

J-4™ Collection

Owner's Manual

Rev A

J408L™

J408™

J404L™

Attention New Spa Owner!

Congratulations on the purchase of your new Jacuzzi® spa! The following is a list of automated functions performed by your spa. These functions are listed below in an attempt to alleviate any operational concerns you may have during the first 24 hours of ownership! Also listed below are important maintenance recommendations you should observe on a regular basis to protect your new investment.

Maintain Healthy Spa Water

Always maintain your spa's water chemistry within the following parameters:
Note: Follow the water chemistry parameters as defined by the Pool & Hot Tub Alliance if not equipped with one of our sanitizing systems.

	Parameters*♦
pH	**7.4-7.6**
Free Chlorine	**0.5-1.0 ppm**
Total Alkalinity	**100-150 ppm**
Calcium Hardness	**150-250 ppm**

*Based on FROG® @ease® system and SmartChlor® cartridges (visit frogproducts.com for more information) or approved other sanitizers at same levels.

♦Canada - Based on FROG Serene® Floating System (visit frogproducts.com for more information) or other approved sanitizers at same levels.

♦Canada - Hot tubs equipped with True systems in Canada should maintain Free Chlorine levels of 1-3 ppm, check your local regulations for most current information.

⚠ **TO DECREASE RISK OF INFECTION OR DISEASE!** Always maintain your spas filter as outlined below to ensure healthy spa water. Refer page 49 "Water Quality Maintenance" for additional information.

Required Filter Maintenance

Your new spa is equipped with an advanced water filtration system that provides unsurpassed water quality! To ensure maximum water quality at all times, you should clean both filter cartridges every month, or earlier as necessary. See page 41 for detailed filter cartridge cleaning/replacement instructions.

Required Water Replacement

⚠ **TO DECREASE RISK OF INFECTION OR DISEASE!** You should replace the spa's water every 3 months. The frequency depends on a number of variables including frequency of use, number of users, and attention paid to water quality maintenance. 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. See page 49 for additional information.

Specifications and operations subject to change without notice.

Table of Contents

1.0 Important Spa Owner Information....1
2.0 FCC Notice....1

3.0 Important Safety Instructions for all Spa Owners....2
3.1 Entrapment Risk....6
3.2 Hyperthermia....7
3.3 PRECAUTIONS-Important Chemical Safety....7
3.4 PRECAUTIONS FOR USE OF PRODUCTS CONTAINING SODIUM BROMIDE....8
3.5 Important Additional Safety Instructions....8
3.6 General Electrical Safety Instructions....8

4.0 Choosing A Location....9
4.1 Outdoor Location....10
4.2 Indoor Location....10

5.0 General Electrical Safety Instructions....11
6.0 Electrical Wiring Instructions....12
7.0 Power Requirements....15
8.0 Spa Fill Up Procedure....15

9.0 Spa Features....20
9.1 General Spa Features And Controls....20

10.0 Operating Instructions....21
10.1 Register Your New Spa....21
10.2 Control Panel....22
10.3 Activate Jet Pumps....24
10.4 Activating the Lights....25
10.5 Adjusting Jet Flow....26
10.6 Waterfall Control....26
10.7 Air Controls....26
10.8 Selecting the Desired Massage Action....26
10.9 IR and Red-Light Therapy....26
10.10 Exterior Lights....27
10.11 Cleanup Cycle....27
10.12 Boost Cycle....27
10.13 SmartTub® System....27

11.0 Menu Features and Programming Instructions....29
11.1 Programming the Heat Settings....30
11.2 Programming the True Water™ Filtration....31
11.3 Programming the Time....32
11.4 Programming the Date....33
11.5 Programming the Water Care Reminders....33
11.6 Locking the Spa....36
11.7 Unit Display....38
11.8 Programming the Language....38

© Jacuzzi Hot Tubs. All Rights Reserved

11.9 Programming the Panel 39
11.10 Diagnostic Menu 39
11.11 Polling 40

12.0 Spa Maintenance 41
12.1 Cleaning The Filters 41
12.2 Draining and Refilling 45
12.3 Pillow Care 46
12.4 Cleaning The Spa Interior 46
12.5 Maintaining the Cover 46
12.6 Maintaining The Synthetic Cabinet 47
12.7 Top Rail Care And Maintenance 47
12.8 Stainless Steel Corners 47
12.9 Winterizing 48
12.10 Restarting Your Spa in Cold Weather 49

13.0 Water Quality Maintenance 49
13.1 pH Control 49
13.2 Sanitizing 50

14.0 Error/Display Messages 50
15.0 Troubleshooting Procedures 54

16.0 Circuit Board Diagrams 56
16.1 North American Dedicated Power Models (60 Hz) 56
16.2 Dip Switch Settings 57

17.0 Changing the Air Filter and Sensor Battery 58

1.0 Important Spa Owner Information

Your Jacuzzi spa is constructed to the highest standards and is capable of providing many years of trouble-free use. However, because heat retentive materials are utilized to insulate the spa for efficient operation, an uncovered spa surface and wall fittings directly exposed to sunlight and high temperatures for an extended period are subject to permanent damage. Damage caused by exposing the spa to this abuse is not covered under warranty. We recommend that you always keep the spa full of water when it is exposed to direct sunlight and that you keep the Jacuzzi premium insulating cover in place at all times when the spa is not in use. Read and carefully follow the requirements for your spa's support base found in Section 4.0 titled, "Choosing A Location" (page 9).

Jacuzzi® Hot Tubs constantly strives to offer the finest spas available, therefore modifications and enhancements may be made which affect the specifications, illustrations and/or instructions contained herein.

2.0 FCC Notice

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Rearrange or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from the circuit connected.
4. Consult the dealer or an experienced radio/TV technician for help. Changes or modifications not expressly approved by the party responsible for FCC compliance could void the user's authority to operate this equipment.

3.0 Important Safety Instructions for all Spa Owners

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY!
This spa was manufactured to meet the standards and specifications outlined in the “Virginia Graeme Baker Pool and Spa Safety Act” (VGB Safety Act). When installing and using this spa, basic safety precautions should always be followed, including:

1. ⚠ **DANGER: RISK OF SEVERE INJURY OR DROWNING!**

- Extreme caution must be exercised to prevent unauthorized access by children.
- To avoid accidents, ensure that children do not use this spa unless supervised at all times. Adult supervision is a critical safety factor in preventing children from drowning.
- Use the straps and clip tie downs to secure the spa cover when not in use. This will help discourage unsupervised children from entering the spa. Keep the spa cover secure in high-wind conditions.
- There is no representation that the cover, clip tie-downs, or actual locks will prevent access to the spa.

2. ⚠ **DANGER: RISK OF SEVERE INJURY OR DROWNING!**

- Keep hair, loose articles of clothing or hanging jewelry away from suction fittings, rotating jets or other moving components to avoid entrapment that could lead to drowning or severe injury.
- Never use the spa unless all suction guards, filter, filter lid, or skimmer assembly are installed to prevent body and/or hair entrapment.
- 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.
- The suction fittings and suction covers in this spa are sized to match the specific water flow created by the pump(s). If it is necessary to replace the suction fittings, suction covers or pump(s), be sure that the flow rates are compatible and are in compliance with the VGB Safety Act.
- Never replace a suction fitting or suction cover with one rated less than the flow rate marked on the original suction fitting. Using improper suction fittings or suction covers can create a body or hair suction entrapment hazard that may lead to drowning or severe injury.

3. ⚠ **DANGER: RISK OF SEVERE INJURY FROM ELECTRIC SHOCK OR DEATH FROM ELECTROCUTION!**

- Install the spa at least 5 feet (1.5m), from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected (bonded) by a minimum No. 8 AWG (8.4 mm²) solid copper conductor attached to the wire connector on the grounding lug, inside the equipment compartment on the equipment box.

- A grounding wire connector is provided on this unit to connect a minimum No. 8 AWG (8.4 mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5m) of the unit.
- Never permit any electrical appliance, such as a light, telephone, radio, television, etc. within 5 feet (1.5m) of a spa unless such appliances are built-in by the manufacturer.
- Never bring any electrical appliances into or near the spa.
- Never operate any electrical appliances from inside the spa or when you are wet.
- The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Article 422.20 of the National Electrical Code/USA, ANSI/NFPA 70. The disconnecting means must be readily accessible and visible to the spa occupant but installed at least 5 feet (1.5m), from the spa.
- The electrical circuit supplied for the hot tub must include a suitable ground fault circuit interrupter (GFCI) as required by NEC Article 680.42.

4. ⚠ **WARNING: RISK OF SEVERE INJURY OR DEATH!**

- Extreme caution must be exercised to prevent diving or jumping into the spa or slipping and falling, which could result in unconsciousness, drowning, or serious injury. Remember that wet surfaces can be very slippery.
- Never stand, walk or sit on the top railing of the spa.

5. ⚠ **WARNING: RISK OF HYPERTHERMIA (OVER-HEATING) CAUSING SEVERE INJURY, BURNS, WELTS OR DEATH!**

- Water temperature in excess of 104°F (40°C) may be injurious to your health.
- Refer to Section 3.2 Hyperthermia for specific causes and symptoms of this condition.
- The water in the spa should never exceed 104°F (40°C). Water temperatures between 100°F (38°C) and 104°F (40°C) are considered safe for a healthy adult.
- Lower water temperatures are recommended for young children (children are especially sensitive to hot water) and when spa use may exceed 10 minutes.
- The Consumer Products Safety Commission/USA has stated that the water temperature in a spa should not exceed 104°F (40°C).
- Always test the spa water temperature before entering the spa. The user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary as much as +/- 5°F (2°C).

6. ⚠ **WARNING: RISK OF SEVERE INJURY OR DEATH!**

- Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, if pregnant or possibly pregnant, consult your physician before using a spa.
- Pregnant or possibly pregnant women should limit spa water temperatures to 100°F (38°C).
- Persons suffering from obesity or a medical history of heart disease, low or high blood pressure, circulatory system problems, diabetes, infectious diseases or immune deficiency syndromes should consult a physician before using a spa.
- If you experience breathing difficulties in association with using or operating your spa, discontinue use and consult your physician.
- 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.
- Persons suffering from any condition requiring medical treatment, the elderly, or infants should consult with a physician before using a spa.
- The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.

7. ⚠ **WARNING: RISK OF SEVERE INJURY OR DEATH!**

- Prolonged immersion in a spa may be injurious to your health.
- Observe a reasonable time limit when using the spa. Exposures at higher temperatures can cause high body temperature (overheating). Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could possibly result in drowning or serious injury.
- Never use a spa immediately following strenuous exercise. Enter and exit the spa slowly. Wet surfaces can be slippery.

8. ⚠ **WARNING: TO DECREASE RISK OF INFECTION OR DISEASE!**

- To reduce the risk of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory ailments, maintain water chemistry within the parameters listed on the inside cover of this manual and consult with a licensed engineer regarding proper ventilation if installed indoors or in an enclosed area.
- People with infectious diseases should not use a spa to avoid water contamination, which could result in spreading infections to others.
- Always shower before and after using your spa. Maintain water chemistry in accordance with manufacturer's instructions. Failure to do so may result in contracting a waterborne illness (e.g. an infection, bacteria or virus).

9. ⚠ **WARNING:** In addition to maintenance of filters and water chemistry, proper ventilation is recommended to reduce the risk of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory ailments that could be present in the air or water. Consult a licensed architect or building contractor to determine your specific needs if installing your hot tub indoors.

10. **CAUTION: TO DECREASE RISK OF PRODUCT DAMAGE.**

- Maintain water chemistry in accordance with manufacturer's instructions.
- Proper chemical maintenance of spa water is necessary to maintain safe water and prevent possible damage to spa components.

11. ⚠ **WARNING: RISK OF SEVERE INJURY OR DEATH!** The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

12. **NOTE:** This spa is not intended nor designed to be used in a commercial or public application. The spa buyer shall determine whether there are any code restrictions on the use or installation of this spa since local code requirements vary from one locality to another.

Hot Tub Safety

To ensure you have a safe and enjoyable hot tub experience, learn all you can about hot tub safety and emergency procedures.

The Pool & Hot Tub Alliance has a great source of safety literature.

- Go to http://phta.org
- Conduct your own search on the internet
- Write to the following address:

Pool & Hot Tub Alliance
2111 Eisenhower Avenue
Alexandria VA 22314
703.838.0083

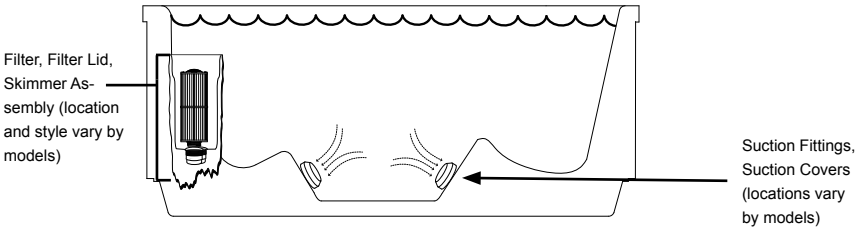
Proposition 65 (FOR CALIFORNIA RESIDENTS ONLY)

⚠ **WARNING:** Cancer and Reproductive Harm
www.p65Warnings.ca.gov

3.1 Entrapment Risk

The Consumer Products Safety Commission/USA has reported that users of pools and spas have become entrapped (stuck) to drain and/or suction fittings causing death, drowning, or serious injury (see diagram below). This spa was manufactured to meet the standards and specifications outlined in the “Virginia Graeme Baker Pool and Spa Safety Act” (VGB Safety Act). Entrapment risk can be minimized if proper precautions are taken.

DANGER: RISK OF PERSONAL INJURY OR DEATH!
Never operate the spa if a suction fitting, suction cover, filter, filter lid or skimmer assembly are broken, damaged or missing.



NOTE: SUCTION COVERS MUST BE REPLACED EVERY 7 YEARS.

1. **DANGER: RISK OF SEVERE INJURY OR DROWNING!**
   Hair entrapment: May occur if hair is entangled, knotted or snagged in a drain suction or skimmer assembly. This has been reported in persons who when submerge themselves underwater, allowing hair to come close and/or within the reach of the suction fittings, suction covers or skimmer assembly.
- Keep hair away from suction fittings, suction covers, filter, filter lid or skimmer assembly.
- Children are at risk for hair entrapment if swimming under water.
- Never allow children to play or get near the suction fittings, suction covers, filter, filter lid or skimmer assembly.

2. **DANGER: RISK OF SEVERE INJURY OR DROWNING!**
   Limb entrapment: May occur when a limb becomes entrapped, inserted or sucked into a suction or outlet opening.
- Always keep suction fittings, suction covers, filter, filter lid or skimmer assembly in place when operating to avoid limb entrapment.
- Never allow children to play or get near the suction fittings, suction covers, filter, filter lid or skimmer assembly.

3. **DANGER: RISK OF SEVERE INJURY OR DROWNING!**
   Body entrapment: May occur when part of the torso becomes entrapped, inserted or sucked into a suction or outlet opening.
- Never allow children to play or get near the suction fittings, suction covers, filter, filter lid or skimmer assembly.

4. ⚠ **DANGER: RISK OF SEVERE INJURY OR DROWNING!**
Evisceration (disembowelment) entrapment: May occur when the buttocks become entrapped, inserted or sucked into a suction or outlet opening.
- Never sit on suction fittings, suction covers, filter, filter lid or skimmer assembly.
- Never allow children to play or get near the suction fittings, suction covers, filter, filter lid or skimmer assembly.

5. ⚠ **DANGER: RISK OF SEVERE INJURY OR DROWNING!**
Mechanical entrapment: May occur when jewelry, swimsuit, or hair accessories become entangled, knotted or snagged in a drain suction or skimmer assembly.
- Never allow your jewelry, swimsuit, or hair accessories to come close to the suction fittings, suction covers or skimmer assembly.
- Never allow children to play or get near the suction fittings, suction covers, filter, filter lid or skimmer assembly.

3.2 Hyperthermia

Prolonged immersion in hot water may induce hyperthermia (over-heating). The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in spas. A description of the causes, symptoms, and effects of hyperthermia are as follows:

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). The symptoms of hyperthermia include drowsiness, lethargy (fatigue), and an increase in the internal temperature of the body (feeling of being too hot). The effects of hyperthermia include:

- Unawareness of impending hazard;
- Failure to perceive heat;
- Failure to recognize the need to exit spa;
- Physical inability to exit spa;
- Fetal damage in pregnant women; and
- Unconsciousness and DANGER of drowning.

A Warning Sign is provided in your warranty packet. Please install at a location near your spa, where it is visible to users of the spa. For additional or replacement Warning Signs please contact your local Jacuzzi dealer and reference item number #6530-082.

3.3 PRECAUTIONS-Important Chemical Safety

Do not use this device with bromide products.

3.4 PRECAUTIONS FOR USE OF PRODUCTS CONTAINING SODIUM BROMIDE

- Do not use any Product containing Sodium Bromide with an electrolysis device (for example, a chlorine generator).
- Do not use any Product containing Sodium Bromide with ozonation.
- Do not use any Product containing Sodium Bromide with ultraviolet (UV).

3.5 Important Additional Safety Instructions

When using this electrical equipment, basic safety precautions should always be followed, including the following:

1. **READ AND FOLLOW ALL INSTRUCTIONS.**
2. A green colored terminal or a terminal marked G, Gr, Ground, Grounding or the ⏚ symbol* is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors that supply this equipment (*IEC Publication 417, Symbol 5019).
3. At least two lugs marked “Bonding Lugs” are provided on the external surface or on the inside of the supply terminal box/compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the spa to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG (10 mm²).
4. All field installed metal components such as rails, ladders, drains or other similar hardware within 10 feet (3m) of the spa shall be bonded to the equipment grounding buss with copper conductors not smaller than No. 6 AWG (10 mm²).
5. **SAVE THESE INSTRUCTIONS.**

3.6 General Electrical Safety Instructions

Your new Jacuzzi spa is equipped with a “state-of-the-art” equipment system. It contains the most advanced safety and self-protective equipment in the industry. Nonetheless, this spa must be installed properly to ensure dependable usage. Please contact your local Jacuzzi dealer or local building department should you have any questions regarding your installation.

Proper grounding is extremely important. Jacuzzi spas are equipped with a current collector system. A pressure wire connector is provided on the surface of the control box, located outside the equipment door (Figure C, page 14) to permit connection of a bonding wire between this point and any ground metal equipment, metal water pipe or conduit within 5 feet (1.5m) of the spa, or copper clad grounding rod buried within 5 feet (1.5m) of the spa. Bonding wire must be at least No. 8 AWG (8.4 mm²) solid copper wire. This is a most important safety assurance feature. Before installing your spa, check with your local building department to insure installation conforms to local building codes.

4.0 Choosing A Location

IMPORTANT: Because of the combined weight of the spa, water and users, it is extremely important that the base upon which the spa rests be smooth, flat, level and capable of uniformly supporting this weight, without shifting or settling, for the entire time the spa is in place. Visit www.Jacuzzi.com for information. If the spa is placed on a surface which does not meet these requirements, damage to the skirt and/or the spa shell may result. Damage caused by improper support is not covered under warranty. It is the responsibility of the spa owner to assure the integrity of the support over time. We recommend a poured, reinforced concrete slab with a minimum thickness of 4 inches (10 cm). Wood decking is also acceptable provided it is constructed so that it meets the requirements outlined above.



WARNING: For spas that are to rest on balconies, roofs or other platforms not specifically tied into main structural support, consult a professional Structural Engineer with experience in this type of application.



WARNING: Proper drainage is required. The installation must not allow the spa equipment bay to become flooded or wetted (by external water). It is your responsibility, and the responsibility of any installation contractor you hire, to make sure that all applicable codes and/or local construction requirements are met. If in doubt, refer to the building authority responsible for approving the proposed installation site.

The spa must be installed in such a manner as to provide drainage away from it. Placing the spa in a depression without provisions for proper drainage could allow rain, overflow, leaks from spa plumbing, and other casual water to flood the equipment and create a wet condition in which it would sit in. For spas which will be installed below grade or recessed into a floor or deck, install so as to permit access to the equipment, either from above or below, for servicing. Make certain that there are no obstructions which would prevent removal of all side cabinet side panels and access to the jet components, especially on the side with the equipment bay.



CAUTION: If the spa is indoors or located in an enclosed area, proper ventilation should be discussed with an Engineer or authority competent enough to understand the necessary provisions needed to vent moist or heated air and air associated with chemical odors outdoors. **When the spa is in use considerable amounts of moisture will escape potentially causing mold and mildew.** This can cause health risk. Over time, this can damage certain surfaces, surroundings, and equipment.

To prevent unauthorized access and comply with local safety codes, the spa must be installed with measures that provide secure access control. This includes, but is not limited to, using a lockable spa cover, fencing, alarms, or other approved barriers. Consult with local Authorities to ensure all requirements for securing the spa are met in your installation jurisdiction.

4.1 Outdoor Location

In selecting the ideal outdoor location for your spa, we suggest that you take into consideration:

- The proximity to changing area and shelter (especially in colder weather).
- The pathway to and from your spa (this should be free of debris so that dirt and leaves are not easily tracked into the spa).
- The closeness to trees and shrubbery (remember that leaves and birds could create extra work in keeping the spa clean).
- A sheltered environment (less wind and weather exposure can result in lowered operation and maintenance costs).
- The overall enhancement of your environment. It is preferable not to place the spa under an unguttered roof overhang since run-off water will shorten the life expectancy of the spa cover.
- For spas that are to rest on balconies, roofs or other platforms not specifically tied into main structural support, consult a professional Structural Engineer with experience in this type of application.
- In the unlikely event that you should ever need to access or gain entry to any portion of the spa for servicing, it is highly recommended that you plan your outdoor installation to provide full access to the entire spa. Please take this into consideration when placing the spa in a deck or enclosed by a surrounding.
- Consider locating your spa away from any reflective surface or glass to prevent any damage to the synthetic skirt.
- Do not shim the spa. To ensure proper support the spa must sit flat on the intended foundation.

4.2 Indoor Location

For indoor installations many factors need to be considered before installing a spa indoors:



WARNING: In addition to maintenance of filters and water chemistry, proper ventilation is recommended to reduce the risk of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory ailments that could be present in the air or water. Consult a licensed architect or building contractor to determine your specific needs if installing your hot tub indoors.

- **Proper Foundation: Consult a Structural Engineer when considering a foundation that will adequately support the spa the entire time it is in place.** Proper support is critical especially if the spa is to rest on a second story or higher. For spas that are to rest on balconies, roofs or other platforms not specifically tied into the main structural support, you should consult a professional Structural Engineer with experience in this type of application.
- **Proper Drainage: It is extremely important to have in place measures to sufficiently handle excessive water spillage.** Be sure the flooring in which the spa rests on has adequate drainage and can handle the entire contents of the spa. Be sure to make provisions for ceilings and other structures that may be below the spas installation. Areas around your spa can become wet or moist so all flooring and subsequent furniture, walls and adjacent structures should be able to withstand or resist water and moisture.
- **Proper Ventilation: Proper ventilation should be discussed with an Engineer or authority competent enough to understand the necessary provisions needed to vent moist or heated air and air associated with chemical odors outdoors.** When the spa is in use considerable amounts of moisture will escape, potentially causing mold and mildew over time which can damage certain surfaces and/or surroundings.
- **WARNING – To reduce the risk of injury:** For spas or hot tubs installed indoors, proper ventilation is required to prevent undesired humidity build-up from spa water. For additional information on ventilation and humidity guidelines, refer to the *ASHRAE Handbook, HVAC Applications, I-P Edition*, Sections 4.5, 4.6, and 4.7.
- **Sufficient Access:** In the unlikely event that you should ever need to access or gain entry to any portion of the spa for servicing, it is highly recommended that you plan your indoor installation to provide full access to the entire spa.
- **Warranty:** Damage caused by not following these guidelines or any improper installation not in accordance to local codes or authorities is not covered under the spas warranty. Please consult your local state or city building ordinances.
- **Do not shim the spa.** To ensure proper support the spa must sit flat on the intended foundation.

5.0 General Electrical Safety Instructions



Your new Jacuzzi spa is equipped with a “state-of-the-art” equipment system. It contains the most advanced safety and self-protective equipment in the industry. Nonetheless, this spa must be installed properly to insure dependable usage. Please contact your dealer or local building department should you have any questions regarding your installation.

Proper grounding is extremely important. Jacuzzi spas are equipped with a current collector system. A pressure wire connector is provided on the surface of the control box, located outside the equipment door (Figure

C, page 14) to permit connection of a bonding wire between this point and any ground metal equipment, metal water pipe or conduit within 5 feet (1.5m) of the spa, or copper clad grounding rod buried within 5 feet (1.5m) of the spa. Bonding wire must be at least No. 8 AWG (8.4 mm²) solid copper wire. This is a most important safety assurance feature. Before installing this spa, check with the local building department to insure installation conforms to local building codes.

IMPORTANT NOTE: All Jacuzzi® Hot Tubs are specifically designed for portability and movement. Engineered to be freestanding, portable and accessible with no fixed position. These products comply with all relevant directives and standards for portable spas. These units should be properly installed by a certified installing electrician to the recommended service box (GFCI) as per local regulations. They can be easily moved and relocated if required.

6.0 Electrical Wiring Instructions

IMPORTANT NOTICE: The electrical wiring of this spa must meet the requirements of the National Electrical Code/USA (NEC) and/or any applicable state or local codes. The electrical circuit must be installed by a qualified electrician and approved by a local building/electrical inspection authority.

1. ⚠ **DANGER: TO DECREASE THE RISK OF SHOCK, PRODUCT DAMAGE OR ELECTRICAL FIRE!** This spa must be permanently connected (hard-wired) to the power supply. **No plug-in connections or extension cords are to be used in conjunction with the operation of this spa.** Supplying power to the spa, which is not in accordance with these instructions, will void both the independent testing agency listing and the manufacturer's warranty.
2. The power supplied to this spa must be a dedicated circuit with no other appliances or lights sharing the power provided by the circuit.
3. To determine the current, voltage and wire size required, refer to Section 7.0 "Power Requirements" (page 15).

- Wire size must be appropriate per NEC/USA and/or local codes.
- The spa controller's terminal block will accept a maximum wire size of 6 AWG (10 mm²).

4. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Article 422.20 of the National Electrical Code/USA, ANSI/NFPA 70. The disconnecting means must be readily accessible to the spa's occupant but installed at least 5 feet (1.5m) from spa water.
5. The electrical circuit supplied for the spa must include a suitable ground fault circuit interrupter (GFCI) as required by NEC/USA Article 680.42.

6. To gain access to the spa's power terminal block:
   - Grab one of the corner panels, from the bottom, where it touches the bottom pan. Then gently pull the panel forward to unsnap it from the holding clip, Figure A. Place the panel in a safe location to prevent from damaging it. Repeat the steps to remove the other corner panel.
     Note: The corner exterior lights on the panels are connected to the light wires. Take care when removing the corner panels to avoid damaging the wires. Make sure to disconnected cable A from cable B, Figure A.
   - Grab the bottom of the front panel and slightly lift to release it from the top mount. Tilt the panel and pull down to remove, Figure A. Place the panel in a safe location to prevent from damaging it.
7. Select the power supply inlet you want to use (Figure B). Make sure to install a 3/4" electrical fitting and conduit through the large opening provided in the bottom of the control box so you can feed the cable through to the terminal block.
8. Connect wires, color to color, on terminal blocks TB1 and TB3 (Figure C, page 14). TIGHTEN SECURELY! All wires must be hooked up securely or damage could result.
9. Reinstall the control box door, then reinstall the front panel and cabinet corners.

Note: Exposure of the cabinet to heat could cause the cabinet to warp. Should the cabinet warp, once it is installed, the warping is not visible. However, it does make the removal and replacement a little more challenging.

Figure A
Removing the Front panel

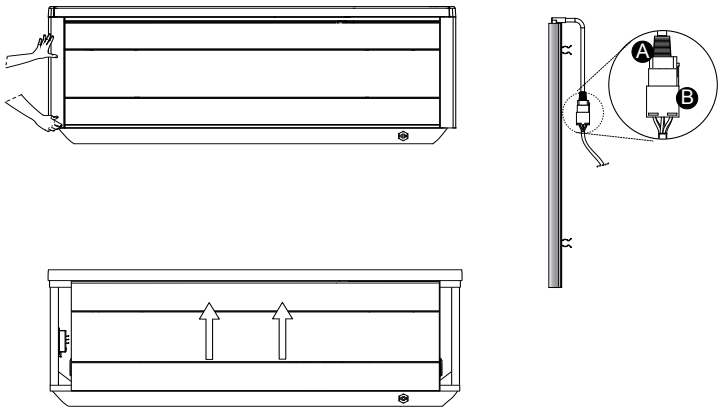
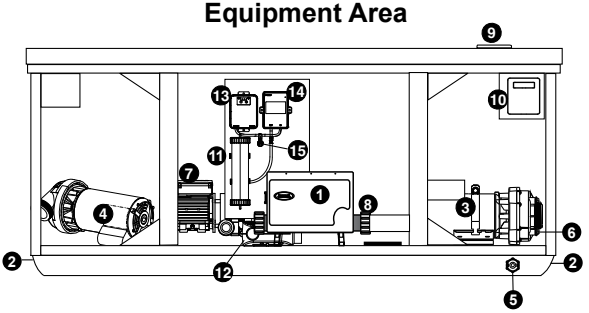


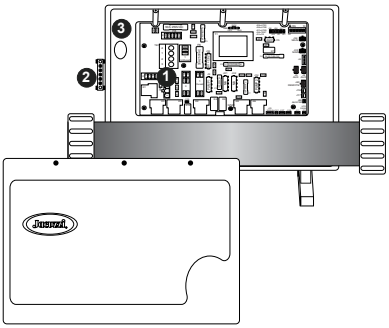
Figure B
Equipment Area



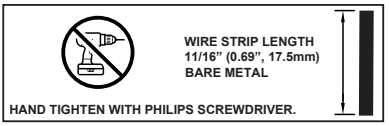
Note: Equipment location (such as pumps, True Water™, drain, heater etc.) varies by model.

1. Control Box
2. Power Supply Entrance(s)
3. Jets Pump
4. Jets Pump
5. Spa Drain Valve
6. Pump Drain Plug(s)
7. Circulation Pump
8. Heater
9. Control Panel
10. SmartTub® System
11. True Water™ Nano Bubbles Unit
12. True Water™ Air Filter
13. True Water™ Air Pump
14. True Water™ Ozone Unit
15. True Water™ Pressure Sensor

Figure C
Control Box



1. Main Terminal
2. Bonding Lug/Grounding Terminal
3. Power wires entrance (electrical fitting and conduit must be installed)



7.0 Power Requirements



Jacuzzi spas are designed to provide optimum performance and flexibility of use when connected to the maximum electrical service listed below. Minor circuit board modifications can be performed to allow your new spa to accept an electrical service other than the factory operation setting. We recommend using a Square D breaker.

Note: Refer to page 56 for circuit board configuration details or contact your authorized Jacuzzi dealer.

North American Models (60 Hz)			
Voltage:	240 VAC/40A*	240 VAC/50A**	240 VAC/60A***
Max. Current Draw:			
1-Pump System:	25A	36A	N/A
2-Pump System:	25A	36A	47A
Frequency:	60 Hz	60 Hz	60 Hz
Number of Wires:	3	3	3

* In 40A configuration, the heater **will not operate** while either jets pump is running.

** In 50A configuration, the heater **will operate** when one jets pump is running, but **will not operate** if more than one jets pump is running. ***This is the factory setting.***

*** In 60A configuration the heater **will operate** when two jets pumps are running.

8.0 Spa Fill Up Procedure

For best results, read each step in its entirety before proceeding with that step. Make sure all drains and drain plugs are closed before filling.

1. **Prepare The Spa For Filling**

- Clear all debris from the spa. (Although the spa shell has been polished at the factory, you may want to treat it with a specially formulated spa cleaner.) Consult your authorized Jacuzzi dealer for additional information prior to filling spa.
- If using the primary filter fitting to fill, remove filter cover, then remove filter cartridge as outlined in Section 12.1 (page 41).

IMPORTANT: In most cases, filling the spa by placing the hose in the footwell will not create an airlock, page 54. If you experience an airlock we recommend filling by placing the end of your garden hose into the primary filter fitting inlet. This wall fitting is the one closest to the front of the spa, page 41.

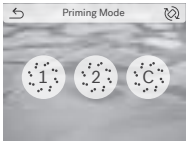
2. **Fill Spa**

- Place the end of your garden hose into the empty filter fitting or into the footwell. Fill until water covers all jets but does not touch the bottom of the lowest headrest.

CAUTION: TO DECREASE BUILD UP ON COMPONENTS AND MINIMIZE ACRYLIC DAMAGE. Never fill with water from a water softener. If your water is extremely "hard", it is preferable to fill half-way with hard water and the rest of the way with softened water. Water that is too soft can be corrosive to metal components.

- ⚠ **WARNING: TO DECREASE RISK OF INFECTION OR DISEASE.**
  Fill hot tub with clean tap water from garden hose to reduce risk of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory ailments. Fill until water covers all jets but does not touch the bottom of the lowest headrest. (DO NOT OVERFILL!)

3. **Turn on Power (Priming Mode)**
   Turn on power to spa at the home's circuit breaker to start the priming of the pumps.



- After power is applied, the control panel displays a sequence of configuration settings.
- Then it will display the Priming Mode Menu.
- To begin the Priming Mode, press the Jets 1 button. If you have a two-pump system, press the Jets 2 button to turn the pump on. Then press the circulation pump button to activate. This cycle will last about 3-5 minutes.
- After the cycle ends, the display briefly shows the set temperature. Then it displays "- - - - °F" until the actual water temperature is determined. You can manually turn the pumps off after the temperature is displayed.



Note: You can skip the Priming Mode by pressing the Back button (⮌). This is not recommended.

4. **Activate Jets Pumps**
   Turn on jets pump(s) to ensure proper mixing when adding start-up chemicals in step 5.



5. **Add Start-Up Chemicals**
   Add the spa water chemicals as recommended by your authorized Jacuzzi dealer. Section 12.0 "Water Quality Maintenance" (page 49) for general guidance.

⚠ **WARNING: RISK OF POISONING OR DEATH.**
Never leave chemicals opened and accessible to anyone. Use chemicals according to the vendors instructions. Always store chemicals in a safe and/or locked location. Keep away from and out of reach of children.

6. **Establish A Stable Sanitizer Reading**
   Establish a stable sanitizer reading. To ensure healthy water conditions, always maintain a constant sanitizer reading within the levels recommended on the inside cover of this manual.

Note: Follow the water chemistry parameters as defined by the Pool & Hot Tub Alliance if not equipped with one of our sanitizing systems.

7. **Set Spa To Heat**
   To warm spa water to a comfortable temperature, follow these steps:



- The LED display on the control panel displays the actual temperature of the spa water. Press either the **COOLER** (⌄) or **WARMER** (⌃) button once to display the “set” temperature for 5 seconds. If you want the water to heat to a different temperature, simply press **COOLER** (⌄) or **WARMER** (⌃) within 5 seconds. The set temperature increases or decreases by one degree each time one of these buttons is pressed.
- The heater will turn off when the temperature corresponding to the thermostat setting is achieved.

Important Heater Details:
- The maximum water temperature setting for your spa is 104°F (40°C) and the minimum setting is 65°F (18°C).
- Setting the thermostat at maximum will not accelerate the heating process. This will only result in a higher ultimate temperature.
- The heater operates until the water reaches the programmed “set temperature”, then turns off. The heater will reactivate after the water cools to approximately 2°F (1°C) below the set temperature.

8. **Place Cover On Spa**
- Keeping the insulating cover in place anytime the spa is not in use will reduce the time required for heating, thereby minimizing operating costs.
- The time required for initial heat-up will vary depending on the starting water temperature.



DANGER: RISK OF PERSONAL INJURY.
Check water temperature carefully before entering hot tub! Excessive water temperature can cause burns, welts and body temperature to rise, hyperthermia (over-heating).

Decontamination Procedure (Steps 9-15)
Steps 9-15 below are only required when sanitizer levels are unstable after performing steps 1-6 above. Disregard steps 9-15 below if sanitizer levels remain stable after performing steps 1-6 above (refer to the inside cover of the manual).
Note: The “decontamination procedure” steps 9-15 should also be used after the spa has been “Winterized” (Section 12.9, page 48) or has been sitting without power for an extended period.

9. Add 2.5 ounces of sodium dichlor for every 100 gallons of water. Refer to the following table for approximate water fill volume by model.

> **CAUTION: RISK OF PERSONAL INJURY OR SPA DAMAGE!**
> Never add chlorine tablets (trichlor) or acid to your hot tub for any reason! These chemicals may damage components within your hot tub, burn or irritate your skin, create a rash, and void the manufacturer warranty for your spa.

Water Fill Volume by Model

Spa Model	Average Fill Volume*	Sodium Dichlor
J404L™	240 Gal (908 L)	6.0 oz
J408™	325 Gal (1,230 L)	8.0 oz
J408L™	325 Gal (1,230 L)	8.0 oz

*Use average fill volume for chemical maintenance

10. Leave spa cover open during this step to allow excessive chemical vapors to exit spa, protecting pillows and plastic knobs from chemical attack. If spa is indoors, open doors and windows for proper ventilation. Turn on all jet pumps for one hour, then place the massage selector knob in the center “combo” position and open all air controls.



Note: You will need to press the jets pump button(s) every 20 minutes since these functions have an automatic 20-minute time-out function that turns them off.

> **WARNING: RISK OF PERSONAL INJURY!**
> - To decrease the risk of injury, drowning or entrapment, never leave your hot tub unattended for any reason while the cover is open and accessible, especially to small children and animals!
> - Precautions should be taken to minimize your exposure to chemical vapors (that could cause lung, brain, or skin damage).

11. Turn off power to the spa at the circuit breaker, then drain spa as outlined in Section 12.2 “Draining and Refilling” (page 45).

12. Fill spa until water covers all jets but does not touch the bottom of the lowest headrest. DO NOT OVERFILL.

CAUTION: TO DECREASE BUILD UP ON COMPONENTS AND MINIMIZE ACRYLIC DAMAGE.
Never fill with water from a water softener. If your water is extremely "hard", it is preferable to fill half-way with hard water and the rest of the way with softened water. Water that is too soft can be corrosive to metal components.

13. Consult your authorized Jacuzzi dealer for chemical recommendations, then add chemicals to hot tub water to achieve a constant sanitizer reading within the levels recommended on the inside cover of this manual.

14. Turn on jet pumps when adding chemicals to ensure proper mixing and leave your hot tub cover open until the sanitizer level becomes stable to protect pillows and plastic knobs from chemical attack. Refer to the inside cover of the manual.

WARNING: RISK OF PERSONAL INJURY.

- To decrease the risk of injury, entrapment or drowning, never leave your hot tub unattended for any reason, especially if while the cover is open and accessible to small children and animals!
- To decrease the risk of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory ailments, maintain water chemistry within 6 step parameters. If you or other bathers experience such a condition, discontinue use and seek immediate medical attention.

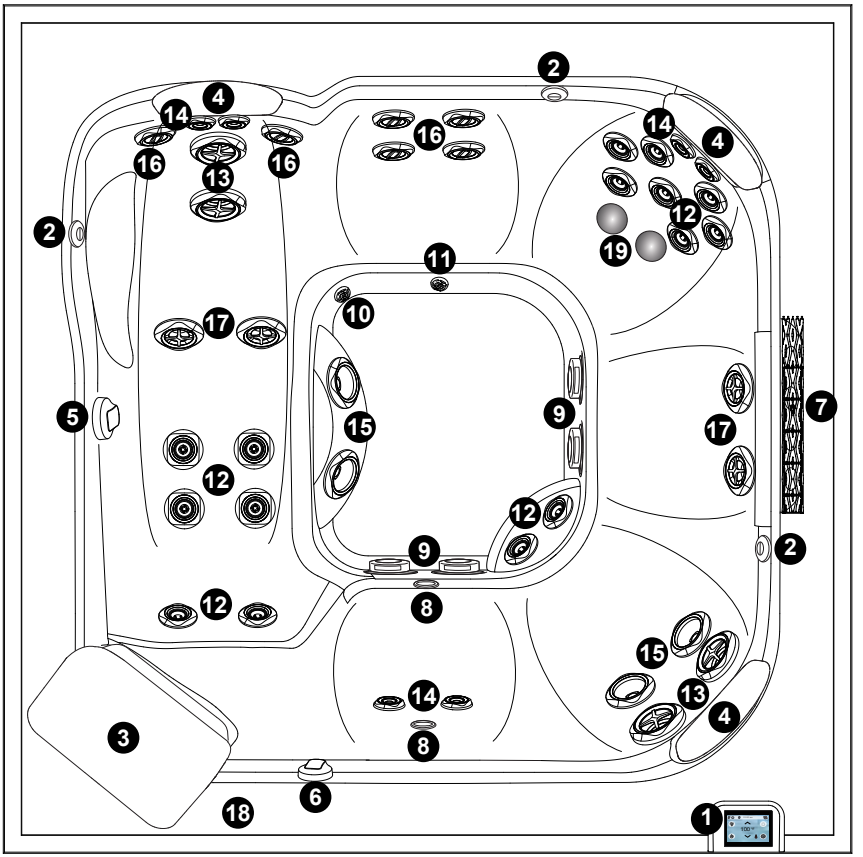
15. Establish a stable sanitizer reading, then allow the hot tub to set undisturbed for 8 hours. Retest water after 8 hours to determine if sanitizer levels are stable. If sanitizer levels are stable, your spa is ready for use. To ensure healthy water conditions, always maintain a constant sanitizer reading within the levels recommended on the inside cover of this manual. If sanitizer levels are not stable at this time, it will be necessary to repeat this procedure in its entirety (steps 1-15) until stable sanitizer readings are achieved.

Note: Follow the water chemistry parameters as defined by the Pool & Hot Tub Alliance if not equipped with one of our sanitizing systems.

16. After adequate sanitizer levels are achieved, close all spa air controls to maximize heat retention when spa is not in use.

9.0 Spa Features

9.1 General Spa Features And Controls



1. Control Panel
2. Toggle Air Controls (3)
3. Filter/Skimmer Grill
4. Pillows (3)
5. Massage Selector Valve
6. Waterfall Valve (side mounted)
7. Waterfall
8. Spa Light
9. Footwell Suction Fittings (4)
10. Heater Return Fitting
11. Waterfall Dump Port
12. PowerPro FX Jets (15)
13. PowerPro FX Large Rotational Jets (4)
14. PowerPro NX2 Jets (6)
15. PowerPro MX Jets (4)
16. PowerPro RX Jets (6)
17. PowerPro FX Rotational (4)
18. Top Rail
19. IR and Red Light (2)

Specifications/features subject to change without notice.

10.0 Operating Instructions

During the start-up sequence, the welcome screens will appear, Figure A. Then you will need to active the Priming Cycle, page 16.
Note: The start-up sequence will time out after approximately 20 seconds.



Figure A

10.1 Register Your New Spa

Registering your spa is important in order to validate your warranty. To register you will need to have the spa serial number, Figure A, then you will need to register online at www.Jacuzzi.com.

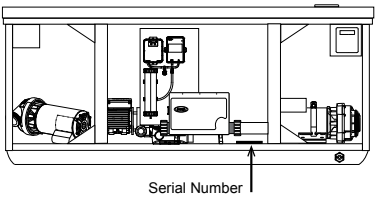


Figure A

Follow these steps to register your spa.

1. Using your home computer or other device, connect to the internet.
2. Go to www.Jacuzzi.com website to register your spa.
3. Click ***Outdoor Hot Tubs***
4. Click ***For Owners***
5. Click ***Warranty and Manuals***
6. Click ***Warranty Registration***
7. Enter your serial number.

Keep a record of your serial number for any future reference. Write that information below.

Serial Number: ___ ___ ___ ___ ___ ___ ___ ___ ___

10.2 Control Panel

Your Jacuzzi Spa is equipped with a state-of-the-art touch screen control panel. The control panel complements the contemporary and sleek design of your spa. Access to all menus can be achieved by using the touch screen. Programming features can be easily programmed with our user-friendly design. With the ease of use, there will more time to enjoy the benefits of your spa.



Figure A

A. **Home Menu Control Buttons**

The Home Menu provides access to spa functions and programming. Operation is made easy by the interactive touch-screen control panel. If there is no activity for 1 to 5 minutes (page 39), the LCD display will time-out into a sleep mode. To reactivate the display, just tap the display. Then tap the buttons displayed.

Note: When a feature is on, the button will have a darker appearance.



= **Temperature Control:** Allows you to adjust the set temperature of the spa:

- Increase the temperature by tapping in 1°F (0.5°C) increments.
- Decrease the temperature by tapping in 1°F (0.5°C) increments.

Note: The temperature range for the spa is 65 to 104°F (18.33 to 40°C). To activate the Extended Temperature feature that allows the spa to reach 106°F (41°C), see page 54.



Fahrenheit Icon is flashing means the temperature is being adjusted



Flashing thermometer indicates the system is checking for proper water flow before heater is activated.



Solid thermometer icon displayed on Home menu indicates spa is heating



Flashing temperature up icon indicates the spa is in the extended temperature feature.



= **Jet Button:** Tap to access the menu to operate the jets pump, page 24.



= **Light Button:** Tap to access the menu to operate the various lighting options, page 25.

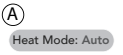
= **Boost Cycle Button:** Tap to activate the Cleaning Boost feature. Activates the True Water™ for 60 minutes (Circ, Air Pump, and Ozone). Can turn off by pressing button again.

= **Settings Button:** Tap to access the programming and setting menus, page 29.

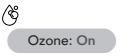
= **Invert Button:** Tap to invert the display image.

= **Error/Reminder Indicator Icon:** Displays when there is error or reminder message that needs to be addressed.

= **Heat Mode Icon:** Indicates the heat mode that is activated. Tap to display information.

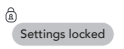


= **Ozone Icon:** Indicates that the Ozone is on. Tap to display information.



= **CleanUp Cycle icon:** Will display when the CleanUp Cycle is on.

= **Lock Icon:** Displays when one of the lock modes is enabled, page 36. Tap to display information.



= **Wi-Fi Icon:** Will display if the optional SmartTub® system is installed.

12:00 PM = **Time Indicator:** The time will always be shown when the Home Menu is displayed. The appearance will vary depending on whether the clock is set to a 12-Hour or 24-Hour configuration, To Program the time see page 32. The default setting is 12-Hour.

Note: The time does NOT automatically adjust for daylight saving time. The time must be manually adjusted.

10.3 Activate Jet Pumps

From the Home Menu, (Figure A), tap to enter the Submenu. The panel will display the Jets Pump Submenu (Figure B).

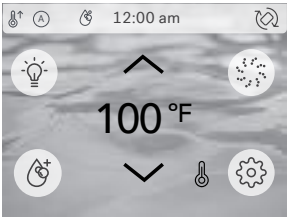


Figure A

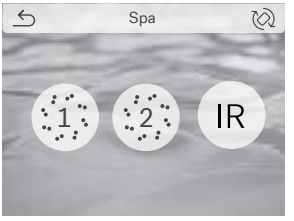


Figure B

= Jets Pump 1 Button

= Jets Pump 2 Button (If equipped)

= IR Therapy Light Button

= Back Button: Tap to go back to the Home Menu.

A. **Jets Pumps**

1. Tap the Jets 1 button to turn the pump on and off.
2. Tap the Jets 2 button to turn the pump on and off.

Note: Anytime a pump has been manually turned on, it will automatically turn off after approximately 20 minutes. If at this time you desire more jet operation you may simply turn the pump(s) back on.

B. **IR therapy Lights**

1. Tap the IR therapy light button to turn on and off.
2. Tap “OK” on the pop-up menu to activate for a 20-minute period, Figure C. The display will change to Figure D.



Figure C

Figure E displays the Home menu when the IR therapy lights are on.

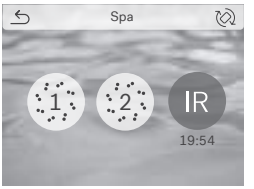


Figure D

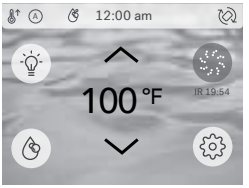


Figure E

10.4 Activating the Lights

From the Home Menu, (Figure A), tap to enter the Light Submenu. The LCD screen will display the Light Submenu (Figure B). From this menu you can control the hot tub lighting.

Note: The interior lights automatically turn off after 2 hours. They can be reactivated if needed.

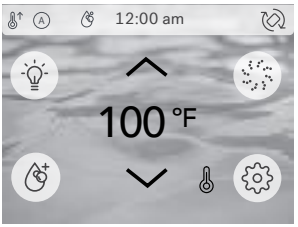


Figure A

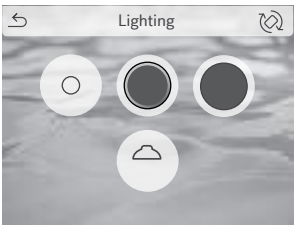


Figure B

= **Interior/Intensity Light:** Press to activate the interior lights. The lights will default to the last setting used at a 100% intensity. The lights can also be turned on by selecting a color or pressing the blend button.

High Intensity Med Intensity Low Intensity

= **Speed Control:** Controls the blending speed for the lights.

- Tap to increase or freeze the blending speed, of the colors.

Low Med High Freeze

= **Solid Color Selector:** Continually tap to scroll through and select a single color. The colors available are red, orange, green, teal, blue, violet, white, and yellow.

= **Exterior Light:** The exterior corner lighting has 2 settings. The lights display a solid White color only. By continually tapping the button you will scroll through the following:

- Press once for high intensity. Press a second time for Auto feature. Press a third time to turn off.

- High Intensity
- White color
- 8-hour timeout

- High Intensity
- White color
- Lights on from 7pm to 12am

= **Back Button:** Tap to go back to the Home Menu.

10.5 Adjusting Jet Flow



The water flow to certain jets in your spa can be increased or decreased by rotating the outside jet face.
Note: Always keep at least 6 adjustable jets open at all times.

10.6 Waterfall Control



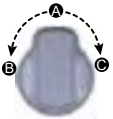
Turn waterfall control valve counterclockwise to increase waterfall output. Turn control valve clockwise to decrease or turn off waterfalls.
Note: When the waterfall is in the OFF position, some water may still flow through. This is considered normal.

10.7 Air Controls



Certain jet systems have their own “toggle” on/off air control. Each control introduces air into the water lines that supply specific jet groups. Simply press any air control button to open or press the opposite side of button to close. To minimize heat loss, all air controls should be closed when the spa is not in use.
Note: Certain jets may draw air even though they are closed. This is considered normal.

10.8 Selecting the Desired Massage Action



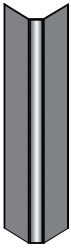
Your Jacuzzi spa is equipped to allow you to customize the massage action you desire. Each model incorporates a massage selector that allow you to customize the massage and performance by diverting water between various jet systems. Simply turn massage selector to position A (Combo), B, or C to divert water pressure to various jet groups.
Note: The massage selector valve(s) is designed to operate in positions A (Combo), B, and C for optimum performance. It is considered normal for sound levels within the valve to vary between positions due to the large amounts of water flowing through it. For optimum filtration benefits, leave the valve in position A when spa is covered. Select position B or C for maximum jet performance during spa use.

10.9 IR and Red-Light Therapy



Exclusive patented Infrared technology only in a Jacuzzi® hot tub. Located in the lower back of the FX Therapy seat to aid in the relief of muscle pain. Infrared uses specific wavelengths of light to penetrate below skin to deep tissue.
Note: The IR and Red-light device used in this spa has been tested both in a dry and submerged state by certified Intertek® test laboratories. Testing was conducted for this device to the IEC 62471 – Photobiological Safety Standard. Results place this device in the Risk Group 0 (RG0) exempt category.

10.10 Exterior Lights



The exterior lights are located on the corners of the cabinet panels. They provide a colorful luminance around the spa. These lights are activated from the light menu. The only light color option is white. At start-up, the exterior lights flash on and off to indicate a connection. The lights have a timeout period of 8 hours, except for the AUTO setting. For operating instructions refer to page 25.

10.11 Cleanup Cycle

The cleanup cycle occurs once per day at 12:00 PM (noon) for 2 minutes. This is not user programmable. The Jets Pump 1 and the Circulation Pump will turn on for one minute and then shut off. Then Jets Pump 2 will turn on and run for 1 minute then shut off.
Note: Turning off the corresponding jets pump that is running can deactivate the cycle.

10.12 Boost Cycle

The Cleaning boost feature activates the True Water® system. Tap to activate the system for 1 hour. During this time the circulation pump and the True Water™ system are on.
Note: When the True Water™ system is on due to a programmed or scheduled setting the feature cannot be turned off.

10.13 SmartTub® System

Advances in technology have allowed us to create a better and smarter hot tub. Our SmartTub® system operates on a Wi-Fi or cellular network. The advantages of this system are:

- A more stable connection to internet for outdoor environment. The SmartTub® device uses much less data than a typical voice connection via Wi-Fi or cellular networks. We contract through the largest wireless carriers to ensure maximum uptime. The system enables firmware updates via the cell or Wi-Fi connection so your system's performance will continuously be optimized remotely.
- Maintenance is made easy by alerts sent to your phone.
- Diagnostic alerts are sent to you and your dealer when attention is required.

A. **Pairing process**

1. Download the SmartTub® app from the Google Play store or Apple App store.

2. Open the app and create an account.

3. Locate the SmartTub® sticker next the control panel of the hot tub. You can either scan the QR code with the SmartTub® app or manually input the serial number located below the QR code on the sticker.

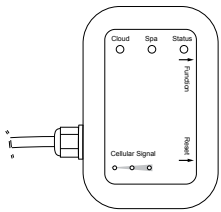
4. After you pair the hot tub's serial number to the SmartTub® app, the app will load and connect the hot tub to the internet.

5. Follow the instructions on the app to begin enjoying the benefits of your internet connected hot tub.

Note: The first six months of data service is included. You will need to renew the subscription after the first six months. Please refer to the terms of service and privacy policy links in the SmartTub® app for additional information.

B. **Indicator Lights**

There are indicator lights on the SmartTub® controller that relay the status of the system. Below are meanings of the lights.



1. Cloud:
   - Blue light on - connected to cloud.
   - Blue light off - not connected to cloud.

2. Spa:
   - Blue light on - connected to spa controller
   - Blue light off - not connected to spa controller

3. Status:
   - Cyan light - breathing (slow pulsing) indicates the status is good.
   - Cyan light - flashing indicates that the system is completing a connection to the cloud.
   - Green light - flashing indicates waiting for a connection to the cellular tower.
   - Dark blue light - flashing indicates a SIM error.

4. Cell signal strength:
   - 3 blue LED lights indicates cell signal strength.

C. **Resetting the SmartTub® controller**

Should the SmartTub® controller need to be reset, you will need to hold a magnet to the reset label on the side of the SmartTub® device.

11.0 Menu Features and Programming Instructions

Your spa is equipped with menus that allow you to program and activate different components of the spa. With our control panel, programming your spa has never been easier. From the Home Menu, tap ⚙ to enter the Settings Menus, Figures A and B. Scroll up and down through the Settings Menu to see all options.

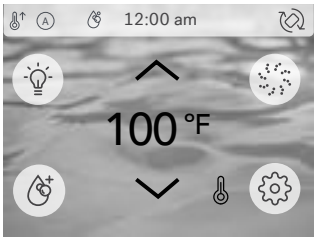


Figure A

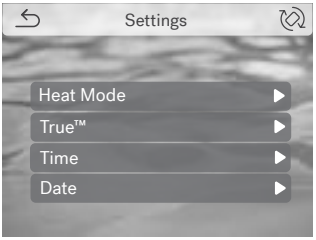


Figure B

Heat Mode: Provides access to the heating programming, page 30.

True™: Provides access to the True Water™ programming, page 31.

Time: Provides access to the time programming, page 32.

Date: Provides access to the date programming, page 33.

Water Care: Provides access to the water care programming, page 33.

Lock: Provides access to activate the locking features, page 36.

Units: Provides access to the temperature and time display feature, page 38.

Language: Provides access to the language selection, page 38.

Panel: Provides access to the sleep and wake programming of the control panel, page 39.

Diagnostic: Provides access to the hot tub information, page 39.

↩ = **Back Button:** Tap to go back to the previous Menu.

11.1 Programming the Heat Settings

Your spa is equipped with 3 modes of heating. An automatic mode called “Auto” where the spa’s temperature is always maintained. An energy saving heating cycle called “Economy.” A mode that will only activate the heater during the daytime called “Day” mode.

Note: The heater will activate when the temperature drops 2°F (1°C) from the set temperature.

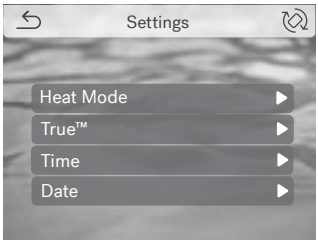


Figure A

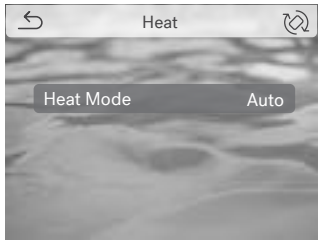


Figure B

Heat Mode:

From the Settings Menu, tap Heat Mode to enter the Heat Settings submenu, Figure A. Tap Heat Mode Auto to the enter the menu, Figure B. Then scroll to select one of the heating settings, Figure C.

Auto Heating Economy Heating Day Heating

A. **Auto heating:**

1. When programmed to Auto, the spa will maintain the water temperature to the set temperature. Heating will occur when necessary.
2. To select this mode, highlight the Auto tab and press the set button.

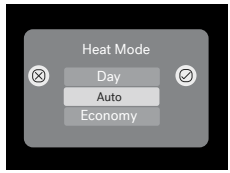


Figure C

B. **Economy heating:**

1. This is an energy saving heating program that allows the spa to heat during non-peak hours. When programmed to Economy, the spa will only be allowed to heat the water between 5:00 PM to 7:00 AM every day. The hours cannot be adjusted.
2. To select this mode, highlight the Economy tab and press the set button.

C. **Day heating:**

1. When programmed to Day, the spa will only be allowed to heat the water between 7:00 AM to 5:00 PM every day. The hours cannot be adjusted.
2. To select this mode, highlight the Day tab and press the set button.

11.2 Programming the True Water™ Filtration

To access the Filtration Menu, press True™ ▶ , Figure A, to enter the True Water™ Menu, Figure B. During a filtration, The True Water™ cycle activates the circulation pump, ozone, and air pump. The factory default cycle starts at 12:00 AM and last for 8 hours. If you elect to keep this setting, then you can skip this section.

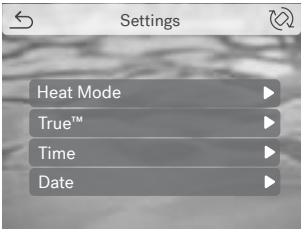


Figure A

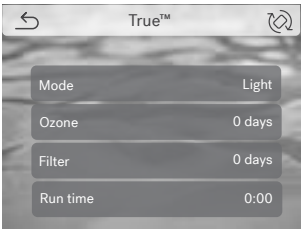


Figure B



In extreme bitter cold weather, where freezing can occur, we recommend you program the primary filtration cycle to run 24 hours. Refer to the “Winterizing” section on page 48.

A. **24-hour Mode:**
The circulation pump and True Water™ System are always active. Time and duration cannot be altered for the cycle.

- System runs 24-hours.

B. **Light Mode (default cycle):**
The factory default cycle starts at 12:00 a.m. and provides 8 hours of filtration. Time and duration cannot be altered for the cycles, but you can change the start time.

- Factory default cycle starts at 12:00 a.m.
- 8 hours of primary filtration per day (2 hours at 12 a.m., 6 a.m., 12 p.m., 6 p.m.). The circulation pump and True Water™ System are active.
- 4 purge cycles (15-minute purge runs at the end of each cycle). The circulation and air pump are active.

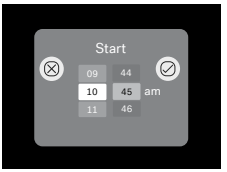
C. **Medium Mode:**
The factory default cycle starts at 12:00 a.m. and provides 12 hours of filtration. Time and duration cannot be altered.

- Factory default cycle starts at 12:00 a.m.
- 12 hours of primary filtration per day (2 hours at 12 a.m., 4 a.m., 8 a.m., 12 p.m., 4 p.m., 8 p.m.). The circulation pump and True Water™ System are active.
- 6 purge cycles (10-minute purge runs at the end of each cycle). The circulation and air pump are active.

D. **Heavy Mode:**
The factory default cycle starts at 12:00 a.m. and provides 16 hours of filtration. Time and duration cannot be altered.

- Factory default cycle starts at 12:00 a.m.
- 16 hours of primary filtration per day (2 hours at 12 a.m., 3 a.m., 6 a.m., 9 a.m., 12 p.m., 3 p.m., 6 p.m., 9 p.m.). The circulation pump and True Water™ System are active.
- 8 purge cycles (7.5-minute purge runs at the end of each cycle). The circulation and air pump are active.

E. **Cycle Start Time**



The factory default cycle starts at 12:00 a.m. but can be changed. Press Start ▶ to enter the menu.
1. Scroll through the first column to change the hour in 1-hour increments. You cannot adjust the minutes column.
2. To select am or pm, you will need to round a 12-hour period.
3. Tap ⊘ to accept and save the change.
4. Tap ⮌ twice to return to the Main Menu.

F. **Additional Information Displayed**
1. Displays the number of days left for True™ Ozone unit before a replacement is needed, Ozone 0 days .
2. Displays the number of days left for True™ Air Filter unit before a replacement is needed, Filter 0 days .
3. Displays the amount of time the True Water™ System has been activated, Run Time 0:00 .
4. Displays the start time that the True Water™ System will run for the cycles programmed under the Mode tab, Start 12:00 am .

11.3 Programming the Time
From the Settings Menu, tap Time ▶ to enter the programming options, Figures A and B.

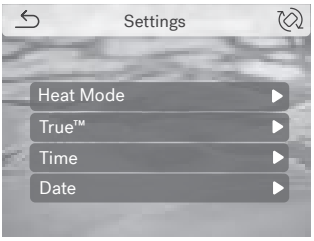


Figure A

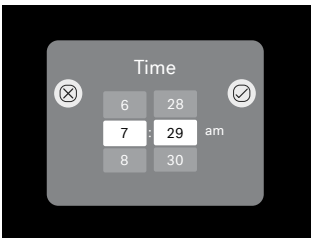


Figure B

A. **To set the time (Figure B):**
The default time setting is a 12-hour configuration. To choose the 24-hour configuration see page 38.

1. Scroll through the first column to change the hour in 1-hour increments.
2. Scroll through the second column to adjust the minutes.
3. To select AM or PM, you will need to round a 12-hour period.
4. Tap ⊘ to accept and save the change.
5. Tap ⮌ to return to the Main Menu.

11.4 Programming the Date

From the Settings Menu, tap Date ▶ to enter the programming options, Figures A and B.

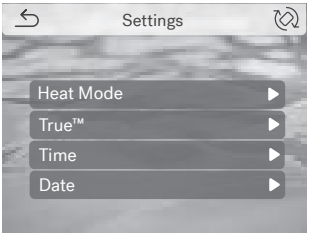


Figure A

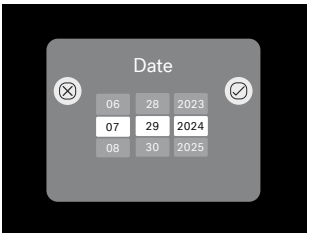


Figure B

A. **To set the date (Figure B):**

1. Scroll through the first column to set the month.
2. Scroll through the second column to set the day.
3. Scroll through the third column to set the year.
4. Tap ⊘ to accept and save the change.
5. Tap ⮌ to return to the Main Menu.

11.5 Programming the Water Care Reminders

From the Settings Menu, tap Water Care ▶ to enter the Water Care Menu, Figures A and B. Then select one of the features.

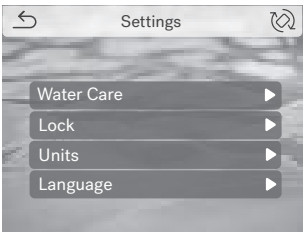


Figure A

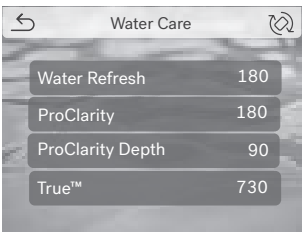


Figure B

A. **Programming the Water Refresh Timer**

A programmable Water Refresh reminder can be set to remind you when to drain and refill the spa. Tap Water Refresh 180 (Figure B) to enter the Programming Menu.

1. From the Water Care Menu, you can set the Water Refresh timer, Figure C.
2. Scroll through the column to change to change the days in 30-day increments. The range is from OFF (- - -) to 180 days. It is not recommended that this feature be turned OFF. To continually maintain the water healthy and clean, in addition to chemical maintenance, it should be program as instructed.



Figure C

Note: Pressing ⊗ will clear current changes made. The days will return to the previous programmed setting. This feature can be used to make corrections.

3. Tap ⊘ to accept and save the change. The display will return to the Water Care Menu.
4. Tap ⮌ twice to return to the Main Menu.
5. When the timer expires, a message will appear on the control panel display. The water must be drained and replaced with fresh water. Tap ↺ and follow the instructions above to reset the timer. If you tap ⓩ the message will clear but the reminder icon ⚠ will display and the message will reappear in 10 days.

B. **Programming the ProClarity Filter Timer**

A programmable filter timer can be set to remind you when to clean or replace the ProClarity Filter. Tap ProClarity ▶ (Figure B) to enter the Programming Menu.

1. From the Water Care Menu, you can set the ProClarity Filter timer, Figure D.
2. Scroll through the column to change the days in 10-day increments. The range is from OFF (- - -) to 180 days. It is not recommended that this feature be turned OFF. To continually maintain clean and working filters, it should be program as instructed.

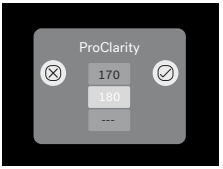


Figure D

Note: Pressing ⊗ will clear current changes made. The days will return to the previous programmed setting. This feature can be used to make corrections.

3. Tap ⊘ to accept and save the change. The display will return to the Water Care Menu.
4. Tap ⮌ twice to return to the Main Menu.
5. When the timer expires, a message will appear on the control panel display. The filter must be cleaned or replaced. Tap ↺ and follow the instructions above to reset the timer. If you tap ⓩ the message will clear but the reminder icon ⚠ will display, and the message will reappear in 10 days.

C. **Programming the ProClarity Depth Filter Timer**

A programmable filter timer can be set to remind you when to clean or replace the ProClarity Depth Filter. Tap Proclarity Depth ▶ (Figure B) to enter the Programming Menu.

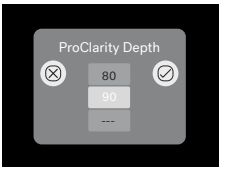


Figure E

1. From the Water Care Menu, you can set the ProClarity Depth Filter timer, Figure E.
2. Scroll through the column to change the days in 10-day increments. The range is from OFF (- - -) to 90 days. It is not recommended that this feature be turned OFF. To continually maintain clean and working filters, it should be program as instructed.

Note: Pressing ⊗ will clear current changes made. The days will return to the previous programmed setting. This feature can be used to make corrections.

3. Tap ⊘ to accept and save the change. The display will return to the Water Care Menu.
4. Tap ⮌ twice to return to the Main Menu.
5. When the timer expires, a message will appear on the control panel display. The filter must be cleaned or replaced. Tap ↺ and follow the instructions above to reset the timer. If you tap ⓩ the message will clear but the reminder icon ⚠ will display, and the message will reappear in 10 days.

D. **Programming the True™ Ozone Timer**

A programmable timer can be set to remind you when to replace the True™ Ozone unit. Tap True™ ▶ (Figure B) to enter the Programming Menu.



Figure F

1. From the Water Care Menu, you can set the True™ Ozone timer, Figure F.
2. Scroll through the column to change the days in 30-day increments. The range is from OFF (- - -) to 730 days. It is not recommended that this feature be turned OFF. To continually maintain clean and working filters, it should be program as instructed.

Note: Pressing ⊗ will clear current changes made. The days will return to the previous programmed setting. This feature can be used to make corrections.

3. Tap ⊘ to accept and save the change. The display will return to the Water Care Menu.
4. Tap ⮌ twice to return to the Main Menu.
5. When the timer expires, a message will appear on the control panel display. The True™ Ozone must be replaced. Tap ↺ and follow the instructions above to reset the timer. If you tap ⓩ the message will clear but the reminder icon ⚠ will display, and the message will reappear in 10 days.

D. **Programming the Air Filter Timer**

A programmable timer can be set to remind you when to replace the True™ Air Filter. Tap Air Filter ▶ (Figure B) to enter the Programming Menu.

1. From the Water Care Menu, you can set the True™ Air Filter timer, Figure G.
2. Scroll through the column to change the days in 10-day increments. The range is from OFF (- - -) to180 days. It is not recommended that this feature be turned OFF. To continually maintain a working Air Filter, it should be program as instructed.

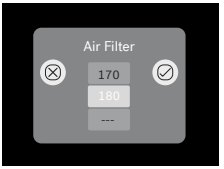


Figure G

Note: Pressing ⊗ will clear current changes made. The days will return to the previous programmed setting. This feature can be used to make corrections.

3. Tap ⊘ to accept and save the change. The display will return to the Water Care Menu.
4. Tap ⮌ twice to return to the Main Menu.
5. When the timer expires, a message will appear on the control panel display. The Air Filter must be replaced. Tap ↻ and follow the instructions above to reset the timer. If you tap ⓩ the message will clear but the reminder icon ⚠ will display, and the message will reappear in 10 days.

11.6 Locking the Spa

From the Settings Menu (Figure A), tap Locks ▶ to enter the programming options, Figure B. You can prevent users from changing certain features of the spa. When a lock feature is active, the lock icon 🔒 will appear on the Main Menu.

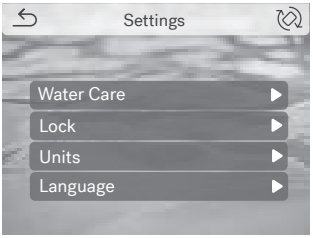


Figure A

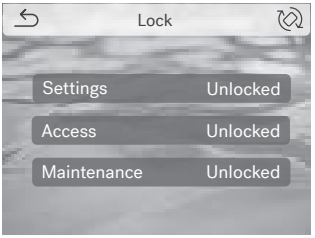


Figure B

A. **Settings Lock (Figure C):**

1. Tap Settings Unlocked to enter the lock feature.
2. Scroll through each column to select a number. Then move on to the next number until a four-digit code has been selected.
3. Tap ⊘ to accept and save the change. The display will return to the Locks Menu.
4. The Settings Menu and all it functions are disabled, but the spa will still perform all scheduled tasks.
5. Tap ⮌ twice to return to the Main Menu.

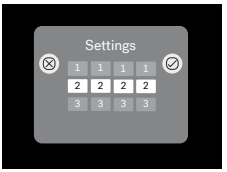


Figure C

B. **Access Lock (Figure D):**

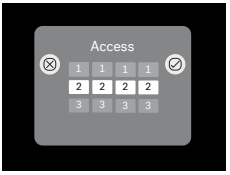


Figure D

1. Tap Access Unlocked to enter the lock feature.
2. Scroll through each column to select a number. Then move on to the next number until a four-digit code has been selected.
3. Tap ⊘ to accept and save the change. The display will return to the Locks Menu.
4. All activation and adjustment features are disabled but the spa will still perform all scheduled tasks.
5. Tap ⮌ twice to return to the Main Menu.

C. **Maintenance Lock (Figure E):**

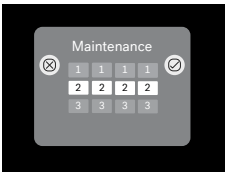


Figure E

1. Tap Maintenance Unlocked to enter the lock feature.
2. Scroll through each column to select a number. Then move on to the next number until a four-digit code has been selected.
3. Tap ⊘ to accept and save the change. The display will return to the Locks Menu.
4. All spa functions are locked to allow for a temporary service mode such as filter cleaning.
5. Tap ⮌ twice to return to the Main Menu.

Note: This mode has a time out of 2 hours. The spa should not be left in this lock mode for an extended period. Especially in colder climate or when freezing conditions exist.

D. **To Unlock (Figure F):**

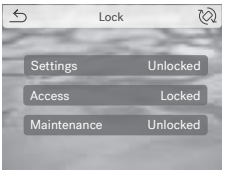


Figure F

1. Enter the Lock menu. Select the tab for the features to unlock settings, access or maintenance.
2. Scroll through each column to select a number. Then move on to the next number until a four-digit code has been entered.
3. Tap ⊘ to accept the code. The display will return to the Locks Menu.
4. Tap ⮌ twice to return to the Main Menu.

Note: A default passcode can be used in case the original passcode is lost or forgotten. The code “0772” will unlock the locked setting.

11.7 Unit Display

From the Settings Menu (Figure A), tap Units ▶ to enter the selection options, Figure B.

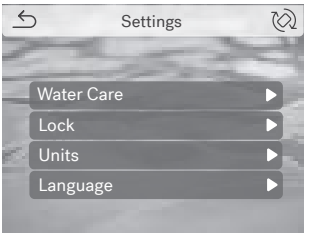


Figure A



Figure B

1. Tap Temp Display °F to switch between °F or °C.
2. Tap Time Display 12 HR to switch between 12-HR or 24-HR format.
3. Tap ⮌ twice to return to the Main Menu.

11.8 Programming the Language

From the Settings Menu (Figure A), tap Language ▶ to enter the selection options, Figure B.

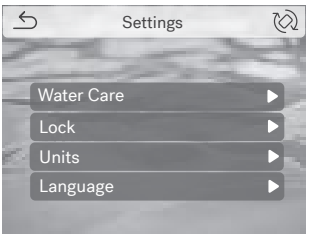


Figure A

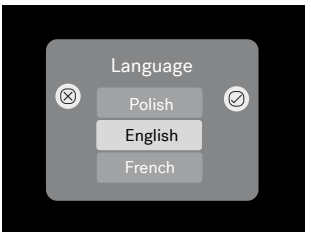


Figure B

1. There are 10 languages to select from: English, French, Spanish, German, Italian, Czech, Swedish, Norwegian, Finnish, and Polish.
2. To select a language, scroll through and select the language you want to display.
3. Tap ⮌ twice to return to the Main Menu.

11.9 Programming the Panel

From the Settings Menu (Figure A), tap Panel ▶ to enter the selection options, Figure B.

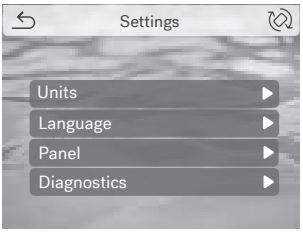


Figure A

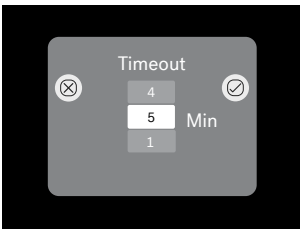
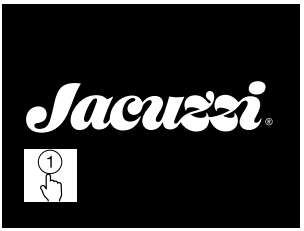


Figure B

1. Program how long the display stays active before going to sleep. Scroll through and select the number of minutes. The range is one to five minutes.
2. Tap ⊘ to accept the change. The display will return to the Settings Menu.
3. Tap ⮌ to return to the Main Menu.
4. To wake the display, tap the screen. The menu below will appear. Press the one then press the two.





11.10 Diagnostic Menu

From the Settings Menu (Figure A), tap Diagnostics ▶ to enter the selection options, Figure B.

Note: Most of the information provided in this menu is to assist a qualified technician troubleshoot the system.

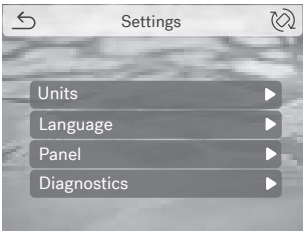


Figure A



Figure B

1. **System Information:** Displays various system information about the hot tub. This information is helpful when servicing the hot tub.
2. **Faults:** Displays any faults detected by the hot tub. It will store up to 50 fault settings.
3. **GFCI Test:** It will perform a test for the GFCI breaker.

A. **GFCI Test:**

1. Tap GFCI Test ▶ to enter the feature, Figure C.
2. Tap GFCI Test Test to test the GFCI, Figure D.
3. The test will begin, Figure E.
4. The result will return either a pass or fail message.

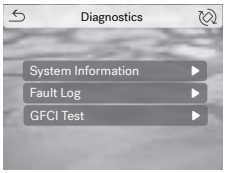


Figure C



Figure D



Figure E

11.11 Polling

Polling is the process of checking the water temperature by turning on the circulation pump for 1 minute so the sensors can detect the temperature. This feature will run every 30 minutes, if the circulation pump has not been activated. If the feature does not sense a need to heat the water, the next cycle will be extended by 30 minutes up until 120 minutes is reached.

Note: The cycle time will reset to 30 minutes any time a heat call is made or if a button on the control panel is pressed. Polling does not occur during an automated or programmed feature.

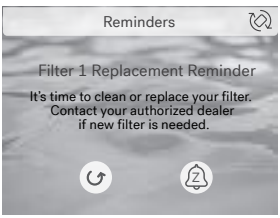
12.0 Spa Maintenance

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.

DANGER: RISK OF SEVERE INJURY OR DROWNING BY ENTRAPMENT!

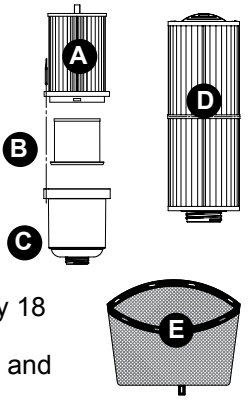
- Keep hair, loose articles of clothing or hanging jewelry away from suction fittings, rotating jets or other moving components to avoid entrapment that could lead to drowning or severe injury.
- Never use the spa unless all suction guards, filter, filter lid, or skimmer assembly are installed to prevent body and/or hair entrapment.
- 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.
- The suction fittings and suction covers in this spa are sized to match the specific water flow created by the pump(s). If it is necessary to replace the suction fittings, suction covers or pump(s), be sure that the flow rates are compatible and are in compliance with the VGB Safety Act, page 2.
- Never replace a suction fitting or suction cover with one rated less than the flow rate marked on the original suction fitting. Using improper suction fittings or suction covers can create a body or hair suction entrapment hazard that may lead to drowning or severe injury.
- Owners must alert all spa users to the potential risk of Hair, Limb, Body, Evisceration (disembowelment), and Mechanical Entrapment, page 6.

12.1 Cleaning The Filters



A reminder message 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 33) 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 ProClarity™/ProClear™ skimmer and pleated filter cartridges. Large debris are filtered when jets pump 1 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.

A. Cleaning the filters and filter bag



To ensure optimum performance:

1. The ProClarity™ filter cartridge (A) must be cleaned every month and replaced every 18 months.
2. The ProClarity Depth filter (B) must be replaced every 3 months.
3. The ProClarity filter canister (C) can be rinsed when the filters are cleaned.
4. The ProClear II skimming filter cartridge (D) must be cleaned every month and replaced every 18 months.
5. The ProClarity debris bag (E) should be checked and emptied monthly.

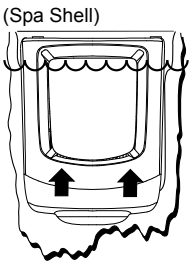
To accomplish this, refer to the following filter cleaning procedure. The primary filter cartridge goes on the side that is closes to the front of the spa.

Note: Do not attempt to wash the ProClarity depth filter (B) and the ProClear/ProClarity debris bag (E) or it will come apart!

Note: If equipped, remove the @ease clip prior to cleaning the filters. Refer to the instructions provided in the warranty pack.

A ⚠ **DANGER: TURN POWER TO SPA OFF! TO DECREASE RISK OF DEATH, DROWNING, OR ENTRAPMENT, NEVER OPERATE SPA WHEN FILTER IS NOT PROPERLY INSTALLED OR IF SKIMMER ASSEMBLY IS DAMAGED OR ALTERED!** ⚠

B



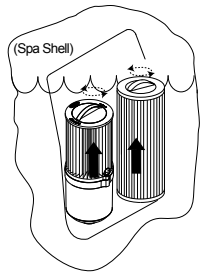
Lift upward on filter cover to release it from the mating retaining clips. Then tilt forward to remove and access filter cartridges.

C



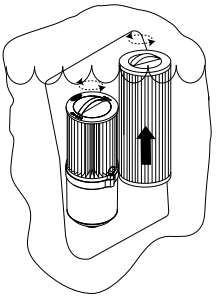
Remove skimmer bag from clips, then clean out debris.

D



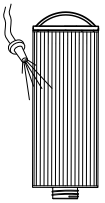
Rotate each filter cartridge handle counterclockwise to unthread from mating wall fitting.

E



Lift unthreaded filter cartridge from skimmer well.

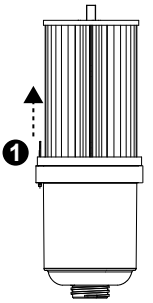
F



Cartridge 1

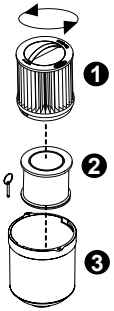
If used, remove the chemical feeder as instructed prior to rinsing the filter cartridge. Rinse debris from filter pleats using a garden hose and high-pressure nozzle. Start at the top and work downward towards handle. Repeat until all pleats are clean.

G



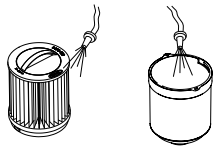
Remove the filter pin **1** in order to separate the ProClarity filter and canister.

H



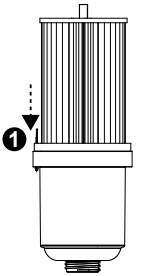
Once the filter pin is removed, rotate the filter cartridge handle counterclockwise to unthread from the filter canister. You can clean the filter **1** and canister **3**, but you must replace the ProClarity Depth Filter **2** every 3 months.

I



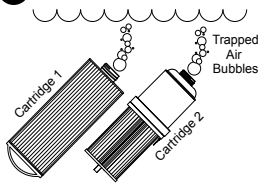
Rinse debris from filter pleats using a garden hose and high-pressure nozzle. Start at the top and work downward towards handle. Repeat until all pleats are clean. Rinse out any debris from the canister.

J



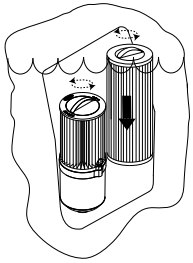
Reassemble the ProClarity Filter. Remember to replace the depth filter with a new one. Once the filter is assembled, secure it with the filter pin **1**.

K



Submerge both filter cartridges in spa. Tilt threaded end upward to remove trapped air bubbles, then keep cartridges submerged to prevent air entrapment during installation.

L



Place each cartridge back into skimmer well, then rotated each cartridge handle clockwise to thread back into wall fitting. DO NOT OVERTIGHTEN!

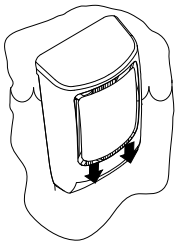
M



(Filter Cover Back View)

Install clean debris bag back onto the filter cover clips as shown (you can flip the filter skimmer and use the back side to extend usage).

N



Reinstall the skimmer shield over the filters. Then turn power to spa back on.

Periodically, the filter cartridge will need a more thorough cleaning to remove imbedded oils and minerals. For this, we suggest cleaning as illustrated followed by soaking the filter overnight in a plastic container filled with a solution of water and specially formulated filter cleanser available from your authorized Jacuzzi dealer. The average life expectancy of each filter is approximately two years with proper care and water quality maintenance. Replacement cartridges may be purchased from your authorized Jacuzzi dealer.

12.2 Draining and Refilling

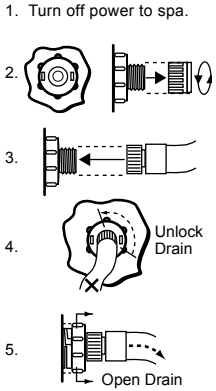
About every 3 months, you will want to replace the spa's water. The frequency depends on a number of variables including the amount of use, attention paid to water quality maintenance, etc. You will know it is time for a change when you cannot control sudsing and/or you can no longer get the normal feel 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 spa's 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 48). 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:

Note: Reference page 13 for cabinet removal.

1. Turn off power to spa at breaker.
2. Locate the drain valve on the front/lower plastic pan. Hold the larger (rear) 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 to open drain.
6. After the spa drains, perform steps 2-5 in reverse order to close the drain prior to refilling the spa. If an airlock occurs, see troubleshooting section page 54.



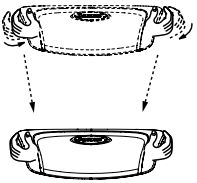
After refilling, turn on power to the spa and follow the steps listed under "Spa Fill Up Procedure" (page 15). Always fill your spa through both filter wall fittings.



Model J404L

12.3 Pillow Care

Remove and clean the headrest pillows as needed with soapy water using a cloth or soft-bristle brush. Always remove the pillows when adding chemical shock treatment to the spa water. The pillows can be returned to the spa when the sanitizer reading is stable as recommended on the inside cover of the manual.

1	2	3	4
			
Place both hands on pillow with thumbs as shown.	Press inward with thumbs to curl pillow lip inward so you can grab it with fingertips.	Flex pillow lip inward 2-3" to get a good grip on the ends.	Gently pull outward on pillow to release mounting stud from receptacle on spa shell.

5. Wash pillow(s) in a mild detergent soap and warm water solution. Never machine wash your pillows or attempt to clean them with a non-approved vinyl cleaning agent!

6. To reinstall pillows: Simply align pillow over mounting stud receptacle, then gently push inward to snap in place.

12.4 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.

12.5 Maintaining the Cover

Covers distributed by Jacuzzi Hot Tubs have PROLAST™/PROLAST™ Extreme encasement. The PROLAST™/PROLAST™ Extreme encasement also referred to as the cover "skin" is attractive and durable. Regular monthly cleaning is strongly recommended and may increase the longevity of your cover. Jacuzzi chemicals are for use in the U.S. only.
Note: It is highly recommended that you DO NOT put the seam over the control panel. This will cause premature failure of the control system.

A. **To clean and condition the encasement:**
1. Use a garden hose to remove any debris.
2. Using a large sponge or soft bristle brush, use diluted or mild soap to gently scrub the top.
3. Rinse and clean and do not allow soap to dry on the cover. Do not use soap on the underside of the cover.
4. Do not use any solvents, abrasive cleaners or strong detergents. Do not use products that contain silicone or alcohol.

B. **Additional Care and Maintenance Instructions:**

1. Debris can accumulate on the spa cover. Removal of snow or other debris will help to avoid breakage of the foam cores.
2. Be sure to lock the cover straps to secure the cover from unwanted or accidental entry.
3. Do not place heavy objects on the cover.
4. Do not walk, sit or stand on the cover.
5. Do not drag or use the flaps/skirt or the cover lock straps to remove the cover.
6. Use only recommended cover lift systems.
7. Use only chemicals and cleaners recommended by Jacuzzi.
8. Remember to keep spa covered when not in use. Maintaining proper water levels assures efficient operation and efficient electrical usage.
9. Do not expose your spa to the sun for extended periods of time as UV rays can damage the interior surface.
10. Use caution when removing cover. Before removing cover, assure all locks have been released to avoid lock breakage and or cover strap damage.

12.6 Maintaining The Synthetic Cabinet

Your new spa's synthetic cabinet requires little or no maintenance of any kind. To clean, simply wipe cabinet with a clean towel and mild soap solution.



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

12.7 Top Rail Care And Maintenance

To preserve the luster of the surfaces of your spa, it is essential not to use abrasive cleaners or chemical cleaners that can attack the surface. If you are unsure whether any product is suitable for your spa surfaces, consult your authorized Jacuzzi dealer. We recommend using Jacuzzi Spa All Purpose Cleaner to clean the interior surface of the spa. Make sure that there is no residue of any product used that is not rinsed from the surfaces of the spa. This could cause extreme foaming of the spa water.

12.8 Stainless Steel Corners

To prolong the life of the corner trim, handle it with care and clean it regularly. Below are the care instructions.

1. A simple solution of warm water with a couple of drops of liquid soap makes an excellent cleaner.
2. Dampen a soft cloth (such as a microfiber cloth) into the cleaning solution.
3. Wipe and clean the outer faces moving along the length of the part.
4. Dry off the corner trim using another clean, dry soft cloth.

Note: Never use abrasive cleaners, steel wool, scrubbing brushes, or scrubbing pads on the corner trim.

12.9 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 32°F (0°C), choose the 24-hour Mode Cycle and auto-heating (page 30) 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.**

Expert winterization of your spa is highly recommended, contact your authorized Jacuzzi dealer. In emergency situations, damage can be **minimized** by taking the following steps:

CAUTION: TURN OFF POWER TO HOT TUB!

1. Turn off power to the spa.
2. Follow the directions on page 45 for draining the spa.
3. Turn the massage/diverter selector(s) into the middle combo position to allow the water in the plumbing lines to drain, page 26.
4. Turn the waterfall valve(s) to the open position to allow the water in the plumbing lines to drain, page 26.
5. Open all the air controls and leave them open until you resume use of the spa, page 26.
6. 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 foot well, such as a wet/dry vacuum.
7. When the water level ceases to drop, use whatever means available to remove any remaining water from the foot well, such as a wet/dry vacuum.
8. Remove the synthetic cabinet panel under the control panel and locate the drain plugs on the front of the pump(s), (Figure B, page 14). Remove plugs to allow water to drain out of 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.

9. Loosen the hose clamp on the circulation pump intake behind the control box (Figure B, page 14) and pull the hose off (twist hose back and forth while pulling outward). Tip hose down and allow to drain, then reinstall hose and clamp.
10. Reinstall synthetic cabinet side panel and cover spa so that no casual moisture can enter into it.

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

12.10 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 authorized Jacuzzi dealer for guidance before attempting to restart your spa under these conditions.

13.0 Water Quality Maintenance

To decrease the risk of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory ailments, maintain water quality within specified limits. This will enhance your enjoyment and prolong the life of the hot tub's equipment. Doing so requires regular attention because the water chemistry involved is a balance of several factors. Procrastination in regard to water maintenance will result in poor and potentially unhealthful conditions for soaking and even damage to your hot tub investment. For specific guidance on maintaining water quality, consult your authorized Jacuzzi dealer who can recommend appropriate chemical products for sanitizing and maintaining your hot tub.

WARNING: FAILURE TO MAINTAIN WATER QUALITY WILL:

- Increase risk of contracting a waterborne illness (e.g. an infection bacteria or virus) and/or respiratory ailments.
- Damage the equipment, components and spa shell, which are not covered under the hot tub's warranty.

CAUTION: Never store hot tub chemicals inside the hot tub's equipment bay. The equipment bay may reach elevated temperatures, this is where high voltage electronic devices are located. This area is not intended for storage of any kind.

Compliance with Local Water Treatment Regulations

Spa owners must test and treat spa water in compliance with all applicable local health and safety codes. Local authorities may specify water quality parameters, disinfection methods, or testing frequency beyond those provided in this manual. It is the responsibility of the spa owner to consult and follow local code requirements for water quality management.

13.1 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 pH. 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 the sanitizer.

13.2 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 sanitizers used to date. The “Proclear Mineral Spa Clarifier” designed especially for your hot tub is a beneficial product for water maintenance. 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. When adding spa shock (chlorine or non-chlorine) or pH balancing chemicals activate the jets pump(s) and leave the spa cover open for a minimum of 20 minutes. By doing this you will allow excessive chemical vapors to exit the spa, protecting pillows and plastic knobs from chemical attack.



WARNING: RISK OF PERSONAL INJURY, DROWNING OR ENTRAPMENT!
Never leave your hot tub unattended for any reason while the cover is open and accessible, especially to small children and animals!

CAUTION: RISK OF PERSONAL INJURY OR SPA DAMAGE!
Never add chlorine tablets (trichlor) or acid to your hot tub for any reason! These chemicals may damage components within your hot tub, burn or irritate your skin, create a rash and void the manufacturer warranty for your spa.

14.0 Error/Display Messages

Your spa has a self-diagnostic control system. The system will automatically display the following if a problem is detected. **Always insist on genuine Jacuzzi replacement parts.**

1. Freeze (Code 1): Possible freeze condition.
2. Sensor Balance Transient (Code 15): Sensors are out of sync.
3. Heat Low Flow (Code 16): The water flow is low.
4. Failed Flow (Code 17): The water flow has failed.
5. RTC Failure (Code 20): The clock has failed.

6. Persistent Memory Fail (Code 21): The settings have been reset.

7. Checksum Failure (Code 22): Program memory failure.

8. Config Error (Code 23): Configuration error. Contact your authorized dealer or service organization.
9. Sensor Balance Latch (Code 26): Sensor are out of sync. Contact your authorized dealer or service organization.

10. Heater Dry (Code 27): The heater is dry.

11. Heater Maybe Dry (Code 28): The heater maybe dry.

12. Spa Overheat (Code 29): **DO NOT ENTER THE WATER!** Spa water temperature above acceptable limits. Spa water is too hot.

> ⚠ **WARNING: RISK OF HYPERTHERMIA (OVER-HEATING) CAUSING SEVERE INJURY, BURNS, OR WELTS.**

13. Heater Overheat (Code 30): **DO NOT ENTER THE WATER!** The heater is too hot.

> ⚠ **WARNING: RISK OF HYPERTHERMIA (OVER-HEATING) CAUSING SEVERE INJURY, BURNS, OR WELTS.**

14. Sensor Fault A (Code 31): Sensor A fault. Contact your dealer or service organization.

15. Sensor Fault B (Code 32): Sensor B fault. Contact your dealer or service organization.

16. Stuck (Code 34): A pump may be stuck.

17. Hot (Code 35): Hot fault. Contact your authorized dealer or service organization.

18. GFCI Failure (Code 36): The GFCI test failed.

19. Rest Mode Temp (Code 38): Run Jets 1 to get temperature.

20. Beta Version (Code 39): Test software is installed.

21. Set Time (Code 40): Set the time.

22. J29 Shorted (Code 44): J29.

23. Lighting Communication Error (Code 65): Lights are not connected. Verify the connection for the light controller and light cords.

24. Heatpump Comm Lost (Code 68): The Clim8zone has stopped communicating.

25. Heatpump Fault (Code 69): The Clim8zone reported an internal fault.

26. Heatpump Defrosting (Code 70): The Clim8zone is defrosting.
27. Heatpump Stuck On (Code 71): The Clim8zone did not turn off.

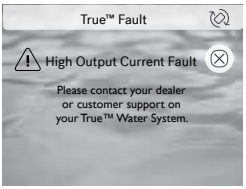
28. Heatpump Stuck Off (Code 72): The Clim8zone did not turn on.

29. Heatpump Flow Fault (Code 73): The Clim8zone reported a flow fault.

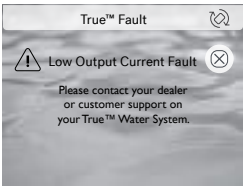
30. Heatpump Unexpected Shutoff (Code 74): The Clim8zone turned off.

31. Heater Authentication Error (Code 80): The heater authentication has failed. Could be caused by a bad chip on the heater or expander board.

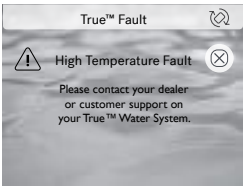
32. High Output Current Fault: Please contact your dealer or customer support on your True Water™ System.



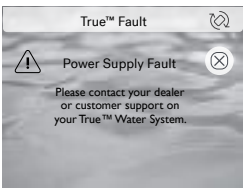
33. Low Output Current Fault: Please contact your dealer or customer support on your True Water™ System.



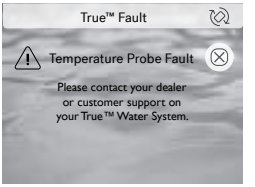
34. High Temperature Fault: Please contact your dealer or customer support on your True Water™ System. The Ozone unit is experiencing a high temperature. Allow the unit to cool off and reach an exceptable temperature to return to a normal working condition.



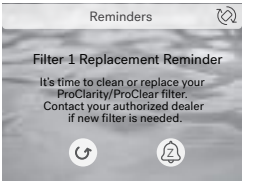
35. Power Supply Fault: Please contact your dealer or customer support on your True Water™ System.



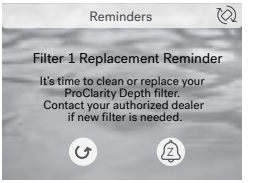
36. Temperature Probe Fault: Please contact your dealer or customer support on your True Water™ System.



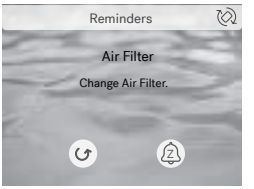
37. ProClarity/ProClear Filter Reminder: This message will appear when the filter reminder time has expired. Remove the ProClarity/ Proclear filters and filter/debris bag for cleaning or replacement.



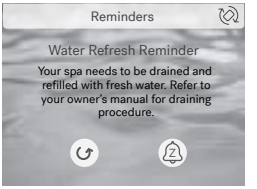
38. ProClarity Depth Filter Reminder: This message will appear when the filter reminder time has expired. The ProClarity Depth filter must be replaced.



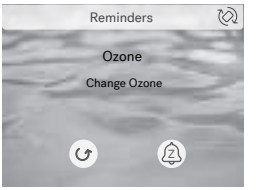
39. Air Filter Reminder: This message will appear when the True™ Air Filter reminder time has expired. The True™ Air Filter must be replaced



40. Water Refresh Reminder: This message will appear when the Water Refresh timer has expired. The water needs to be drained and refilled with fresh water.



41. Ozone Reminder: This message will appear when the Ozone timer has expired. The water needs to be drained and refilled with fresh water.



42. Water Temperature is Unknown: At start-up the dashes will display. After the pump has been running for 1 minute, the temperature will be displayed.

____°F
____°C

43. 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 need to set the temperature to 104°F (40°C). The press and hold your finger over the temperature reading for about 3 seconds. The temperature reading will turn white, and the Up button will start flashing. This indicates the system is ready. Tap ^ to raise the temperature up to 105°F (40.5°C), press again to reach 106°F (41°C).



Note: The Up button will continuously blink to indicate that the feature is active.

WARNING: RISK OF HYPERTHERMIA (OVER-HEATING) CAUSING SEVERE INJURY, BURNS, WELTS OR DEATH! Water temperature in excess of 104°F (40°C) may be injurious to your health.

15.0 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)	Check the control panel lights. 1. If there are letters or symbols displayed on the screen, refer to the previous Section 14.0 to determine the meaning and action required. 2. If nothing appears on the screen: A. Check the household circuit breaker. B. Contact you dealer or authorized service center.
PUMP DOES NOT OPERATE	Activate the “JETS”: 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: A. Pump may not be properly primed. See instructions below. B. Contact dealer or authorized service center.
AIR LOCK	Purge “air lock” from circulation pump intake by removing filter cartridge. Hold your garden hose over the filter cartridge wall fitting while using a rag as a seal around hose end. Ask a helper to turn on water for 30 seconds, then turn off. Reinstall filter cartridge and check spa.

CAUTION: If freezing conditions exist and pump is not operational, take measures to protect the system from freeze damage. See Section 12.9 titled “Winterizing” (page 48).

POOR JET ACTION	1. Make certain the jets pump is turned on. 2. Check position of massage selectors. 3. Open air control for selected jet system. 4. Check for adequate water level. 5. Check for dirty filter (page 41).
WATER IS TOO HOT	1. Reduce thermostat setting. 2. Switch hot tub to “Econo” mode to turn heater on only during pre-programmed time (page 30). 3. Make sure the pumps are turned off and not constantly running.
NO HEAT	1. Check thermostat setting. 2. Keep the cover in place while heating. 3. If heater indicator is displayed, but no temperature increase is experienced after a reasonable period of time, contact your dealer or authorized service center.
CIRCULATION PUMP OFF	1. Verify circulation pump is programmed to run (page 1). 2. Make sure there are no errors preventing the pump from turning on.

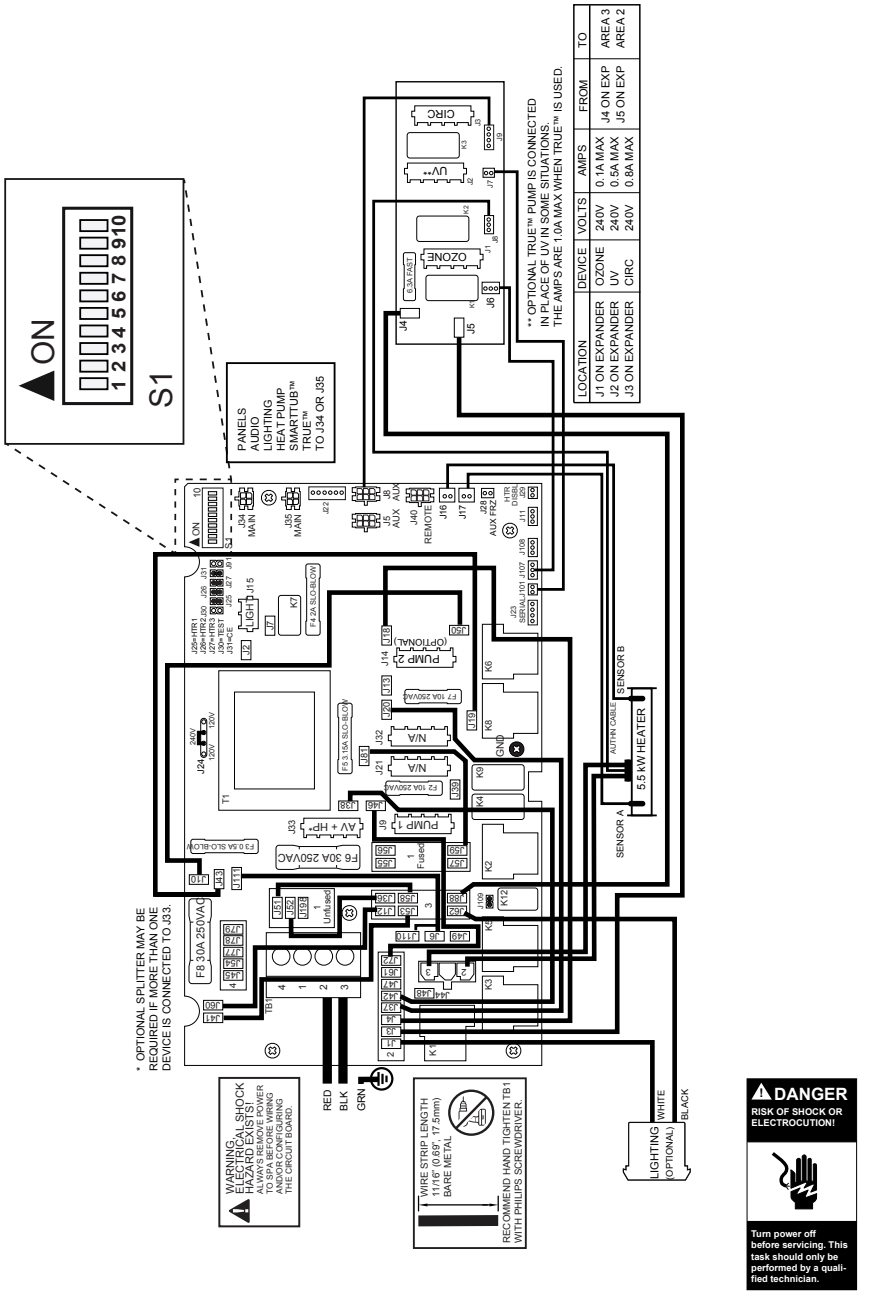
Jacuzzi builds the best spas in the industry. Nonetheless, we are always striving to improve the quality and features of our products. Your input as a Jacuzzi spa owner is a cherished part of this process. If you have any comments or suggestions, or if you wish to be informed on any new products for your spa, please write to us.

CONGRATULATIONS on your good taste and welcome to the happiest and most relaxed family in the world!

16.0 Circuit Board Diagrams

16.1 North American Dedicated Power Models (60 Hz)

This wiring diagram is used for all North American, 240V (60 Hz) dedicated power models.



16.2 Dip Switch Settings

OFF POSITION	S1 SWITCH	ON POSITION
TEST MODE OFF	◀ 1	TEST MODE ON
MUST BE OFF	◀ 2	N/A
SEE TABLE	◀ 3	SEE TABLE
SEE TABLE	4 ▶	SEE TABLE
MUST BE OFF	◀ 5	N/A
STORE SETTINGS**	◀ 6	MEMORY RESET**
MUST BE OFF	◀ 7	N/A
THERAPY LIGHT NOT PRESENT***	8 ▶	THERAPY LIGHT PRESENT***
TRUE™ NOT PRESENT****	9 ▶	TRUE™ PRESENT****
DEMO MODE OFF	◀ 10	DEMO MODE ON

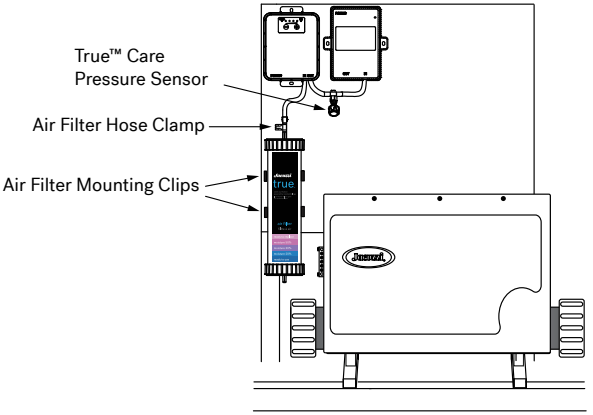
** SWITCH # 6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION.

*** SWITCH # 8 SHOULD BE SET TO ON FOR THE IR THERAPY LIGHTS.

**** SWITCH # 9 SHOULD BE SET TO ON FOR THE TRUE™ WATER CARE SYSTEM.

BREAKER	DIP SWITCH NUMBER									
	1	2	3	4	5	6	7	8**	9***	10
40A	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	ON	OFF
50A*	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	ON	OFF
60A	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	ON	OFF
*50A is the factory default setting										
**Dip Switch 8 is ON when the IR +Red Therapy Lights are installed.										
***Dip Switch 9 is ON when the True Water™ System is installed.										

17.0 Changing the Air Filter and Sensor Battery



Air Filter

The Air Filter will need to be replaced every 6 months. To replace the filter follow these steps:

1. Turn power off to the hot tub!
2. Loosen the hose clamp.
3. Grab the air filter and gently pull on it to unsnap from the holding clips.
4. Pull the air hose off the air filter bib.
5. Install new Air Filter.
6. Attach air hose to the air filter bib.
7. Snap the new filter into the mounting clips.
8. Tighten hose clamp over the hose and bib.
9. Turn power on to the hot tub.

Pressure Sensor

When it's time to replace the Pressure Sensor battery, follow the steps below.

1. Turn power off to the hot tub!
2. Unscrew the sensor cap. This will expose the battery compartment.
3. Replace old battery with a new battery.
4. Screw sensor cap back on.
5. Turn power on to the hot tub.