

OWNER'S MANUAL

J-300™ Collection



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2530-398A Rev. B



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.

Automated Operations

Approximately two minutes after power is applied to the spa, the first filtration/heating cycle turns on pump 1. An automatic “blow-out” function also activates pump 2 (if equipped) for a period of one minute to flush all lines. Then, after one minute, pump 2 turns off and pump 1 continues to operate for the duration of the cycle.


Note: This function only occurs during the first filtration/heating cycle each day.

Maintain Healthy Spa Water

Always maintain your spa’s water chemistry within the following parameters:

	With CLEARRAY®	Without CLEARRAY®
pH	7.4-7.6	7.4-7.6
Free Chlorine	no less than 1.0 ppm	3.0-4.0 ppm
Free Bromine	no less than 2.0 ppm	2.0-4.0 ppm
Total Alkalinity	100-150 ppm	100-150 ppm
Calcium Hardness	150-250 ppm	150-250 ppm

IMPORTANT: CLEARRAY® Water Purification System is factory installed. If the CLEARRAY® system is altered or is not operating efficiently then follow the “without CLEARRAY®” water chemistry parameters as defined by the Association of Pool and Spa Professionals. CLEARRAY® requires an annual bulb replacement to properly sanitize your water.

 **TO DECREASE RISK OF INFECTION OR DISEASE!** Always maintain your spas filter as outlined below to ensure healthy spa water. Refer page 43 “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 36 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 43 for additional information.

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1.0 Important Spa Owner Information

Your Jacuzzi J-300 Collection 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 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 section 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 Hypertthermia 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 Literature

To ensure you have a safe and enjoyable hot tub experience, learn all you can about hot tub safety and emergency procedures. Especially useful are the brochures listed below:

- Children Aren't Waterproof
- Pool and Spa Emergency Procedures For Infants and Children
- Layers of Protection
- The Sensible Way to Enjoy Your Spa or Hot Tub

The Association of Pool and Spa Professionals publishes these brochures. To acquire a brochure:

- Ask your hot tub dealer (they may have copies)
- Go to <http://apsp.org>
- Conduct your own search on the internet
- Write to the following address:

The Association of Pool and Spa Professionals
2111 Eisenhower Avenue
Alexandria VA 22314
703.838.0083

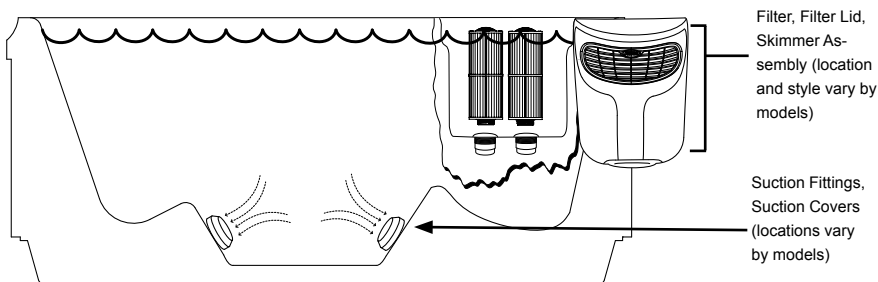
3.1 Entrapment Risk

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 5 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 becomes 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 (overheating). 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 Important Additional CSA Safety Instructions (Canada Only)

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.**

3.4 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 B, page 17) 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. 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.

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 and other casual water to flood the equipment and create a wet condition in which it would sit in. For spas which will be 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.

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.

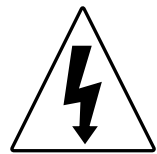
- **Proper Foundation: Consult a Structural Engineer when considering a foundation that will adequately support the spa the entire time it is in place.** Proper support is critical especially if the spa is to rest on a second story or higher. For spas that are to rest on balconies, roofs or other platforms 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.
- **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 B, page 17) 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

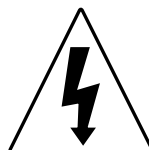
(1.5m) of the spa. Bonding wire must be at least No. 8 AWG (8.4 mm²) solid copper wire. This is a most important safety assurance feature. Before installing this spa, check with the local building department to insure installation conforms to local building codes.

120/240 Volt Convertible Models

A spa connected to a 120 VAC electrical service must be located close enough to a grounded, grounding-type electrical outlet so that the included 10 feet (3m) power cord can be plugged directly into it. **DO NOT USE AN EXTENSION CORD** as this could cause damage to the spa’s equipment due to insufficient voltage. The power supplied to this spa must be a dedicated circuit with no other appliances or lights sharing the power provided by the circuit.

6.0 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.



Note: Refer to pages 53-56 for circuit board configuration details or contact your authorized Jacuzzi dealer.

North American J-335, J-345, J-355, J-365, J-375 and J-385 Models (60 Hz)

	<u>240V/40A*</u>	<u>240V/50A**</u>	<u>240V/60A***</u>
Circuit Breaker (2-Pole):	40A	50A	60A
Number of Wires:	3	3	3
Frequency:	60 Hz	60 Hz	60 Hz
Current Draw:	26A	36A	45A

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

** In 50A configuration, the heater **will not operate** while both jets pumps are running. **This is the factory setting.**

*** In 60A configuration the heater **will operate** while both jets pumps are running.

North American J-315 and J-325 Convertible Models (60 Hz)

	<u>120V/15A†</u>	<u>240V/30A†</u>	<u>240V/40A‡</u>
Circuit Breaker:	15A, 1-Pole	30A, 2-Pole	40A, 2-Pole
Number of Wires:	3 (15A GFCI Cord US Only*)	4 (Hard Wire Only)	4 (Hard Wire Only)
Frequency:	60 Hz	60 Hz	60 Hz
Current Draw:	12A	21A	30A

† In 15A/30A configuration, the heater **will not operate** while the jets pump is running. **The factory setting is 120V/15A.**

‡ In 40A configuration, remove jumper JP1-2 on the board, to allow the heater **to operate** while the jets pump is running.

‡ **Caution (For 4-wire 240 VAC Heater Operation):** Move the red wire on the main terminal strip (TB1) from position #1 to position #3. Make certain wires are connected exactly as shown in Figure D (page 17) before applying power. Failure to do so will result in damage to the circuit board and/or related components and void the manufacturer's warranty.

Export J-335, J-345, J-355, J-365, J-375 and J-385 Models (50 Hz)

	<u>230V/20A*</u>	<u>230V/30A**</u>	<u>230V/40A***</u>
RCD Breaker:	20A	30A	40A
Number of Wires:	3	3	3
Frequency:	50 Hz	50 Hz	50 Hz
Current Draw:	15A	23A	29A
Wattage:	3.5 kW	5.3 kW	6.7 kW

- * In 20A configuration, the heater **will not operate** while either jets pump is running. ***This is the factory setting.***
- ** In 30A configuration, the heater **will operate** while one jets pump is running.
- *** In 40A configuration the heater **will operate** while both jets pumps are running.

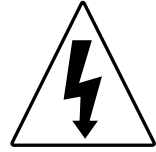
Export J-315 and J-325 Models (50 Hz)

	<u>230V/20A*</u>	<u>230V/30A**</u>
RCD Breaker:	20A	30A
Number of Wires:	3	3
Frequency:	50 Hz	50 Hz
Current Draw:	15A	21A
Wattage:	3.5 kW	4.8 kW

- * In 20A configuration, the heater **will not operate** while the jets pump is running. ***This is the factory setting.***
- ** In 30A configuration, the heater **will operate** while the jets pump is running.

7.0 Electrical Wiring Instructions

IMPORTANT NOTICE: The electrical wiring of this spa must meet the requirements of the National Electrical Code/USA (NEC) and 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. Convertible 120/240V Power Models:

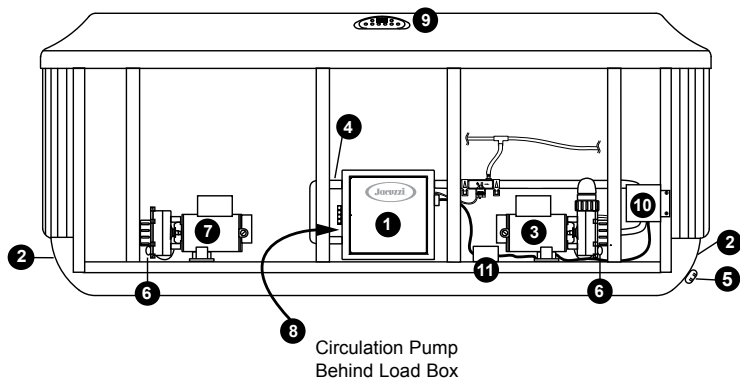
-  **DANGER: TO DECREASE THE RISK OF SHOCK, PRODUCT DAMAGE OR ELECTRICAL FIRE.**

120V “Plug-in” Operation: This spa must operate on the supplied 10 foot (3m) GFCI cord at its original length or must be hard-wired for longer runs. **NEVER USE AN EXTENSION CORD FOR ANY REASON!**

- Convertible 120/240V Operation: The included 120V GFCI cord must be discarded for 240V operation. This spa must be hard wired. Supplying power to either configuration above which is not in accordance with these instructions will void both the independent testing agency listing and the manufacturer’s warranty.
2. **Dedicated 240V models 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.
3. The power supplied to this spa must be a dedicated circuit with no other appliances or lights sharing the power provided by the circuit.
4. To determine the current, voltage and wire size required, refer to Section 6.0 “Power Requirements” (page 12).
- Wire size must be appropriate per NEC/USA and/or local codes.
 - We recommend type THHN wire.
 - All wiring must be copper to ensure proper connections. **Do not use aluminum wire.**
5. When using wire larger than #6 (10 mm²), add a junction box near the spa and reduce to short lengths of #6 (10 mm²) wire to connect to the spa.
6. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 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.

7. The electrical circuit supplied for the spa must include a suitable ground fault circuit interrupter (GFCI) as required by NEC/USA Article 680-42.
8. To gain access to the spa's power terminal block, press the release button securing the synthetic cabinet panel under the control panel (Figure A). Then remove the four control box door screws and door (Figure B).
9. Select the power supply inlet you want to use (Figure A). Feed power cable to control box, then install it through the large opening provided in the bottom side of the box.
10. Connect wires, color to color, on terminal blocks TB1 and TB3 (Figure C, page 17). TIGHTEN SECURELY! All wires must be hooked up securely or damage could result.
11. Install control box door and screws and reinstall the cabinet panels.

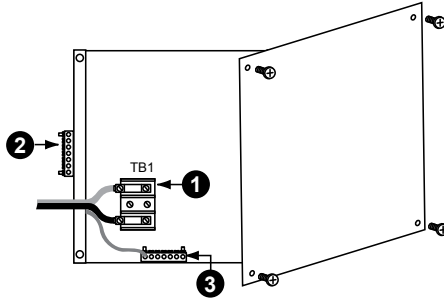
Figure A
Equipment Area



- | | |
|-----------------------------|---|
| 1. Control Box | 7. 1-Speed Jets Pump |
| 2. Power Supply Entrance(s) | 8. Circulation Pump |
| 3. 1-Speed Jets Pump | 9. Control Panel |
| 4. Heater | 10. CLEARRAY® (Ultraviolet) Water Purification System |
| 5. Spa Drain Valve | 11. Electronic Ballast (for the CLEARRAY System) |
| 6. Pump Drain Plugs(s) | |

Note: Equipment location (such as pumps, CLEARRAY system, drain, heater etc.) varies by model.

Figure B Control Box



1. Terminal Block
2. Bonding Lug
3. Grounding Terminal

<p>Figure-C</p>	<p>Figure-D</p>
<p>North American Convertible Models: 120 VAC, 3-Wire Connection 60 Hz</p>	<p>North American Convertible Models: 240 VAC, 4-Wire Connection 60 Hz</p>
<p>◆ Caution (For 4-wire 240 VAC Heater Operation): Move the red wire on the main terminal strip (TB1) from position #1 to position #3. Make certain wires are connected exactly as shown in Figure D before applying power. Failure to do so will result in damage to the circuit board and/or related components and void the manufacturer's warranty.</p>	
<p>Figure-E</p>	<p>Figure-F</p>
<p>North American 240V Models: 240 VAC, 3-Wire Connection 60 Hz</p>	<p>All Export Models: 230 VAC, 3-Wire Connection 50 Hz</p>

8.0 Spa Fill Up Procedure

For best results, read each step in its entirety before proceeding with that step.

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.
- Remove filter cover, then remove filter cartridge as outlined in Section 12.1 (page 36).

2. Fill Spa

- Place the end of your garden hose into the empty filter bucket.

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!)

IMPORTANT: Always fill your spa through the filter bucket after draining. Failure to do so may cause air to be trapped in either pump, preventing the pump from circulating water. Remove the hose and replace the filter cartridge. Note: DO NOT overtighten filter cartridge, finger tight only!

3. Turn On Power

Turn on power to spa at the home's circuit breaker to start boot up sequence (Sec. 10.0, page 25). The heater and filter pump will automatically activate after several seconds. If the control panel LED flashes water temperature and "COL" or "ICE" this is normal, refer to page 49 for additional information.

Note: "COL" will only appear when the spa is in Economy mode.

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. See Section 13.0 "Water Quality Maintenance" (page 43) 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.

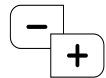
6. Establish A Stable Sanitizer Reading





Establish a stable sanitizer reading of no less than 1.0 ppm free chlorine or 2.0 ppm bromine. 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 cannot be stabilized, perform the decontamination procedure steps 9-15 on the following page.

Note: The "decontamination procedure" steps 9-16 should also be used after the spa has been "Winterized" (Section 12.8, page 42) or has been sitting without power for an extended period.

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).
- For North American spas connected to a 40 amp service, jets pump #1 and jets pump #2 must be turned off to operate the heater.
- For Export spas connected to a 20 amp service, jets pump #1 and jets pump #2 must be turned off to operate the heater.
- 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 1.5° 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 9-16)

Steps 9-16 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).

9. Add 2.5 ounces (71 g) of sodium dichlor for every 100 gallons (378 Liters) of water. Refer to the table below 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
J-385	500 Gal (1,893 L)	12.5 oz
J-375	470 Gal (1,779 L)	11.75 oz
J-365	440 Gal (1,666 L)	11.0 oz
J-355	400 Gal (1,514 L)	10.0 oz
J-345	370 Gal (1,401 L)	9.25 oz
J-335	360 Gal (1,363 L)	9.0 oz
J-325	360 Gal (1,363 L)	9.0 oz
J-315	230 Gal (871 L)	5.75 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 39).
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 all jets pump(s) 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 sanitizer reading no less than 1.0 ppm free chlorine or 2.0 ppm bromine, 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.

IMPORTANT: If the CLEARRAY® water purification system is removed from the hot tub or is not operating effectively follow the “without CLEARRAY®” water chemistry parameters as defined by the Association of Pool and Spa Professionals.

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

9.0 Control Functions

9.1 Control Panel

A. **CLEARRAY (☼) Button:** Manually activates the **CLEARRAY** system for a one-hour period.



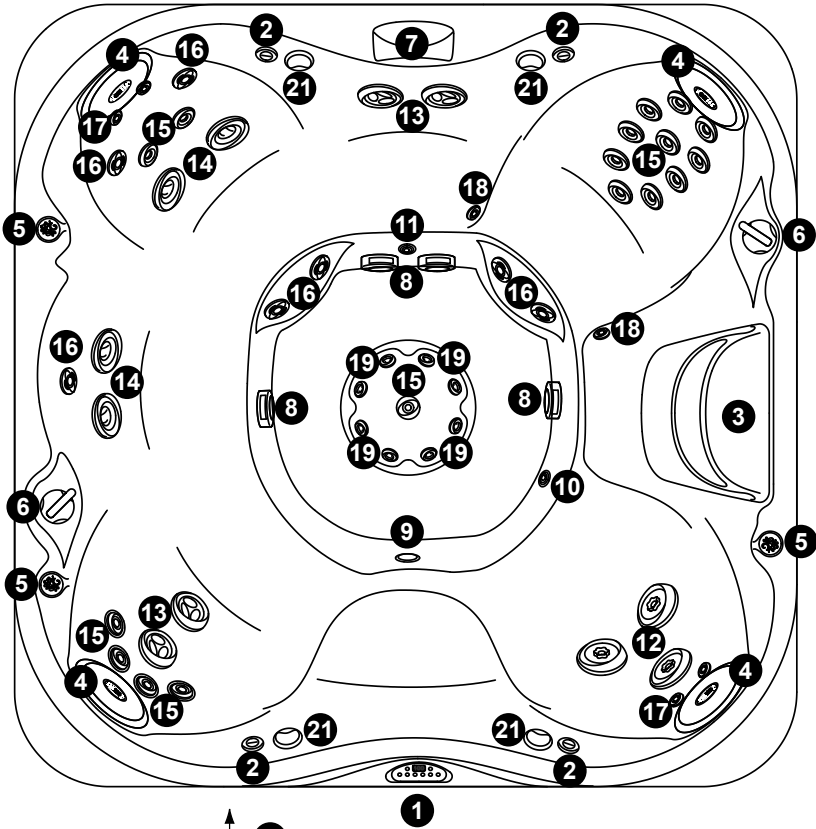
2-Pump Control Panel Shown

- B. **CLEARRAY Indicator Light:** Lit when the **CLEARRAY** system is on. Flashing when the UV bulb needs to be replaced.
- C. **Light On/Off (☼) Button Options:** Turns waterfall light, footwell light, lighted cup holders and backlit pillows on in unison. Press once for high intensity; press a second time for medium intensity; press a third time for low intensity; press a fourth time to turn off. The displayed color is changed using the light mode button (D) below.
- D. **Light Mode (☼) Button:** Selects one of 4 light color modes for waterfall, footwell, cup holders, and pillow lights. See page 26 for additional information.
- E. **Cooler (☹) Button:** Decreases water temperature set point. Also used to navigate through the programming menus.
- F. **Warmer (☺) Button:** Increases water temperature set point. Also used to navigate through the programming menus.
- G. **Jets 1 (☼) Button:** Turns jets pump #1 on and off. Press once to turn pump #1 on; press a second time to turn pump #1 off.
- H. **Jets 2 (☼) Button (J-335 to J-385):** Turns jets pump #2 on and off. Press once to turn pump #2 on; press a second time to turn pump #2 off.
- I. **Menu (☰) Button:** Allows access to the programming menus.
- J. **Heat Indicator:** Lit when heater is on.
- K. **LED Display:** Can display current water temperature (default display), water temperature set point, selected menu functions, and error messages.

Operation Details

- Temperature Adjustment: 65 to 104°F (18 to 40°C). Factory default setting is 100°F (38°C).
- **CLEARRAY** Operation: System runs for 1 hour (when manually activated), then automatically shuts off.
- Light Operation: All LED lights run for 2 hours, then automatically shut off.
- Jets 1/Jets 2 Button Operation: Jets run for 20 minutes when activated, then turn off automatically to conserve energy. Simply press either jets button to continue operation for an additional 20 minutes.

9.2 General Spa Features And Controls



20 J-385 model illustrated - Location of Features Varies by Model. Specifications/features subject to change without notice.

- | | |
|--|--|
| 1. Control Panel | 11. Waterfall overflow |
| 2. Toggle Air Controls | 12. PowerPro MX2 Jets |
| 3. Filter/Skimmer Grill | 13. PowerPro FX2 Spinner Jets |
| 4. Backlit Pillows | 14. PowerPro FX2 Jets |
| 5. Lighted Cup Holders* | 15. PowerPro FX Jets |
| *Light features not offered on J-315/J-325 Models. | |
| 6. Massage Selector Valves | 16. PowerPro FX SpinnerJets |
| 7. Waterfall Feature | 17. PowerPro NX2 Jets |
| 8. Footwell Suction Fittings | 18. PowerPro BX Jets |
| 9. Spa Light | 19. PowerPro Mini FX Jets |
| 10. Heater Return Fitting | 20. Optional BLUEWAVE® Spa Stereo System |
| | 21. Optional Stereo System Speakers |

Specifications Subject to Change Without Notice.



10.0 Operating Instructions

The spa control system has automatic functions that operate upon start-up and normal operation to protect the system. Upon power up, the readout displays the following information:

1. Control panel displays current software release, then;
2. Control panel displays "888" and all indicator LEDs are lit, permitting visual inspection of all display segments and indicator lights for proper operation.
3. After the initial start-up sequence ends, the actual water temperature is displayed. If water temperature, at this time, is less than the factory default temperature setting of 100°F (38°C) the heater will turn on and run until the water temperature rises to the factory setting, then turn off.

Note: It is common for the heater to turn on after the spa is first filled because tap water is often very cold.

10.1 Setting Water Temperature

Press either the **Warmer** () or **Cooler** () button to adjust the current temperature setting. The current set temperature reading will blink once to indicate that the system is ready to accept changes.

Press the **Warmer** or **Cooler** button to adjust the temperature to a desired setting. Once the desired temperature is reached, do not press any buttons on the control panel for about 5 seconds. The new temperature setting will blink twice to indicate that the change has been made.

To access the overtemp feature that allows the spa to reach 106°F (41°C) follow the steps below (Figure 1).

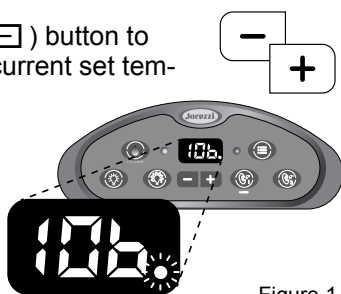






Figure 1



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.

- A. Press and hold the **WARMER** () button then;
- B. Press and hold the **JETS 1** () button at the same time for 2 seconds. You will see the temperature change to 105°F (40.5°C) on the LED display. Press the **WARMER** () to raise the temperature to 106°F (41°C) To lower the temperature, press the **COOLER** () button.
- C. When the overtemp has been activated, the decimal point after the last digit will flash on and off every second as an indicator for being in the overtemp mode.

Note: Once the temperature goes below 104°F (40°C) and you would like to raise the temperature to 106°F (41°C) again, you will have to repeat the steps above.

10.2 Activate Jet Pumps

The JETS 1 button activates jets pump 1. The first press turns jets pump 1 on; the second press turns jets pump 1 off. The JETS 2 button activates jets pump 2 (if equipped). The first press turns jets pump 2 on; the second press turns jets pump 2 off. When manually activated, either pump will automatically turn off after 20 minutes.



10.3 Light On/Off Button

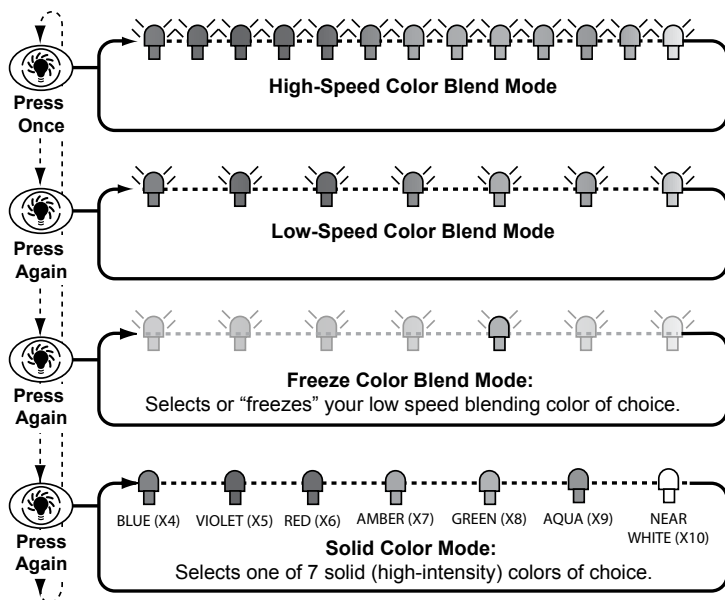
Pressing this button activates the waterfall light, footwell light, lighted cup holders, and backlit pillows lights in unison as follows: high - medium - low - off.



Note: Lights automatically turn off after 2 hours.

10.4 Light Mode Button

This button offers 4 light modes for your enjoyment. Press this button to select your favorite lighting effect as follows:



10.5 Jets

The water flow through individual jets in your spa can be adjusted or turned off by rotating the outside jet ring. Some jets offer an adjustable center nozzle that allows you to change the water discharge angle. Simply tilt the center nozzle in these jets to the desired angle to customize your personal massage.

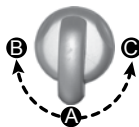


Other jets offer a spiral action that produces a surging stream of air and water that provides a vigorous massage.

Note: Always keep at least 6 adjustable jets open at all times to ensure proper filtration characteristics within the spa.

10.6 Selecting Desired Massage Action

All models incorporate a massage selector valve that allows you to customize the massage and performance by diverting water between various jet systems within the spa. Simply turn valve to positions A, B or C to divert water pressure to various jet groups.



Note: The valve is intended to operate in positions A (Combo), B, or C for optimum performance. It is considered normal for sound levels within the valve to increase between these positions due to the large amounts of water flowing through it. For optimum filtration benefits, always leave this valve in position A when the spa is covered and select positions B or C for maximum jet performance during spa use.

10.7 Waterfall Feature

The waterfall feature allows you to independently control it for a customized soothing effect. The waterfall is on when the circulation pump is on. The JETS 1 or CLEARRAY buttons will also activate the waterfall feature.

Waterfall Operation Details:

- A. Push thumb wheel on top of waterfall to the left (while in spa) to start or increase flow.
- B. Push thumb wheel on top of waterfall to the right (while in spa) to slow or turn flow off.



Note: When the waterfall is in the OFF position, some water could still flow through.

10.8 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 Jacuzzi logo side down to open or press the opposite side of button to close.



Note: To minimize heat loss, close all air controls (Jacuzzi logo up) when spa is not in use.

10.9 Optional BLUEWAVE® Spa Stereo System

Spas equipped with the optional audio system offer enhanced enjoyment. These models include a high-quality FM/USB/AUX/Bluetooth stereo receiver with four high-quality marine speakers for unsurpassed sound quality and long-life.

Note: Digital rights management (DRM) files cannot be played. Personal files (MP3, WMA, iTunes or AAC) can be played as long as they are not DRM encrypted files.



11.0 Menu Features and Programming Instructions

Your spa is equipped with five menus that allow you to program additional features. By continually pressing the Menu button you will cycle through the menus as follows (Figure 1):

Current temperature (Main Menu)	100
Primary Filtration Menu	PF
Secondary Filtration Menu	SF
CLEARRAY/UV Menu	U
Economy Menu	ECO
Lock Menu	LOC

Figure 1

A. Primary Filtration Menu

Allows access to the programming menu for the primary filtration that uses the circulation pump, page 29. Although the spa has a default setting this feature is programmable. While in this menu, you can also program the Change Filter Timer.

B. Secondary Filtration Menu

Allows access to the programming menu for the secondary filtration that uses Jets Pump 1, page 32. These cycles are used to provide additional skimming. Although the spa has a default setting this feature is programmable.

C. CLEARRAY Menu

Allows access to the **CLEARRAY**® bulb replacement countdown timer, page 33. Your spa is equipped with the **CLEARRAY** system that uses a UV bulb to purify the water. This bulb must be replaced every year. By programming the countdown timer, a reminder is displayed on the topside when it is time to replace the bulb. The LED screen will flash between “blb” and the set temperature. Additionally, the **CLEARRAY** indicator light will blink, page 23. The timer needs to be reset in order to clear the message.

D. Economy Menu

Allows access to the economy programming menu, page 33. The economy feature has either an “on” or “off” setting where the heater is allowed to activate for a maximum of 30 minutes at the end of each secondary filtration cycle.

E. Lock Menu

Activates the locking modes to certain components, features or operations, page 35.

11.1 Primary Filtration Menu

During the primary filtration cycle, the circulation pump and CLEARRAY are activated. The spa is programmed with a factory default setting but can be programmed to any of the cycle settings listed below. These cycles allow the circulation pump to run for preset amounts of time per day, in addition to the normal operation. Should the circulation pump activate outside of a preset cycle (except for PF0 and PF6), e.g. when heating, that run time will reduce the length of the next cycle.

Note: To set a time for the primary filtration cycle to begin, simply turn power on to the spa two minutes prior to the desired time. You can also press the Warmer, Cooler and Jets Pump 1 buttons simultaneously for 2 seconds to restart the spa once power has been provided.

PF0	No filtration
PF1	4 hours of filtration per day
PF2	8 hours of filtration per day (default setting for J-335 to J-385)
PF3	12 hours of filtration per day
PF4	16 hours of filtration per day
PF5	20 hours of filtration per day
PF6	24 hours of filtration per day (default setting for J-315 and J-325)
PF7	2 hours of filtration – 4 times per day
PF8	3 hours of filtration – 4 times per day



In extreme bitter cold weather we recommend you program the primary filtration cycle to run 24 hours. Refer to the "Winterizing" section on page 42.

A. Cleanup "Blow-Out" Cycle

This cycle is activated once every 24 hours in either Standard or Economy mode. The Cleanup Cycle shall start before the first filtrations cycle. Pump 1 will activate for 1 minute and then shut off. Then Pump 2 will activate for 1 minute and then shut off.

B. For Models J335 to J385

Two minutes after power is applied to the spa, an automatic primary filtration cycles begins. The circulation pump is activated and set to run for 8 hours a day (factory default). The circulation pump draws water through the skimmer bag and one of two filter cartridges to effectively remove small debris in your spa. During the primary filtration cycle, the

circulation pump and CLEARRAY are activated. The factory default setting is PF2. This setting is programmable.

Note: The circulation pump also supplies heated water to the spa when the heater turns on. **Any time the circulation pump runs, e.g. when heating, outside of a programmed cycle (except for PF0 and PF6), that run time will reduce the length of the next cycle.**

To remove larger debris missed by the primary filtration system, the control system can activate a secondary filtration system. These cycles utilize Jets Pump 1 and the second filter cartridge to quickly “skim” the water of large debris and minimize their “bath-tub ring” effect.

C. For Models J315 and J325

Your new spa includes a **24-hour primary filtration system**, which filters the water continuously (factory default). The circulation pump draws water through the skimmer bag and one of the two filter cartridges to effectively remove small debris in your spa. The factory default setting is PF6. This setting should not be altered. Running the circulation pump less than the factory recommended time will result in issues with water quality maintenance. The 24-hour primary filtration system also supplies heated water to the spa when the heater turns on.

To remove larger debris missed by the 24-hour primary filtration system, you can program a secondary filtration system. The secondary filtration cycles use Jets Pump 1 and the second filter cartridge to quickly “skim” the water of large debris and minimize their “bath-tub ring” effect.

11.2 Programming the Primary Filtration Cycle

To make changes to the primary filtration cycle, follow the steps below.

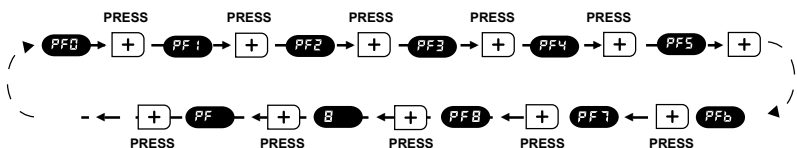


Figure 2

- Press the **Menu** (☰) button once to access the program settings. The LED screen will display “PF.”
- Press the **Warmer** (+) or **Cooler** (-) button to prepare the system for changes. The LED will display the last cycle programmed and will blink once to indicate the system is ready to accept changes.
- Press the **Warmer** (+) or **Cooler** (-) button to scroll through the cycles, PF0 to PF8, Figure 2.
- Once a cycle is selected, press the **Jets Pump 1** (☺) button to confirm the selection. You must press the **Jets Pump 1** (☺) button to confirm your selection or the current settings will remain active.
- The display will show the new cycle selected and it will blink twice to indicate that the change has been accepted.

Note: If no button is pressed within 5 seconds of each selection the screen will revert back to the Main Menu and the current settings will remain active.

11.3 Programming the Change Filter Timer

Included within the Primary Filtration Menu, is the Change Filter feature. To make changes to the change filter timer or to reset it, follow the steps below.

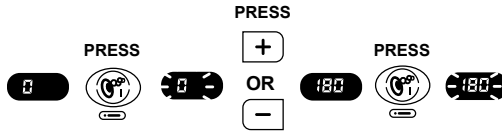


Figure 3









- A. Press the **Menu** () button once to enter the Primary Filtration Menu. The LED screen will display “PF.”
 - B. Press the **Warmer** () button to scroll through the Primary Filtration cycles. After the last cycle, “PF8,” the LED screen will display the number of days remaining or zero, Figure 3.
- Note:** If you press the **Warmer** () button after the number of days remaining you will revert back to the “PF” menu. You will need to repeat step B to re-enter the menu.
- C. Press the **Jets Pump 1** () button to access the Change Filter Timer. The display on the LED screen will blink once to indicate that the system is ready to accept changes.
 - D. Pressing the **Warmer** () or **Cooler** () button will add or subtract days in increments of 10 days. The range is from 0 to 180 days.
 - E. Once you select the number of days, press the **Jets Pump 1** () button to confirm the selection. The display of the LED screen will blink twice to indicate that the changes have been accepted. You must press the **Jets Pump 1** () button to confirm your selection or the current settings will remain active.
 - F. When the countdown timer reaches “0,” the LED display will flash between “CF” (Figure 4) and the water temperature. At this time the filters must be replaced or cleaned and the timer reset.



Figure 4

Note: If no button is pressed within 5 seconds of each selection the screen will revert back to the Main Menu and the current settings will remain active.

11.4 Secondary Filtration Menu

The jets pump 1 activates during the secondary filtration to provide additional skimming. The spa is programmed with a default setting of SF0 but can be programmed to any of the cycle settings listed below, Figure 5. These cycles schedule the jets pump 1 to run for a preset amount of time per day, in addition to normal operation.

Note: During the secondary filtration the jets pump 1, circulation pump and CLEARARRAY are activated.

SF0	No filtration
SF1	10 minutes of filtration every 12 hrs
SF2	10 minutes of filtration every 8 hrs
SF3	10 minutes of filtration every 6 hrs

Figure 5

11.5 Programming the Secondary Filtration Cycle

To make changes to the Secondary Filter Cycle, follow the steps below.

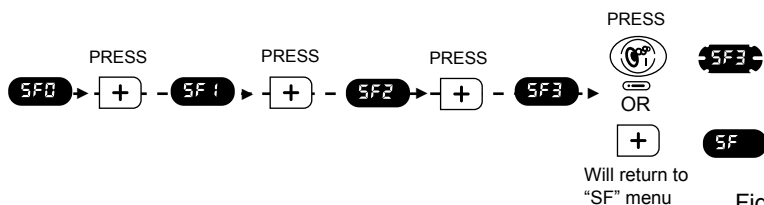


Figure 6

- A. Press the **Menu** (☰) button twice to display the Secondary Filtration Cycle Menu. The LED screen will display “SF.”
- B. Press the **Warmer** (+) button to prepare the system for changes. The LED will display the last cycle programmed and will blink once to indicate the system is ready to accept changes.
- C. Press the **Warmer** (+) or **Cooler** (-) button to scroll through the cycles, SF0 to SF3 (Figure 6).
- D. Once a cycle is selected, press the **Jets Pump 1** (⚙️💡) button to confirm the selection. You must press the **Jets Pump 1** (⚙️💡) button to confirm your selection or the current settings will remain active.
- E. The display will show the new cycle selected and it will blink twice to indicate that the change has been accepted.

Note: If no button is pressed within 5 seconds of each selection the screen will revert back to the Main Menu and the current settings will remain active.

11.6 Programming the CLEARRAY Bulb Replacement Timer

To make changes to the CLEARRAY bulb replacement timer or to reset it, follow the steps below (Figure 7).

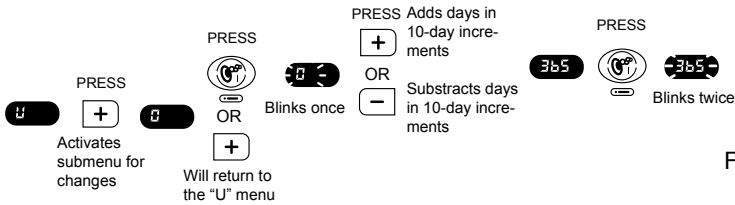










Figure 7

- Press the **Menu** () button three times to display the CLEARRAY Bulb Replacement Timer Menu. The LED screen will display "U."
- Press the **Warmer** () button to enter the menu. The LED screen will display the number of days remaining or zero.

Note: If you press the **Warmer** () button after the number of days remaining you will revert back to the "U" menu. You will need to repeat step B to re-enter the menu.

- Press the **Jets Pump 1** () button to access the CLEARRAY bulb replacement timer. The display on the LED screen will blink once to indicate that the system is ready to accept changes.
- Pressing the **Warmer** () or **Cooler** () button will add or subtract days in increments of 10 days except when 360 is reached. Then a 5-day increment occurs. The range for programming is from 0 to 365 days.
- Once you select the number of days, press the **Jets Pump 1** () button to confirm the selection. The display of the LED screen will blink twice to indicate that the changes have been accepted. You must press the **Jets Pump 1** () button to confirm your selection or the current settings will remain active.

Note: If no button is pressed within 5 seconds of each selection the screen will revert back to the Main Menu and the current settings will remain active.

11.7 Economy Menu

In Economy mode, the heater **only** activates after a Secondary Filtration cycle has finished. The heater will run for a maximum of 30 minutes. The heater can turn off prior to the 30 minutes if the programmed water temperature is reached. The Secondary Filtration program determines the number of cycles (from 1 to 4) that the heater will be allowed to activate. For example, if you have programmed the SF3 setting (10 minutes of filtration every 6 hours), then the heater will run, for a maximum of 30 minutes, after the end of each of the 10-minute secondary filtration cycle, for up to four times per day. Reference the chart that follows.

CYCLE	RUN TIME	HEATER RUN TIME
SF0	No filtration	Maximum of a half hour per day
SF1	10 minutes of filtration every 12 hrs	Maximum of a half hour every 12 hrs (after secondary cycle ends)
SF2	10 minutes of filtration every 8 hrs	Maximum of a half hour every 8 hrs (after secondary cycle ends)
SF3	10 minutes of filtration every 6 hrs	Maximum of a half hour every 6 hrs (after secondary cycle ends)

11.8 Programming the Economy Mode

To activate the Economy Mode, follow the steps below.

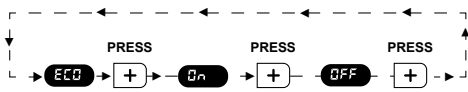


Figure 8



Figure 9

- Press the **Menu** (☰) button four times to display the Economy Menu (Figure 8). The LED screen will display “ECO.”
- Press the **Warmer** (+) button to enter the menu. The LED screen will display the current status of the Economy Mode setting, either ON or OFF.
- Press the **Warmer** (+) button to scroll through the settings.
- Once the new setting appears of the display, press the **Jets Pump 1** (☰) button to confirm your selection (Figure 9). The display of the LED screen will blink twice to indicate that the change has been accepted. You must press the **Jets Pump 1** (☰) button to confirm your selection or the current settings will remain active.

Note: If no button is pressed within 5 seconds of each selection the screen will revert back to the Main Menu and the current settings will remain active.

11.9 Lock Menu

The Lock menu gives you the option to lock specific features of the spa. There are three locking modes, L1, L2 and L3.

Note: When a lock mode is active, the LED display will flash between the lock mode and temperature.

L1 lock mode: The jets pumps and heater are deactivated. This mode can be used when replacing or cleaning the spa filters.

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

L2 lock mode: The jets pumps, adjust temperature and CLEARRAY buttons are deactivated. This mode can be used to prevent unauthorized use of the spa.

L3 lock mode: The temperature and CLEARRAY buttons are deactivated. This mode can be used to prevent unauthorized temperature adjustments.

11.10 Programming the Lock Modes

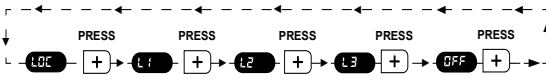


Figure 10

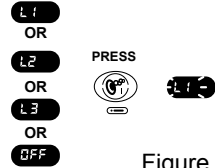


Figure 11

To activate and deactivate the lock modes, follow the steps below:

- Press the **Menu** (⊖) button five times to display the Lock Menu (Figure 10). The LED screen will display “LOC.”
- Press the **Warmer** (+) button to enter the menu. The LED screen will display the current status of the Lock Mode setting, either L1, L2, L3 or OFF.
- Press the **Warmer** (+) button to scroll through the modes.
- Once the new setting appears on the display, press the **Jets Pump 1** (⊖) button to confirm your selection (Figure 11). The display of the LED screen will blink twice to indicate that the change has been accepted. You must press the **Jets Pump 1** (⊖) button to confirm your selection or the current settings will remain active.

Note: If no button is pressed within 5 seconds of each selection the screen will revert back to the Main Menu and the current settings will remain active.

11.11 Top Menu Lock

To prevent unauthorized use of the menu features, you can lock the Menu access button. When the lock feature is activated, access to the Primary Filtration, Secondary Filtration, CLEARRAY, Economy and Lock programming menus is deactivated. The temperature setting feature, jets pumps operation and lighting features are still accessible.

11.12 Programming the Top Menu Lock Feature

To activate the Top Menu locking feature, follow the steps below:

- Press and hold the **Menu** (⊖) button for 10 seconds.
- The LED screen will display “LOC.” The LOC display will also blink twice to indicate that the change has been accepted.
- When done the LED display will return to the temperature display.
- When the LOC feature is active, any time you press the **Menu** (⊖) button, the LED will display “LOC.”

To deactivate the Top Menu locking feature, follow the steps below:

- Press and hold the **Menu** (⊖) button for 10 seconds.
- The LED screen will display “LOC.” The LOC display will also blink twice to indicate that the change has been accepted.
- You will now have access to the Menus.

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.



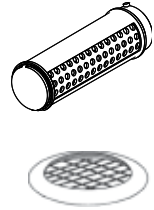
DANGER: RISK OF SEVERE INJURY OR DROWNING BY ENTRAPMENT!

- 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

Your Jacuzzi spa is equipped with a skimmer bag and two high performance pleated filter cartridges located under the filter cover. The circulation pump drawing water through the skimmer bag and filter cartridge filters fine debris. Large debris is filtered by jets pump 1 drawing water through the skimmer bag and second filter cartridge during an automated Secondary Filtration Cycle or when jets pump 1 is manually activated during spa use. Combined, both filters provide unsurpassed water quality by trapping surface oils and suspended particles. The filter cartridge should be cleaned once a month or as necessary, depending on use, for optimum performance.

An optional chemical feeder is available through your authorized Jacuzzi dealer that installs under the filter cap (#2472-673). Always remove the chemical feeder cap and feeder (when used) during the filter cleaning process by turning the cap handle counterclockwise. Reinstall the cap and feeder back onto the filter cartridge after the filter cleaning process is complete. It is recommended that latex gloves be used to avoid touching the chemical feeder during the filter cleaning process.



Note: When used, the chemical feeder MUST remain on the circulation pump filter cartridge! This filter cartridge is the one with the grid across the wall fitting as shown (right).

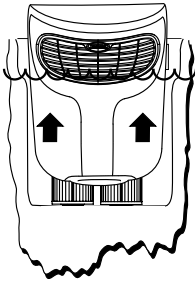
TO DECREASE RISK OF DEATH, DROWNING OR ENTRAPMENT, ALWAYS TURN POWER TO SPA OFF BEFORE CLEANING THE FILTER CARTRIDGES!

Note: Refer to steps on following page for complete filter cleaning/replacement instructions.

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!**

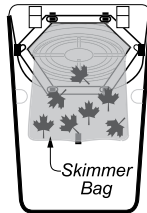


B



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

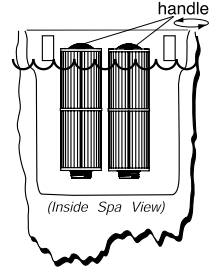
C



(Filter Cover Back View)

Remove skimmer bag from clips, then clean out debris.

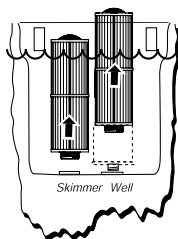
D



(Inside Spa View)

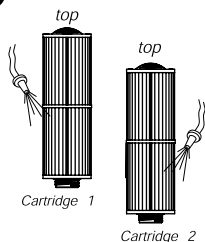
Rotate each filter cartridge handle counterclockwise to unthread from mating wall fitting.

E



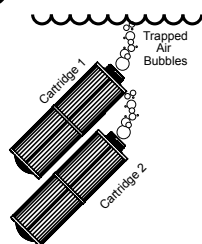
Lift unthreaded filter cartridge from skimmer well.

F



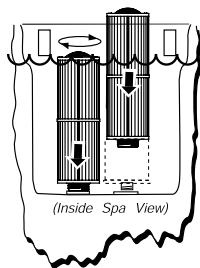
If used, remove the chemical feeder as instructed prior to rinsing the filter cartridges. Rinse debris from filter pleats on each cartridge using a garden hose and high pressure nozzle. Start at the top and work downward towards handle. Repeat until all pleats are clean.

G



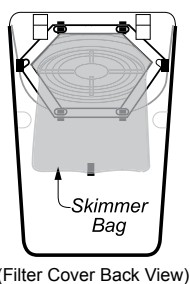
Submerge both filter cartridges in spa. Tilt threaded end upward to remove trapped air bubbles, then keep cartridges submerged to prevent air entrapment during installation (step H).

H



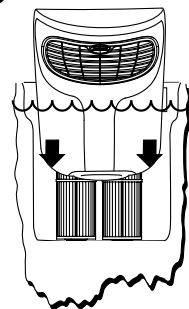
Place each cartridge back into skimmer well, then rotated each cartridge handle clockwise to thread back into wall fitting. **DO NOT OVERTIGHTEN!**

I



Install clean skimmer bag back onto the filter cover clips as shown.

J



Tilt filter cover back then gently press down to latch against retaining clips. 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 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.

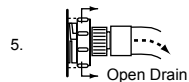
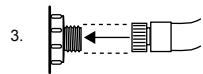
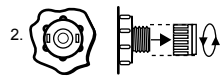
CAUTION! READ THIS BEFORE DRAINING: To prevent damage to the spa's components, **turn off power to the spa at the circuit breaker before draining it.** Do not turn the power back on until your spa has been refilled.

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 42). On the other hand, if it is hot outdoors, do not leave the spa's surface exposed to direct sunlight.

To drain your spa, perform the following steps:

1. Turn off power to spa at breaker.
2. Locate the drain valve 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.

1. Turn off power to spa.



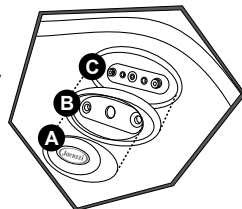
After refilling, turn on power to the spa and follow the steps listed under "Spa Fill Up Procedure" (page 18). Always fill your spa through both filter wall fittings.

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.

To remove pillows:

1. Grasp pillow insert (A) with finger tips and gently pry outward from pillow base (B).
2. Grasp pillow base (B) with finger tips and gently pry outward from spa shell (C).
3. Assemble in reverse order after cleaning.



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 Vinyl Cover Care and Maintenance

Your Jacuzzi cover has a vinyl encasement. This vinyl encasement is attractive and durable. Monthly cleaning and conditioning is strongly recommended to maintain and increase the longevity of your cover.

A. To Clean and Condition the Vinyl Cover

1. Use a garden hose to loosen debris and dirt.
2. Using a large sponge or a soft bristle brush, use diluted or mild soap and scrub the vinyl top. Rinse clean and do not allow soap to dry on cover. Do not use soap on the underside of the cover.
3. Please check with your Jacuzzi Dealer for recommended cover care and conditioning products. Condition using non-petroleum based conditioners to keep the vinyl supple and threads/stitching from drying out. Do not use solvents, abrasive cleaners or strong detergents. Do not use products that contain silicone or alcohol.

B. To Clean and Condition the ProEndure™ cover:

1. Brush off dirt, leaves and any loose debris.
2. Thoroughly hose down the cover.
3. Using a large sponge or a soft bristle brush, use diluted or mild soap (such as woolite or dreft, no detergents) and scrub the cover. Allow the solution to soak in.
4. Rinse clean and do not allow soap to dry on cover. Continue to rinse until all the soap solution is removed. Do not use soap on the underside of the cover. The fabric dries quickly allow it to air. Do not apply heat or machine dry.

5. Retreating the fabric, using 303 High Tech Fabric Guard™, after cleaning is highly recommended. Follow the instructions from the manufacturer.
6. Additional cleaning and care information may be found at www.sunbrella.com

NOTE: Do not use solvents, abrasive cleaners or strong detergents. Do not use products that contain silicone or alcohol.

C. 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 vinyl.
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 Tool Free Access Door

The Tool Free Access door provides fast access to the equipment bay and components without the need of tools. To remove the door, follow the steps below.

Note: To avoid any injuries, more than one individual must perform these steps.

1. Locate the door's retractable push button on the top of the front panel, Figure A.
2. Press the retractable push button to release the panel door from the spa frame, Figure B.
3. Slowly and gently tilt the panel forward to remove, Figure C. This will expose the equipment bay for easy access to the components. Place the panel in a safe location to prevent from damaging it.
4. To reinstall the panel just follow the steps above in reverse order.

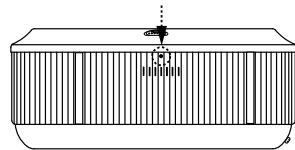


Figure A



Figure B

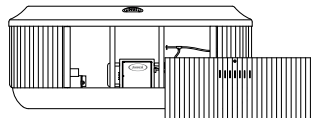


Figure C

12.7 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.

12.8 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), program the primary filtration cycle to run for 24 hours to prevent freezing (page 29).**



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 39 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 27.
4. Turn the waterfall valve(s) to the open position to allow the water in the plumbing lines to drain, page 27.
5. Open all the air controls and leave them open until you resume use of the spa, page 27.
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 footwell, 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 A, page 16). 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 A, page 16) 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. Loosen hose clamp at bottom of CLEARRAY® system and pull hose off of CLEARRAY fitting (twist the hose back and forth while pulling downward). Tip hose down and allow to drain. Then reinstall hose and clamp. Remove the cover of the CLEARRAY system to access the UV bulb and quartz tube. Remove and store the UV bulb in a safe location. Remove and dry off the quartz tube then reinstall it. Depending on the length of time, consider replacing the UV bulb when you resume use of your hot tub.
11. 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.

12.9 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.

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!

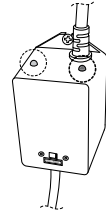
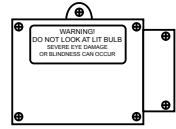
Never leave your hot tub unattended for any reason while the cover is open and accessible, especially to small children and animals!

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.

13.3 CLEARRAY® (Ultraviolet) Water Purification System

CLEARRAY Water Purification System is exclusive technology utilizing natural ultraviolet technology to eliminate waterborne bacteria, viruses, and algae in portable spas. The ultraviolet light otherwise known as UV-C or germicidal light inactivates the microorganisms disrupting the DNA so that it cannot reproduce and is considered lifeless. CLEARRAY is plumbed inline with your filtration system. After the water is drawn from the pump, filter, and heater it is then directed through the CLEARRAY system. Water passes through an ultraviolet light energy that treats and disinfects the water. The water is then pumped back into the spa giving you crystal clear water instantly. The system has a ballast that is the power supply for the purification system; it has two LED indicator lights the green indicating incoming power flow and the red indicating the system is properly working. CLEARRAY is standard for all models.



Note: The CLEARRAY System only runs when the circulation pump is running and shuts off when either jets pump is manually activated during spa use. The system will remain off for 5 minutes after both jets pumps time out or are manually turned off, then resume operations if the circulation pump is programmed to run.

After a year the bulb must be replaced. If the UV timer has been programmed correctly a message will appear on the LED display when the time allotted has expired. In order to clear the “blb” message a new UV bulb needs to be installed and the timer must be reset (page 33).

13.4 CLEARRAY® Bulb Replacement and Quartz Tube Maintenance

Important: It is **MANDATORY** that the UV bulb is replaced and the quartz tube be cleaned every 12 months to maintain optimum performance.

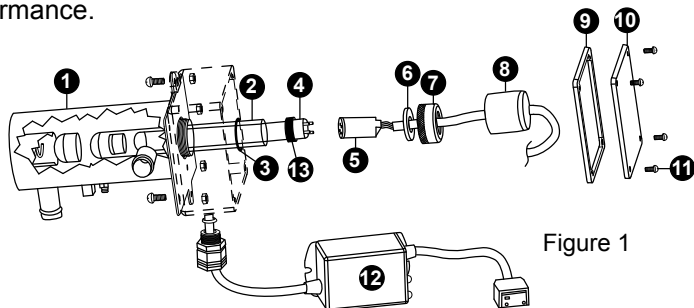


Figure 1



DANGER: TURN THE SPA BREAKER TO THE OFF POSITION!



WARNING: DRAIN THE SPA IF YOU ARE REPLACING OR CLEANING THE QUARTZ TUBE!



WARNING: ALLOW BULB TO COOL DOWN PRIOR TO REMOVING FROM QUARTZ TUBE.



DANGER: NEVER LOOK AT THE LIT BULB. THIS CAN CAUSE SEVERE EYE DAMAGE OR BLINDNESS.

UV BULB REPLACEMENT AND QUARTZ TUBE MAINTENANCE:

Note: Location of CLEARRAY System and connection may vary by model.

1. Turn the breaker to the spa OFF. DRAIN YOUR SPA. Disconnect the CLEARRAY System from the controller, Figure 2.

Note: If you are only replacing the UV bulb then the spa does not have to be drained. You will need to drain it if you are replacing or cleaning the quartz tube.

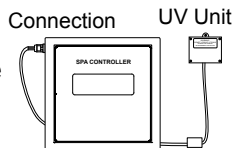


Figure 2



DANGER: NEVER REMOVE COVER WITHOUT FIRST TURNING OFF AT POWER SOURCE AND DRAINING YOUR SPA.

2. Once the UV bulb has cooled off remove the CLEARRAY System enclosure cover (10) and gasket (9) by removing the four screws (11).

Figure 3

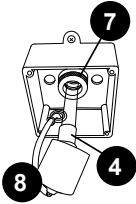


Figure 4

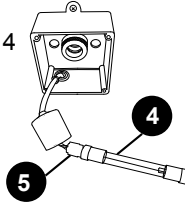
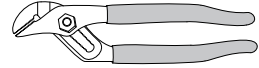


Figure 5



3. Remove the black bulb boot (8) by sliding it over the cable away from the quartz seal compression nut (7), Figure 3.
4. Slowly remove the UV bulb (4) out of the quartz tube.
5. Remove bulb socket (5) from the UV bulb (4), Figure 4.
6. Remove the quartz seal compression nut (7) by turning it **counterclockwise**, Figure 3. Use a pair of channel-lock pliers if needed, Figure 5. You will notice that there is a stainless steel compression washer (6) that slides over the quartz tube. Save the washer (6) for later use, Figure 6. There is also a black seal ring (13), grasp the black seal ring; slowly and carefully remove the quartz tube.
7. Now you are ready to clean or replace the quartz tube (2). For the cleaning of the quartz tube (2), follow steps 8 and 9 then proceed to step 10. For replacing of the quartz tube (2), skip steps 8 and 9 and proceed to step 10.
8. **Cleaning quartz tube:** Clean the quartz tube by wiping until clear using a paper towel or a dry cotton cloth. If needed a household tub and shower lime removal product can be used.

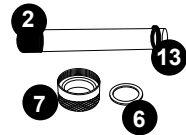


Figure 6



WARNING: Do not use abrasive cleaners as they can scratch the quartz tube surface.

9. Rinse the quartz tube with clean water to completely remove any cleaning products that were used in step 4.
10. **Replacing quartz tube:** You will notice that the new quartz tube does not have a black cushion on the domed end as the old quartz tube does. This is normal as the cushion was provided with the original quartz tube to protect it from breakage during transportation. Install the black seal ring (13) over the opened end of the quartz tube. Place the new quartz tube (2) into the water chamber (1) with the domed end first making sure it is inserted and seated inside the quartz end holder. Only a small portion will be exposed when it is seated correctly.
11. Reinstall the compression washer (6) over the open end of the quartz tube (2). Push it against the quartz black seal ring (13).
12. Reinstall and hand tighten the quartz seal compression nut (7) by turning it **clockwise**.
13. Refill your spa.

14. **System Test 1:** Assure there is no water dripping from the seal compression nut (7). If water is visible, STOP and tighten the compression nut (7) using a pair of channel lock pliers to a maximum of 1/4 turn. If that does not fix the leak, then repeat quartz tube maintenance process from step 1 through step 13. Make sure there is no water leaking before proceeding to step 15.
15. **System Test 2:** Reconnect the CLEARRAY System to the controller. Turn breaker back ON. Turn on the pump to circulate the water through the CLEARRAY System. Wait for 5 minutes and assure no water is dripping. If water is visible, STOP, fix the leak by repeating quartz tube maintenance process from step 1 through step 14.
Make sure there is no water visible. Turn the pump and breaker OFF and disconnect the CLEARRAY System from the controller BEFORE proceeding to step 16.
16. Reconnect the bulb socket (5) to the new UV bulb (4) make sure you use the latex glove provided when handling the UV bulb.
Note: Align pins on UV bulb (4) to the receptacle holes on the bulb socket (5) before inserting the pins completely into socket holes. Failure to do so will damage the UV bulb.



WARNING: DO NOT TOUCH THE NEW UV BULB WITH YOUR BARE HAND. Oil on your skin will cause hot spot on the UV bulb and shorten the life of your UV bulb. Use the provided latex glove to handle the UV bulb.

17. Slide the new UV bulb (4) back inside the quartz tube, Figure 3.
18. Reinstall the black bulb boot (8) back over the quartz seal compression nut (7).
19. Reinstall the enclosure cover (10) with gasket (9) and secure with the screws.
20. Reconnect the CLEARRAY System to the controller and turn on the power to the spa.
21. Properly dispose of the old UV bulb.



WARNING: This CLEARRAY System includes a UV bulb, which contains mercury. Dispose of the bulb in accordance with disposal laws. See www.lamprecycle.org.

22. Once power is activated you can check the ballast (12), Figure 7, to see if the CLEARRAY System is functioning. A solid green light indicates that the CLEARRAY System is being provided power and should always be on. A solid red light indicates that UV bulb is activated.

Indicator
Lights



Figure 7

14.0 Error Conditions/Error 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.**

14.1 Summer Logic

When the actual spa water temperature reaches 2°F (1°C) above the set temperature, the spa goes into “summer logic.” The circulation pump will turn off automatically, if running, to avoid adding additional heat to the water, eventually creating an overheat condition. This setting is not user-programmable.



Note: Summer logic does not take effect until the spa water temperature reaches 95°F (35°C). This condition is more likely in excessively hot weather. Remember, the spa’s ability to cool is directly affected by the ambient temperature. An excessively hot ambient temperature may prevent the spa from cooling down because it’s fully insulated construction is designed to retain heat and minimize operating costs.

14.2 Panel Displays COL

Cool Condition - Temperature has dropped 20°F (11°C) below the current set temperature. The circulation pump and the heater have been activated to bring the temperature within 15°F (8°C) of the set temperature. No corrective action is required!



Note: This condition is common during first time fill ups or during refills since tap water is often very cold. “COL” will only appear when the spa is in Economy mode.

14.3 Panel Displays ICE

Freeze Protection - A potential freeze condition has been detected. No action is required. Water temperature is below 55°F (12.78°C). No action is required. Jets Pump 1, Jets Pump 2 and the circulation pump will activate for 10 minutes, then turn off. Then the circulation pump and the heater will activate for 10 minutes. The two cycles shall repeat until the water temperature reaches 65°F (18.33°C). See “Winterizing” (page 42).



14.4 Panel Displays SN1

Open sensor (heater is disabled) or shorted sensor (spa is deactivated). The high-limit temperature sensor is not functioning. Contact your authorized Jacuzzi dealer or qualified service technician.



14.5 Panel Displays SN2

Open or shorted sensor (heater disabled). The temperature sensor is not functioning. Contact your authorized Jacuzzi dealer or qualified service technician.



14.6 Panel Displays BLB



UV bulb needs to be replaced. The message will flash between “blb” and the water temperature. The countdown timer for the UV bulb needs to be reset (page 33). A new UV bulb can be purchased from a local Jacuzzi dealer.

14.7 Panel Flashes FL1 or FL2



A flashing “FL1” display means the flow switch is malfunctioning open, the filter cartridge is excessively dirty or an “air lock” condition has occurred at the circulation pump intake. A flashing “FL2” display means the flow switch is malfunctioning closed. In either case, the spa heater will deactivate and jets pump #1 may also deactivate. To correct condition perform the following:

1. Verify water level is above all jets but below lowest pillow. Add water if necessary.
2. Check for clogged or dirty filter cartridge (Sec. 12.1, page 36).
3. 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 (Sec. 12.1, page 36).
4. If the circulation pump is not running, turn power off at the main breaker, then turn power back on. This will reset the circulation pump priming cycle. Once the pump is primed, the error should clear.
5. If problem persists, contact your authorized Jacuzzi dealer.

14.8 Panel Displays OH



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

Water temperature is above acceptable limits. **DO NOT ENTER SPA!** Water temperature has reached 112°F (44°C).



The circulation pump has activated to circulate water through heater. Contact your authorized Jacuzzi dealer or qualified service technician.

To correct condition:

- Remove the spa's cover and allow your spa to cool down.
- Program the heater settings for Economy Mode (page 33). Raise water temperature setting to cancel Summer Logic condition (page 49).
- If the condition persists, contact your authorized Jacuzzi dealer.

14.9 Panel Displays (- - -)



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

Water temperature is above acceptable limits. **DO NOT ENTER SPA!** The safety “Watchdog” software has been triggered and the spa is deactivated. A problem has been detected which could cause damage to the spa or its components. Contact your authorized Jacuzzi dealer or qualified service technician.



14.10 Panel Displays CF

The clean filter timer has expired. The spa filters need to be cleaned or replaced. The message will flash between “CF” and the water temperature. The countdown timer for the Change Filter feature needs to be reset (page 31). New filters can be purchased from a local Jacuzzi dealer.



15.0 Troubleshooting Procedures

In the event your Jacuzzi spa is not working the way it should, please first review all the installation and operating instructions in this manual and check for messages on the panel display. If you are still not satisfied it is working properly, please follow the appropriate troubleshooting instructions below. **Always insist on genuine Jacuzzi replacement parts.**

Note: If any of the supply cords to accessories are damaged, they must be replaced by authorized service personnel. Contact your authorized Jacuzzi dealer or qualified service technician.

15.1 None of the Components Operate (e.g. Pump, Light)

Check the following:

1. Is there power to the spa?
2. Is the household circuit breaker tripped?
3. Contact your authorized Jacuzzi dealer or qualified service technician.

15.2 Pump Does Not Operate

Press the JETS 1 button. If no water movement is detected, make sure power is going to the spa and check the water level. If this does not solve the problem, contact your authorized Jacuzzi dealer or qualified service technician. The main jets pump 1 operates but no water flows to jets.

Check the following:

1. Jets may all be closed. Verify all jets are in the open “on” position (Sec. 10.5, page 26).
2. Pump may not be properly primed. This can happen after the spa is drained and refilled. Press the JETS 1 button on the control panel

several times, never leaving the motor running for more than 5 to 10 seconds at a time. Turn power off and let the air out of spa plumbing system by removing the filter cartridge (Sec. 12.1, page 36). Make certain you reinstall the filter cartridge before turning on spa power and restarting the jets pump 1.

15.3 Poor Jet Action

- Make sure all jets are in the full open “on” position (page 26).
- Press the JETS 1 button to make certain pump #1 is on.
- Verify all air controls are in the “on” position by pressing down on their Jacuzzi Logo (page 27).
- Check for dirty filter. Clean, if necessary (Section 12.1, page 36).

15.4 Water is Too Hot

Reduce thermostat setting.

15.5 No Heat

1. Check thermostat setting.
2. Keep the spa cover in place while heating.
3. Check the settings to see if your spa is in economy mode (page 33).

Should checking the above steps fail to correct the problem, please call your Jacuzzi Hot Tub dealer so that they may arrange service. We build the best spas in the industry. Nonetheless, we are always striving to improve the quality and features of our products.

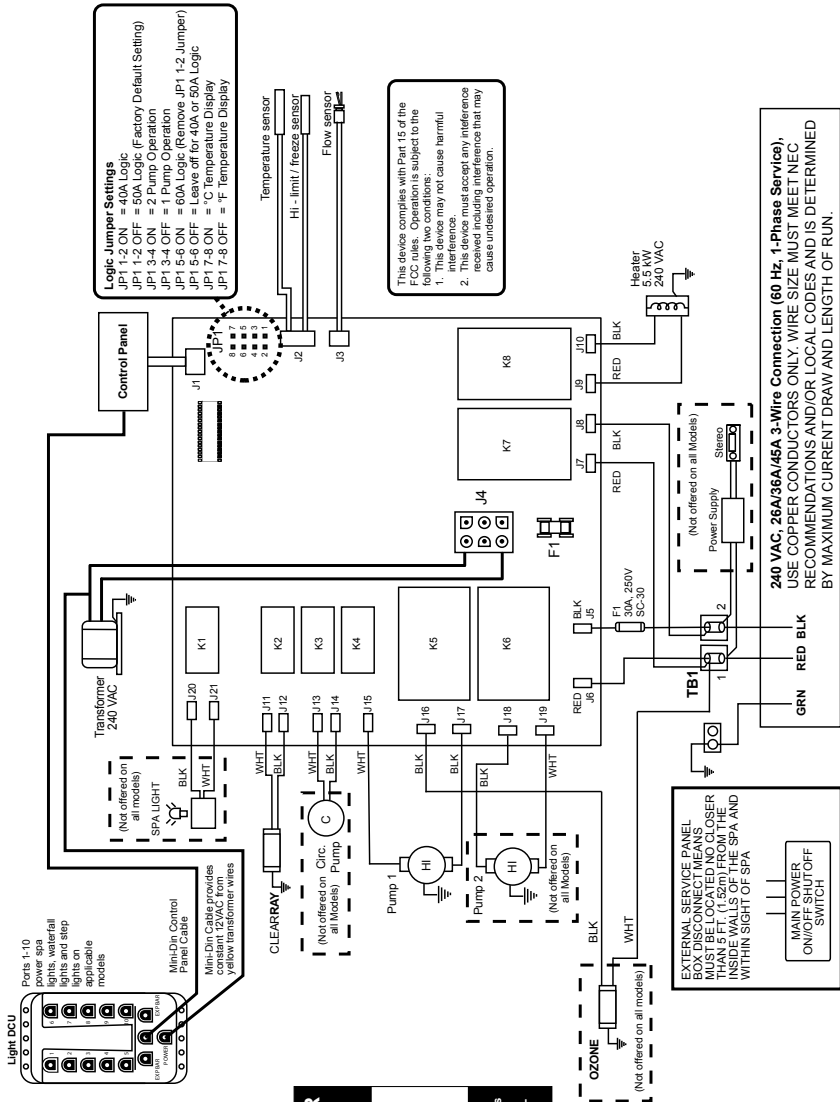
Your input as a Jacuzzi spa owner is a cherished part of this process. If you have any comments or suggestions, or if you wish to be informed on any new products for your spa, please write to us.

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 J-335, J-345, J-355, J-365, J-375 and J-385 Dedicated Power Models (60 Hz)

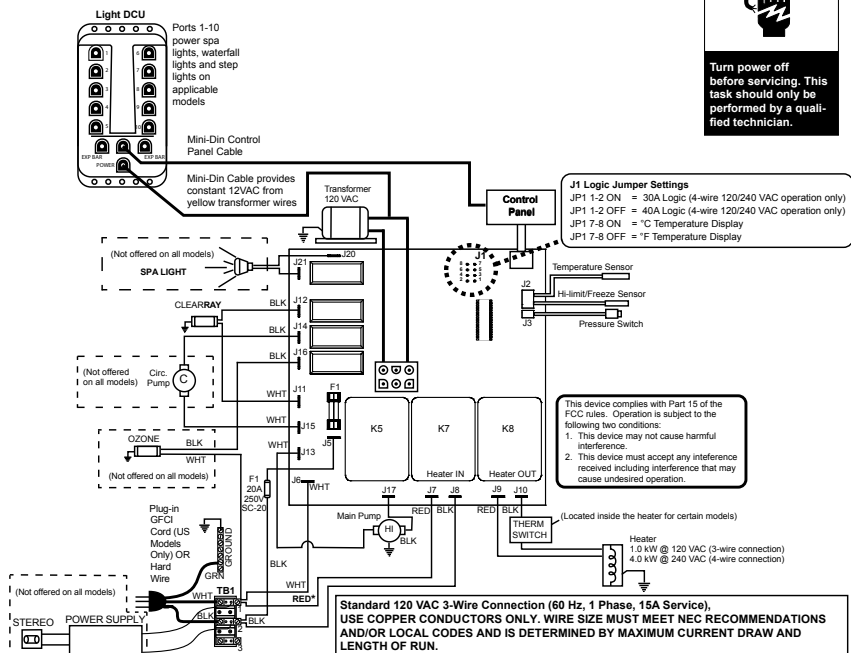
This wiring diagram is used for all North American, 240V (60 Hz) dedicated power models.



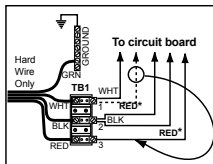
16.2 North American J-315 and J-325 Convertible Power Models (60 Hz)

This wiring diagram is used for all North American 120/240V 60 Hz convertible power models.

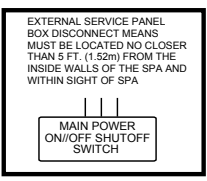
Note: Optional 120/240 VAC 4-wire connection enhances heater output from 1kW to 4kW.



WARNING, ELECTRICAL SHOCK HAZARD EXISTS! Always remove power to spa before wiring and/or configuring the circuit board.

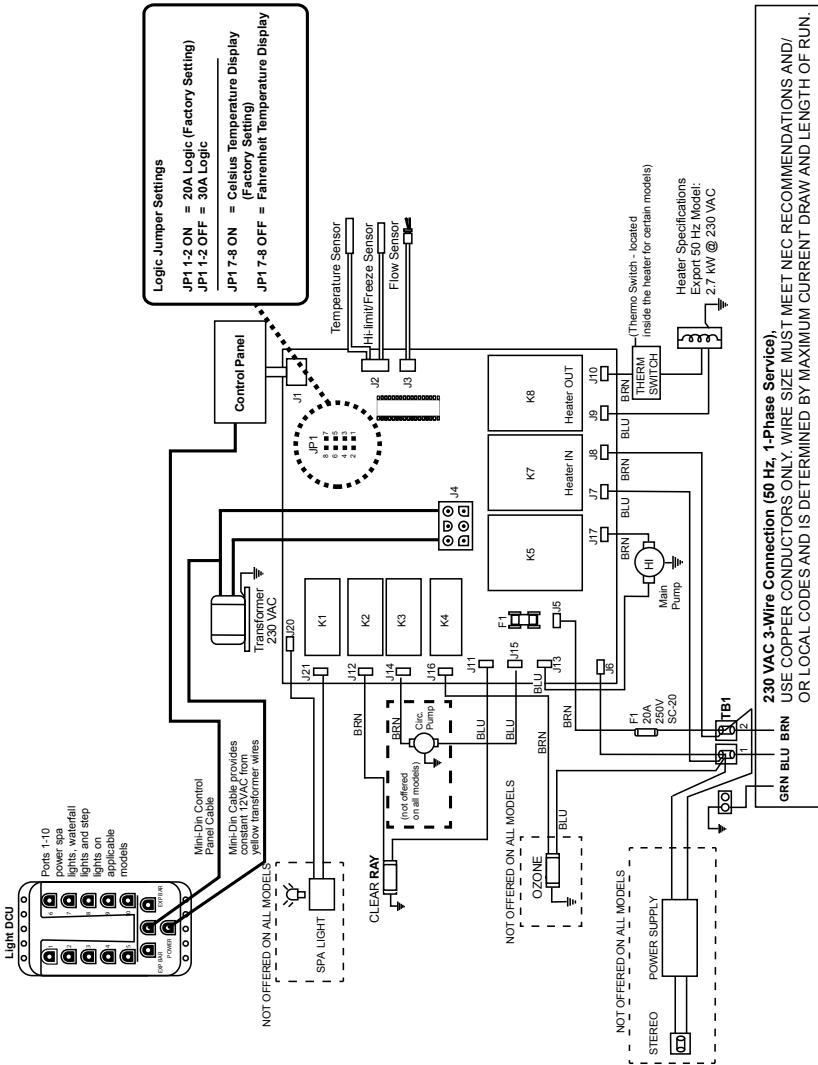


1. Remove and discard the factory installed GFCI Cord.
2. Move RED* wire from TB1 position #1 to TB1 position #3 as shown.
3. Permanently connect to the power supply. Use copper conductors ONLY. Wire size must be appropriate per NEC and/or local codes.
4. If hot tub is to be operated on 30A service, make sure the jumper provided at location JP1 #1 & 2 on the circuit board is installed.
4. If hot tub is to be operated on 40A service, remove the jumper JP1 #1 & 2 on the circuit board.



16.4 Export J-315 and J-325 Models (50 Hz)

This wiring diagram is used for all Export 230 VAC 50 Hz spa models.

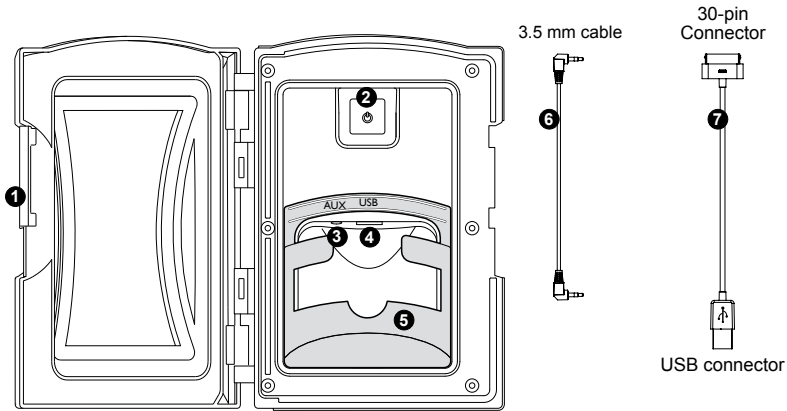


⚠ DANGER
RISK OF SHOCK OR ELECTROCUTION!

Turn power off before servicing. This task should only be performed by a qualified technician.

17.0 Optional BLUEWAVE® Spa Stereo System

To start enjoying your new stereo receiver, please read the following operation instructions in their entirety.



1. **Media Locker Handle**
Slide the handle to lock and unlock the protective door.
2. **Power Button**
Press power button once to turn “ON” stereo system. Press a second time to place the stereo in “Standby” mode and the red light will remain illuminated.
3. **Auxiliary Input Jack Connector**
Allows you to connect an auxiliary device by using a 3.5 mm cable.
4. **Universal Serial Bus (USB) Device Connector**
Allows you to connect your device via a USB port and a USB cable compatible with your device.
5. **Auxiliary Device Holding Base**
The removable base securely holds the Auxiliary device, such as an iPod®/MP3/iPhone®, in place. It can be removed for larger devices.
6. **3.5 mm Cable (purchased separately)**
Use this cable to connect your Auxiliary or MP3 device to the stereo via the “AUX” connection.
7. **Apple 30-pin to USB Cable (purchased separately)**
Use this cable to connect your compatible iPod, iPhone or MP3 device to the stereo via the “USB” connection.



WARNING: RISK OF ELECTRICAL SHOCK HAZARD EXISTS AND EQUIPMENT DAMAGE!

Never install or remove electrical devices (e.g. Apple device/MP3/USB/AUX/Bluetooth) while hands are wet or while sitting partially or fully immersed in the spa!

CAUTION: Never leave electrical devices in the Media Locker when spa is not in use to prevent damage from outdoor elements! Never spray Media Locker with a pressurized water hose for any reason! Damage to the device or spa stereo system caused by water intrusion is not covered under the manufacturer's warranty! Damage to Media Locker port or electrical devices due to excessive force or improper alignment during installation or removal from Media Locker is not covered under warranty.

17.1 Pairing the Remote and Stereo

In order for the remote to operate the stereo, you need to pair them using the following method:

1. Make sure the stereo unit is in "Standby" mode. LED power light will be red, Figure A.
2. Press any button on the remote to turn it ON. The remote LCD display will read "No Link."
3. Press and hold the "Mode" button on the remote (Figure B). At the same time, press and hold the power button on the stereo for 2 seconds (Figure A).
4. The remote LCD display will read "Welcome," "Load" and "Radio" if the pairing sequence was successful.

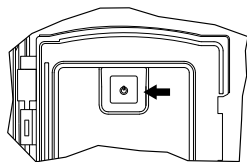


Figure A

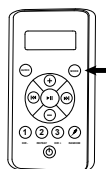


Figure B

17.2 Audio Settings

The Audio button, Figure C, provides access to many of the stereo's settings. By continually pressing the Audio button you can scroll and adjust the following functions: BAS-TRE-BAL-FAD-DSP-AREA-LOUD-DX-STEREO (respectively).

Note: You can adjust the settings by pressing the Audio button, making your adjustments and pressing the Audio button to go to the next feature. If you exit the setting menus continually press the Audio button until you reach the setting you would like to adjust.

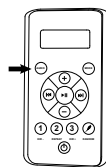


Figure C

1. Bass Setting: Press the Audio button once to access the bass setting. The LCD display will change to "BAS 0," Figure D. Press the Up button to adjust the setting to a maximum of +5. Press the Down button to adjust the setting down to -5.

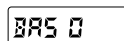


Figure D

Note: The default setting is "0." This feature is disabled when a "Digital Sound Processor" (DSP) setting is active such as "Rock," "Classic," or "Pop."

2. **Treble Setting:** Press the Audio button 2 times to access the treble setting. The LCD display will change to "TRE 0," Figure E. Press the Up button to adjust the setting to a maximum of +5. Press the Down button to adjust the setting down to -5.

Figure E

Note: The default setting is "0." This feature is disabled when a "Digital Sound Processor" (DSP) setting is active such as "Rock," "Classic," or "Pop."

3. **Balance Setting:** Press the Audio button 3 times to access the balance setting. The LCD display will change to "BAL L=R," Figure F. Press the Up button to adjust the setting to a maximum of 10R (only the right side speakers will have volume). Press the Down button to adjust the setting down to 10L (only the left side speakers will have volume).

Figure F

4. **Fade Setting:** Press the Audio button 4 times to access the fade setting. The LCD display will change to "FAD F=R," Figure G. Press the Up button to adjust the setting to a maximum of 10F (only the front speakers will have volume). Press the Down button to adjust the setting down to 10R (only the rear speakers will have volume).

Figure G

5. **Digital Sound Processor (DSP) Setting:** Press the Audio button 5 times to access the DSP setting. The LCD display will change to "DSP OFF," Figure H. Press the Up button to select one of the preset settings such as Rock, Classic or Pop. If a preset setting is select a small icon will appear on the LCD display, Figure I.

Figure H

Figure I

6. **Area Setting:** Press the Audio button 6 times to access the Area setting. The LCD display will change to "AREA USA," Figure J. Press the Up button to select either USA or EUR setting.

Figure J

7. **Loud Setting:** Press the Audio button 7 times to access the Loud setting. The LCD display will change to "LOUD OFF," Figure K. Press the Up button to select either OFF or ON.

Figure K

8. **Distant Setting:** Press the Audio button 8 times to access the Distant setting. The LCD display will change to "DX," Figure L. Press the Up button to select either Distant (DX) or Local for station frequency. The "LOCAL" setting allows for better FM reception when a local station is too strong. Leave the setting to "DX" if this condition does not exist.

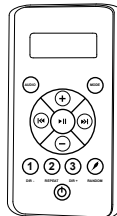
Figure L

9. **Stereo Setting:** Press the Audio button 9 times to access the Stereo setting. The LCD display will change to "STEREO," Figure M. Press the Up button to select either Stereo or Mono.

Figure M

17.3 Wireless Remote Control Functions

A wireless radio frequency (RF) remote control is supplied on all spas with the optional audio system. This remote provides control of the radio and over some media device functions.



A. External Media Device Playback

The supplied remote control provides no control over external Auxiliary player operation except for volume control and source selection. The Auxiliary player performs all external Auxiliary playback operations.

Button	Operation
	Power Button: Press once to turn remote "ON" (remote LCD display will read "No Link"; Press a second time to turn stereo "ON" (remote LCD display will read "Welcome"); Press a third time to place the stereo in "Standby" mode.
	Audio Button: Allows access to most of the stereo sound functions. Press continuously to scroll through the following settings (if applicable): Bas-Tre-Bal-Fad-DSP-Area-Loud-DX-Stereo.
	Mode Button: Press continuously to switch between "RADIO," "USB" and "AUX IN" modes. "BT AUDIO" appears when a Bluetooth device is paired with the stereo.
	Volume Up Button: Used to increase volume between 0 to 30.
	Volume Down Button: Used to decrease volume between 30 to 0.


Button	Device Mode (USB)	Radio Mode
	Play/Pause Button: Press to pause track, press again to resume playing	Mute Button: Press to mute sound, press again to reactivate sound
	Track Down Button: Press to rewind tracks.	Seek Down Button: Seeks down for stations.
	Track Up Button: Press to move forward tracks.	Seek Forward Button: Seeks forward for stations.
	Press the button to change music folders.	Preset 1: Press to access a preset station.
	Apple Device: Press once to repeat song. Press again to repeat entire album. Press again to turn off. USB Mode: Press once to turn on. Press again to turn off.	Preset 2: Press to access a preset station.
	Press the buttons to change music folders.	Preset 3: Press to access a preset station.
	Press to play songs in a random order.	Not used

17.4 Electronic Device Connections and Functions

IMPORTANT:

- If stereo unit is “ON” (blue light is illuminated on the stereo power button) then press the power button on the remote once.
- If stereo unit is in “Standby” (red light is illuminated on the stereo power button) then press the power button on the remote once to activate the remote (remote LCD display will read “NO LINK”). Press the button again to activate the stereo unit (remote LCD display will read “WELCOME”).

A. Operating the Radio:

1. Turn power “ON” to the stereo unit. Press the power button on the remote. 
2. The LCD screen on the remote will display the following: “Welcome,” “Load,” “Radio” and the station number, Figure A. Figure A
3. You can use the seek button to search for frequencies.
4. You can save up to 3 stations as presets. Follow the steps below to set a station:
 - a. Find a station you want to save.
 - b. Press and hold one of the three preset buttons. The station preset number (1, 2 or 3) on the display will quickly flash to confirm the setting. To set the additional two stations, conduct this step again.

B. Connecting Your Apple Device and MP3 Player Using the USB:

1. Locate the USB port in the stereo locker (Figure B).
2. Use a 30-pin cable for compatible devices (Figure C) or a cable provided with your device.
3. Connect the USB end of the cable into the USB connection on stereo.
4. Connect the 30-pin end of the cable to the Apple device/MP3 Player (purchased separately), Figure D.
5. After connecting the cable to both devices, set the player into the rubber holding base, Figure E.

Note: This also charges most compatible Apple devices when connected.

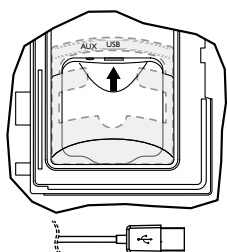


Figure B

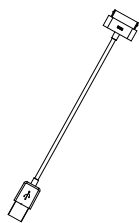


Figure C
(purchased separately)

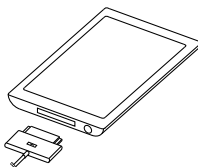


Figure D
(device purchased separately)

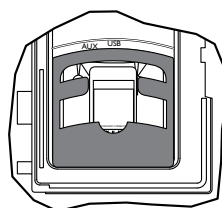


Figure E



CAUTION: RISK OF ELECTRICAL SHOCK OR EQUIPMENT DAMAGE!

Never install, remove or operate any electrical device (e.g. Apple device/MP3/USB/AUX/Bluetooth) while hands are wet or while sitting partially or fully immersed in the spa!

Note: The DRM (Digital Rights Management) Files cannot be played on this deck. Personal files (MP3, WMA, iTunes or AAC) can be played as long as they are not DRM encrypted.

C. Operating USB/MP3/Apple device

1. Turn power "ON" to the stereo unit. Turn power "ON" to the remote.
2. The LCD screen on the remote will display the following: "Welcome," "USB," "Load," "Apple" (final display will vary depending on the device connected). All functions are performed through the remote.
3. While the music is playing the remote screen will display and continually scroll through the following: Artist, Album, Song and Track information.
4. For operational functions refer to the "External Media Device Playback" section.

D. Operating the USB drive:

1. Plug in your USB device into the "USB" connection on the stereo, Figure A.
2. Turn power "ON" to the stereo unit and the stereo remote.
3. The LCD screen on the remote will display the following: "Welcome," "USB," "Load," "TOL XX" (final display will vary depending on the whether the USB holds folders or files). All functions are performed through the remote.
4. While the music is playing the remote screen will display and continually scroll through the following: Title, Song, Artist, Album, Dir, Music and Track information.
5. For operational functions refer to the "External Media Device Playback" section.

E. Connecting Your Auxiliary Player Using the 3.5 mm Cable:

1. Plug one end of the cable to "Aux" connection on the stereo, Figure F.
2. Plug the other end of the cable into the phone jack connection on the Apple device/MP3 Player.
3. Press the Mode button on the remote to "AUX IN."
4. All playback operations are conducted via the Auxiliary Player. The stereo remote functions do not work on the external Auxiliary Player (except volume control).

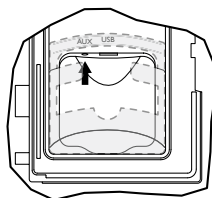


Figure F

F. Connecting Your Bluetooth Device:

1. Turn power "ON" to the stereo unit.
2. From your Bluetooth device, make sure the Bluetooth setting is "ON."
3. Follow the pairing instructions for your Bluetooth device and connect to the "BLUEWAVE" device that appears on your screen.
4. If asked for a password, enter the code "0000."
5. The remote LCD screen will display, "BT AUDIO" if the process was successful.

G. Operating Your Bluetooth Device:

1. Press the seek up or down buttons to scroll through the tracks (on the remote).
2. Press the volume up or down buttons to adjust volume level between 0 to 30 (on the remote).
3. Any other playback operations are conducted via the Bluetooth device.

**CAUTION: RISK OF ELECTRICAL SHOCK OR EQUIPMENT DAMAGE!**

Never install, remove or operate any electrical device (e.g. Apple device/MP3/USB/AUX/Bluetooth) while hands are wet or while sitting partially or fully immersed in the spa!

17.5 Wireless Remote Battery Replacement Procedure

1. Turn the remote unit over and locate the battery door (Figure A).

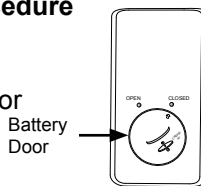


Fig. A

2. Rotate the battery door, with a coin, counterclockwise to the Open position (Figure B). When the door is unlocked it will pop up slightly.

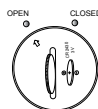


Fig. B

3. Remove battery door by lifting the door upward (Figure C).

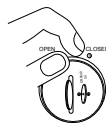


Fig. C

4. Replace battery using CR2430 or equivalent (Figure D).

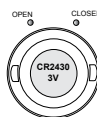


Fig. D

5. Reinstall the battery cover, using the coin rotate the door to the Close position (Figure E).

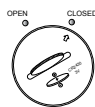


Fig. E

Note: Remote unit is water resistant not waterproof. Although it is designed for use while in the spa, it should never be left in the spa while the cover is on and spa is not in use. The remote should be stored in a dry location such as the stereo remote pouch (if applicable) located on the outside of the spa cover or within your home. Extreme weather can affect the remote control battery. In extreme hot or cold environments store the remote control indoors to prolong battery life.

17.6 BLUEWAVE® Spa Stereo System Specifications




Power supply 10.7-14.4V DC

Tuner

FM radio sensitivity 8uV

FM radio reception Stereo

17.7 Stereo Cautions

-  **“CAUTION** - Risk of Electric Shock. Do not leave compartment door open.”
-  **“CAUTION** - Risk of Electric Shock. Replace components only with identical components.”
- “Do not operate the audio/video controls while inside in the spa.”
-  **“WARNING** - Risk of Electrocution. Do not connect any auxiliary components (for example cables, additional speakers, headphones, additional audio/video components, etc.) to the system.”
- These units are not provided with an outdoor antennae; when provided, it should be installed in accordance with Article 810 of the National Electrical Code, ANSI/NFPA 70.
- Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified service personnel.
- When the power supply connections or power supply cord(s) are damaged; if water is entering the audio/video compartment or any electrical equipment compartment area; if the protective shields or barriers are showing signs of deterioration; or if there are signs of other potential damage to the unit, turn off the unit and refer servicing to a qualified service personnel.
- This unit should be subjected to periodic routine maintenance (for example, once every 3 months) to make sure that the unit is operating properly.



