

- With the “Set Month” highlighted (Figure G), use the Left or Right button on the Quad keypad to scroll through selection. Once the correct month is displayed, press the Down button to enable the day selection.



- With the “Set Day” highlighted (Figure H), press the Left or Right button on the Quad keypad to scroll through selection. Once the correct day is displayed, press the Splash button to save your changes. Press button D to return to the Date and Time Setting menu.

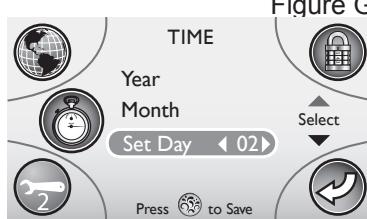


Figure H

11.5 Setting the Time

- Press the Down button on the Quad keypad to access the “Time Setting” (Figure I) submenus.



Figure I

- The screen will open with “Set Clock” highlighted (Figure J). Press either the Left or Right button on the Quad Keypad to choose either a 12-hour or 24-hour (military time) display. Then press the Down button to enable the hour selection.



Figure J

- With “Set Hour” highlighted (Figure K), press the Left (decrease) or Right (increase) button on the Quad keypad to scroll through the selection. Once the correct hour is displayed, press the Down button to enable the minutes selection.



Figure K

Note: If you are using a standard 12-hour day, you will see the hour displayed as “1PM”. For the 24-hour period it will read “1300”.

J-400 Series

- With “Set Min.” highlighted (Figure L), press the Left (decrease) or Right (increase) button on the Quad keypad to scroll through the selection. Once the correct minutes are displayed, press the Splash button to save your changes. Press button D to return to the Setting 1 Main Menu.



Figure L

11.6 Locking and Unlocking the Topside

- From the “Date and Time” Menu (Figure M), press button C to access the Lock feature. This feature accepts a three digit code to lock and unlock the panel from unauthorized use.



Figure M

- To set each “lock code” digit, use the Left or Right button on the Quad keypad. To change a number, press the Up or Down button to scroll through selection 0-9 (Figure N). Once you have selected a 3-digit code, press the Splash button to save your changes. When the spa is locked the LCD display will look like Figure O.



Figure N



Figure O

- To Unlock the topside panel, press the Splash button on the Quad keypad. The lock icon will appear on the LCD display (Figure P). Press the Up, Down, Left and Right Quad keypad buttons to enter “lock code” from left to right. After all three lock code digits are entered, press the Splash button to access the Main Menu (if correct code was entered).

Note: In case the lock/unlock code is lost or forgotten, a default code of 772 can be used to unlock the panel.

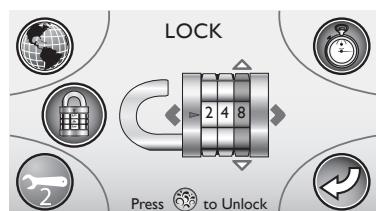


Figure P

12.0 Programming Instructions for Setting 2 Menus

The “Setting 2” screen allows you to program Heating, Primary Filter and Secondary Filter modes.

12.1 Programming Heating Cycles

Your Jacuzzi spa is equipped with two modes of heating. An automatic mode called “Auto-Heating”, where the spa’s temperature is maintained at all times by the “Setpoint”. The second mode is called “Programmable”, where the spa will only activate the heater at set times programmed by you. To activate either mode follow the procedures below.

To access the “Setting 2” Menu:

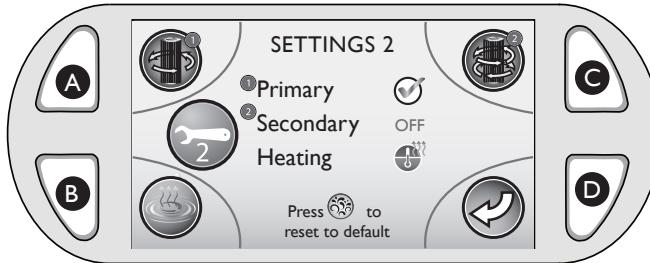
1. From the Setting 1 Menu (Figure A), press button B.
2. The “Setting 2” Menu will appear (Figure B).

Note: You can return to the factory default heating and filtration modes by pressing the Splash button on the Quad Keypad while in the Setting 2 Main Menu (Figure B) at any time.

Figure A



Figure B



J-400 Series

12.2 Auto-Heating Mode

Auto-Heating mode is typically selected by customers in cold climates where heat up times are extended due to lower ambient temperatures. In this mode, water temperature is regulated by the set temperature which activates the heater automatically as needed.



Figure C

Note: If you elect to use Auto-Heating, you can skip this Section. Auto-Heating is the default spa setting.

1. Press button B (Figure C) to enter the Heating Menu. The menu appears with Auto-Heating highlighted. If you elect to use this mode, press the Splash button on the Quad Keypad. The display will confirm your selection and Figure D will be displayed.
2. To exit the submenu, press button D to return to the “Setting 2” Menu.

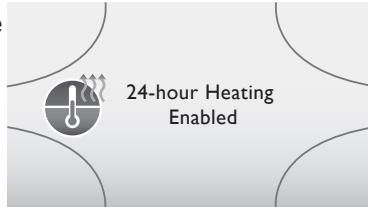


Figure D

12.3 Programmable Heating Mode

Programmable heating mode is typically selected by customers in warm climates where heat up times are minimized due to higher ambient temperatures. In this mode, the water temperature is regulated by the set temperature only when a programmed heating cycle is running, unless in summer logic page 62.

1. From the Heating Menu (Figure C), use the Quad keypad Down button to highlight the programmable setting, then press the Splash button to enable selection.

A. Program A Heating Mode

1. You are allowed to have two separate programs in the programmable mode, you can elect to use both or just one. Press the Splash button to enter the submenus for “Program A” (Figure E).

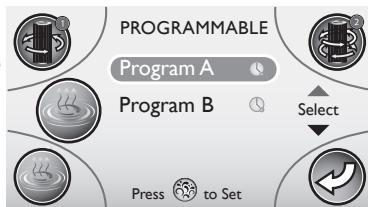


Figure E

- From this menu (Figure D), you can set the days, times, and duration. With “Day Settings” highlighted press the Splash button on the Quad Keypad to confirm selection.

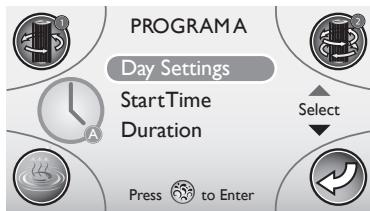


Figure D

- When you enter the submenu (Figure E), you can choose the day(s) you would like “Program A” to run for a heating cycle. Press the Up or Down button (on the Quad keypad) to scroll through and choose the days you would like the heater to activate. Press the Left or Right button to turn on (✓) or off the heater for that day.



Figure E

- Press the Splash button once to save settings.
- Press button D on the Quad Keypad to return to the submenu (Figure D) to continue programming the start time and duration.
- Press the Down button on the Quad keypad to select “Start Time” (Figure F). Press the Left or Right button on the Quad Keypad to select the time you wish the spa to run. Press the Down button on the Quad keypad to save setting.

Note: If you are using a standard 12-hour day, you will see the hour displayed as “1PM”. For the 24-hour period it will read “1300”.



Figure F

- Now you will need to adjust the cycle “Duration” (Figure G). Cycle duration range is adjustable from 0 (OFF) to 12 hours. Press the Left or Right button on the Quad keypad to make adjustments in increments of 1 hour.

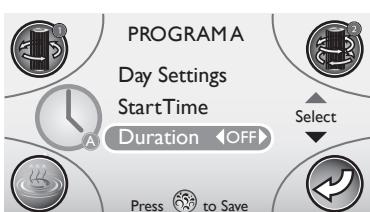


Figure G

J-400 Series

8. Press the Splash button on the Quad keypad to save your changes and return to the Heating Menu. At this point you can program a Secondary Heating Mode (Program B) or to continue on to the Filtering programming (see Section 12.5, page 62).

B. Program B Heating Mode

1. To program the Secondary Heating mode press the Down button on the Quad Keypad to highlight “Program B” (Figure H). Press the Splash button to enter the submenus for Program B.



Figure H

2. From this menu (Figure I), you can set the days, times, and duration. With “Day Settings” highlighted, press the Splash button on the Quad Keypad to confirm selection.

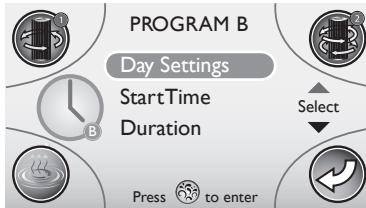


Figure I

3. When you enter the submenu (Figure J), you can choose the day(s) you would like “Program A” to run for a heating cycle. Press the Up or Down button (on the Quad keypad) to scroll through and change the days you would like the heating to activate. Press the Left or Right button to turn on () or off the heating for that day.



Figure J

4. Press the Splash button once to save settings.
5. Press button D on the Quad Keypad to return to the submenu to continue programming the start time and duration (Figure I).

6. Once back to the “Program B” Main Menu, press the Down button on the Quad keypad to highlight “Start Time” (Figure K). Press the Left or Right button on the Quad Keypad to select the time you wish the spa to run. Press the Down button on keypad to save setting.

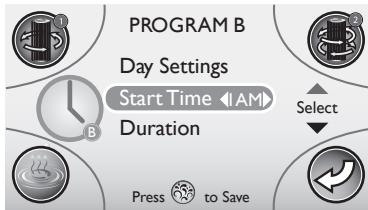


Figure K

Note: If you are using a standard 12-hour day, you will see the hour displayed as “1PM”. For the 24-hour period it will read “1300”.

7. Now you will need to adjust the “Duration” (Figure N) of the cycle. The duration range is from 0 (OFF) to 12 hours. Press the Left or Right button on the Quad Keypad to make your adjustment(s) in increments of 1 hour.

Note: The default “Duration” is OFF.

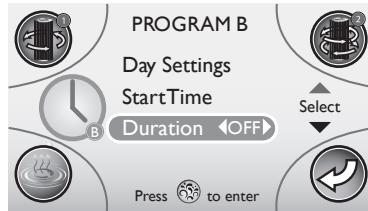


Figure N

8. Press the Splash button on the Quad Keypad to get back to the Heating Menu (page 58).

9. Press button D to exit the Heating Menu and return to the Setting 2 Main Menu. If you have programmed both heating cycles and the settings have been accepted, you will see the two program icons next to word Heating on the display (Figure O). If only one cycle was programmed, there will only be one icon. If no cycles were programmed there would be a thermometer with wavy arrows as the icon.

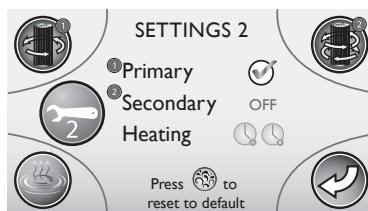


Figure O

12.4 Clean-Up “Blow-Out” Cycle

The clean-up cycle is once per day in both Auto-Heating and Programmable modes at 12:00 (noon) for two minutes. This is not user programmable. Each jets pump activates for one minute to circulate any water in the plumbing unless a pump has just finished a 20 minute time out, it will not automatically activate for the clean-up cycle. Be aware, the factory programmed clean-up cycle cannot be canceled or altered!

12.5 Programming the Primary Filter Cycle

- To program the Primary Filter cycle press button A (Figure A). This cycle is mainly used to alter the 24-hour running period of the circulation pump. (If you would like to leave the circulation pump as is, then skip this Section). Upon entering the Primary submenu the “Start Time” will be highlighted (Figure B).

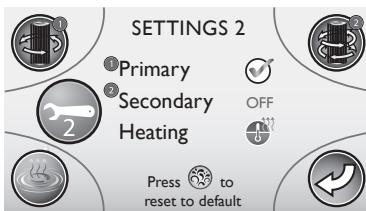


Figure A

- Press the Left or Right button on the Quad keypad to choose the hour you want the circulation pump to start running.

Note: If you are using a standard 12-hour day, you will see the hour displayed as “1PM”. For the 24-hour period it will read “1300”.

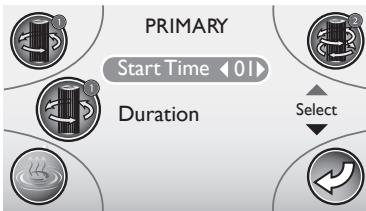


Figure B

- Now you will need to adjust the “Duration” (Figure C) of the cycle. Press the Left or Right button on the Quad keypad to make adjustments in increments of 1 hour. Press the Splash button on the Quad keypad to save hour and duration selections and return to the Setting 2 Main Menu (Figure A).

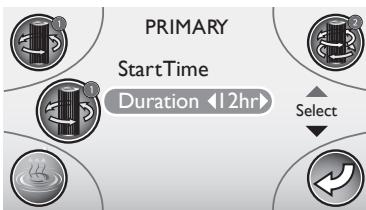


Figure C

Summer Logic: In warm weather, the water temperature in the spa may exceed the set temperature. This condition may occur due to heat transference from the filter/circulation pump and jets pumps. If the water temperature is higher than 95 °F (35 °C) and rises two degrees above the set temperature, a “Summer Logic” condition occurs that deactivates the filter/circulation pump and ozonator (if equipped). This safety feature cannot be altered! The filter/circulation pump and ozonator will remain off until the water temperature cools to the set temperature (except between 9:00-11:00 AM when the filter/circulation pump runs for its mandatory 2-hour cycle). To help prevent a “Summer Logic” condition, it may be necessary to reduce filter/circulation pump cycles run times in warm weather.

12.6 Programming the Secondary Filter Cycle

- To program the Secondary Filter cycle, press button C. This cycle will activate the main jet pump to run for additional filtration when programmed. If you choose not to use this feature, please skip this Section.

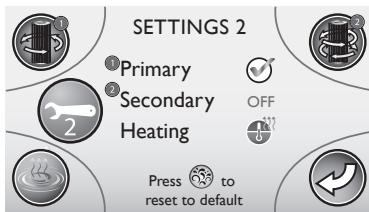


Figure D

- When you enter the Secondary Filter Cycle submenu, the "Day Settings" will be highlighted (Figure E). From this menu, you can set the day, time, and duration. Press the Splash button on the Quad keypad to confirm selection.

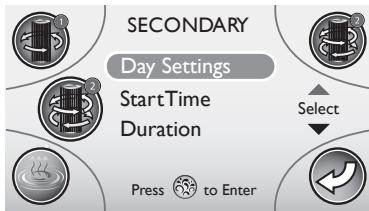


Figure E

- You can choose the day(s) you would like to run a secondary filter cycle. Press the Up or Down button on the Quad keypad to scroll through and change the days you would like the filtration to run. Press the Left or Right button to turn on () or off the filtration for that day.

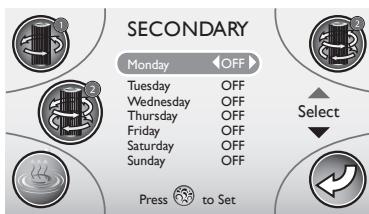


Figure F

- Press the Splash button to save settings.
- Press button D on the Quad Keypad to return to the submenu to continue programming the start time and duration (Figure E).
- Press the Down button on the Quad Keypad to highlight "Start Time" (Figure G). Press the Left or Right button on the Quad Keypad to select the time you wish the spa to filter. Press the Down button to save settings.

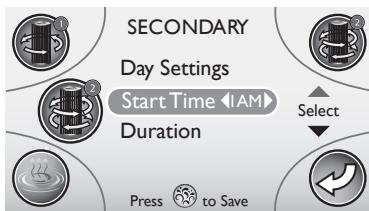


Figure G

Note: If you are using a standard 12-hour day, you will see the hour displayed as "1PM". For the 24-hour period it will read "1300".

J-400 Series

- Now you will need to adjust the filter cycle "Duration" (Figure G). The duration range is from 0 (OFF) to 120 minutes. Press the Left or Right button on the Quad Keypad to make your adjustments in increments of 15 minutes.

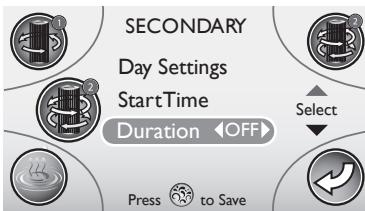


Figure G

- Press the Splash button on the quad keypad to save selection. Then press button D several times to return to the main operation menu (page 32).

13.0 Spa Maintenance

Proper and regular maintenance of your spa will help it retain its beauty and performance. Your authorized Jacuzzi dealer can supply you with all the information, supplies, and accessory products you will need to accomplish this.



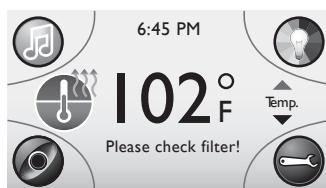
WARNING: Risk of Injury. The suction fittings in this spa are sized to match the specific water flow created by the pump. If it is necessary to replace the suction fittings or the pump, be sure that the flow rates are compatible. Because of the risk of injury:

- Never operate or use the spa if the filter, filter lid, or skimmer assembly are broken or any part of the skimmer assembly is missing. Please contact your dealer or nearest service center for service.
- Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

13.1 Cleaning the Filter Cartridges

A programmable "Please Check Filter" reminder appears on the control panel display after a specified number days to remind you to clean the skimmer filter and to check the polishing bag filter. This reminder must be reset at each filter cleaning interval. Refer to section 11.3

(page 54) for additional information and programming details. Your new spa is equipped with an advanced 2-stage filtration system. Fine debris are filtered by the circulation pump drawing water through the ProClear™ skimmer and pleated filter cartridge 24 hours (unless programmed otherwise). Large debris are filtered when either jets pump is running when the spa is in use or during a programmed filter cycle. These pumps draw water from footwell suction fitting and through a secondary water



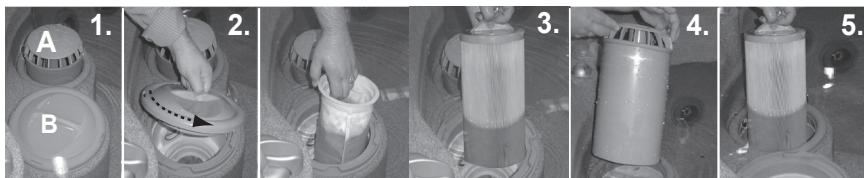
polishing bag filter and additional filter. The exclusive footwell “sweeper” suction fitting enhances filtration in the footwell area by creating a “swirling” water motion to maximize particle agitation and pickup.

To ensure optimum performance, the 24-hour ProClear™ II skimming filter cartridge (A) must be cleaned every three months and replaced once a year. The secondary ProClear™ Plus polishing filter bag (B) should be emptied weekly and replaced every 3 months. The ProClear™ II filter cartridge (C) must be cleaned every three months and replaced once a year. To accomplish this, refer to the following filter cleaning procedure.



Note: Do not attempt to wash the polishing filter bag (B) or it will come apart!

ALWAYS TURN POWER TO THE SPA OFF BEFORE CLEANING THE FILTER CARTRIDGES! NEVER OPERATE SPA WITHOUT FILTER LID (2) AND SKIMMER ASSEMBLY (4) INSTALLED.



1. Remove power to the hot tub before removing the skimmer (A) or filter bag cover (B).
2. Remove the polishing bag lid (B) by rotating it counterclockwise approximately 5 degrees until you feel it unlatch.
3. Remove the polishing bag by reaching into the filter bucket and gently pulling upward on the blue filter ring (empty filter bag weekly or install a new bag every three months.) Located below the bag is a small Proclear filter. Remove the filter by rotating it counterclockwise. For cleaning procedures see step 6 below. Once the filter has been cleaned or replaced, reinstall it into the skimmer below the polishing bag. Replace bag, then install filter lid by rotating it clockwise until you feel it latch in place. **DO NOT FORCE LID! FINGER TIGHT ONLY!**
4. Remove the ProClear skimmer assembly (A) by gently lifting upward from the filter bucket.
5. Remove the ProClear filter cartridge by rotating it counterclockwise to unthread it, then remove the center cap and chemical dispenser from the filter cartridge as shown (right).



J-400 Series

6. Clean the ProClear filter cartridges with a garden hose and high pressure nozzle. Rinse debris from the filter pleats beginning at the top and working your way downward. Continue, one section at a time until you have cleaned all debris from the filter pleats. When replacing the filter cartridge, make sure you remove the center cap and chemical dispenser for use with the new cartridge. Replacement filter cartridges may be purchased from your authorized Jacuzzi dealer.

13.2 Draining and Refilling

About every 3 to 6 months, you will want to replace the spa's water. The frequency depends on a number of variables including the amount of use, number of users, attention paid to water quality maintenance, etc. You will know it is time for a change when you cannot control sudsing and/or you can no longer get the normal feel or sparkle to the water even though the key water balance measurements are all within the proper parameters.

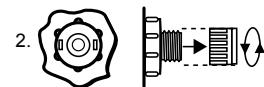
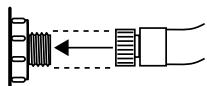


CAUTION! READ THIS BEFORE DRAINING: To prevent damage to the spas components, turn off power to the spa at the circuit breaker before draining it. Do not turn the power back on until your spa has been refilled.



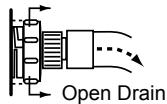
CAUTION: There are certain precautions to keep in mind when draining your spa. If it is extremely cold, and the spa is outdoors, freezing could occur in the lines or the equipment (see "WINTERIZING", page 68). On the other hand, if it is hot outdoors, do not leave the spa's surface exposed to direct sunlight.

To drain your spa, perform the following steps:

1. Turn off power to spa at breaker.
2. Locate the drain valve located on the front left corner on the black plastic pan. Hold the larger (rear) drain valve body to prevent it from turning, then loosen and remove the front cap to expose the underlying male hose threads.
3. Attach a garden hose to the exposed threads.
4. Gently rotate the larger (rear) valve body 1/3 turn counterclockwise to unlock the drain valve.

5. Pull the larger (rear) body outward as shown to open drain.
6. After the spa drains, perform steps 2-5 in reverse order to close the drain prior to refilling spa.

5.



After refilling, turn on power to the spa and follow the steps listed under "Spa Fill Up Procedures." (page 15). Always fill your spa through both filter buckets.

13.3 Cleaning the Spa Interior

To preserve the sheen of your spa's surface, it is crucial that you avoid using abrasive cleaners or cleaners which have adverse chemical effect on the surface. If you are not certain as to the suitability of a particular cleanser, consult your authorized Jacuzzi dealer. Regardless of the cleanser used, use extreme care to assure that no soap residue is left on the surface. This could cause severe sudsing when the spa is refilled.

13.4 Pillow Care

Clean the four headrests in your spa as needed by wiping them with a cloth with soapy water. It is not necessary to remove the headrests for cleaning.

To remove headrests for long term storage or replacement, grasp both ends of each headrest and gently pull inward towards the center of the spa. To reinstall, over mounting strip and press down until headrest mounting bracket emits a "click" sound. Then adjust headrest height by simply moving up or down as desired.

13.5 Maintaining the Synthetic Cabinet

The synthetic cabinet requires little or no maintenance of any kind. To clean, simply wipe cabinet with mild detergent soap solution and a clean towel.



CAUTION: Never spray cabinet with a high pressure garden hose for any reason since this action may induce an electrical short in the spa's electrical equipment.

13.6 Maintaining the Cover

Using the Jacuzzi insulating spa cover anytime the spa is not in use will significantly reduce your operating costs, heat-up time, and maintenance requirements. To prolong the life of the cover, handle it with care and clean it regularly using mild soap and water. Periodic treatments with a special conditioner developed for Jacuzzi spa covers will help protect

J-400 Series

against deterioration caused by UV rays from the sun. Never allow anyone to stand or sit on the cover, and avoid dragging it across rough surfaces.

13.7 Winterizing

Your Jacuzzi spa is designed to automatically protect itself against freezing when operating properly. During periods of severe freezing temperatures, you should check periodically to be certain that the electrical supply to the spa has not been interrupted. In extreme, bitter cold weather (less than -20°F) verify auto-heating is set for 24-hour operation (Section 12.5 Programming The Primary Filter Cycle, page 62) and that auto-heating is selected (Section 12.2 Auto-Heating or Section 12.3 Programmable Heating Mode, page 58) to protect against damage to the spa.

If you do not intend to use your spa, or if there is a prolonged power outage during periods of severe freezing temperatures, it is important that all water be removed from the spa and equipment to protect against damage from freezing.

For expert winterization of your spa, contact your authorized Jacuzzi dealer. In emergency situations, damage can be minimized by taking the following steps:



CAUTION: Turn off power to spa.

1. Follow the directions on page 66 for draining the spa.
2. As the water level drops below the seats, use whatever means necessary to get the water out of the recessed seating areas and into the footwell.
3. When the water level ceases to drop, use whatever means available to remove any remaining water from the footwell.
4. Remove the equipment-side cabinet panels and locate the drain plugs in the front of each pump (Figure A, page 11). Remove these plugs to allow the water to drain out of the pumps and heater.

Note: Approximately one to two gallons will be released during this procedure. Use a wet/dry vacuum or other means to keep this from flooding the equipment compartment. Replace the drain plugs.

5. Loosen hose clamp at bottom of heater (Figure A, page 11) and pull hose off of heater fitting (twist the hose back and forth while pulling downward). Tip hose down and allow to drain, then reinstall hose and clamp.
6. Re-install cabinet side panels and cover spa so that no casual moisture can enter into it.

Consult your Jacuzzi dealer if you have any questions regarding winter use or winterizing.

13.8 Restarting Your Spa in Cold Weather

If you want to start up your spa after it has sat empty for a time in freezing temperatures, be aware that the water remaining in certain sections of the piping may still be frozen. This situation will block water flow preventing the spa from operating properly and possibly damaging the equipment. We recommend you consult your dealer for guidance before attempting to restart your spa under these conditions.

14.0 Water Quality Maintenance

Maintaining the quality of the water within specified limits will serve to enhance your enjoyment and prolong the life of the spa's equipment. It is a fairly simple task, but it requires regular attention because the water chemistry involved is a balance of several factors. There is no simple formula, and there is no avoiding it. Procrastination in regard to water maintenance will result in poor and potentially unhealthful conditions for soaking and even damage to your spa investment. For specific guidance on maintaining water quality, consult your Authorized Jacuzzi dealer who can recommend appropriate chemical products for sanitizing and maintaining your spa.



CAUTION: Never store spa chemicals inside the spa's equipment bay.

14.1 pH Control

pH is a measure of relative acidity or alkalinity of water and is measured on a scale of 0 to 14. The midpoint of 7 is said to be neutral, above which is alkaline and below which is acidic. In spa water, it is very important to maintain a slightly alkaline condition of 7.4 to 7.6. Problems become proportionately severe the further outside of this range the water gets. A low pH will be corrosive to metals in the spa equipment. A high pH will cause minerals to deposit on the interior surface (scaling). In addition, the ability of the sanitation agents to keep the spa clean is severely affected as the pH moves beyond the ideal range. That is why almost all spa water test kits contain a measure for pH as well as sanitizer.

14.2 Sanitizing

To destroy bacteria and organic compounds in the spa water, a sanitizer must be used regularly. Chlorine and bromine are the two most popular

J-400 Series

sanitizers used to date. Many other additives are available for your spa. Some are necessary to compensate for out-of-balance water, some aid in cosmetic water treatment and others simply alter the feel or smell of the water. Your authorized jacuzzi dealer can advise you on the use of these additives.



IMPORTANT: Do not use chlorine tablets (trichlor) in your spa. This chemical can have an extremely corrosive effect on certain materials in the spa. Damage caused by use of this chemical, or improper use of any chemicals, is not covered under the spa's warranty.

14.3 Other Additives

Many other additives are available for your spa. Some are necessary to compensate for out-of-balance water, some aid in cosmetic water treatment and others simply alter the feel or smell of the water. Your authorized Jacuzzi dealer can advise you on the use of these additives.

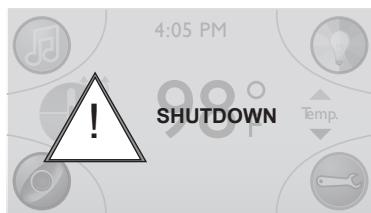
14.4 Ozone Water Maintenance System (Optional)

This system is optional on North American models and standard equipment on export 50 Hz modes. If you spa is equipped with the Jacuzzi CD ozone water purification system you will find that your water stays fresh and clear with significantly less chemical usage. You will probably be able to go longer between complete spa drainings.

Note: The ozone only runs when the circulation pump is running and shuts off when either jets pump is manually activated during spa use. The circulation pump will remain off for 5 minutes after both jets pumps time out or are manually turned off, then resume operation as programmed.

15.0 Troubleshooting-Display Messages

There are a number of unique functions designed into your Jacuzzi spa to protect it from damage and/or to aid in troubleshooting. When an error occurs the spa will notify you by showing the screen below and an error code next to it. Following is a listing of all the possible messages along with their meanings:



MESSAGE	MEANING
OVERHEAT	Overheat protection: (Heater is deactivated, filter/circulation pump is activated). Water temperature is above acceptable limits. DO NOT ENTER THE WATER! Remove spa cover to speed cooling. See "Water Is Too Hot" on page 75. If condition persists, contact your authorized dealer or authorized service center.
COOL	Water is below set-temp: If the spa water is more than 20 °F/6 °C cooler than the temperature set point, jets pump #1 and the heater will automatically activate to provide freeze protection. The spa will stay in this mode until the water temperature reaches 15 degrees below the set temperature. No corrective action is necessary.
COM	Communication error: Communication between the control panel and circuit board is faulty. If condition persists, contact your authorized dealer or service organization.
UNDER CURRENT, CIRC PUMP OR JET PUMP	Pump does not operate: (Heater is deactivated. The filter/circulation may also be deactivated). Proper flow of water is inhibited or a flow switch has malfunctioned. Check for proper water level and for clogged filter (page 64). If no sound is detected or if a "buzzing" sound is detected, turn off power to the hot tub. Pump may not be properly primed. If condition persists, contact your authorized dealer or service organization.
ICE	Freeze protection: A potential freeze condition has been detected. No action is required. Jets pump(s) operate until the spa is out of danger. It is possible to manually turn off pump 1 and pump 2, but if after 2 hours ICE is still detected, pumps will automatically turn back on. Note: This error commonly occurs when the spa is first filled because tap water is often very cold.
SHUTDOWN	Emergency shutdown: (spa is deactivated) A problem has been detected which could cause damage to the spa or its components. Contact your authorized dealer or service organization.
SENSOR OPEN, TEMP SENSOR	Open sensor: The temperature sensor is not functional. Heater is disabled. This must be repaired only by a qualified authorized service organization or service technician.

J-400 Series

SENSOR SHORT, TEMP SENSOR	Shorted sensor: The temperature sensor is not functional. Heater is disabled. This must be repaired only by a qualified authorized service organization or service technician.
SENSOR OPEN, HI-LIMIT SENSOR	Open sensor: The hi-limit temperature sensor is not functional. Heater is disabled. This must be repaired only by a qualified authorized service organization or service technician.
SENSOR SHORT, HI-LIMIT SENSOR	Shorted sensor: The hi-limit temperature sensor is not functional. Heater is disabled. This must be repaired only by a qualified authorized service organization or service technician.
FLOW	Start-up malfunction: Flow switch is non-functional. Closed or shorted flow switch on system start-up (system disabled). This must be repaired only by an authorized dealer or qualified service organization.



Blinking Heater icon: This icon will blink on and off to indicate that:

- The temperature sensor is sensing a -20 °F/6 °C difference between the actual and set temperature or;
- The temperature sensor is sensing a temperature above 112 °F/44 °C or the hi-limit temperature sensor is sensing a temperature above 116 °F/46 °C.

1. Extended Temperature Activated

The spa is set to go up to 104 °F (40 °C), but it can be set to reach 106 °F (41 °C). To access the extended temperature you must press the “Up” button and the button D (on the Quad keypad) at the same time for 2 seconds. The system will now allow you to raise the temperature to 106 °F (41 °C) and the LCD display will read “EXTENDED TEMPERATURE ACTIVATED” (see Figure A). To clear this message, just press the Down button on the Quad Keypad to lower the temperature below or back to 104 °F (40 °C).



Figure A

2. Please Check Filter!

This message will appear when the filter reminder time has expired (see Figure B). Please remove the Proclear filters and filter bag for cleaning or replacement.



Figure B

3. Feature not installed (Exterior lights)
This message will appear when a user tries to activate the exterior lights and they are not installed (see Figure C). To clear the message press button D to return to Main Menu.



4. Clear Settings 2 Programs

This message will appear when you choose to reset all settings 2 menu settings back to factory defaults (Figure D). You can either press the Splash button to reset or press the Previous button D to cancel.

Figure D



5. Remote bonding screens

These message screens will appear when the wireless remote has been bonded to the spa and can now be used to control the functions (Figure E).

Figure E



16.0 Troubleshooting Procedures

In the unlikely event your spa is not working the way you believe it should, please first review all the installation and operating instructions in this manual and check the message on the panel display; second, if you are still not satisfied it is working properly, please follow the appropriate troubleshooting instructions.

PROBLEM	PROCEDURE
NONE OF THE COMPONENTS OPERATE (i.e. pump light)	<p>Check the control panel lights.</p> <ol style="list-style-type: none">1. If there are letters or symbols displayed on the screen, refer to the previous section to determine the meaning and action required.2. If nothing appears on the screen:<ol style="list-style-type: none">A. Check the household circuit breaker.B. Contact your dealer or authorized service center.
PUMP DOES NOT OPERATE AND ICON DOES	<p>Activate the "JETS":</p> <ol style="list-style-type: none">1. If no sound is detected or if a "buzzing" sound is detected, turn off power to the spa and contact your dealer or service center.2. If motor operates but no water flows to jets:<ol style="list-style-type: none">A. Pump may not be properly primed. See instructions below.B. Contact dealer or authorized service center.

Pump Priming Instructions:

1. Turn off power to the spa.
2. Remove the handle from the massage selector supplied by the pump you are priming.
3. Loosen the massage selector's cap slightly (counterclockwise), listening for the air to seep out.
4. Tighten the cap finger-tight, replace the handle and turn the hot tub's power back on.

Note: This method must be used for the jet's pumps because these pumps are not connected to the main filter system in any way.



CAUTION: If freezing conditions exist and pump is not operational, take measures to protect the system from freeze damage. See section titled "Winterizing" (page 68).