any of the spa functions.

To block all buttons, while the display shows **"PL"** press . Notice the flashing lock icon  on the display indicating the Control Center is locked.




To unlock the Control Center, press  again. **"PL"** will display, press . The flashing lock icon will disappear and all spa functions will be accessible.

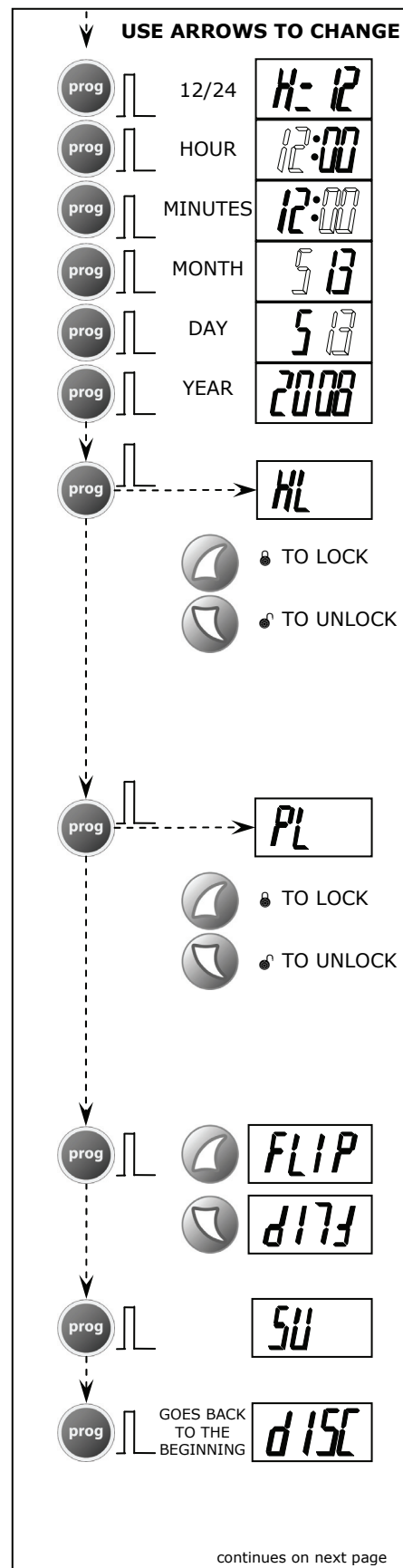
H. DISPLAY

The Control Center display can be inverted to allow easier reading from inside the spa. While the display shows **"FLIP"**, press  or  to invert the display back and forth.

I. ADVANCED FEATURES SETUP.....

Refer to the **ADVANCED FEATURES SETUP** section.

To exit programming mode at any point in the sequence, press any button other than ,  or , or wait for 10 seconds (without pressing any button).






SWIM ADVANCED PROGRAMMING INSTRUCTIONS


DO NOT ENTER THIS SECTION UNLESS INSTRUCTED BY A QUALIFIED TECHNICIAN

**** IMPROPER CHANGES MAY CAUSE MALFUNCTION OR DAMAGE YOUR SPA AND MAY VOID THE WARRANTY! ****

ADVANCED FEATURES SETUP

To exit programming mode at any point in the sequence, press any button other than ,  or , or wait for 10 seconds (without pressing any button).

A1. SETUP ("SU")

While the display shows "SU" enter the Advanced Programming Menu by holding down  for 8 seconds.

A2. PUMP SETUP

The Swim Control of the xStream spas has been factory programmed, and should be:

xStream **"P=3C" ONLY.**
 xStream Pro and Duo Pro **"P=2C" ONLY.**

A3. POWER SERVICE LEVEL

The Swim Control of the xStream spas should be set to **"S=0" ONLY.** This indicates that the heater will shut off when any pump is turned on high speed, except for the filtration (circulation) pump.

Warning! Changes to this setting may cause inadvertent breaker tripping and strain your power connections. If so, this would void your warranty.

A4. COUNTRY

This setting is used for the FM Stereo tuning, if so equipped. It should be set to **"CO=U"** for the US and Canada, **"CO=E"** for Europe and **"CO=J"** for Japan.

A5. AUX BUTTON (BLOWER)

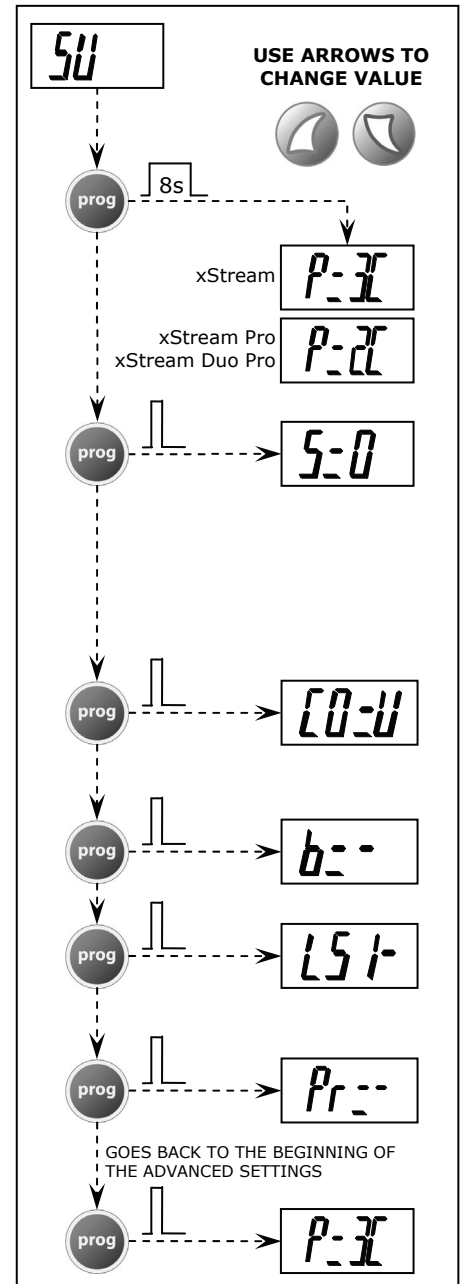
This setting is not applicable to the Swim Control.




A6. PUMP 2 SPEED SETTING

This setting should be set to **"LS1-" ONLY.** Changing this setting will cause swim pumps to follow button commands incorrectly.

A7. PRIME CYCLE AT STARTUP

This step, if present, turns the pumps on for a minute or two every time power is applied to the spa, to prime the pumps. Default setting is **"Pr= -"**.



To exit programming mode at any point in the sequence, press any button other than ,  or , or wait for 10 seconds (without pressing any button).

THE THERAPY JET OPERATION

Your xStream Swim Spa's therapy section 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.

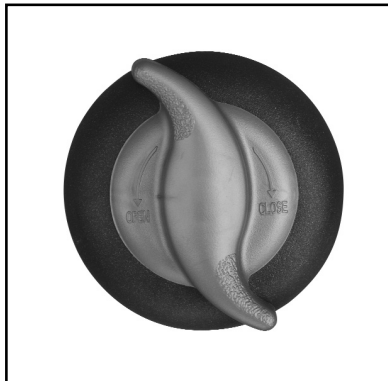
For cleaning purposes, these jet faces can be removed by grabbing outer face and pulling away from jet body. Re-install it by pushing the face back in place.



B) DIRECTIONAL MASSAGE JETS

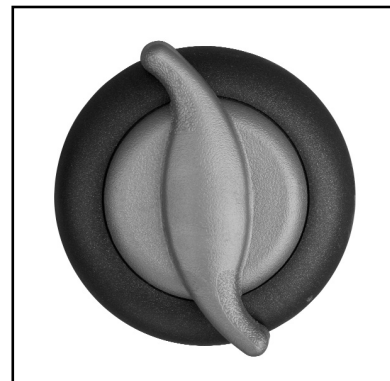
When the pump is on the Directional Quad jets will be operational. The nozzle of the Directional Quad jets can be adjusted to direct the flow to specific parts of your body.

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 10°C (50°F), the water pump will turn on low speed and run for 30 seconds. After 30 seconds, if the water is still at 10°C (50°F), the heater will turn on and raise the temperature 2°C (10°F). 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 44.5°C (112°F), the pump and heater will turn off. **DO NOT ENTER THE WATER.** Remove the cover and allow the water temperature to cool down to 40°C (104°F). The system will revert to normal operation once the temperature comes down below 44.5°C (112°F) and will obey the temperature set in the program. 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 where the temperature reaches 47.5°C (118°F), the display will show the message "HILI".

To remove "HILI" message, you must shut off power to spa and turn on again.

DO NOT ENTER THE WATER:

Remove the cover and allow the water to cool down to 40°C (104°F). If the "HILI" message returns, turn the power to the spa off and call your dealer for assistance.

SPA MAINTENANCE

Your spa is manufactured with the highest quality and most durable materials available. A spa care and maintenance program is recommended to increase your comfort, maintain the spa's reliability, and protect your investment.

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.

EXCEL-PLUS and EXCEL-X CABINET MAINTENANCE

The exterior of your xStream Duo Pro Spa cabinet is made from newly formulated high strength materials that are 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

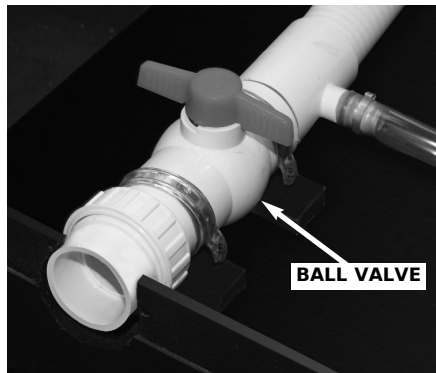
To maintain the surface of your spa, simply clean with a soft damp cloth (a mild detergent is okay) or with any glass cleaner. DO NOT clean the surface with any type of abrasive as it will dull the surface and natural luster of the acrylic. DO NOT use any type of oil based solvent. Such products can 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 (5ml [1 teaspoon] dish washing liquid with 10 liters [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.

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.



SWIM SECTION
DRAIN

Swim Side:

Remove left door panel to access drain. A union is provided to facilitate drainage. You may attach a hose to it and when not in use, it may be removed to close the panel. Open valve to drain spa.



DUOPRO THERAPY
DRAIN

Pull cap fully out and unscrew it. Attach garden hose and push partially back in to start flow of water.

Water flow will stop if fully in or fully out. You may need to twist it a bit to push it in or pull it out.

SPA MAINTENANCE

WINTERIZING YOUR SPA

Most Hot Tub enthusiasts will agree that there is no better time to enjoy their spa than in colder winter months. Although your Spa has been designed and engineered for year-round use in any climate, if you chose to leave it empty in the winter time, there are precautions you should take.

1. Make sure that all power to the spa is "turned off". We recommend shutting off the breaker to the spa.
2. The next step is to fully drain the spa. To do this, use the drain outlet located on the outside of the spa (refer to owners manual for location). If any water is left in the bottom or in the seats of the spa, we recommend that this water is also removed. Some people put a small amount of anti-freeze in the water before emptying, but if the water is properly evacuated, this is not necessary.
3. Loosen and remove the union connections to your spas heater and pumps, this will allow standing water in these components to further drain.
4. To further ensure water is removed, you can use a shop vacuum to either blow or vacuum excess water from the components of pipes. By doing this, even if a small amount of water remains, it is not enough water to cause any damage to the spa or components during a freezing condition.
5. Put your thermo cover back on the spa shell and lock using the strap downs. We recommend for extreme cold conditions that you place a tarp over your spa and tie it at the bottom. This will add further insurance against the cold and wind, but it will also help protect your cabinetry from the harsh winter elements.

Although this is a fairly simple process, if you have any doubts, we suggest that you contact your local Vita Spa Service Tech to have your spa professionally winterized.

DIAGNOSTIC & TROUBLESHOOTING

Resetting Your Spa

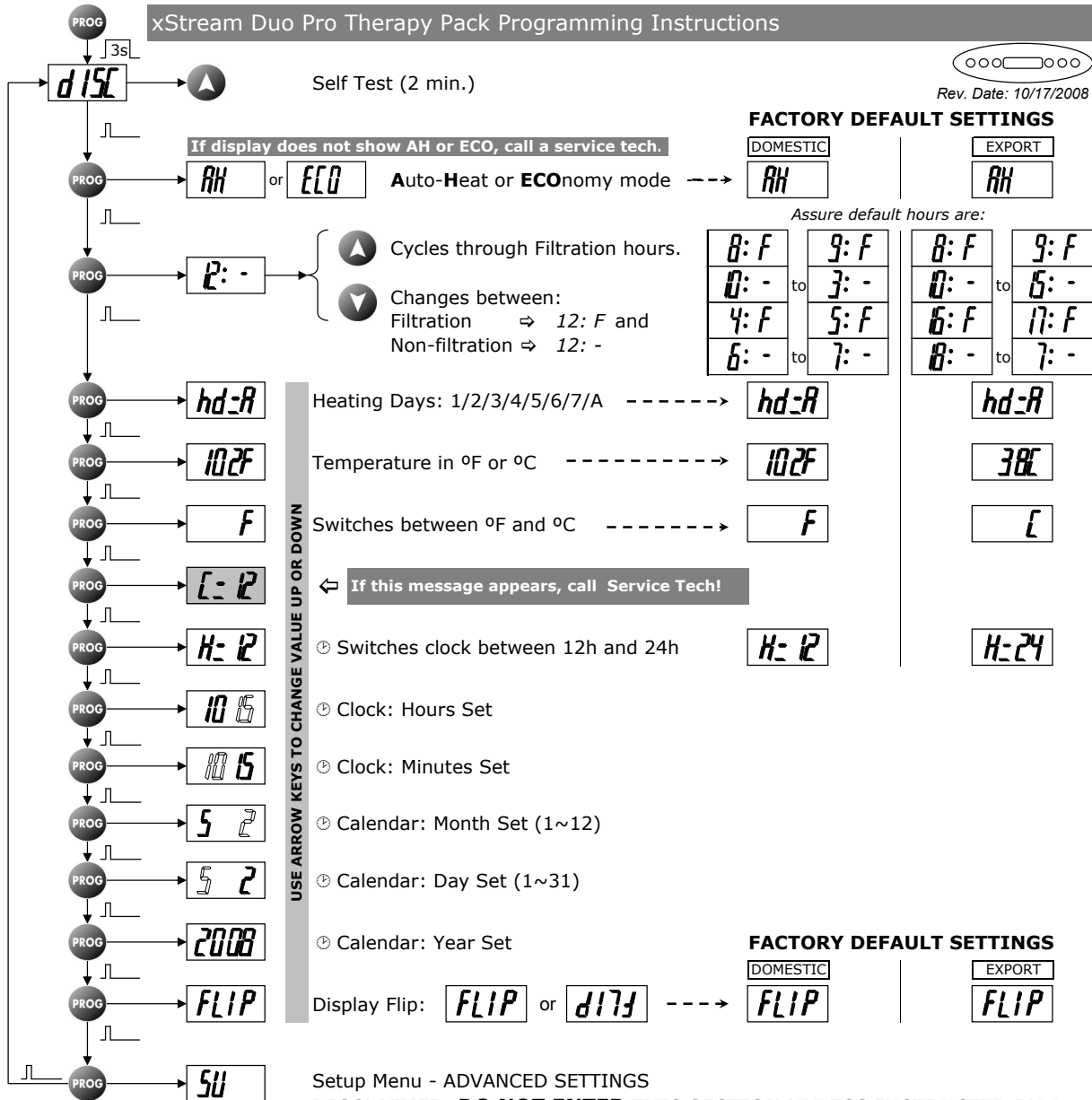
Like your PC at home, your spa electronics could get corrupted by electrical surges and operate improperly. If your spa system is not operating properly or shows any of the following messages, please reset it before calling for service to see if the malfunction disappears. To reset the spa, shut off the breaker for 5 sec. and turn it back on.

SYMPTOM	MEANING	ACTION
Spa Inoperative	Power failure outside of spa.	Check power source Breaker and GFCI; Reset breaker/GFCI. Call Electrician if it will not start.
MESSAGE		
<i>FLO</i> FLO	Insufficient water flow through Heater.	Clean/change filter element, (see page 4 for filter part numbers). Check pump for flow, on therapy side, check low speed running. On swim side, check circ pump running. If "FLO" remains check need to prime the pump(s).
<i>HILI</i> HILI	HILI message appears if the high-limit sensor detects 47.5°C (118°F) at both the heater and spa water sensors. DO NOT ENTER THE WATER.	Remove the spa cover and let the water temperature cool down to 40°C (104°F). If your spa reaches 47.5°C (118°F) again, contact your dealer for service. No action required.
<i>ICE</i> ICE	Water in plumbing below 10°C (50°F) Call for service if spa fails to come on.	Pump will come on to circulate water and then heater. Heater will stay on until water reaches 15.5°C (60°F) or set temperature.
<i>LS</i> LS	Water temperature sensor	Reset spa. If message comes back, call for service.
<i>SS</i> SS	High Limit sensor	Reset spa. If message comes back, call for service.
<i>CP</i> CP	Circulation pump may be faulty	Check that circulation pump is plugged in, or for possible loose connection. If message comes back, call for service. This fault will lead to a FLO message.
<i>REL</i> REL	Relay Error	Relay not closing or opening correctly. Reset. If message comes back, call for service.
<i>HC</i> HC	Heater Error	Call for service. Heater may have to be replaced.
<i>P1</i> P1/P2/P3	Pump 1, 2 or 3 fault	Check* plug for pump shown. Possible loose connection.
<i>F1</i> F1/F2/F3/F4	Blown Fuse	Replace* bad fuse
<i>BUS</i> BUS	Communication Problem	Reset spa. If message comes back, call for service.

* These procedures should only be performed by persons familiar with electrical work.
ALWAYS SHUT THE POWER OFF AT THE DISCONNECT BEFORE ATTEMPTING THESE PROCEDURES.

xStream Duo Pro Therapy Pack Programming Instructions

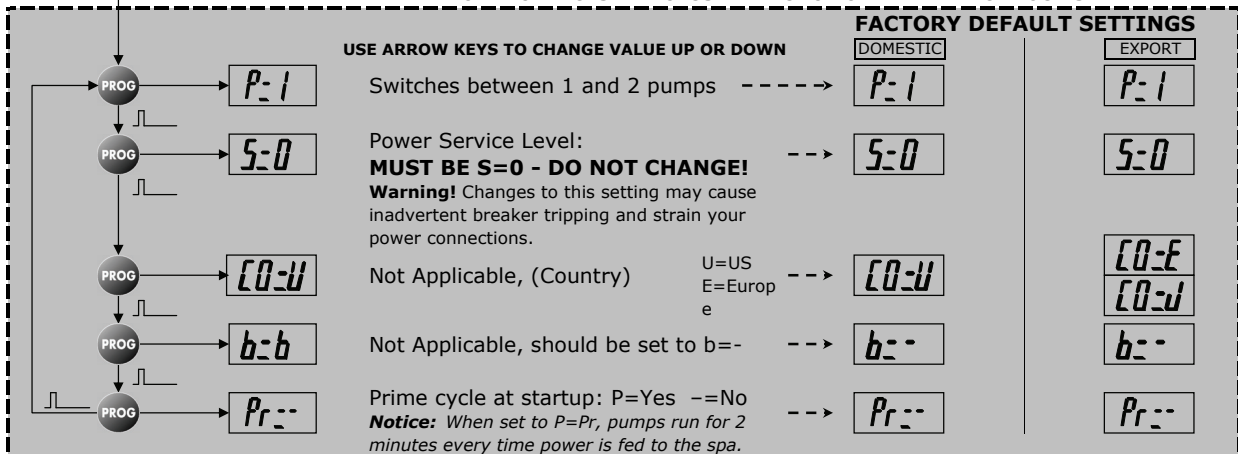
Rev. Date: 10/17/2008



Setup Menu - ADVANCED SETTINGS

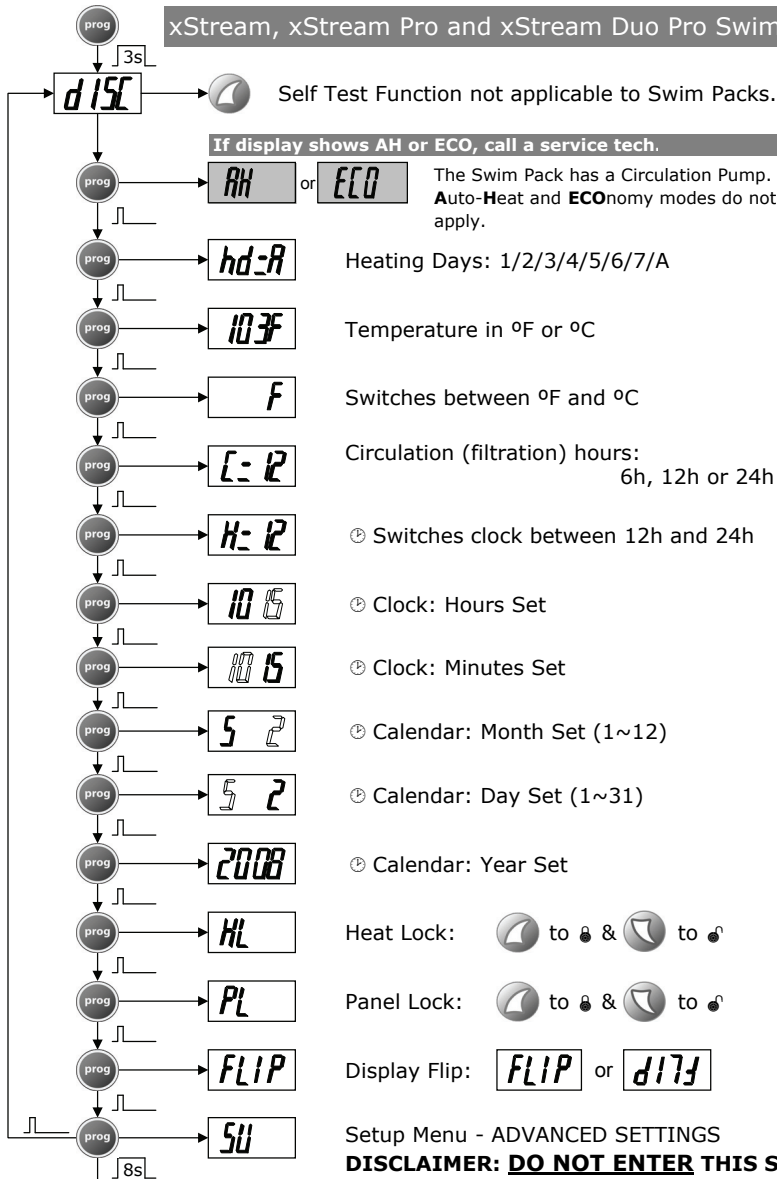
DISCLAIMER: DO NOT ENTER THIS SECTION UNLESS INSTRUCTED BY A QUALIFIED TECHNICIAN.

***** IMPROPER CHANGES MAY CAUSE MALFUNCTION AND DAMAGE YOUR SPA! *****



To exit Programming mode press Jet, Light or Aux button, or wait 10 seconds.

xStream, xStream Pro and xStream Duo Pro Swim Pack Programming Instructions



Self Test Function not applicable to Swim Packs.

If display shows AH or ECO, call a service tech.

The Swim Pack has a Circulation Pump. Auto-Heat and ECOmy modes do not apply.

Rev. Date: 10/9/2008

FACTORY DEFAULT SETTINGS

DOM	EXP
hd:A	hd:A
85F	29C
F	C
C:12	C:12
H:12	H:24

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

Temperature in °F or °C

Switches between °F and °C

Circulation (filtration) hours:
6h, 12h or 24h

⌚ Switches clock between 12h and 24h

⌚ Clock: Hours Set

⌚ Clock: Minutes Set

⌚ Calendar: Month Set (1~12)

⌚ Calendar: Day Set (1~31)

⌚ Calendar: Year Set

Heat Lock: ☺ to 🔒 & ☹ to 🔓

Panel Lock: ☺ to 🔒 & ☹ to 🔓

Display Flip: FLIP or d17J

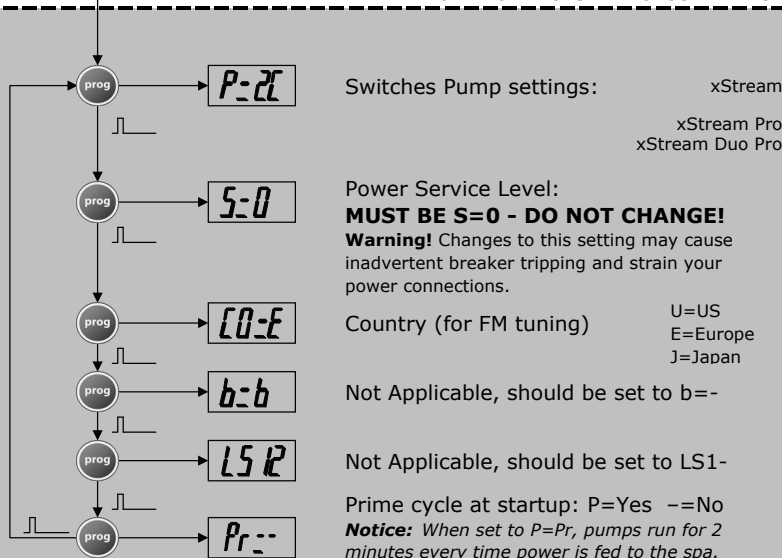
FACTORY DEFAULT SETTINGS

DOM	EXP
Unlocked	Unlocked
Unlocked	Unlocked
FLIP	FLIP

Setup Menu - ADVANCED SETTINGS

DISCLAIMER: DO NOT ENTER THIS SECTION UNLESS INSTRUCTED BY A QUALIFIED TECHNICIAN.

*** IMPROPER CHANGES MAY CAUSE MALFUNCTION AND DAMAGE YOUR SPA! ***



Switches Pump settings: xStream
xStream Pro
xStream Duo Pro

Power Service Level:
MUST BE S=0 - DO NOT CHANGE!
Warning! Changes to this setting may cause inadvertent breaker tripping and strain your power connections.

Country (for FM tuning) U=US
E=Europe
J=Japan

Not Applicable, should be set to b=-

Not Applicable, should be set to LS1-

Prime cycle at startup: P=Yes -=-No
Notice: When set to P=Pr, pumps run for 2 minutes every time power is fed to the spa.

FACTORY DEFAULT SETTINGS

DOM	EXP
P:12	P:12
P:12	P:12
S:0	S:0
C0:U	C0:E
	C0:U
b:-	b:-
LS1-	LS1-
Pr:-	Pr:-

To exit Programming mode press Jet, Light or Aux button, or wait 10 seconds.



DM Industries, Ltd.

MIAMI FLORIDA

DM Industries, Ltd.,
2320 Northwest 147th Street, Miami, Florida 33054
Email: customercare@dmindustries.com and techhelp@dmindustries.com
www.dmindustries.com