J-400™ Collection

Owner's Manual: Export

6530-274EM Rev A

J-495™

J-485™

J-475™

J-445™

J-435™

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 suppress any operational concerns you may have during the first 24 hours of ownership! Also listed below are important maintenance recommendations you should observe on a regular basis to protect your new investment.

Maintain Healthy Spa Water

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

	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 Active Oxygen® system is factory installed. If the ClearRay Active Oxygen® system is altered or is not operating efficiently then follow the "without ClearRay®" water chemistry parameters as defined by the Pool & Hot Tub Alliance. ClearRay® Unit requires an annual bulb replacement to operate properly.

⚠ **TO DECREASE RISK OF INFECTION OR DISEASE!** Always maintain your spa filter as outlined below to ensure healthy spa water. Refer to pages 58-61 (Sec. 13.0) 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 the skimming filter cartridge every 3 months, or as necessary. See pages 58-61 (Sec. 13.0) for detailed filter cartridge cleaning 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 pages 66-68 (Sec. 14.0) for additional information.

**** Spa operations and functions subject to change without notice ****

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1.0 Important Spa Owner Information

Your Jacuzzi® spa is constructed to the highest standards and is capable of providing many years of trouble-free use. However, because heat retentive materials are utilized to insulate the spa for efficient operation, an uncovered spa surface and wall fittings directly exposed to sunlight and high temperatures for an extended period are subject to permanent damage or discoloration. 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 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 the Section 4.0 titled, "Choosing a Location" (page 9).

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

2.0 FCC Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.)

2.1 Industry Canada (IC) Information

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website: www.hc-sc.gc.ca.

3.0 Important Safety Instructions for all Spa Owners

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY!

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

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

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

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

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

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

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

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

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

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

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

- Water temperature in excess of 40°C (104°F) may be injurious to your health.
- Refer to Section 3.2 Hyperthermia for specific causes and symptoms of this condition.
- The water in the spa should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 40°C (104°F) are considered safe for a healthy adult.
- Lower water temperatures are recommended for young children (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 40°C (104°F).
- 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 +/- 2°C (5°F).

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 38°C (100°F).
- 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 (over-heating). Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could possibly result in drowning or serious injury.
- Never use a spa immediately following strenuous exercise. Enter and exit the spa slowly. Wet surfaces can be slippery.

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

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

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

10. **CAUTION: TO DECREASE RISK OF PRODUCT DAMAGE.**
- Maintain water chemistry in accordance with manufacturer's instructions.
- Proper chemical maintenance of spa water is necessary to maintain safe water and prevent possible damage to spa components.

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

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

Hot Tub Safety

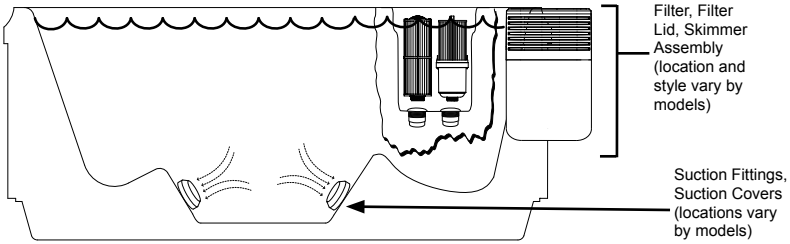
To ensure you have a safe and enjoyable hot tub experience, learn all you can about hot tub safety and emergency procedures.

The Pool & Hot Tub Alliance has a great source of safety literature.
- Go to http://phta.org
- Conduct your own search on the internet
- Write to the following address:
  Pool & Hot Tub Alliance
  2111 Eisenhower Avenue
  Alexandria VA 22314
  703.838.0083

3.1 Entrapment Risk

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

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



Note: Suction covers must be replaced every 7 years.

1. **DANGER: RISK OF SEVERE INJURY OR DROWNING!**
Hair entrapment: May occur if hair is entangled, knotted or snagged in a drain suction or skimmer assembly. This has been reported in persons who when submerge themselves underwater, allowing hair to come close and/or within the reach of the suction fittings, suction covers or skimmer assembly.

- Keep hair away from suction fittings, suction covers, filter, filter lid or skimmer assembly.
- Children are at risk for hair entrapment if swimming under water.
- Never allow children to play or get near the suction fittings, suction covers, filter, filter lid or skimmer assembly.

2. **DANGER: RISK OF SEVERE INJURY OR DROWNING!**
Limb entrapment: May occur when a limb becomes entrapped, inserted or sucked into a suction or outlet opening.

- Always keep suction fittings, suction covers, filter, filter lid or skimmer assembly in place when operating to avoid limb entrapment.
- Never allow children to play or get near the suction fittings, suction covers, filter, filter lid or skimmer assembly.

3. **DANGER: RISK OF SEVERE INJURY OR DROWNING! Body entrapment**:

- Do not insert fingers in massage jet nozzle.

4. ⚠ **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.

5. ⚠ **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.

6. ⚠ **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 37°C (98.6°F). 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 safety instructions

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

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

3.4 PRECAUTIONS-Important Chemical Safety

Do not use this device with bromide products.

3.5 PRECAUTIONS FOR USE OF PRODUCTS CONTAINING SODIUM BROMIDE

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

4.0 Choosing a Location

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

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

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

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

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: <u>Consult a Structural Engineer when considering a foundation that will adequately support the spa the entire time it is in place.</u>** 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: <u>It is extremely important to have in place measures to sufficiently handle excessive water spillage.</u>** 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 the ProTouch™ 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 inside the equipment door (page 14) to permit connection of a bonding wire between this point and any ground metal equipment, metal water pipe or conduit within 5 feet (1.5m) of the spa, or copper clad grounding rod buried within 5 feet (1.5m) of the spa. Bonding wire must be at least No. 8 AWG (8.4 mm²) solid copper wire. This is a most important safety assurance feature. Before installing your spa, check with your local building department to ensure installation conforms to local building codes.

6.0 Electrical Installation Instructions

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

1. ⚠ **DANGER: TO DECREASE THE RISK OF SHOCK, PRODUCT DAMAGE OR ELECTRICAL FIRE.**
   This spa must be permanently connected (hard-wired) to the power supply. **No plug-in connections or extension cords are to be used in conjunction with the operation of this spa.** Supplying power to the spa, which is not in accordance with these instructions, will void both the independent testing agency listing and the manufacturer's warranty.
2. The power supplied to this spa must be a dedicated circuit with no other appliances or lights sharing the power provided by the circuit.
3. To determine the current, voltage and wire size required, refer to Section 7.0 "Power Requirements" (page 16) for your specific spa model.

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

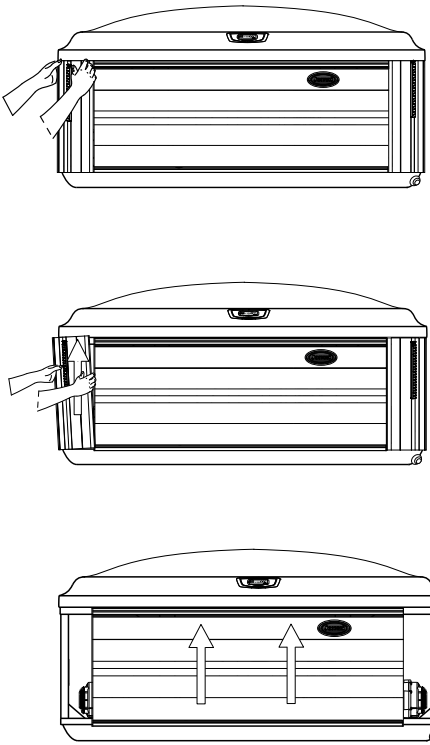
4. The electrical supply for this product must include a suitably rated isolating switch and circuit breaker to comply with local electrical regulations. This RCD/GFCI circuit breaker must be installed at the power supply in the house electrical box.
5. For Australia/New Zealand, the spa should be supplied through a residual current device (RCD) with a rated tripping current not exceeding 30mA (IEC 60335-2-60).
6. The appliance is not intended for use at altitudes exceeding 2 000 m.
7. To gain access to the spa's power terminal block, Figure A:

- Grab one of the corner panels, from the top, where it touches the shell. Then gently pull the panel forward to unsnap it from the holding clips. Tilt the panel forward and then lift up to remove. Place the panel in a safe location to prevent from damaging it. Repeat the steps to remove the other corner panel.
  Note: The corner exterior lights on the panels are connected to the light wires. Take care when removing the corner panels to avoid damaging the wires.
- Grab the bottom of the front panel and slightly lift to release it from the top mount. Tilt the panel and pull down to remove. Place the panel in a safe location to prevent from damaging it.
- The Jacuzzi indicator light is installed on the front panel. Take care when removing the panel to avoid damaging the wires or light. Remove the wing nuts from the indicator light to remove the light housing. Once the light housing is removed, reinstall the wing nuts or place them in a safe location.

8. Select the power supply entrance you want to use, Figure B. Make sure to install a 3/4" electrical fitting and conduit through the large opening provided in the bottom of the control box so you can feed the cable through to the terminal block.
9. Connect wires to the terminal block (Figure D). ALL WIRES MUST BE SECURELY CONNECTED or equipment damage could result!

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

Figure A



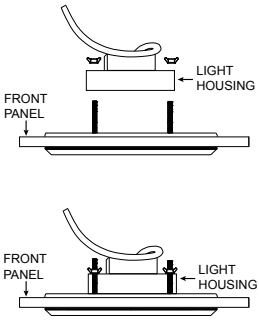
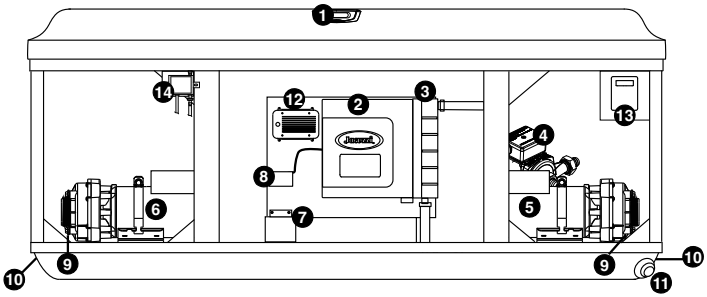


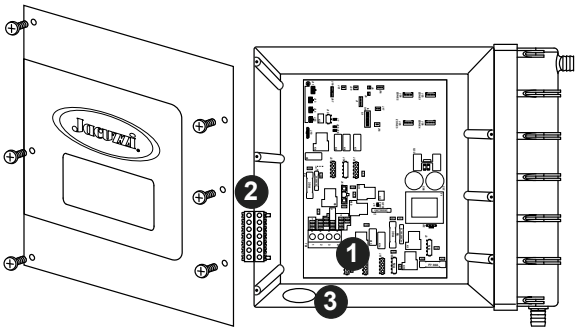
Figure B
Equipment Area



Note: Equipment location and quantity (such as pumps, ClearRay system, stereo, drain, heater etc.) varies by model.

1. ProTouch™ Control Panel
2. ProTouch™ Control Box
3. Heater
4. Filter/Circulation Pump
5. Jets Pump
6. Jets Pump
7. ClearRay®
8. ClearRay® Ballast
9. Pump Drain Plugs(s)
10. Power Supply Entrance(s)
11. Drain
12. BLUEWAVE® 2.0 Wireless Stereo (Optional)
13. SmartTub System (optional)
14. ClearRay® PRO$_3$TECT

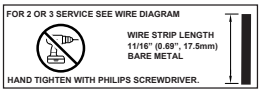
Figure C
Control Box Connection

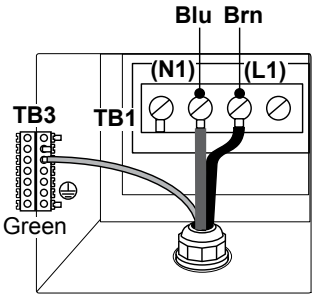


1. Main Terminal Block
2. Bonding Lug/Grounding Terminal
3. Power wires Entrance (Electrical fitting and conduit must be installed)

Figure D
(Terminal Block 230V/50z Wire Connection)
[refer to page 77 for wiring diagram]

***IMPORTANT NOTE:** Wire connections on controller board must be changed depending on the number of breakers being used, pages 77 and 78.



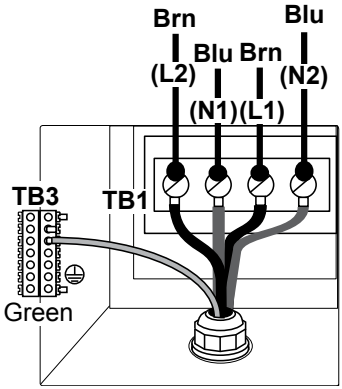


Factory Default

Service 1
Brn (L1)
Blu (N1)

BREAKER TERMINAL CONNECTIONS

L1 = All Components

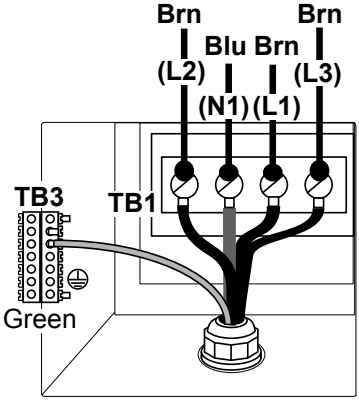


Service 1
Blu (N1)
Brn (L1)

Service 2
Brn (L2)
Blu (N2)

BREAKER TERMINAL CONNECTIONS

L1 = Heater and transformer
L2 = All other components



Service 1
Blu (N1)
Brn (L1)

Service 2
Brn (L2)

Service 3
Brn (L3)

BREAKER TERMINAL CONNECTIONS

L1 = Heater and transformer
L2 = Pump 1 and other components
L3 = Pump 2, Stereo, ClearRay, and Pump 3 (J-495)

7.0 Power Requirements

Jacuzzi® spas are designed to provide optimum performance and flexibility of use when connected to their maximum electrical service. They are configured at the factory. The electrical wiring of this spa must meet the requirements of any applicable country or local codes.

The most common electrical connections are listed below:

Export 50 Hz (1 Breaker Connection)		
	Single Breaker Service 1 (including Heater)*	Single Breaker Service 1 (including Heater)**
Voltage:	230 VAC	230 VAC
Max. Current Draw:		
2-Pump System	17A	29A
3-Pump System	29A	37A
Wattage:		
2-Pump System	3.9kW	6.7kW
3-Pump System	6.7kW	8.3kW
Frequency:	50 Hz	50 Hz
Number of Wires:	3	3

Single breaker configuration is the factory default.

* In this configuration, the heater **will not operate** while any jets pump is running. The service 1 breaker will include connection for all components.

** In this configuration, the heater **will operate** while one or two jets pumps are running. The service 1 breaker will include connection for all components.

Export 50 Hz (Two and Three Breaker Connections)		
	Dual Service Breakers Service 1/Service 2 Breaker***	Three Service Breakers Service 1 /Service 2/ Service 3 Breaker****
Voltage:	230 VAC	230 VAC
Max. Current Draw:		
2-Pump System	13A/17A	13A/9A/9A
3-Pump System	13A/24A	13A/8A/16A
Wattage:		
2-Pump System	3.0KW/3.9kW	3.0kW/2.1kW/2.1kW
3-Pump System	3.0kW/5.5kW	3.0kW/2.1kW/3.7kW
Frequency:	50 Hz	50 Hz
Number of Wires:	5	5

*** In this configuration, the heater **will operate** while two jets pumps are running. The service 1 breaker will include connections for the heater and transformer. The service 2 breaker is for all other components.

**** In this configuration, the heater **will operate** while all jets pumps are running. The service 1 breaker will include connections for the heater and transformer. Service 2 breaker is for pump 1 and other components. Service 3 breaker is for pump 2, ClearRay, Stereo, and Pump 3 (J-495).

8.0 Spa Fill Up Procedure

For best results, read each step in its entirety before proceeding with this procedure. Make sure that all drains and drain plugs are closed, page 14.

1. **Prepare The Spa For Filling**

- Clear all debris from the spa. (Although the spa shell has been polished at the factory, you may want to treat it with a specially formulated spa cleaner.) Consult your authorized Jacuzzi dealer for additional information prior to filling spa.
- If using the primary filter fitting to fill, remove filter cover, then remove filter cartridge as outlined in Section 12.1 (page 58).

IMPORTANT: In most cases, filling the spa by placing the hose in the footwell will not create an airlock, page 75. If you experience an airlock we recommend filling by placing the end of your garden hose into the primary filter fitting inlet. This wall fitting is the one closest to the fron tof the spa, page 58.

2. **Fill Spa**

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

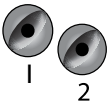
CAUTION: TO DECREASE BUILD UP ON COMPONENTS AND MINIMIZE ACRYLIC DAMAGE. Never fill with water from a water softener. If your water is extremely "hard," it is preferable to fill half-way with hard water and the rest of the way with softened water. Water that is too soft can be corrosive to metal components.

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

IMPORTANT: Always fill your spa through both filter fittings after draining. Failure to do so may cause air to be trapped in the pumps, preventing the pumps from circulating water. Remove the hose and replace both filter cartridges as illustrated in Section 13.1 (page 58).

3. **Turn On Power**
   Turn on power to spa at the home's circuit breaker. The heater and filter/circulation pump will automatically activate. Normally, at the initial fill, the water tends to be cold. Refer to page 72 for additional information.

4. **Activate Jets Pumps**
   Turn on jet pumps when adding chemicals in step 5 (see Section 11.2, page 39 to activate jets).



5. **Add Start-Up Chemicals**
   Add the spa water chemicals as recommended by your authorized Jacuzzi spa dealer. See Section titled "Water Quality Maintenance" (page 66) for general guidance.

⚠ **WARNING: RISK OF POISONING OR DEATH.**
Never leave chemicals opened and accessible to anyone. Use chemicals according to the vendor's 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.

7. **Set Spa To Heat**
   To warm spa water to a comfortable temperature, follow these steps:
- The display on the control panel displays the actual temperature of the spa water. Tap ⊕ or ⊖ to increase or decrease the water temperature in 0.5°C (1°F) increments.
- The heater will turn off 0.5°C (1°F) above set temperature and turn on 1°C (2°F) below set temperature.

Note: The temperature range for the spa is 18.33 to 40°C (65 to 104°F). To activate the **Extended Temperature feature** that allows the spa to reach 41°C (106°F), page 74.

Important Heater Details:
- The maximum temperature for which the spa can be set is 40°C (104°F) and the minimum is 18.33°C (65°F).
- Refer to section 7.0 for specific heater functions.
- 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 0.5°C (1°F) above the programmed "set temperature," then turns off. The heater will reactivate after the water cools to approximately 1°C (2°F) below the "set temperature."

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

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

Decontamination Procedure
Steps 9-15 below are only required when sanitizer levels are unstable after performing Spa Fill Up Procedures steps 1-6. Disregard steps 9-15 below if sanitizer levels remain stable after performing steps 1-6.
Note: The "Decontamination Procedure" should also be used after the spa has been "Winterized" (Sec. 13.8, page 64) or has been sitting without power for an extended period.

9. Add 2.5 ounces (71 g) of sodium dichlor for every 100 gallons (378 L) of water. Refer to the table for approximate water fill volume.

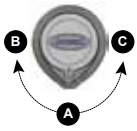
CAUTION: RISK OF PERSONAL INJURY OR SPA DAMAGE!
Never add chlorine tablets (trichlor) or acid to your hot tub for any reason! These chemicals may damage components within your hot tub, burn or irritate your skin, create a rash, and void the manufacturer warranty for your spa.

Water Fill Volume by Model

Model	Average Fill Volume*	Sodium Dichlor
J-495	2,120 L (560 Gal)	398 g
J-485	1,647 L (435 Gal)	309 g
J-475	1,666 L (440 Gal)	313 g
J-445	1,438 L (380 Gal)	270 g
J-435	1,363 L (360 Gal)	256 g

*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 spa jet pumps for one hour, open all air controls, and place all massage selector knob(s) in their center “combo” position.



Lighted control valve shown.

Note: You will need to activate the jet pumps every 20 minutes since these functions have an automatic 20 minute time-out 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 tub as outlined in Section 13.2 (page 61).

12. Refill spa with clean tap water from garden hose until water covers all jets but does not touch the bottom of the lowest headrest with all headrests in their lowest position (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 halfway with hard water and the rest of the way with softened water. Water that is too soft can be corrosive to metal components.

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

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

WARNING: RISK OF PERSONAL INJURY.

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

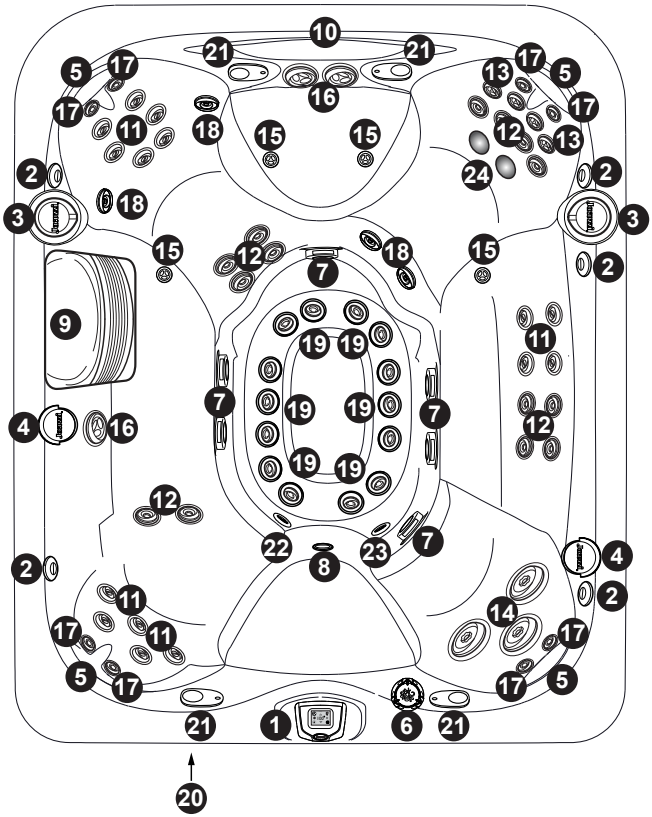
15. Establish a sanitizer reading no less than 1.0 ppm free chlorine or 2.0 ppm bromine, then allow the hot tub to set undisturbed for 8 hours. Retest water after 8 hours to determine if sanitizer levels are stable. If sanitizer levels are stable, your spa is ready for use. To ensure healthy water conditions, 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 until stable sanitizer readings are achieved.

IMPORTANT: If the ClearRay Active Oxygen® 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 Pool & Hot Tub Alliance.

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

9.0 Spa Features

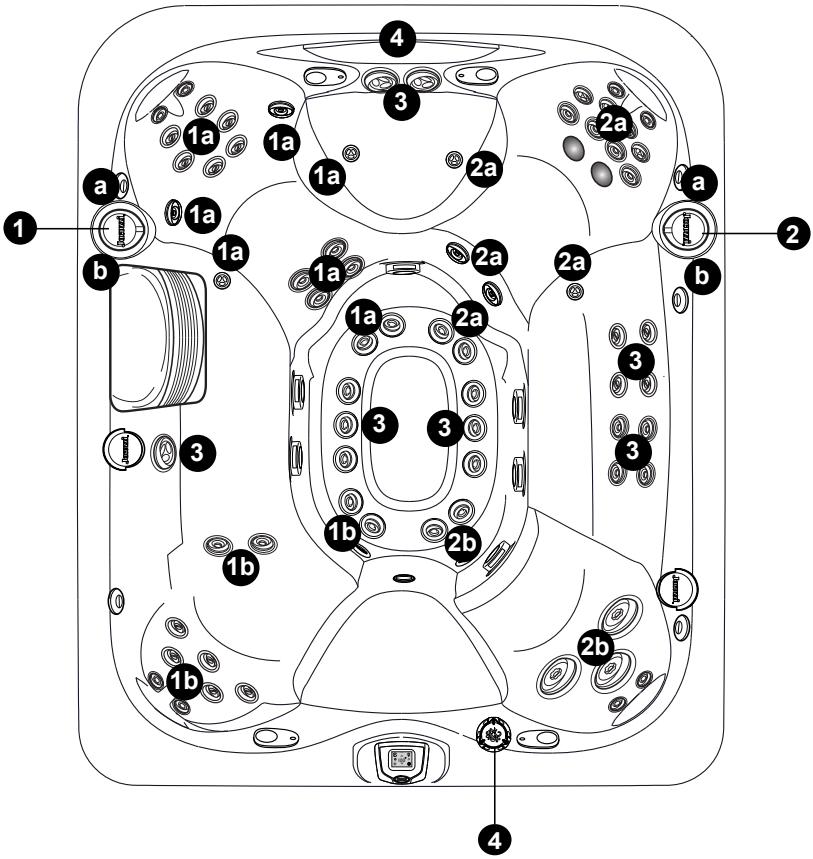
9.1 J-495™ Spa Features



1. ProTouch™ Control Panel
2. Air Control Valves (5)
3. Massage Selectors with lights (2)
4. Lighted Cup Holders (2)
5. Adjustable Pillows (4)
6. Waterfall Control Valve
7. Footwell Filter Suction Covers (6)
8. Underwater Light
9. Filter/Skimmer Grill
10. Waterfall
11. RX Jets (15)
12. FX Jets (14)
13. FX Rotational Jets (4)
14. MX2 Jets (3)
15. PX Jets (4)
16. FX Large Rotational Jets (3)
17. NX2 Jets (8)
18. FX Directional Jets (4)
19. FX Small Jets (14)
20. Optional BLUEWAVE® Audio System
21. Optional Audio System Speakers (4)
22. Waterfall Filtration Return
23. Gravity Drain/Heater Input/ ClearRay Return Fitting
24. IR Light Therapy (2)

Spa features subject to change without notice

9.2 J-495 Massage/Waterfall Selector Diagram



Massage Selectors (1-2)

- *Massage selector 1 diverts jets pump Nº 1 output between jets groups 1a-1b.*
- *Massage selector 2 diverts jets pump Nº 2 output between jets groups 2a-2b.*

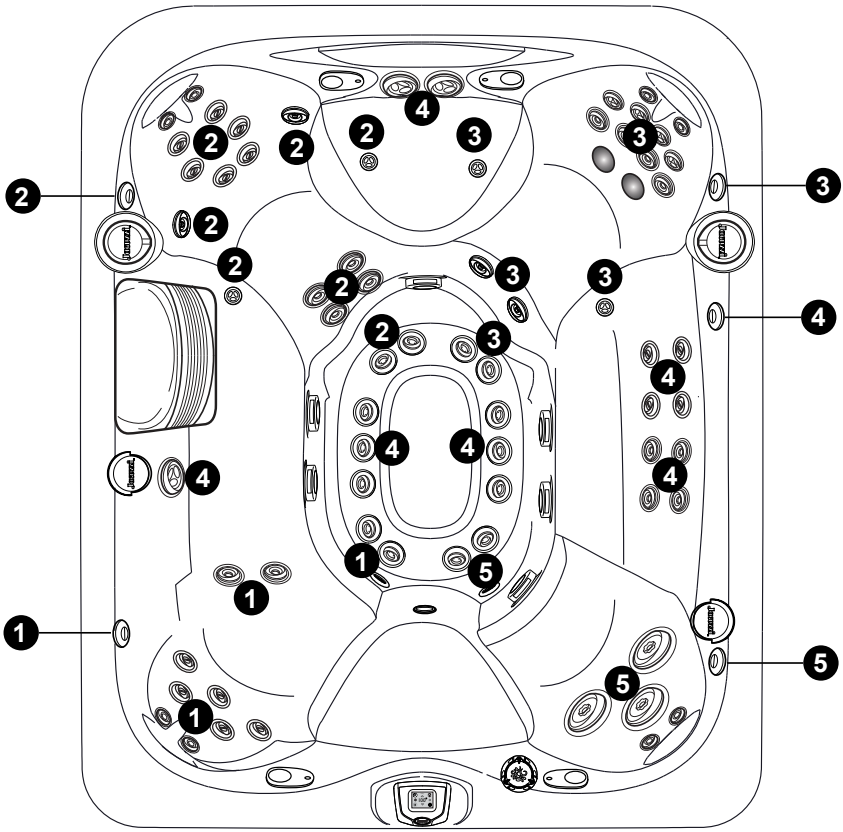
Jets Without Massage Selector Controls

- *Jets (3) are always on when jets pump Nº 3 is running.*

Waterfall Selector

- *Waterfall selector (4) controls circulation pump output to waterfall.*

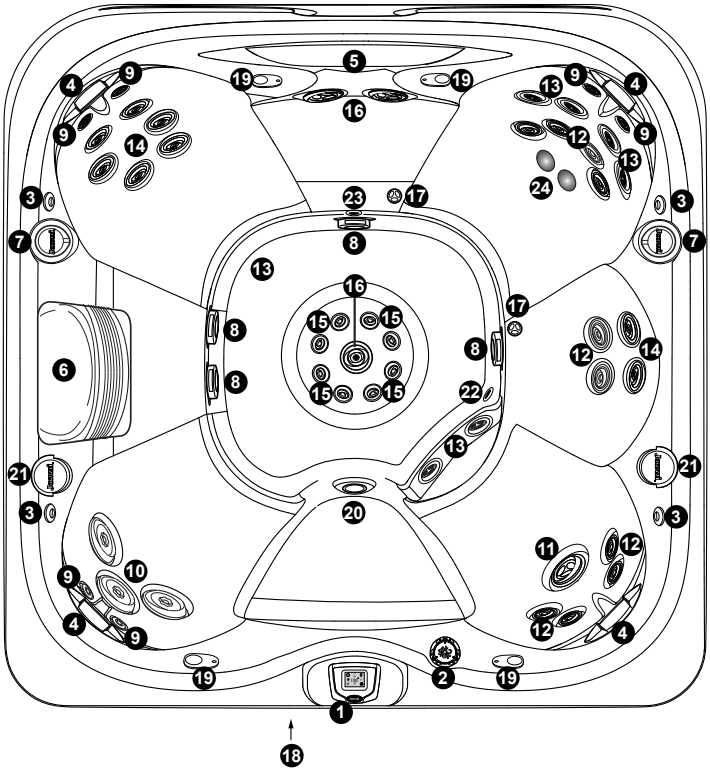
9.3 J-495 Air Controls Diagram



Air Controls Operation

- *Rotate air controls 1-5 to add air to designated jet groups.*

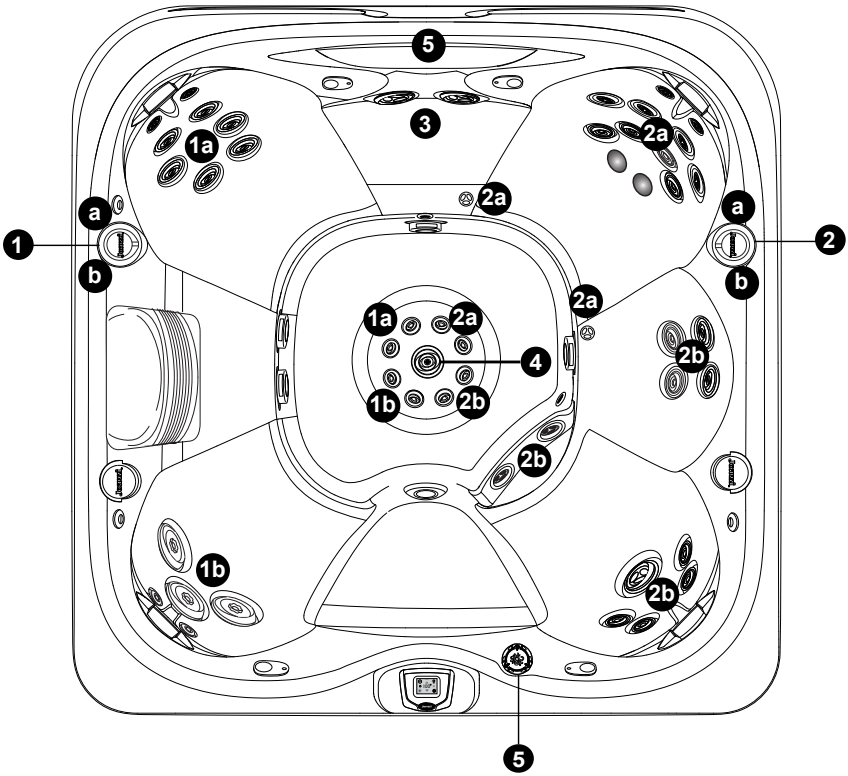
9.4 J-485™ Spa Features



1. ProTouch™ Control Panel
2. Waterfall Control Valve
3. Air Controls (4)
4. Adjustable Pillows (4)
5. Waterfall
6. Filter/Skimmer Grill
7. Massage Selectors with lights (2)
8. Footwell Filter Suction Covers (4)
9. NX2 Jets (6)
10. MX2 Jets (3)
11. FX Large Rotational Jets (1)
12. FX Jets (10)
13. FX Rotational Jets (6)
14. RX Jets (8)
15. FX Small Jets (8)
16. FX Large Jets (3)
17. PX Jets (2)
18. Optional BLUEWAVE® 2.0 Audio System
19. Optional Audio System Speakers (4)
20. Underwater Light
21. Cup Holders with lights (2)
22. Gravity Drain/Heater Input/ ClearRay Return Fitting
23. Waterfall Filtration Return
24. IR Light Therapy (2)

Spa features subject to change without notice

9.5 J-485 Massage/Waterfall Selector Diagram



Massage Selectors (1-2)

- *Massage selector 1 diverts jets pump Nº 1 output between jets groups 1a-1b.*
- *Massage selector 2 diverts jets pump Nº 2 output between jets groups 2a-2b.*

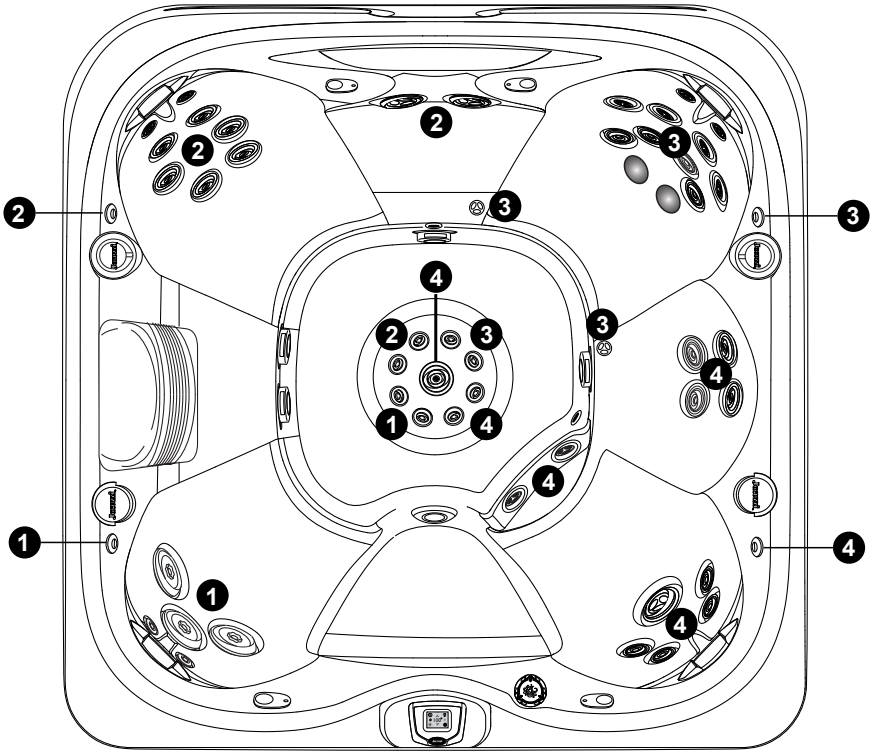
Continuously Powered Jets

- *Jets 3 are always on when jets pump Nº 1 is running.*
- *Jets 4 are always on when jets pump Nº 2 is running.*

Waterfall Selector

- *Waterfall selector (5) controls circulation pump output to waterfall.*

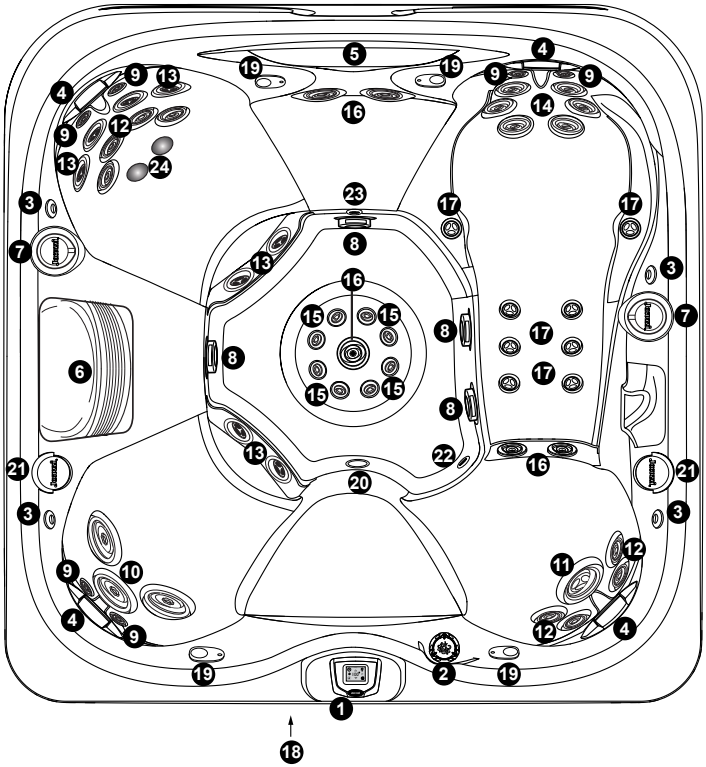
9.6 J-485 Air Controls Diagram



Air Controls Operation

- *Rotate air controls 1-4 to add air to designated jet groups.*

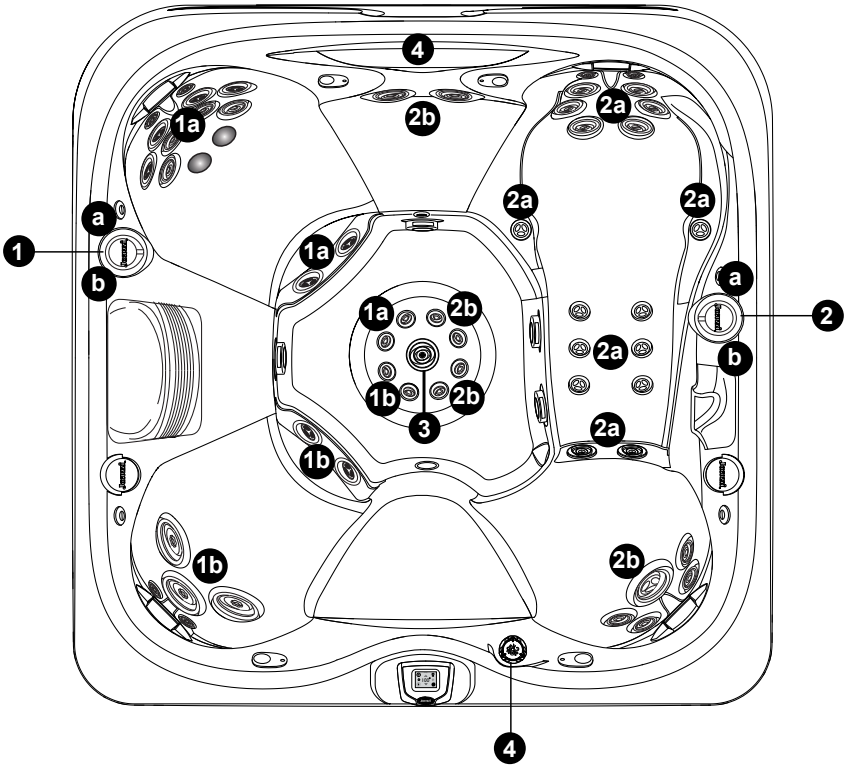
9.7 J-475™ Spa Features



1. ProTouch™ Control Panel
2. Waterfall Control Valve
3. Air Controls (4)
4. Adjustable Pillows (4)
5. Waterfall
6. Filter/Skimmer Grill
7. Massage Selectors with lights (2)
8. Footwell Filter Suction Covers (4)
9. NX2 Jets (6)
10. MX2 Jets (3)
11. FX Large Rotational Jets (1)
12. FX Jets (8)
13. FX Rotational Jets (8)
14. RX Jets (6)
15. FX Small Jets (8)
16. FX Large Jets (5)
17. PX Jets (8)
18. Optional BLUEWAVE® 2.0 Audio System
19. Optional Audio System Speakers (4)
20. Underwater Light
21. Cup Holders with lights (2)
22. Gravity Drain/Heater Input/ ClearRay Return Fitting
23. Waterfall Filtration Return
24. IR Light Therapy (2)

Spa features subject to change without notice

9.8 J-475 Massage/Waterfall Selector Diagram



Massage Selectors (1-2)

- *Massage selector 1 diverts jets pump Nº 1 output between jets groups 1a-1b.*
- *Massage selector 2 diverts jets pump Nº 2 output between jets groups 2a-2b.*

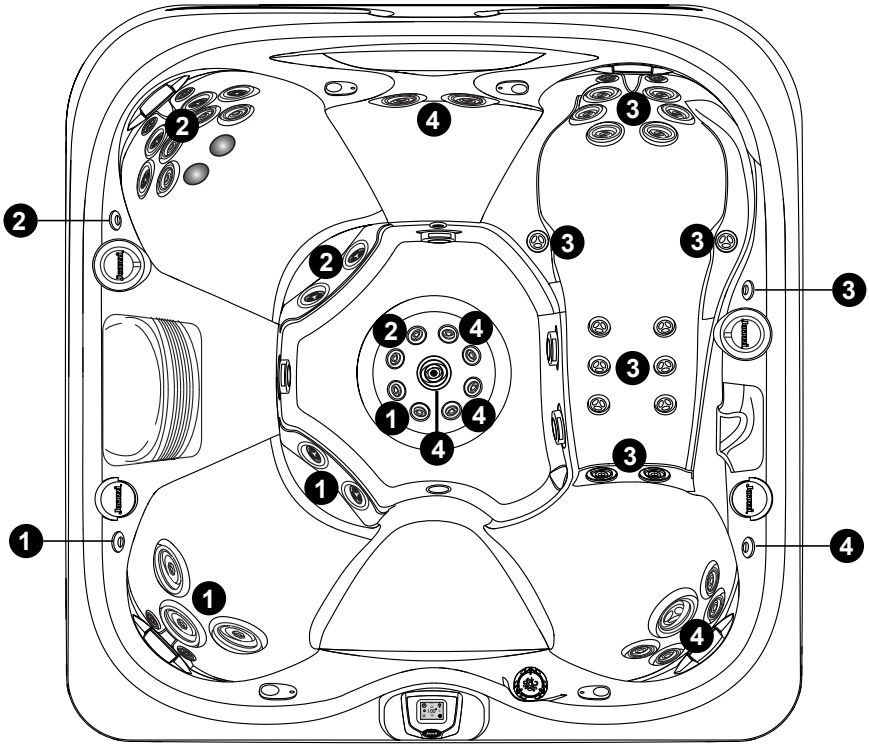
Continuously Powered Jets

- *Jets 3 are always on when jets pump Nº 2 is running.*

Waterfall Selector

- *Waterfall selector (4) controls circulation pump output to waterfall.*

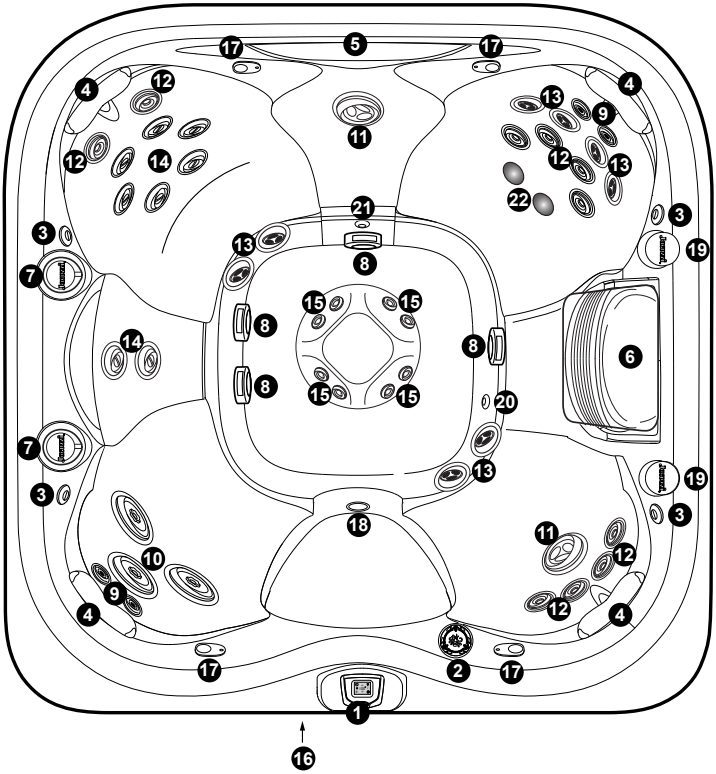
9.9 J-475 Air Controls Diagram



Air Controls Operation

- *Rotate air controls 1-4 to add air to designated jet groups.*

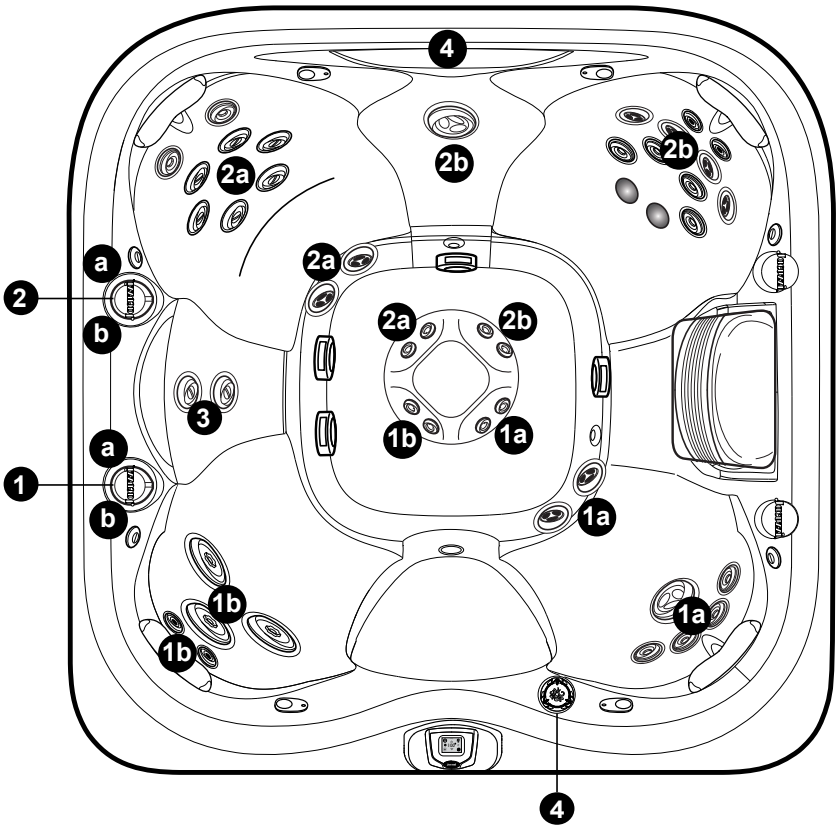
9.10 J-445™ Spa Features



1. ProTouch™ Control Panel
2. Waterfall Control Valve
3. Air Controls (4)
4. Adjustable Pillows (4)
5. Waterfall
6. Filter/Skimmer Grill
7. Massage Selectors with lights (2)
8. Footwell Filter Suction Covers (4)
9. NX2 Jets (4)
10. MX2 Jets (3)
11. FX Large Rotational Jets (2)
12. FX Jets (10)
13. FX Rotational Jets (8)
14. RX Jets (8)
15. FX Small Jets (8)
16. Optional BLUEWAVE® 2.0 Audio System
17. Optional Audio System Speakers (4)
18. Underwater Light
19. Cup Holders with lights (2)
20. Gravity Drain/Heater Input/ ClearRay Return Fitting
21. Waterfall Filtration Return
22. IR Light Therapy (2)

Spa features subject to change without notice

9.11 J-445 Massage/Waterfall Selector Diagram



Massage Selectors (1-2)

- *Massage selector 1 diverts jets pump Nº 2 output between jets groups 1a-1b.*
- *Massage selector 2 diverts jets pump Nº 1 output between jets groups 2a-2b.*

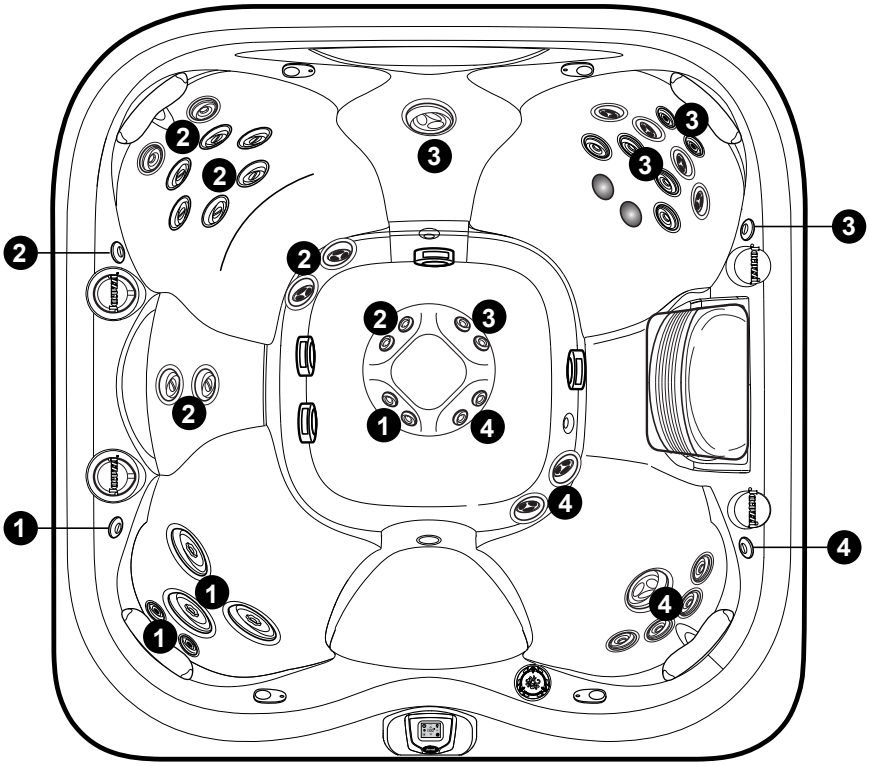
Continuously Powered Jets

- *Jets 3 are always on when jets pump Nº 1 is running.*

Waterfall Selector

- *Waterfall selector (4) controls circulation pump output to waterfall.*

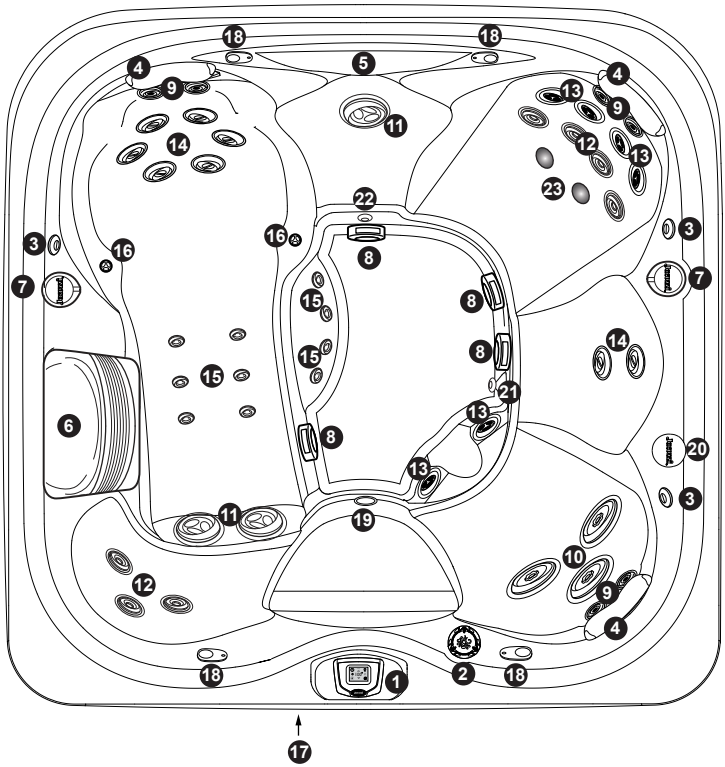
9.12 J-445 Air Controls Diagram



Air Controls Operation

- *Rotate air controls 1-4 to add air to designated jet groups.*

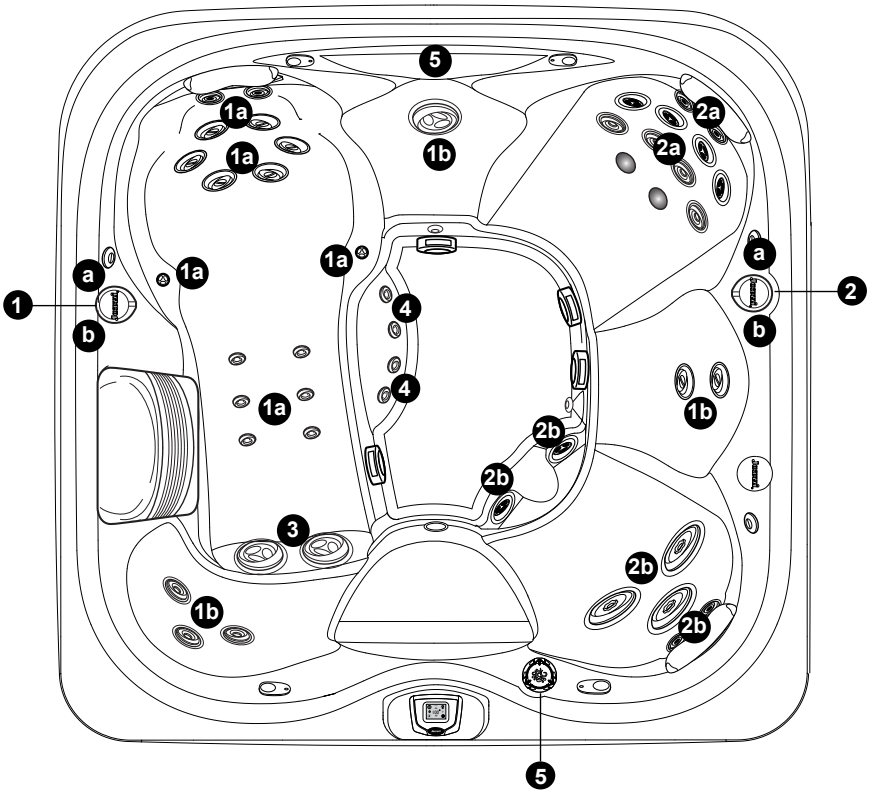
9.13 J-435™ Spa Features



1. ProTouch™ Control Panel
2. Waterfall Control Valve
3. Air Controls (3 ea.)
4. Adjustable Pillows (3 ea.)
5. Waterfall
6. Filter/Skimmer Grill
7. Massage Selectors with lights (2 ea.)
8. Footwell Filter Suction Covers (4 ea.)
9. NX2 Jets (6 ea.)
10. MX2 Jets (3 ea.)
11. FX Large Rotational Jets (3 ea.)
12. FX Jets (7 ea.)
13. FX Rotational Jets (6 ea.)
14. RX Jets (8 ea.)
15. FX Small Jets (10 ea.)
16. PX Jets (2 ea.)
17. Optional BLUEWAVE® 2.0 Audio System
18. Optional Audio System Speakers (4)
19. Underwater Light
20. Cup Holder with light
21. Gravity Drain/Heater Input/ ClearRay Return Fitting
22. Waterfall Filtration Return
23. IR Light Therapy (2)

Spa features subject to change without notice

9.14 J-435 Massage/Waterfall Selector Diagram



Massage Selectors (1-2)

- *Massage selector 1 diverts jets pump Nº 2 output between jets groups 1a-1b.*
- *Massage selector 2 diverts jets pump Nº 1 output between jets groups 2a-2b.*

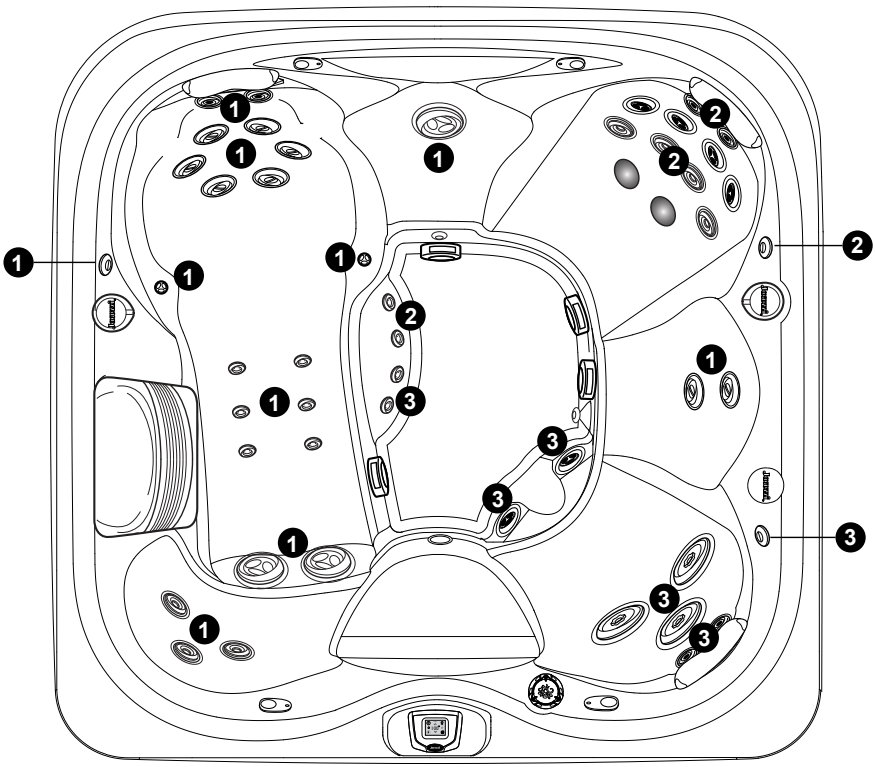
Continuously Powered Jets

- *Jets 3 are always on when jets pump Nº 2 is running.*
- *Jets 4 are always on when jets pump Nº 1 is running.*

Waterfall Selector

- *Waterfall selector (5) controls circulation pump output to waterfall.*

9.15 J-435 Air Controls Diagram



Air Controls Operation

- *Rotate air controls 1-3 to add air to designated jet groups.*

10.0 Registration and Start-up

10.1 Start-up Sequence

During the start-up sequence, the welcome screens will appear, Figure 10.1a. Then a blow out cycle will begin, page 51. After the cycle ends, the hot tub will display the Home Menu.

Note:

- The start up menu will time out after approximately 3 seconds.
- The exterior lights flash on and off to indicate a connection.

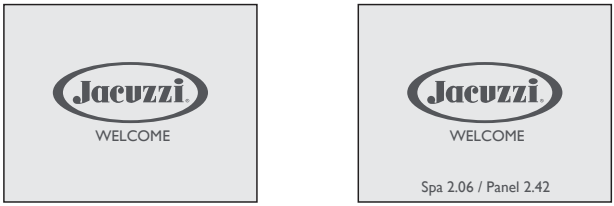


Figure 10.1a

10.2 Register Your New Spa

Registering your spa is important in order to validate your warranty. To register your spa you need to have your spa serial number. The best time to retrieve the serial number is when the spa is being connected, Figure 10.2a. You must register your spa via the internet at www.Jacuzzi.com.

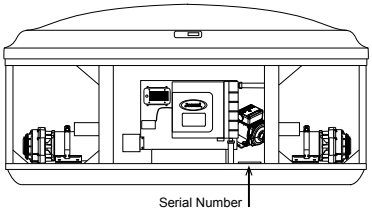


Figure 10.2a

Follow these steps to register your spa.

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

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

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

10.3 ProTouch™ Control Panel

The J400 ProTouch system makes operating your spa a breeze. You can navigate through the menus and sub-menus with ease. Simply touch the icons on the LCD display to begin operating your new Jacuzzi spa.

A. Home Menu Control Buttons

The Home Menu, Figure 10.3a, provides access to spa functions and programming. Operation is made easy by the interactive control panel. If there is no activity for 30 minutes, the LCD display will time-out into a sleep mode. To reactivate the display, just tap the display screen. When a feature is on, the button will have a blue inner glow.

Figure 10.3a

= **Temperature Control:** Allows you to adjust the set temperature of the spa:
- Increase the temperature by tapping in 0.5°C (1°F) increments.
- Decrease the temperature by tapping in 0.5°C (1°F) increments.

Note: The temperature range for the spa is 18.33 to 40°C (65 to 104°F). To activate the **Extended Temperature feature** that allows the spa to reach 41°C (106°F), page 74.

= **Jet Button:** Tap to access the menu to operate the jets pump, page 39.

= **Light Button:** Tap to access the menu to operate the lighting options, page 40.

= ClearRay **Button:** Tap to activate the ClearRay on demand feature, page 44.

= **Settings Button:** Tap to access the programming and setting menus, page 47.

= **Music Button:** Tap to access the menu to operate the audio system and settings, page 41.

Note: If the spa does not have the stereo option, there will not be a button on the control panel.

= **Error Indicator Icon:** Displays when there is an error message that needs to be addressed. The icon will also appear under the Temperature reading as a reminder, page 71. Tap to view the condition that requires attention.

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

= **Heater ON icon:** Will display when the heater is on.

= **Lock Button:** Displays when one of the lock modes is enabled, page 54.

= **Wi-Fi icon:** Will display when the optional Wi-Fi feature is on page 54. Not applicable if the optional SmartTub® system is installed.

6:45p = **Time Indicator:** The time will always be shown when the Home Menu is displayed. The appearance will vary depending on whether the clock is set to a 12-Hour or 24-Hour configuration, page 56. The default setting is 12-Hour.

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

11.0 Operating Instructions

11.1 ProTouch™ Control Panel

Your Jacuzzi spa is equipped with a ProTouch control panel; massage selectors, and air control knobs (page 31). These controls let you operate many of the special functions of your Jacuzzi spa.

11.2 Activating the Jets Pumps

From the Home Menu, (Figure 11.2a), tap to enter the Jets Pump Submenu. The panel will display the Jets Pump Submenu (Figure 11.2b).

Note: Once you enter the Jets Pump Submenu, all the pumps will activate. You can turn off the jets pump by tapping the jets pump button.

Figure 11.2a

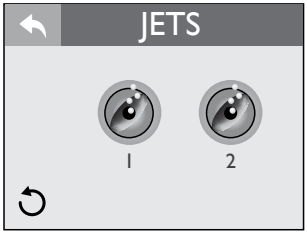


Figure 11.2b

= **Jets Pump 1 Button**

= **Jets Pump 2 Button**

= **Jets Pump 3 Button (if applicable)**

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

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

JETS ICON WHEN ON

JETS ICON WHEN OFF

1. Tap the Jets 1 button to turn the pump on and off.
2. Tap the Jets 2 button to turn the pump on and off.
3. Tap the Jets 3 button to turn the pump on and off.

Note:

- When a jets pump is on, the button will have a blue inner glow.
- Auto Turn Off — Anytime a pump has been manually turned on, it will automatically turn off after approximately 20 minutes. If at this time you desire more jet operation you may simply turn the pump(s) back on.

11.3 Lights Menu

From the Home Menu, (Figure 11.3a), tap to enter the Light submenus. The LCD screen will display the Light Submenu (Figure 11.3b). From this menu you can control the hot tub lighting. When you tap to enter the submenu, the lights will turn on, if not on already, in a color blending mode. Default settings are brightness level at 0 and speed setting of 0.

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

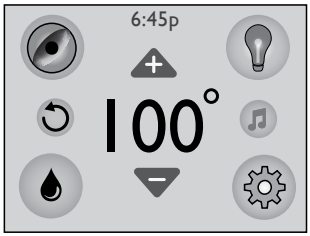


Figure 11.3a

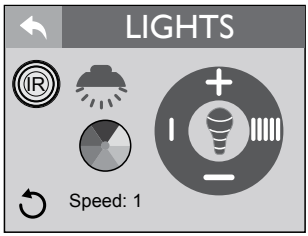


Figure 11.3b

= **Brightness Up Button:** Tap to raise the intensity of the lights to the maximum level of 5. The intensity levels are as follows: 5 = 100%, 4 = 80%, 3 = 60%, 2 = 40% and 1 = 20%, 0 = 0%.

= **Brightness Down Button:** Tap to lower the intensity of the lights to the minimum level of 0.

= **Intensity Indicator:** Displays the current intensity level of the lights by the number of bars filled in. This will only work with the solid color option. If the blending mode is on, the light bulb is grayed out. The range is from 0 to 5.

= **Speed Control Button (Increase):** Tap to increase the blending speed, of the colors, to the maximum speed of 5. The speed settings are as follows: 5 = every 5 secs, 4 = every 10 secs, 3 = every 15 secs, 2 = every 30 secs and 1 = every 60 secs.

= **Speed Control Button (Decrease):** Tap to decrease the blending speed, of the colors, to the minimum speed of 0.

Speed: 1 = **Speed Selector Icon:** Tap or to select the blending speed for the light colors.

= **Color Selector:** Tap a color to select a single color.

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

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

= **Exterior Light Button:** The exterior corner lighting has 4 settings. The lights display a solid White color only. By continually tapping you will scroll through the following:

1. **OFF:** Exterior lights are turned off.
2. **ON:** Solid White color with a 100% intensity level.
3. **MID:** Solid White color with a 50% intensity level.
4. **AUTO:** Solid White color with a 100% intensity level. Lights are on from 7:00 pm to 12:00 am.

Note: The exterior lights automatically turn off after 8 hours, except for the timer setting.

= **IR and Red Light:** Press to begin the 20 minute session.

11.4 Music Menu

Models equipped with the optional Audio System offer an enhanced spa experience. The BLUEWAVE® 2.0 Wireless Audio System works with most Bluetooth® wireless devices. An auxiliary device can be connected, via a 3.5 mm plug cable, located behind the front cabinet panel, if a Bluetooth device is not available. These models also include four high fidelity spa engineered speakers for unsurpassed sound quality and long-life, and an integrated powered subwoofer for a superb acoustical sound.
Note: If the spa does not have the stereo option, there will not be a button on the control panel.

To access the Music Menu, tap , Figure 11.4a. The display will change to Figure 11.4b. Once you enter the Music Menu, tap the power button to turn the stereo on. Your connected electronic device, Bluetooth or auxiliary, provides the audio entertainment.

WARNING: RISK OF ELECTRICAL SHOCK HAZARD EXISTS AND EQUIPMENT DAMAGE! Never install or remove electrical devices while hands are wet or while sitting partially immersed or fully immersed in spa!

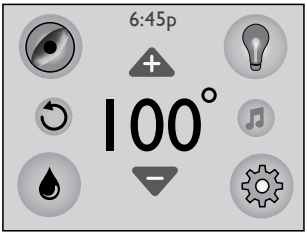


Figure 11.4a

Figure 11.4b

= **Power Button:** Tap to turn the stereo on and off.

= **Bluetooth Settings:** Tap to use your Bluetooth device with the stereo. This is the default setting.

= **Auxiliary Settings:** Tap to use your Auxiliary device with the stereo.

= **Volume Up:** Tap to increase the volume. The range is from 0 to 30 in increments of 1.

= **Volume Down:** Tap to decrease the volume. The range is from 0 to 30 in increments of 1.

= **Forward:** Tap to advance forward through tracks.

= **Rewind:** Tap to move back through tracks.

❙ or ▶ = **Pause/Play:** Tap to pause and play tracks.

Track Name = **Artist Track:** Will display the artist and track information, if it is available. If the information is not available this part will be blank. If the information provided is too long, the maximum number of characters will be display follow by dots (“...”).

= **Audio Settings:** Tap to access the audio submenu.

Vol: 30 = **Volume:** Displays the current volume level from 0 to 30.

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

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

11.5 Connecting to the BLUEWAVE 2.0 Wireless Audio System

A. Connecting with your Bluetooth® device

To bridge a connection between the BLUEWAVE 2.0 Wireless Audio System and your Bluetooth® device, follow the steps below.

Note: The BT icon cannot be selected manually unless a Bluetooth® connection is established with your device. If you experience a connection problem with your Bluetooth® device, make sure that the Bluetooth antenna is secure and located at the highest point within the equipment bay.

1. Tap the music icon on the control panel screen then touch the power button located on the top right to turn on the stereo.
2. From your Bluetooth device, make sure that 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. Once the connection is established, the Bluetooth “BT” icon on the screen will be highlighted confirming the connection.
5. If asked for a password, enter the password “0000” and then connect.
6. If the pairing process is successful, your Bluetooth device will show “Connected” right next to “BLUEWAVE.” The Bluetooth icon will be highlighted.

B. Connecting an Auxiliary Device

1. Remove the front panel.
2. Locate the BLUEWAVE unit in the equipment bay.
3. Locate the cable labeled “AUX” that is connected to the unit.
4. Use a 3.5 mm cable (not included) to connect your auxiliary device.
5. Run the cable safely, through the front, and reinstall the panel.

Note: Use caution in handling the auxiliary device, the placement of the device and that the cable is not in the way.

11.6 Audio Settings Menu

To enter the Audio Settings Menu, tap > from the Music submenu, Figure 11.6a. The display will change to Figure 11.6b. The Audio Settings Menu offers an enhanced audio experience by providing a custom or preset bass and treble settings.

Figure 11.6a

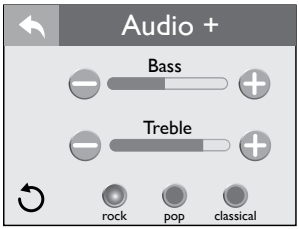


Figure 11.6b

= **Bass Adjustment:** Slide from side to side to adjust the Bass range from -5 to 5. This feature can be used to create a custom sound.

= **Treble Adjustment:** Slide from side to side to adjust the Treble range from -5 to 5. This feature can be used to create a custom sound.

= **Rock Preset:** Tap to activate the “Rock” music audio setting. “Rock” has a 1 Bass and 3 Treble preset setting. When not in use it will be grayed out; if it is in use the button will be highlighted, Figure 11.6b.

= **Pop Preset:** Tap to activate the “Pop” music audio setting. “Pop” has a -1 Bass and -2 Treble preset setting. When not in use it will be grayed out; if it is in use the button will be highlighted, Figure 11.6b.

= **Classical Preset:** Tap to activate the “Classical” music audio setting. “Classical” has a 1 Bass and 1 Treble preset setting. When not in use it will be grayed out; if it is in use the button will be highlighted, Figure 11.6b.

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

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

11.7 ClearRay **on Demand**

The ClearRay® on demand feature activates the water purification system. Continuously tap to activate the system for 1 hour, 2 hours, 3 hours or OFF. During this time the circulation pump and the ClearRay system are on.
Note: When the ClearRay system is on due to a programmed or scheduled setting the feature cannot be turned off.

11.8 Ozone Operation

The Ozonator will activate anytime the circulation pump is on during the Primary Filter Cycle or heat call.
Note: DO NOT press either JETS button, this will shut off the ozone for the amount of time the jets are on plus 5 minutes after they shut off.

11.9 Adjusting Jet Flow

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

11.10 Adjusting PowerPro™ MX2 Jets

Tilt PowerPro MX2 Jet nozzle to angle of choice as desired. Rotate nozzle clockwise to reduce flow volume from jet or rotate counterclockwise to increase flow volume.
Note: Always keep at least 6 adjustable jets open at all times.

11.11 Adjusting RX Jets

Rotate the outside jet face clockwise to decrease or shut off water flow. Turn counterclockwise to turn on or increase water flow.
Note: Always keep at least 6 adjustable jets open at all times.

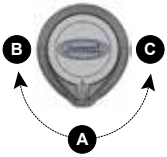
11.12 Waterfall Control

Turn waterfall control valve (page 31) counterclockwise to increase waterfall output. Turn control valve clockwise to decrease or turn off waterfalls.
Note: When the waterfall is in the OFF position, some water may still flow through. This is considered normal.

11.13 Air Controls

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

11.14 Selecting the Desired Massage Action



Lighted control valve shown.

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

11.15 Indicator Light

The indicator light located on the front cabinet panel of the spa is an early detection system that will notify you when the spa needs immediate attention. A solid white light indicates that all operations are normal. A solid red light indicates that immediate attention is required to clear or fix an error code. For a detailed explanation refer to page 71. Always insist on genuine Jacuzzi replacement parts.

11.16 Exterior Lights

The exterior lights are located on the corners of the cabinet panels. They provide a colorful luminance around the spa. These lights are activated from the light menu. The only light color option is white. At start-up, the exterior lights flash on and off to indicate a connection. The lights have a timeout period of 8 hours. For operating instructions refer to page 40.

11.17 Optional SmartTub® System

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

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

A. **Pairing process**

1. Download the SmartTub® app from the Google Play store or Apple App store.
2. Open the app and create an account.
3. Locate the SmartTub® sticker next the control panel of the hot tub. You can either scan the QR code with the SmartTub® app or manually input the serial number located below the QR code on the sticker.
4. After you pair the hot tub's serial number to the SmartTub® app, the app will load and connect the hot tub to the internet.
5. Follow the instructions on the app to begin enjoying the benefits of your internet connected hot tub.

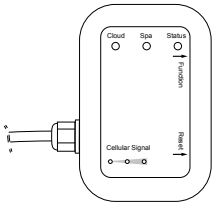
Note: The first year of data service is included. You will need to renew the subscription after the first year. Please refer to the terms of service and privacy policy links in the SmartTub® app for additional information.

B. **Indicator Lights**

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

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

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



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

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

C. **Resetting the SmartTub® controller**
Should the SmartTub® controller need to be reset, hold a magnet to the reset label on the side of the SmartTub device.

11.18 IR and Red Light Therapy

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

12.0 Programming and Operation Instructions

Your Jacuzzi spa is equipped with setting menus that allow you to program and activate different components of the spa. With our ProTouch control panel, programming your spa has never been easier. In the sections that follow, we will guide you through the process of programming the spa to fit your personal comfort. Tap ⚙ to enter the Settings Menu.

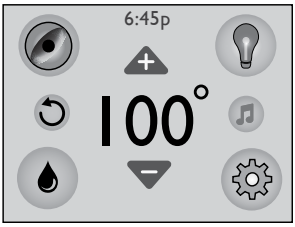


Figure 12.0a

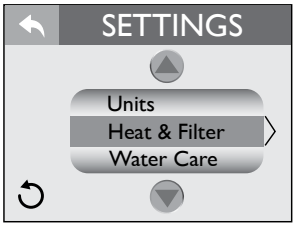


Figure 12.0b

Heat & Filter = **Heat and Filter:** Provides access to the heating and filtration programming, page 48.

Water Care = **Water Care:** Provides access to the water care programming, page 51.

WiFi = **Wi-Fi:** Provides access to the optional Wi-Fi programming, page 54. Not applicable if the optional SmartTub® system is installed.

Lock = **Lock:** Provides access to the spa lock programming, page 54.

Time & Date = **Time and Date:** Provides access to the time and date programming, page 56.

Language = **Language:** Provides access to the language programming, page 56.

Units = **Units:** Provides access for the temperature display in F° or C°, page 57. Default setting is F°.

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

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

= **Scroll Buttons:** Scroll up and down to view the selections available.

12.1 Programming the Heating Mode

Your Jacuzzi spa is equipped with 3 modes of heating, Figure 12.1a. An automatic mode called "Auto," where the spa's temperature is maintained at all times. An energy saving heating cycle called "Econo." A mode that will only activate the heater during the daytime called "Day" mode.
Note: The heater will activate when the temperature drops 2° from the set temperature.

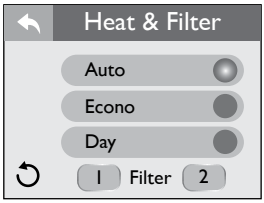


Figure 12.1a

Indicates that the feature is active. Indicates that the feature is not active.

From the Settings Menu, tap or to highlight the "Heat & Filter" menu tab in Orange. Tap Heat & Filter to the enter the menu. Then select one of the heating settings.

A. **Auto heating:**
1. When programmed to "Auto," the spa will maintain the water temperature to the set temperature. Heating will occur when necessary.
2. To select this mode, tap next to the "Auto" icon.

B. **Econo heating:**

1. This is an energy saving heating program that allows the spa to heat during non-peak hours. When programmed to “Econo,” the spa will only be allowed to heat the water between 5:00 PM to 7:00 AM every day of the week. The hours cannot be adjusted.
2. To select this mode, tap ● next to the “Econo” icon.

C. **Day heating:**

1. When programmed to “Day,” the spa will only be allowed to heat the water between 7:00 AM to 5:00 PM every day of the week. The hours cannot be adjusted.
2. To select this mode, tap ● next to the “Day” icon.

12.2 Programming the Primary Filter

To access the “Primary Filter” feature, tap 1 from the Heat & Filter menu, Figure 12.2a, to enter the “Primary Filter” programming menu, Figure 12.2b.

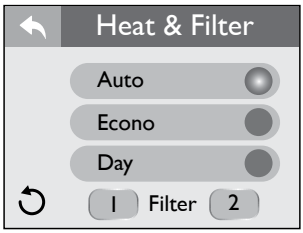


Figure 12.2a

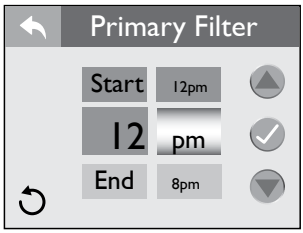


Figure 12.2b

During a primary filtration, the circulation pump and ClearRay Active Oxygen® system are activated. The factory default cycle starts at 12:00 AM and last for 8 hours. If you elect to keep this setting, then you can skip this section.

> In extreme bitter cold weather we recommend you program the circulation pump to run 24 hours. Refer to the "Winterizing" section on page 64.

Any time the circulation pump runs outside of a program cycle, e.g. for heating, that run time will be deducted from the next primary filter cycle. For example, the primary filter cycle is set to 8 hours every 24 hours but the circulation pump comes on for 2 hours to heat the water after the cycle has finished. The next primary filter cycle will only be for 6 hours not 8 hours.

A. **To change the default cycle:**

When you enter the menu, “Start” and “12” will be highlighted.

1. Tap ▲ or ▼ to change the hour in 1-hour increments. To switch from “AM” to “PM” you must round a 12-Hour period.

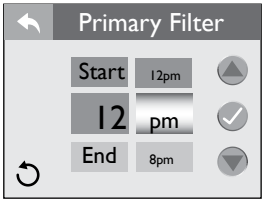


Figure 12.2c

2. Tap ✓ to accept the change.
3. Tap End to program the end time for the cycle.
4. Tap the hour block to change the end time.
5. Tap ▲ or ▼ to change the hour in 1-hour increments. To switch from "AM" to "PM" you must round a 12-Hour period.
6. Tap ✓ to confirm and save your changes.
7. Tap ↩ , a couple of times, to return to the Heat & Filter Menu and the Settings Menu.

Summer Logic: In warm weather, the water temperature in the spa may exceed the set temperature. This condition may occur due to heat transference from the filter/circulation pump and jets pumps. If the water temperature is higher than 35°C (95°F) and 1°C (2°F) above the set temperature, a "Summer Logic" condition occurs that deactivates the filter/circulation pump, ClearRay Active Oxygen® system, and secondary filtration. This safety feature cannot be altered! They will remain off until the water temperature cools to the set temperature (except when the filter/circulation pump runs for it's mandatory 3-hour cycles between 8am-11am and 8pm-11pm.) To help prevent a "Summer Logic" condition, it may be necessary to reduce filter/circulation pump cycles run times in warm weather.

12.3 Programming the Secondary Filter

To access the "Secondary Filter" feature, tap 2 from the Heat & Filter Menu, Figure 12.3a, to enter the "Secondary Filter" programming, Figure 12.3b.

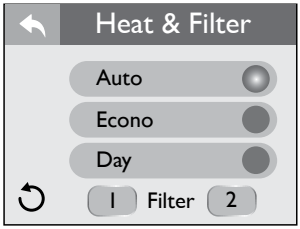


Figure 12.3a

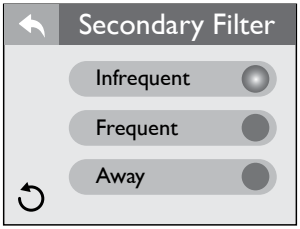


Figure 12.3b

During a secondary filtration, the Jets Pump 1 is activated. There are 3 cycles you can select from, Figure 12.3b. The factory default cycle is "Away Mode." If you elect to keep this setting, then you can skip this section.

● Indicates that the feature is active. ○ Indicates that the feature is not active.

A. **To change the Secondary Filter cycle:**

1. Away Mode: Secondary Filtration is disabled. To activate this mode, tap ○ next "Away." This is the factory default setting.
2. Infrequent Mode: Activates two cycles at 8:00 PM and 8:00 AM **every other day**. Each cycle will last 10 minutes for a total of 20 minutes every other day. To activate this mode, tap ○ next to "Infrequent." Time and duration cannot be altered.

3. Frequent Mode: Activates two cycles at 8:00 PM and 8:00 AM **every day**. Each cycle will last 10 minutes for a total of 20 minutes every day. To activate this mode, tap ● next to "Frequent." Time and duration cannot be altered.
4. Tap ↩ to return to the Heat & Filter Menu. Tap again to return to the Settings Menu.

12.4 Cleanup Cycle

The cleanup cycle occurs once per day at 12:00 pm (noon) for 2 minutes. This is not user programmable. The Jets Pump 1 and the Circulation Pump will turn on for one minute and then shut off. Then Jets Pump 2 will turn on and run for 1 minute then shut off. Lastly, Jets Pump 3 will turn on and run for 1 minute then shut off. The feature can be deactivated by turning off the corresponding jets pump that is running.

12.5 Blow-Out Cycle

This cycle will purge the air from the plumbing lines normally caused by draining and filling the spa. The Jets Pump 1 and the Circulation Pump will turn on for 1 minute and then shut off. Then Jets Pump 2 will turn on and run for 1 minute then shut off. Lastly, Jets Pump 3 will turn on and run for 1 minute then shut off. The feature can be deactivated by turning off the corresponding jets pump that is running. This cycle will **only** occur at start up and after exiting a service lock.

12.6 Water Care Programming

Water care is crucial to maintaining a clean spa. The ClearRay Active Oxygen® system leads the way to a clean* spa by using a UV light bulb and ozone. Your spa can be programmed to remind you when to check and replace certain components.

From the Settings Menu, tap ▲ or ▼ to highlight the "Water Care" menu tab in Orange, Figures 12.6a and 12.6b. Tap Water Care to the enter the menu. Then select one of the features.

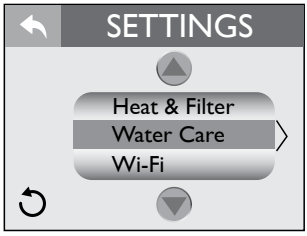


Figure 12.6a

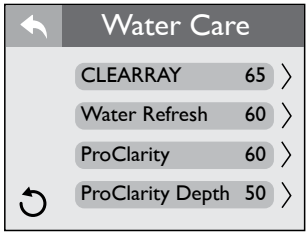


Figure 12.6b

*Clean is defined as the removal of microscopic (to 30 µm level) debris from the water. Ozone aids in the grouping of small debris. Once combined, the debris can be more easily caught by the filtration process.

A. **Programming the ClearRay UV Bulb Timer**

The ClearRay UV bulb has a life expectancy of 1 year. A timer activates when power is applied and begins a countdown starting at 365 days. Once the timer expires, an error message will appear of the display, the UV bulb must be replaced and the timer needs to be reset. Tap CLEARRAY 65 〉(Figure 12.6b) to enter the Programming Menu.

Note: The days are stored in memory if the power is interrupted.

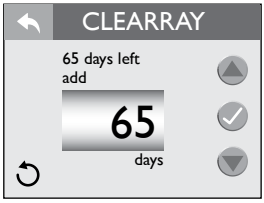


Figure 12.6c

1. From the "Water Care" Menu you can to set the ClearRay UV bulb timer, Figure 12.6c.
2. Tap ▲ or ▼ to change the days in 10-day increments. The range is from OFF to 365 days. The ClearRay UV timer counts down by days not usage.

Note: It is not recommended that this feature be turned OFF. In order to continually have the ClearRay system effectively perform its function, it should be program as instructed.

3. Tap ✓ to confirm and save your changes.
4. Tap ↩ to return to the "Water Care" Menu. Tap again to return to the Settings Menu.
5. When the timer expires, a message will appear on the control panel display, page 74. The ClearRay UV bulb **must be replaced** (page 68) and the timer must be reset. Tap "reset" and follow the instructions above to reset the timer. If you tap "snooze" the message will clear but the error icon ⚠ will display and the reminder screen will reappear in 10 days.

B. **Programming the Water Change Timer**

A programmable "Water Refresh" reminder can be set to remind you when to drain and refill the spa. Tap Water Refresh 60 〉(Figure 12.6b) to enter the Programming Menu.

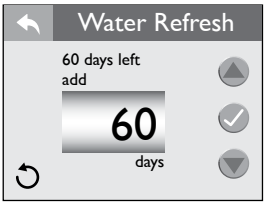


Figure 12.6d

1. From the "Water Care" Menu you can to set the "Water Refresh" timer, Figure 12.6d.
2. Tap ▲ or ▼ to change the days in 30-day increments. The range is from OFF to 180 days.

Note: It is not recommended that this feature be turned OFF. In order to continually maintain the water healthy and clean, in addition to chemical maintenance, it should be program as instructed.

3. Tap ✓ to confirm and save your changes.
4. Tap ↩ to return to the "Water Care" Menu. Tap again to return to the Settings Menu.
5. When the timer expires, a message will appear on the control panel display, page 74. The water must be drained and replaced with fresh water. Follow the instructions above to reset the timer. If you tap "snooze" the message will clear but the error icon ⚠ will display and the reminder screen will reappear in 10 days. Refer to Section 13.1, page 58, for filter location.

C. **Programming the ProClarity/ProClear Filter Timer**

A programmable filter timer can be set to remind you when to clean or replace the filters and skimmer bag. Tap ProClarity 60 〉 (Figure 12.6b) to enter the Programming Menu.

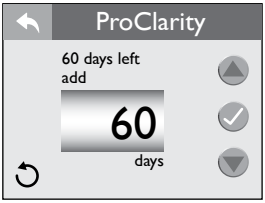


Figure 12.6e

1. From the “Water Care” Menu you can to set the “ProClarity” timer, Figure 12.6e.
2. Tap ▲ or ▼ to change the days in 10-day increments. The range is from OFF to 180 days.

Note: It is not recommended that this feature be turned OFF. In order to continually maintain clean and working filters, it should be program as instructed.

3. Tap ✓ to confirm and save your changes.
4. Tap ↩ to return to the “Water Care” Menu. Tap again to return to the Settings Menu.
5. When the timer expires, a message will appear on the control panel display, page 74. The filters must be cleaned or replaced. Follow the instructions above to reset the timer. If you tap “snooze” the message will clear but the error icon ⚠ will display and the reminder screen will reappear in 10 days. Refer to Section 13.1, page 58, for cleaning instructions.

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

A programmable filter timer can be set to remind you when to replace the ProClarity Depth Filter. Tap ProClarity Depth 50 〉 (Figure 12.6b) to enter the Programming Menu.

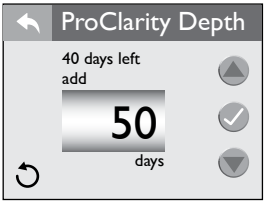


Figure 12.6f

1. From the “Water Care” Menu you can to set the “ProClarity Depth” timer, Figure 12.6f.
2. Tap ▲ or ▼ to change the days in 10-day increments. The range is from OFF to 90 days.

Note: It is not recommended that this feature be turned OFF. In order to continually maintain clean and working filters, it should be program as instructed.

3. Tap ✓ to confirm and save your changes.
4. Tap ↩ to return to the “Water Care” Menu. Tap again to return to the Settings Menu.
5. When the timer expires, a message will appear on the control panel display, page 74. Follow the previous instructions to reset the timer. The filter must be replaced. Refer to Section 13.1, page 58, for filter location. If you tap “snooze” the message will clear but the error icon ⚠ will display and the reminder screen will reappear in 10 days.

12.7 Optional Wi-Fi Setup (not applicable if the optional SmartTub® system is installed)

From the Settings Menu, tap or to highlight the “Wi-Fi” Menu tab in Orange. Tap Wi-Fi to enter the programming options, Figures 12.7a and 12.7b. Make sure you have downloaded the Wi-Fi App for this setup.

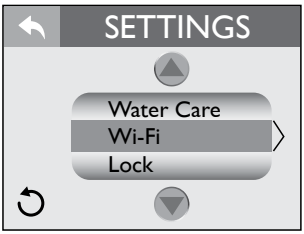


Figure 12.7a

Figure 12.7b

1. You need to follow the instructions from the App in order to connect the Wi-Fi.
2. While the system attempts to connect you will see the, “Spa Wi-Fi Setup in-progress,” Figure 12.7b. When the connection is done the display will read, “Spa Wi-Fi Setup Successfully Connected”.

If the Wi-Fi connection setting should need to be updated or connected to a new router, follow the steps below.

1. From the “Settings” menu, tap Wi-Fi (Figure 12.7a) to enter the menu.
2. Tap Reset? . The display will change to “Spa Wi-Fi Setup In-progress” and the reset button will be highlighted in Orange.
3. Tap Reset? again. This will clear the current data and allow the spa to connect to the new data.
4. Reconfigure and setup your spa by following the instructions from the app.

12.8 Locking the Spa

From the Settings Menu, tap or to highlight the “Lock” menu tab in Orange. Tap Lock (Figure 12.8a) to enter the programming options, Figures 12.8a and 12.8b. You can prevent users from changing certain features of the spa. When a lock feature is active, the lock icon will appear on the Main Menu. When you enter the “Lock” Menu, if one of the three settings is locked, it will be highlighted Orange.

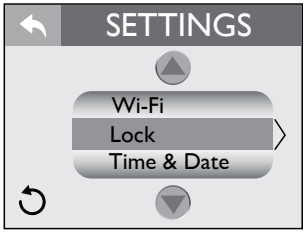


Figure 12.8a

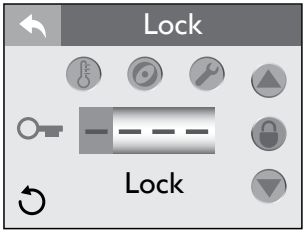


Figure 12.8b

A. **Temp Lock (Figure 12.8b):**
1. Tap to lock the temperature feature.
2. Tap (the first block) to select a number. Use or to select a number from 0-9. Then move on to the next number until a four-digit code has been selected.
3. Tap to activate the locking feature.
4. The adjust temperature feature is disabled, but the spa will still perform all scheduled tasks.
5. Tap to return to the “Settings” Menu.

B. **Spa Lock (Figure 12.8b):**
1. Tap to lock the spa. When this feature is activated both the spa and temperature lock are highlighted Orange.
2. Tap (the first block) to select a number. Use or to select a number from 0-9. Then move on to the next number until a four-digit code has been selected.
3. Tap to activate the locking feature.
4. All activation and adjustment features are disabled but the spa will still perform all scheduled tasks.
5. Tap to return to the “Settings” Menu.

C. **Service Lock (Figure 12.8b):**
1. Tap to lock the spa. When this feature is activated all the lock buttons highlighted Orange.
2. Tap (block) to select a number. Use or to select a number from 0-9. Then move on to the next number until a four-digit code has been selected.
3. Tap to activate the locking feature.
4. All spa functions are locked to allow for a temporary service mode for filter cleaning.

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

D. **To Unlock (Figure 12.8c):**
1. Enter the Lock menu. The type of lock that is active will already be highlighted in Orange.
2. Tap (the first block) to start entering the code. Then move on to the next number until the four-digit unlock code has been entered.
3. Tap to unlock.
4. Tap a few times to exit the menu.

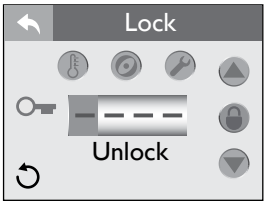


Figure 12.8c

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

12.9 Programming the Time and Date

From the Settings Menu, tap ▲ or ▼ to highlight the “Time & Date” menu tab in Orange. Tap Time & Date to enter the programming options, Figures 12.9a and 12.9b.

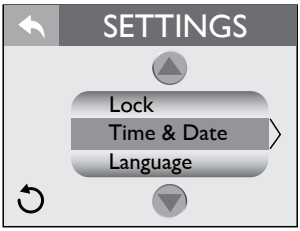


Figure 12.9a

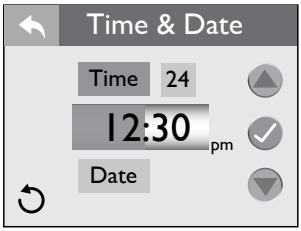


Figure 12.9b

A. **To set the time:**

The default time setting is a 12-Hour configuration. To choose the 24-Hour configuration, then tap 24 to change the setting.

1. When you enter the menu, Time will be highlighted Orange, Figure 12.9c.
2. Tap the hour block 12:30 to program.
3. Tap ▲ or ▼ to change the hour in 1-hour increments. To switch from “AM” to “PM” you must round a 12-Hour period.
4. Tap the minute block 12:30 to program.
5. Tap ▲ or ▼ to change the minutes.
6. Tap ✓ to confirm and save your changes.

Figure 12.9c

B. **To set the date:**

Each setting for month, day and year can be set independently.

1. Tap Date to program the date, Figure 12.9d.
2. Tap the month block 1 30 2022 to program.
3. Tap ▲ or ▼ to make changes.
4. Tap the day block 1 30 2022 to program.
5. Tap ▲ or ▼ to make changes.
6. Tap the year block 1 30 2022 to program.
7. Tap ▲ or ▼ to make changes.
8. Tap ✓ to save and accept the changes.
9. Tap ↩ to return to the “Settings” Menu.

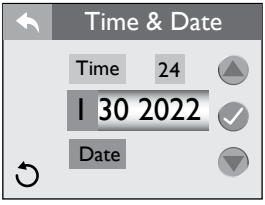


Figure 12.9d

12.10 Programming the Language

From the Settings Menu, tap or to highlight the “Language” menu tab in Orange. Tap Language to enter the language options, Figures 12.10a and 12.10b.

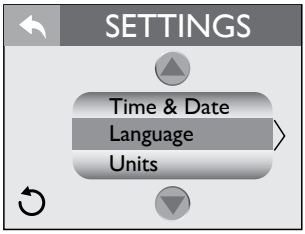


Figure 12.10a

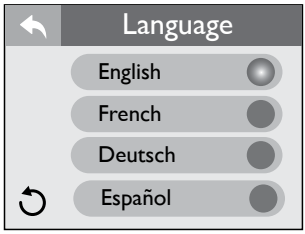


Figure 12.10b

1. There are 4 languages to select from: English, French, Deutsch, and Español. To select a language, tap next to the language you want to display, Figure 12.10b.
2. Tap to return to the “Settings” Menu.

12.11 Units Display

From the Settings Menu, tap or to highlight the “Units” Menu tab in Orange. Tap Units to enter the selection menu, Figures 12.11a and 12.11b.

1. Tap next to the unit of measure that you want to display.
2. Tap a few times to return to the Main Menu.

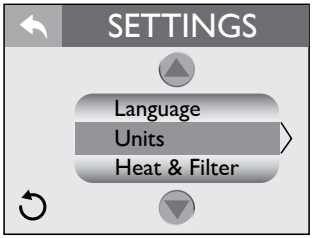


Figure 12.11a

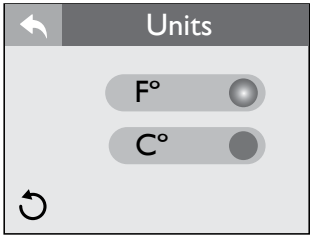


Figure 12.11b

12.12 System Information

This menu will display the current information for the spa. From the Settings Menu, tap or to highlight the “System Information” Menu tab in Orange. Tap System Information to enter the selection menu, Figure 12.12a. There are no selections that can be made. The menu simply provides information.

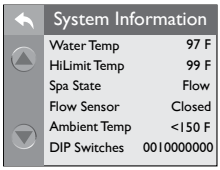


Figure 12.12a

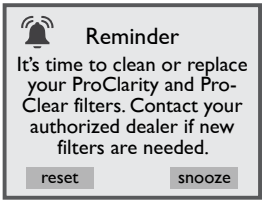
13.0 Spa Maintenance

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

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.

13.1 Cleaning the Filter Cartridges

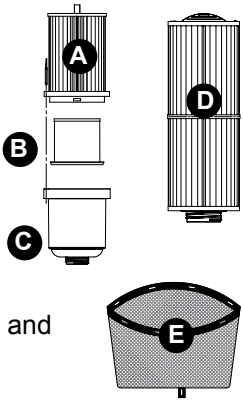


A reminder message appears on the control panel display after a specified number days to remind you to clean the skimmer filter and to check the polishing bag filter. This reminder must be reset at each filter cleaning interval. Refer to Section 12.6 (page 51) for additional information and programming details. Your new spa is equipped with an advanced 2-Stage filtration system. Fine debris are filtered by the circulation pump drawing water through the ProClarity™/ProClear™ skimmer and pleated filter cartridges. Large debris are filtered when jets pump 1 is running when the spa is in use or during a programmed filter cycle. These pumps draw water from footwell suction fitting and through a secondary water polishing bag filter and additional filter.

A. **Cleaning the filters and filter bag**

To ensure optimum performance:

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

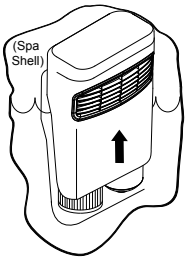
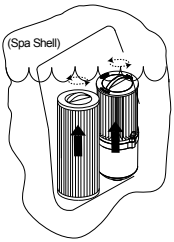


To accomplish this, refer to the following filter cleaning procedure. The primary filter cartridge goes on the side that is closest to the front of the spa.

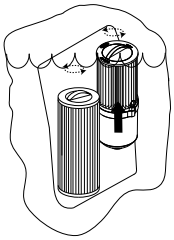
Note: Do not attempt to wash the ProClarity depth filter (B) and the ProClear/ProClarity debris bag (E) or it will come apart!

B. **Cleaning the Filters/Debris bag:**

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	C	D
		
Lift the cover upward to access filter cartridges.	Remove the ProClarity debris bag from clips and then clean out debris.	Rotate each filter cartridge handle counterclockwise to unthread from mating wall fitting.

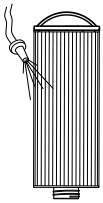
E



Lift unthreaded filter cartridge from skimmer well.

Note: Primary filter fitting is the one with the grid.

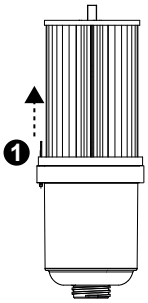
F



Cartridge 1

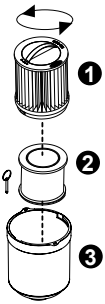
If used, remove the chemical feeder as instructed prior to rinsing the filter cartridge. Rinse debris from filter pleats using a garden hose and high-pressure nozzle. Start at the top and work downward towards handle. Repeat until all pleats are clean.

G



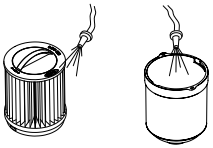
Remove the filter pin 1 in order to separate the ProClarity filter and canister.

H



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

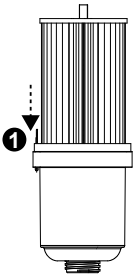
I



Cartridge 2 Canister

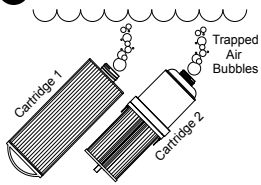
Rinse debris from filter pleats using a garden hose and high-pressure nozzle. Start at the top and work downward towards handle. Repeat until all pleats are clean. Rinse out any debris from the canister.

J



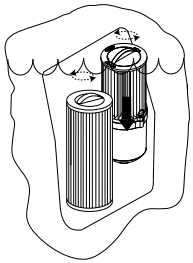
Reassemble the ProClarity Filter. Remember to replace the depth filter with a new one. Once the filter is assembled, secure it with the filter pin 1.

K



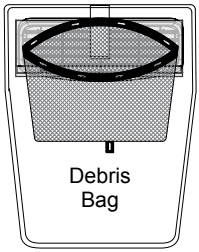
Submerge both filter cartridges in spa. Tilt threaded end upward to remove trapped air bubbles, then keep cartridges submerged to prevent air entrapment during installation.

L



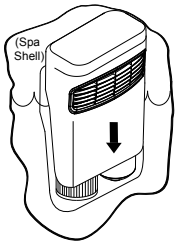
Place each cartridge back into skimmer well, then rotated each cartridge handle clockwise to thread back into wall fitting. DO NOT OVERTIGHTEN!

M



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

N



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

13.2 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, number of users, attention paid to water quality maintenance, etc. During this time, it is also recommended that you use Jacuzzi's Jet Line Cleaner to clean the internal plumbing lines from buildup and debris.
Note: Jacuzzi chemicals are for use in the U.S. only.

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

CAUTION: There are certain precautions to keep in mind when draining your spa. If it is extremely cold, and the spa is outdoors, freezing could occur in the lines or the equipment (see "WINTERIZING," page 64). On the other hand, if it is hot outdoors, do not leave the spa's surface exposed to direct sunlight.

Draining Procedures:

1. Turn off power to spa at breaker.
2. Locate the drain valve located on the front left corner on the black plastic pan. Hold the larger (rear) drain valve body to prevent it from turning, then loosen and remove the front cap to expose the underlying male hose threads, Figure 13.2a.
3. Attach a garden hose to the exposed threads, Figure 13.2b.
4. Gently rotate the larger (rear) valve body 1/3 turn counterclockwise to unlock the drain valve, Figure 13.2c.
5. Pull the larger (rear) body outward as shown to open drain, Figure 13.2d.
6. After the spa drains, perform steps 2-5 in reverse order to close the drain prior to refilling spa.

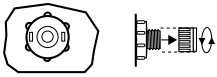


Figure 13.2a

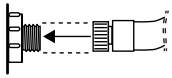


Figure 13.2b

Figure 13.2c

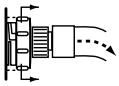


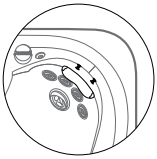
Figure 13.2d

After refilling, turn on power to the spa and follow the steps listed under "Spa Fill Up Procedures" (page 17). Always fill your spa through both filter buckets.

13.3 Cleaning the Spa Interior

To preserve the sheen of your spa's surface, it is crucial that you avoid using abrasive cleaners or cleaners which have adverse chemical effect on the surface. If you are not certain as to the suitability of a particular cleanser, consult your authorized Jacuzzi dealer. We recommend using Jacuzzi's Spa All Purpose Cleaner to clean the spa's interior surface. Use extreme care to assure that no soap residue is left on the surface. This could cause severe sudsing when the spa is refilled. Jacuzzi chemicals are for use in the U.S. only.

13.4 Pillow Care



Clean the headrests in your spa as needed by wiping them with a cloth with soapy water. It is not necessary to remove the headrests for cleaning. To remove headrests for long term storage or replacement, grasp both ends of each headrest and gently pull inward towards the center of the spa. To reinstall, align the pillow slot over the mounting tab and press until the pillow snaps into place.

13.5 Maintaining the Synthetic Cabinet

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

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

13.6 Cleaning the Control Panel

To clean, simply wipe control panel with a micro-fiber cloth that is used for cleaning polycarbonate lenses.

13.7 Cover Care and Maintenance

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

A. **To clean cover skin:**

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

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

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

13.8 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 0°C (less than 32°F) we recommend that the circulation pump is set for 24-Hour operation (Section 12.2 Programming The Primary Filter Cycle, page 49) and that auto-heating is selected (Section 12.1 Auto-Heating, page 48) to protect against damage to the spa.

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

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

CAUTION: TURN OFF POWER TO SPA.

1. Follow the directions on page 61 for draining the spa.
2. Turn the massage/diverter selector(s) into the middle combo position to allow the water in the plumbing lines to drain, page 45.
3. Turn the waterfall valve to the open position to allow the water in the plumbing lines to drain, page 45.
4. 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.
5. Open all the air controls and leave them open until you resume use of the spa, page 45.
6. When the water level ceases to drop, use whatever means available to remove any remaining water from the footwell, such as a wet/dry vacuum.
7. Remove the equipment-side cabinet panel(s) and locate the drain plugs in the front of each pump (Figure B, page 14). Remove these plugs to allow the water to drain out of the pumps and heater.

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

8. Loosen hose clamp at bottom of heater (Figure B, page 14) and pull hose off of heater fitting (twist the hose back and forth while pulling downward). Tip hose down and allow it to drain and then reinstall hose and clamp.
9. Loosen the hose clamp on the circulation pump (if equipped) intake behind the control box (Figure B, page 14) and pull the hose off (twist hose back and forth while pulling outward). Tip hose down and allow it to drain and 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. Re-install cabinet panels and cover spa so that no casual moisture can enter into it.

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

13.9 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 dealer for guidance before attempting to restart your spa under these conditions.

14.0 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 the appropriate chemical products. Jacuzzi chemicals are for use in the U.S. only.

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.

14.1 pH Control

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

14.2 Sanitizing

To destroy bacteria and organic compounds in the spa water, a sanitizer must be used regularly. Chlorine and bromine are the two most popular 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 jet pump(s) and leave the spa cover open for a minimum of 20 minutes. By doing this you will allow excessive chemical vapors to exit the spa, protecting pillows and plastic knobs from chemical attack.

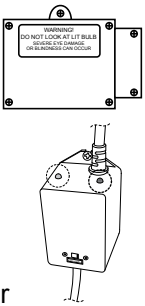
WARNING: RISK OF PERSONAL INJURY, DROWNING OR ENTRAPMENT! Never leave your hot tub unattended for any reason while the cover is open and accessible, especially to small children and animals!

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

14.3 Other Additives

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

14.4 ClearRay Active Oxygen® System



Your new hot tub has the ClearRay Active Oxygen® System installed. The ClearRay Active Oxygen® System is an exclusive technology utilizing ultraviolet light and ozone technology to help keep your water clean*. The ballast is the power supply for the ClearRay Active Oxygen® System; it has two LED indicator lights, the green indicating incoming power flow and the red indicating the system is properly working. ClearRay Active Oxygen® is standard for all models.

After a year the bulb must be replaced. A message will appear on the LCD display when the time allotted has expired. In order to clear the message, a new UV bulb needs to be installed and the timer must be reset, page 51.

*Clean is defined as the removal of microscopic (to 30 µm level) debris from the water. Ozone aids in the grouping of small debris. Once combined, the debris can be more easily caught by the filtration process.

WARNINGS:

- Do not operate the UV-C emitter when it is removed from the appliance enclosure.
- This appliance contains a UV-C emitter.
- Unintended use of the appliance or damage to the housing may result in the escape of dangerous UV-C radiation. UV-C radiation may, even in little doses, cause harm to the eyes and skin.
- Appliances that are obviously damaged must not be operated.
- Read the maintenance instructions before opening the appliance.

14.5 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.

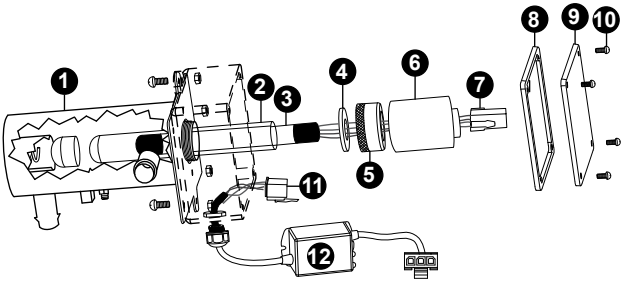


FIGURE 1

DANGER: TURN THE SPA BREAKER TO THE OFF POSITION!

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

WARNING: ALLOW LAMP 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.

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.

2. Once the UV bulb has cooled off remove the ClearRay System enclosure cover (9) and gasket (8) by removing the four screws (10). This will expose the UV bulb and connections, Figure 2.

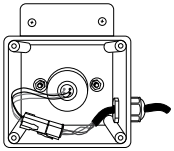


FIGURE 2

> ⚠ **DANGER: NEVER REMOVE COVER WITHOUT FIRST TURNING OFF AT POWER SOURCE AND DRAINING THE SPA.**

FIGURE 3

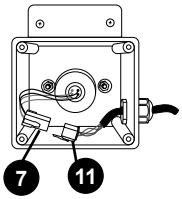


FIGURE 4

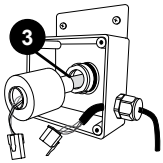


FIGURE 5

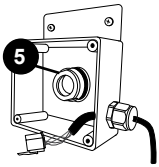
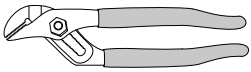


FIGURE 6



3. Disconnect UV bulb socket (7) from the power cord socket (11), Figure 3.
4. Slowly remove the UV bulb (3) out of the quartz tube, Figure 4.
5. Remove the quartz seal compression nut (5) by turning it **counterclockwise,** Figure 5. Use a pair of channel-lock pliers if needed, Figure 6. You will notice that there is a stainless steel compression washer (4) which slides over the quartz tube, save the washer (4) for later use, Figure 7.

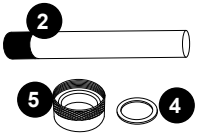


FIGURE 7

6. Now you are ready to clean or replace the quartz tube (2). For cleaning the quartz tube (2), follow steps 7 and 8 then proceed from step 9. For replacing quartz tube (2), skip steps 7 and 8 and proceed from step 9.
7. **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.

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

8. Rinse the quartz tube with clean water to completely remove any cleaning products that were used in step 7.
9. **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. 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.
10. Reinstall the compression washer (4) over the open end of the quartz tube (2).

11. Reinstall and hand tighten the quartz seal compression nut (5) by turning it **clockwise**.
12. Refill your spa.
13. **System Test 1:** Assure there is no water dripping from the seal compression nut (5). If water is visible, STOP and tighten the compression nut (5) 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 12. Make sure there is no water leaking before proceeding to step 14.
14. **System Test 2:** Reconnect the ClearRay unit 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 13. **Make sure there is no water visible. Turn the pump and breaker OFF BEFORE proceeding to step 15.**
15. Reconnect the UV bulb socket (7) to the power cord socket (11) make sure you use the latex glove provided when handling 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.

16. Slide the new UV bulb (3) back inside the quartz tube.
17. Reinstall the black bulb boot (6) back over the quartz seal compression nut (5).
18. Reinstall the enclosure cover (9) with gasket (8) and secure with the screws.
19. 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.

20. Once power is activated you can check the ballast (12), Figure 8, to see if the ClearRay System is functioning. It has two LED indicator lights, the green indicating incoming power flow and the red indicating the system is properly working.

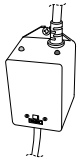


FIGURE 8

15.0 Error/Display Messages

There are a number of unique functions designed into your Jacuzzi spa to protect it from damage and/or to aid in troubleshooting. When this occurs the spa will notify you by showing the screen below, Figure 15.0a. A solid white light indicates that all operations are normal. A solid red light indicates that immediate attention is required to clear or fix an error code. Following is a listing of all the possible messages along with their meanings. **Always insist on genuine Jacuzzi replacement parts.**

Note: If you tap ⊗ the display will change to Figure 15.0b. The error icon ⚠ will remain on the screen as a reminder. If the error is not taken care of or fixed, the error display will reappear in 2 hours, Figure 15.0a.

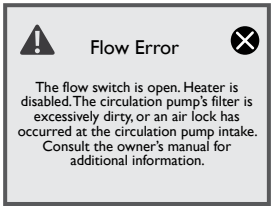


Figure 15.0a

Figure 15.0b

1. Open Flow Switch: (Heater is deactivated. The filter/circulation may also be deactivated.) The flow switch is open, the circulation pump's filter is excessively dirty or an air lock has occurred at the circulation pump intake. Consult the owner's manual for additional information.

2. Closed Flow Switch: (Heater is deactivated. The filter/circulation may also be deactivated.) The flow switch is malfunctioning closed. Contact your authorized dealer or service organization.

3. Flow Restriction: Heater is disabled, check for dirty filter. Consult the owner's manual for additional information.

Note: Make sure to clean the filter(s) and correct proper water level before contacting your dealer or service organization.

4. Shorted Hi-limit Temp Sensor: The hi-limit temperature sensor is not functional. Heater is disabled. This must be repaired only by a qualified authorized service organization or service technician.

5. Open Hi-limit Temp Sensor: The hi-limit temperature sensor is not functional. Heater is disabled. This must be repaired only by a qualified authorized service organization or service technician.

6. Shorted Water Temp Sensor: The temperature sensor is not functional. Heater is disabled. This must be repaired only by a qualified authorized service organization or service technician.

7. Open Water Temp Sensor: The temperature sensor is not functional. Heater is disabled. This must be repaired only by a qualified authorized service organization or service technician.

8. Closed Flow Switch on Start-up: Flow switch is non-functional. Closed or shorted flow switch on system start-up (system disabled). Contact your authorized dealer or service organization.

9. Frozen on Start-up: Flow switch is non-functional. Shorted flow switch on system start-up (system disabled) and freeze condition detected. Contact your authorized dealer or service organization.

10. Cool Warning: Spa water is more than 11°C/20°F cooler than the temperature set point, the circulation pump and heater will automatically activate to provide freeze protection. The spa will stay in this mode until the water temperature reaches 8°C/15°F below the set temperature. No corrective action is necessary.

Note: The heater icon will be blinking and the error icon ⚠ will be displayed under the temperature.

11. Freeze protection: A potential freeze condition has been detected. No action is required. Jets pump(s) operate until the spa is out of danger. No corrective action is necessary. If condition persists, contact your authorized dealer or service organization.

12. Overheat protection: **DO NOT ENTER THE WATER!** Spa water temperature is above acceptable limits. Heater is deactivated. Remove spa cover to speed cooling. Contact your authorized dealer or service organization.

Note:

- As a safety measure, the red lights of the spa will flash on and off as an indication that the spa is an overheat condition.
- The heater icon will be blinking and the error icon ⚠ will be displayed under the temperature.

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

13. Overheat protection: **DO NOT ENTER THE WATER!** Hi-limit temperature is above acceptable limits. Heater is deactivated. Remove spa cover to speed cooling. Contact your authorized dealer or service organization.

Note:

- As a safety measure, the red lights of the spa will flash on and off as an indication that the spa is an overheat condition.
- The heater icon will be blinking and the error icon ⚠ will be displayed under the temperature.

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

14. Watchdog Protection: **DO NOT ENTER SPA!** Spa water temperature is above acceptable limits. Your spa is deactivated. Remove spa cover to speed cooling. Contact your authorized dealer or service organization.

Note: The heater icon will be blinking and the error icon ⚠ will be displayed under the temperature.

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

15. Watchdog Protection: **DO NOT ENTER SPA!** Hi-limit temperature is above acceptable limits. Your spa is deactivated. Remove spa cover to speed cooling. Contact your authorized dealer or service organization.

Note: The heater icon will be blinking and the error icon ⚠ will be displayed under the temperature.

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

16. Watchdog Freeze Protection: Spa water is below 4.4°C/40°F. Jet pumps operate until the spa is out of danger. Contact your authorized dealer or service organization.

Note: The heater icon will be blinking and the error icon ⚠ will be displayed under the temperature.

17. Controller Overheat Protection: Controller temperature has exceeded acceptable limits. If condition persists, provide shade for equipment side of spa. Contact your authorized dealer or service organization.

Note: The heater icon will be blinking and the error icon ⚠ will be displayed under the temperature.

18. Panel Com Error: The topside controller is having trouble communicating to your spa. Contact your authorized dealer or service organization.

19. Stereo Com Error: The stereo is having trouble communicating to your spa. Contact your authorized dealer or service organization.

20. Wi-Fi Com Error: The Wi-Fi module is having trouble communicating to your spa. Contact your authorized dealer or service organization. Not applicable if the optional SmartTub® system is installed.

21. GFCI Trip Error: The spa has detected an unsafe condition and has tripped the GFCI circuit breaker. The condition was caused by excessive heat.

22. ClearRay Replacement Reminder: This message will appear when the ClearRay bulb reminder time has expired (Figure 15.0c). The ClearRay bulb must be replaced.

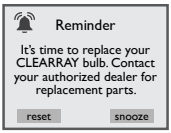


Figure 15.0c

23. ProClarity/ProClear Filter Reminder: This message will appear when the filter reminder time has expired (Figure 15.0d). Remove the ProClarity/Proclear filters and filter/debris bag for cleaning or replacement.

Figure 15.0d

24. ProClarity Depth Filter Reminder: This message will appear when the filter reminder time has expired (Figure 15.0e). The ProClarity Depth filter must be replaced.

Figure 15.0e

25. Water Refresh Reminder: This message will appear when the "Water Refresh" timer has expired (Figure 15.0f). The water needs to be drained and refilled with fresh water.

Figure 15.0f

26. Extended Temperature Activated: The spa is set to go up to 40°C (104°F), but it can be set to reach 41°C (106°F). To access the extended temperature you need press and hold your finger over the temperature reading for about 5 seconds. The temperature reading will start to blink to indicate the system is ready. Tap ⊕ to raise the temperature up to 41°C (106°F).

Note: The heater icon will be blinking to indicate that the feature is active.

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

16.0 Troubleshooting Procedures

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

PROBLEM	PROCEDURE
NONE OF THE COMPONENTS OPERATE (i.e. pump light)	Check the control panel lights. 1. If there are letters or symbols displayed on the screen, refer to the previous Section 15.0 to determine the meaning and action required. 2. If nothing appears on the screen: A. Check the household circuit breaker. B. Contact you dealer or authorized service center.
PUMP DOES NOT OPERATE	Activate the “JETS”: 1. If no sound is detected or if a “buzzing” sound is detected, turn off power to the spa and contact your dealer or service center. 2. If motor operates but no water flows to jets: A. Pump may not be properly primed. See instructions below. B. Contact dealer or authorized service center.
AIR LOCK	Purge “air lock” from circulation pump intake by removing filter cartridge. Hold your garden hose over the filter cartridge wall fitting while using a rag as a seal around hose end. Ask a helper to turn on water for 30 seconds, then turn off. Reinstall filter cartridge and check spa.

Pump Priming Instructions:

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

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

CAUTION: If freezing conditions exist and pump is not operational, take measures to protect the system from freeze damage. See Section 13.8 titled “Winterizing” (page 64).

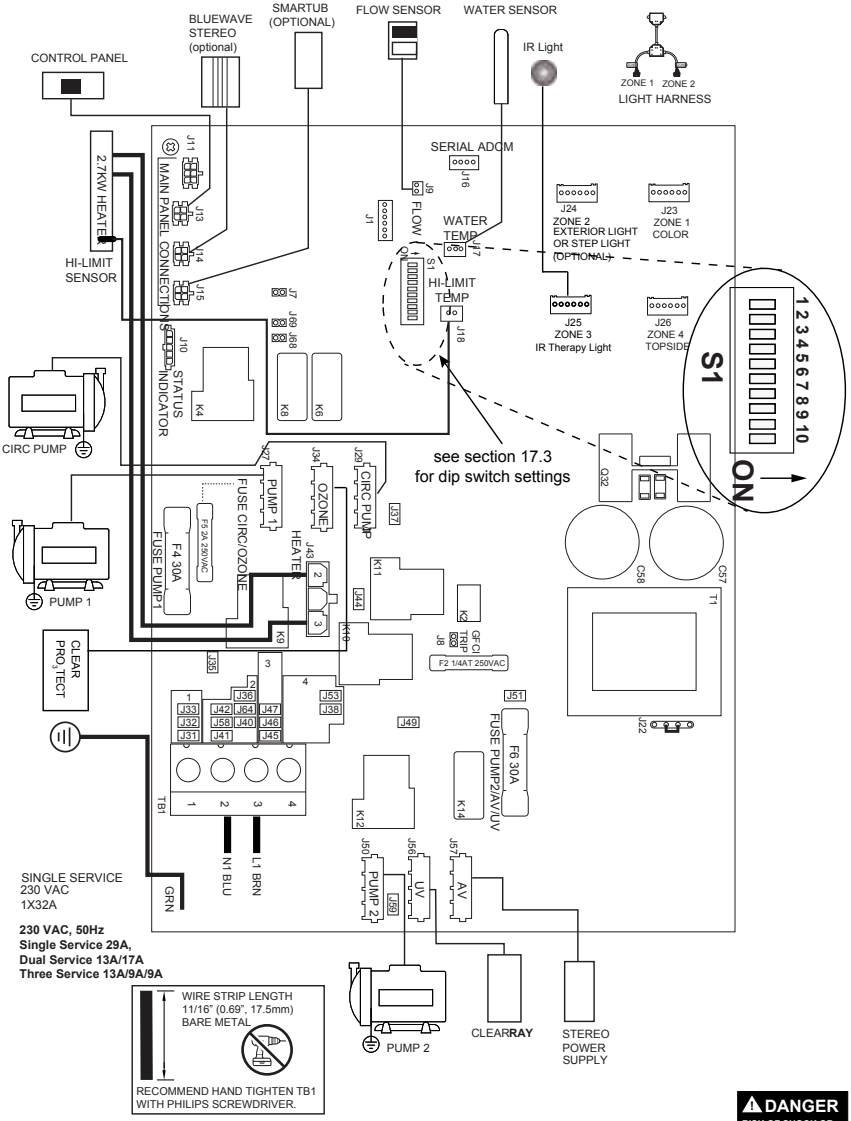
POOR JET ACTION	1. Make certain the jets pump is turned on. 2. Check position of massage selectors. 3. Open air control for selected jet system. 4. Check for adequate water level. 5. Check for dirty filter (page 58).
WATER IS TOO HOT	1. Reduce thermostat setting. 2. Switch hot tub to “Econo” mode to turn heater on only during pre-programmed time (page 48). 3. Make sure the pumps are turned off and not constantly running.
NO HEAT	1. Check thermostat setting. 2. Keep the cover in place while heating. 3. If heater indicator is displayed, but no temperature increase is experienced after a reasonable period of time, contact your dealer or authorized service center.
FILTER/CIRCULATION PUMP OFF	1. Verify filter/circulation pump is programmed to run (page 49). 2. Make sure there are no errors preventing the pump from turning on. 3. Hot tub water is warmer than 34°C (95°F) and 1°C (2°F) warmer than the set temperature. The “Summer Logic” safety feature has activated. See note on page 50 for details.

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

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

17.0 Circuit Board Wiring Diagrams

17.1 Export 50Hz Wiring Diagram

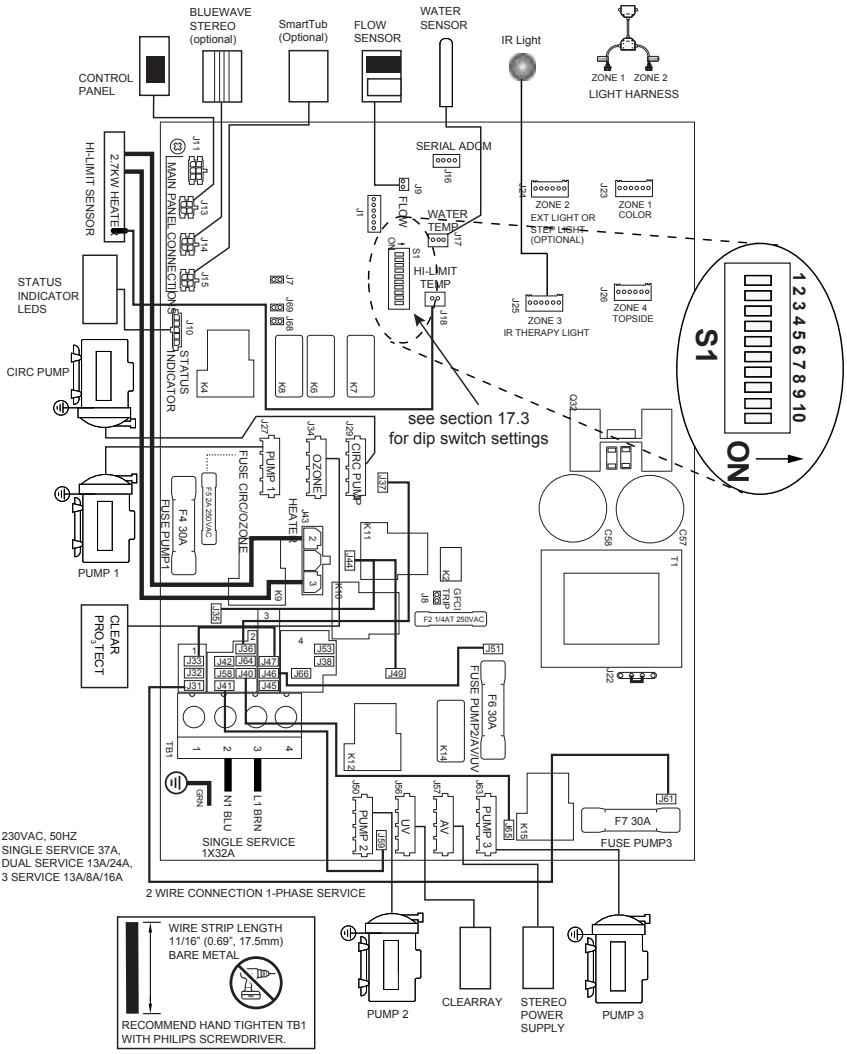


DANGER

RISK OF SHOCK OR ELECTROCUTION!

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

17.2 J495 Export 50Hz Wiring Diagram

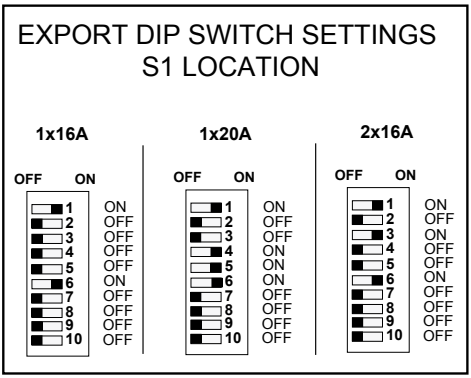


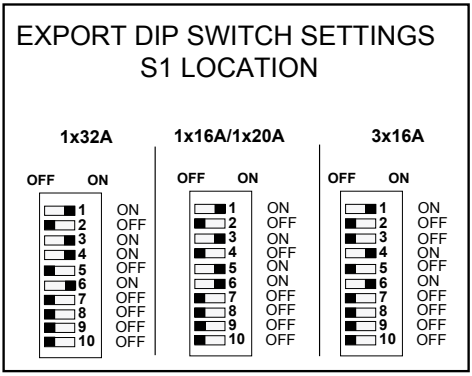
⚠ DANGER
RISK OF SHOCK OR ELECTROCUTION!

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

17.3 Dip Switch Settings

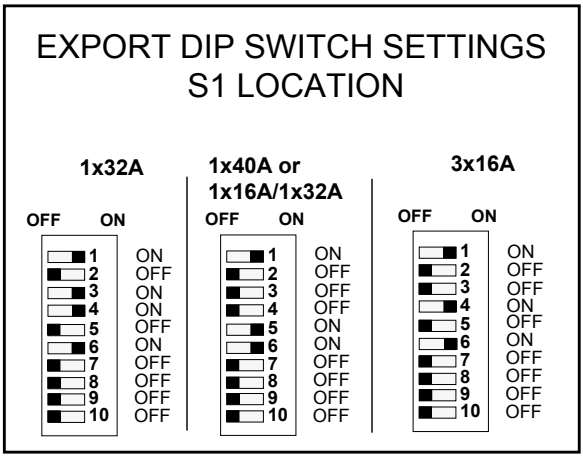
A. **The dip switches are at the S1 location on the board (J435-J485).**





BREAKER	DIP SWITCH NUMBER									
	1	2	3	4	5	6	7	8	9	10
1x16A	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
1x20A	ON	OFF	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
2x16A	ON	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
1x32A*	ON	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
1x16A/1x20A	ON	OFF	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
3x16A	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
*1x32A is the factory default setting										
Dip Switch #6 must be ON for the IR Therapy Lights										

B. **The dip switches are at the S1 location on the board (J495).**



BREAKER	DIP SWITCH NUMBER									
	1	2	3	4	5	6	7	8	9	10
1x32A*	ON	OFF	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
1x40A or 1x16A/1x32A	ON	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
3x16A	ON	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
*1x32A is the factory default setting										
Dip Switch #6 must be ON for the IR Therapy Lights										

C. **Configuration settings for J435-J485 Models**

Single Service (default setting):

1x20A This setting will turn the heater off any time either one of the pumps are activated on two pump models.

1x32A This setting is for all two pump model spas. Both pumps and the heater will be allowed to operate at the same time.

Dual Service:

1x16A/1x20A This setting is for all two pump model spas. Both pumps and the heater will be allowed to operate at the same time.

Three Phase Service:

3x16A This setting is for all two pump model spas. Both pumps and the heater will be allowed to operate at the same time.

D. **Configuration settings for J495 Models**

Single Service (default setting):

1x32A This setting will allow the heater to operate when two jets pumps are activated. If all three pumps are activated the heater will shut off.

1x40A All three jets pumps and the heater will be allowed to operate at the same time.

Dual Service:

1x16A/1x32A All three jets pumps and the heater will be allowed to operate at the same time.

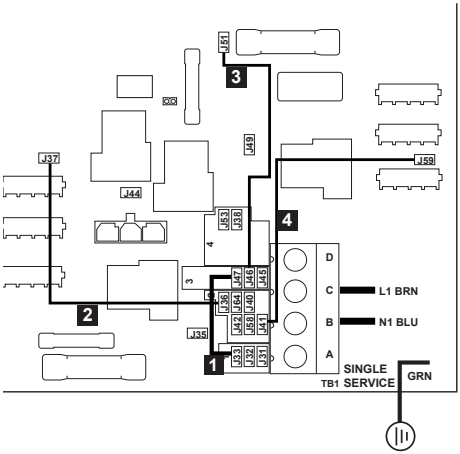
Three Phase Service:

3x16A All three jets pumps and the heater will be allowed to operate at the same time.

17.4 Single Service 50Hz Connection

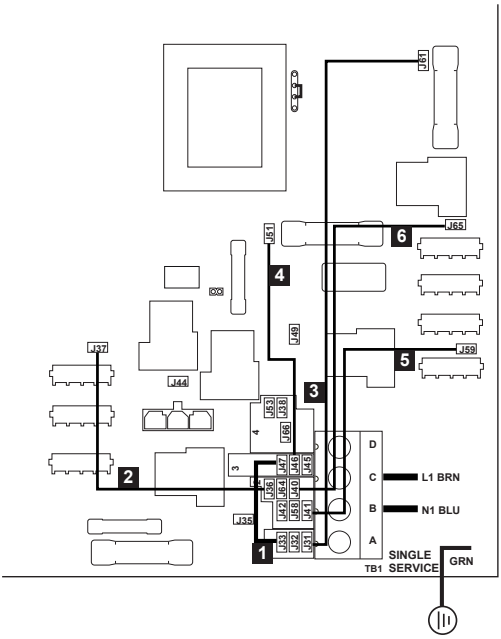
Wiring for export models with a single service breaker. The jumper wiring is shown below. The White wire (1*) **must** be installed. **This is the factory default.**

J435 to J485 Single Service Jumper Wiring		
Wire	From	To
1*	J33	J47
2	J37	J36
3	J46	J51
4	J59	J41
*Installed white wire at these jumpers		



BREAKER TERMINAL CONNECTIONS
L1 = All Components

Single Service Jumper Wiring		
Wire	From	To
1*	J33	J47
2	J37	J36
3	J31	J61
4	J46	J51
5	J59	J41
6	J65	J40
*Installed white wire at these jumpers		



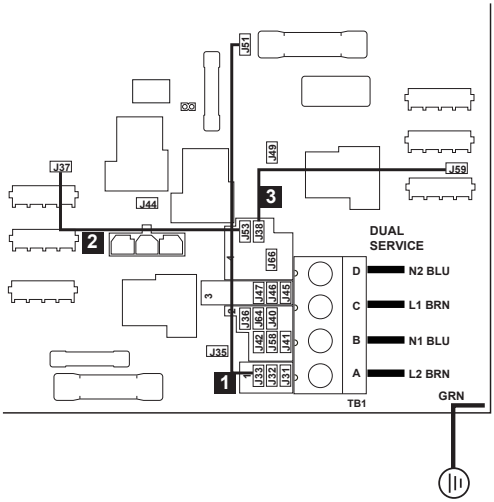
BREAKER TERMINAL CONNECTIONS
L1 = All components

17.5 Dual Service 50Hz Connection

Wiring for export models with dual service breakers. The jumper wiring is shown below.

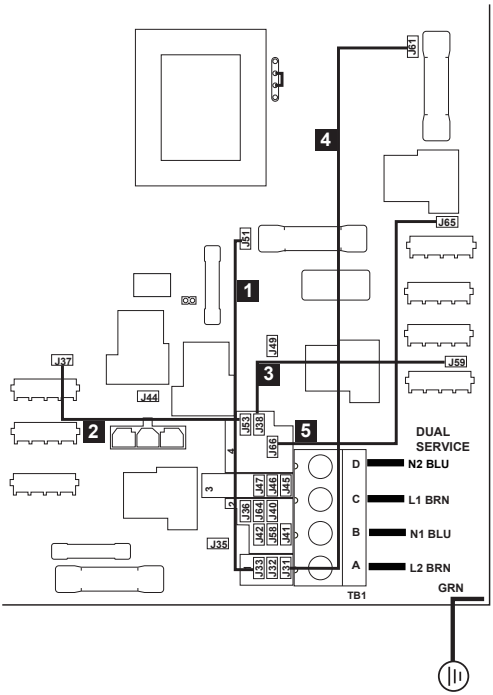
J435 to J485 Two Service Jumper Wiring		
Wire	From	To
remove jumper at J33-J47		
1	J33	J51
2	J37	J53
3	J59	J38

BREAKER TERMINAL CONNECTIONS
L1 = Heater and transformer
L2 = All other components



J495 Two Service Jumper Wiring		
Wire	From	To
remove jumper at J33-J47		
1	J33	J51
2	J37	J53
3	J59	J38
4	J61	J31
5	J66	J65

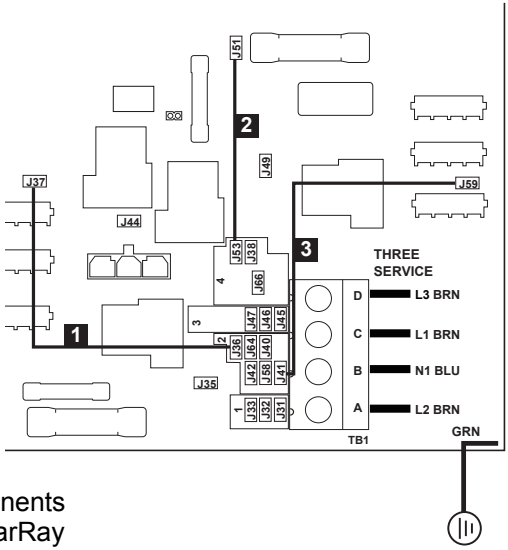
BREAKER TERMINAL CONNECTIONS
L1 = Heater and transformer
L2 = All other components



17.6 Three Service 50Hz Connection

Wiring for export models with three service breakers. The jumper wiring is shown below.

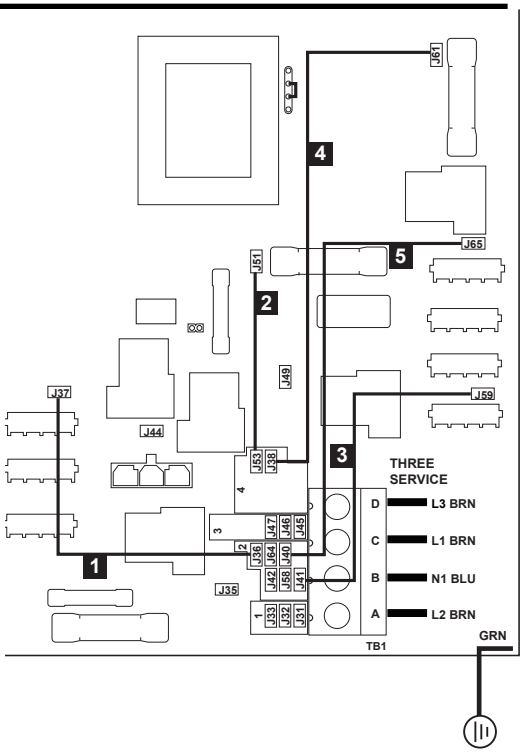
J435 to J485 Three Service Jumper Wiring		
Wire	From	To
remove jumper at J33-J47		
1	J37	J36
2	J53	J51
3	J59	J41



BREAKER TERMINAL CONNECTIONS

L1 = Heater and transformer
L2 = Pump 1 and other components
L3 = Pump 2, Stereo, and ClearRay

J495 Three Service Jumper Wiring		
Wire	From	To
remove jumper at J33-J47		
1	J37	J36
2	J53	J51
3	J59	J41
4	J61	J38
5	J65	J40



BREAKER TERMINAL CONNECTIONS

L1 = Heater and transformer
L2 = Pump 1 and other components
L3 = Pump 2, Stereo, ClearRay, and Pump 3