



• J-280™

• J-275™

• J-245™

• J-235™

• J-225™

• J-215™

J-200™ COLLECTION
OWNER'S MANUAL

2530-277J Rev B

Attention New Spa Owner!

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

Automated Operations

Blow out cycle: Before each filter cycle, pump 2 will activate to clear out the plumbing lines.

Clean up cycle: Begins 30 minutes after a pump is turned off or it has timed out. Pump 1 (low speed) and the CLEARRAY Active Oxygen™ system turn on and run for 30 minutes.

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 spas filter as outlined below to ensure healthy spa water. Refer page 48 "Water Quality Maintenance" for additional information.

Required Filter Maintenance

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

Required Water Replacement



TO DECREASE RISK OF INFECTION OR DISEASE! You should replace the spa's water every 3 months. The frequency depends on a number of variables including frequency of use, number of users, and attention paid to water quality maintenance. You will know it is time for a change when you cannot control sudsing and/or you can no longer get the normal feel or sparkle to the water, even though the key water balance measurements are all within the proper parameters. See page 48 for additional information.

***** Spa operation/features subject to change without notice *****

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1.0 Important Spa Owner Information

Your Jacuzzi J-200 Collection spa is constructed to the highest standards and is capable of providing many years of trouble-free use. However, because heat retentive materials are utilized to insulate the spa for efficient operation, an uncovered spa surface and wall fittings directly exposed to sunlight and high temperatures for an extended period are subject to permanent damage. Damage caused by exposing the spa to this abuse is not covered under warranty. We recommend that you always keep the spa full of water when it is exposed to direct sunlight and that you keep the Jacuzzi premium insulating cover in place at all times when the spa is not in use. Read and carefully follow the requirements for your spa's support base found in Section 4.0 titled, "Choosing A Location" (page 58).

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

2.0 FCC Notice


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


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


3.0 Important Safety Instructions for all Spa Owners

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY!

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

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


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

3.  **DANGER: RISK OF SEVERE INJURY FROM ELECTRIC SHOCK OR DEATH FROM ELECTROCUTION!**
 - Install the spa at least 5 feet (1.5m), from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected (bonded) by a minimum No. 8 AWG (8.4 mm²) solid copper conductor attached to the wire connector on the grounding lug, inside the equipment compartment on the equipment box.


- A grounding wire connector is provided on this unit to connect a minimum No. 8 AWG (8.4 mm²) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5m) of the unit.
- Never permit any electrical appliance, such as a light, telephone, radio, television, etc. within 5 feet (1.5m) of a spa unless such appliances are built-in by the manufacturer.
- Never bring any electrical appliances into or near the spa.
- Never operate any electrical appliances from inside the spa or when you are wet.
- The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code/USA, ANSI/NFPA 70. The disconnecting means must be readily accessible and visible to the spa occupant but installed at least 5 feet (1.5m), from the spa.
- The electrical circuit supplied for the hot tub must include a suitable ground fault circuit interrupter (GFCI) as required by NEC Article 680-42.


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


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



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

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

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

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

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

9.  **WARNING:** In addition to maintenance of filters and water chemistry, proper ventilation is recommended to reduce the risk of contracting a waterborne illness (e.g., an infection, bacteria or virus) and/or respiratory ailments that could be present in the air or water. Consult a licensed architect or building contractor to determine your specific needs if installing your hot tub indoors.
10. **CAUTION: TO DECREASE RISK OF PRODUCT DAMAGE.**
- Maintain water chemistry in accordance with manufacturer's instructions.
 - Proper chemical maintenance of spa water is necessary to maintain safe water and prevent possible damage to spa components.
11.  **WARNING: RISK OF SEVERE INJURY OR DEATH!** The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
12. **NOTE:** This spa is not intended nor designed to be used in a commercial or public application. The spa buyer shall determine whether there are any code restrictions on the use or installation of this spa since local code requirements vary from one locality to another.

Hot Tub Safety Literature

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

FOR CALIFORNIA RESIDENTS ONLY
 NUR FÜR EINWOHNER KALIFORNIENS
 POUR LES RÉSIDENTS DE LA CALIFORNIE SEULEMENT
 PARA RESIDENTES DE CALIFORNIA ÚNICAMENTE



WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.p65Warnings.ca.gov/wood



ACHTUNG: Das Bohren, Sägen, Schleifen oder Zerspanen von Holzprodukten kann Stäube freisetzen. Diese Substanz gilt im US-Bundesstaat Kalifornien als krebserregend. Möglichst keinen Holzstaub einatmen bzw. eine Staubmaske oder anderweitige persönliche Schutzmaßnahmen einsetzen. Weitere Informationen finden Sie auf www.P65Warnings.ca.gov/wood



AVERTISSEMENT: Le forage, le sciage, le ponçage ou l'usage des produits du bois peuvent vous exposer à la poussière de bois, une substance connue dans l'État de Californie pour causer le cancer. Éviter d'inhaler la poussière de bois ou utiliser un masque antipoussières ou d'autres mesures de protection personnelle. Pour de plus amples renseignements, consulter le site www.P65Warnings.ca.gov/wood



ADVERTENCIA: Perforar, cortar, lijar o usar máquinas con productos de madera le puede exponer a polvo de madera, una sustancia reconocida por el Estado de California como causante de cáncer. Evite inhalar polvo de madera o utilice una máscara antipolvo u otros resguardos para protección personal. Para más información, visite www.P65Warnings.ca.gov/wood

6530-460 Rev A (12/18)

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



ACHTUNG: Krebserregend und mit fortpflanzungsschädigender Wirkung-www.p65Warnings.ca.gov



AVERTISSEMENT: Cancer et danger pour la reproduction
www.p65Warnings.ca.gov




ADVERTENCIA: Cáncer y daño reproductivo
www.p65Warnings.ca.gov

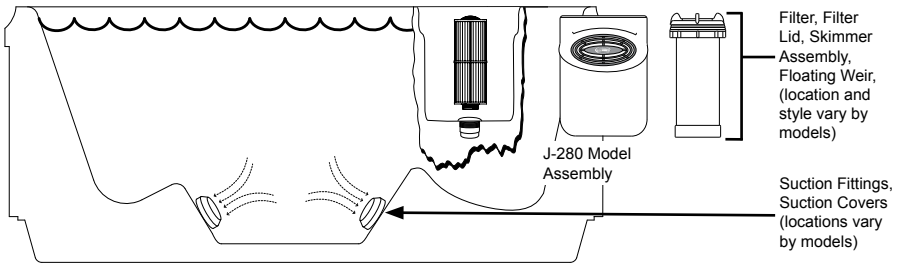
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3.1 Entrapment Risk


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





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





Note: Suction covers must be replaced every 7 years.

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

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

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

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

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

3.2 Hyperthermia

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

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6°F (37°C). The symptoms of hyperthermia include drowsiness, lethargy (fatigue), and an increase in the internal temperature of the body. 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 \oplus 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. In doubt, refer to the building authority responsible for approving the proposed installation site.

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



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

4.1 Outdoor Location

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

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

4.2 Indoor Location

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



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

- **Proper Foundation: Consult a Structural Engineer when considering a foundation that will adequately support the spa the entire time it is in place.** Proper support is critical especially if the spa is to rest on a second story or higher. For spas that are to rest on balconies, roofs or other platforms not specifically tied into the main structural support, you should consult a professional Structural Engineer with experience in this type of application.

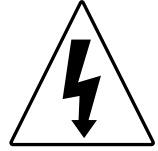
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- **Proper Drainage: It is extremely important to have in place measures to sufficiently handle excessive water spillage.** Be sure the flooring in which the spa rests on has adequate drainage and can handle the entire contents of the spa. Be sure to make provisions for ceilings and other structures that may be below the spa's installation. Areas around your spa can become wet or moist so all flooring and subsequent furniture, walls and adjacent structures should be able to withstand or resist water and moisture.
- **Proper Ventilation: Proper ventilation should be discussed with an Engineer or authority competent enough to understand the necessary provisions needed to vent moist or heated air and air associated with chemical odors outdoors.** When the spa is in use considerable amounts of moisture will escape, potentially causing mold and mildew over time which can damage certain surfaces and/or surroundings.
- **Sufficient Access:** In the unlikely event that you should ever need to access or gain entry to any portion of the spa for servicing, it is highly recommended that you plan your indoor installation to provide full access to the entire spa.
- **Warranty:** Damage caused by not following these guidelines or any improper installation not in accordance to local codes or authorities is not covered under the spas warranty. Please consult your local state or city building ordinances.
- **Do not shim the spa.** To ensure proper support the spa must sit flat on the intended foundation.

5.0 General Electrical Safety Instructions

Your new Jacuzzi spa is equipped with a “state-of-the-art” equipment system. It contains the most advanced safety and self-protective equipment in the industry.

Nonetheless, this spa must be installed properly to insure dependable usage. Please contact your dealer or local building department should you have any questions regarding your installation.



Proper grounding is extremely important. Jacuzzi spas are equipped with a current collector system. A pressure wire connector is provided on the surface of the control box, located outside the equipment door (page 17) to permit connection of a bonding wire between this point and any ground metal equipment, metal water pipe or conduit within 5 feet (1.5m) of the spa, or copper clad grounding rod buried within 5 feet (1.5m) of the spa. Bonding wire must be at least No. 8 AWG (8.4 mm²) solid copper wire. This is a most important safety assurance feature. Before installing this spa, check with the local building department to insure installation conforms to local building codes.

120/240 Volt Convertible Models

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

6.0 Power Requirements

Jacuzzi spas are designed to provide optimum performance and flexibility of use when connected to the maximum electrical service listed below. Minor circuit board modifications can be performed to allow your new spa to accept an electrical service other than the factory operation setting. The electrical wiring of this spa must meet the requirements of the National Electrical Code/USA (NEC) and/or any applicable state or local codes. We recommend using a Square D breaker.

Note: Refer to pages 58-61 for circuit board configuration details or contact your authorized Jacuzzi dealer.

North American J-215/J-225 Convertible Models (60 Hz)

| | <u>120V/15A*</u> | <u>240V/30A*</u> | <u>240V/40A**</u> |
|------------------|----------------------------|--------------------|--------------------|
| Circuit Breaker: | 15A, 1-Pole | 30A, 2-Pole | 40A, 2-Pole |
| Number of Wires: | 3 (15A GFCI Cord US Only*) | 4 (Hard Wire Only) | 4 (Hard Wire Only) |
| Frequency: | 60 Hz | 60 Hz | 60 Hz |
| Current Draw: | 12A | 20A | 31A |

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

** In 40A configuration, the heater **will operate** while the jets pump is running in high speed.

****CAUTION: (For a 4-wire 240 VAC Heater Operation):** Make certain wires are connected exactly as shown in Figure D (page 18) before applying power. Failure to do so will result in damage to the circuit board and/or related components and void the manufacturer's warranty.

North American J-235/J-245/J-275/J-280 Models (60 Hz)

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

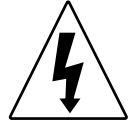
* In 40A configuration, the heater **will not operate** while either jets pump is running in high speed. ***Note: pump 2 runs only in high speed.***

** In 50A configuration, the heater **will not operate** while both jets pumps are running in high speed. **This is the factory setting.** ***Note: pump 2 runs only in high speed.***


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

7.0 Electrical Wiring Instructions

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



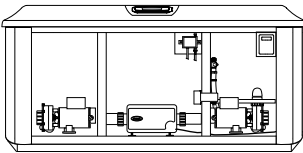
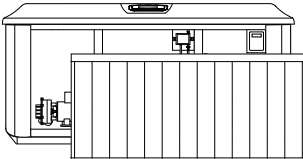
1. Convertible 120/240V Power Models:

-  **DANGER: TO DECREASE THE RISK OF SHOCK, PRODUCT DAMAGE OR ELECTRICAL FIRE.**
 - 120V “Plug-in” Operation:** This spa must operate on the supplied 120V GFCI cord at its original length or must be hard-wired for longer runs. **NEVER USE AN EXTENSION CORD FOR ANY REASON!**
 - Convertible 120/240V heater Operation:** The included 120V GFCI cord must be discarded for 240V heater operation. This spa must be hard wired. Supplying power to either configuration above which is not in accordance with these instructions will void both the independent testing agency listing and the manufacturer’s warranty.
- 2. **Dedicated 230V-240V models must be permanently connected (hard-wired) to the power supply.** No plug-in connections or extension cords are to be used in conjunction with the operation of this spa. Supplying power to the spa which is not in accordance with these instructions will void both the independent testing agency listing and the manufacturer’s warranty.
- 3. The power supplied to this spa must be a dedicated circuit with no other appliances or lights sharing the power provided by the circuit.
- 4. To determine the current, voltage and wire size required, refer to Section 6.0 “Power Requirements” (page 14).
 - Wire size must be appropriate per NEC/USA and/or local codes.
 - The spa controller’s terminal block will accept a maximum wire size of 6 AWG.
- 5. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code/USA, ANSI/NFPA 70. The disconnecting means must be readily accessible to the spa’s occupant but installed at least 5 feet (1.5m) from spa water.
- 6. The electrical circuit supplied for the spa must include a suitable ground fault circuit interrupter (GFCI) as required by NEC/USA Article 680-42.
- 7. 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.

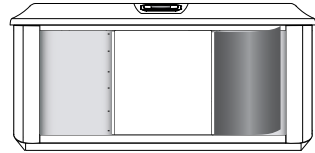
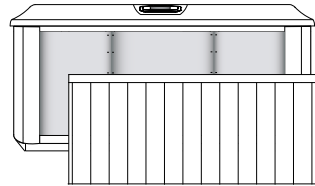
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- 8a. **For Foam fill or FlexFill models:** To gain access to the spa's power terminal block, remove the screws securing the cabinet panel on the side of the spa under the control panel. Then remove the control box door screws and door.
- 8b. **For models with the optional insulation panels:** Gently remove the vapor barrier from the center section and fold it back. Remove the insulation panel and place it in a safe location.
9. Feed power cable to control box (Figure B), then install it through the large opening provided in the bottom side of the box.
10. Connect wires to the terminal block TB1 (Figure C, page 17). **TIGHTEN SECURELY!** All wires must be hooked up securely or damage could result.
11. Re-install control box door and screws, insulation panel (if equipped), secure the insulation blanket (if equipped), and reinstall the cabinet side panels.

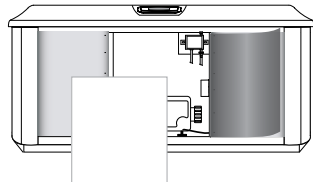
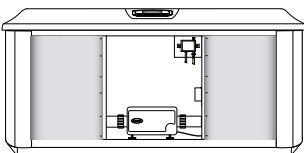
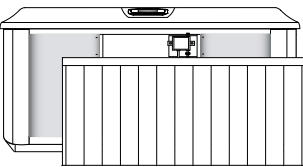
For Foam Fill Models



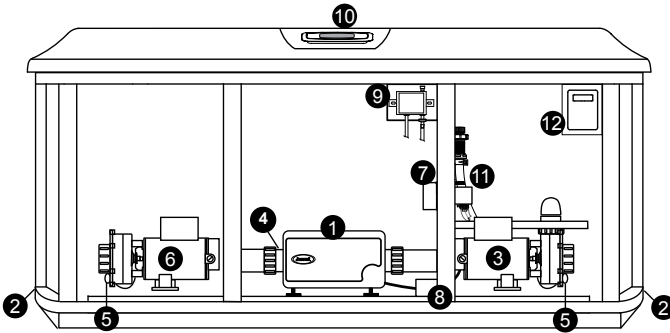
Models with Insulation Panels (if equipped)



For Flex Fill Models (if equipped)



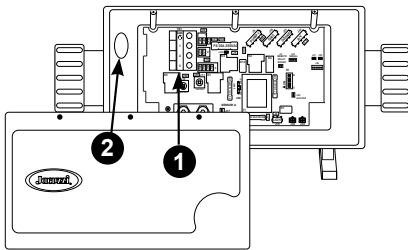
**Figure A
Equipment Area**



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

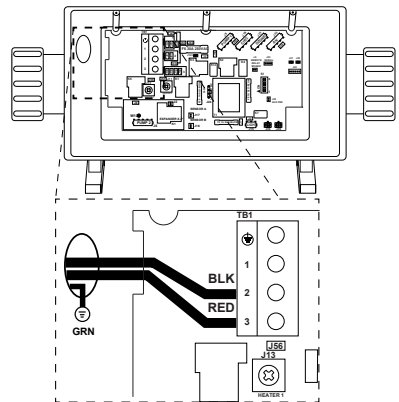
- | | |
|--------------------------|-------------------------------|
| 1. Control Box | 8. CLEARRAY Ballast |
| 2. Power Supply Inlet(s) | 9. Ozone |
| 3. 2-Speed Pump | 10. Control Panel |
| 4. Heater | 11. Drain |
| 5. Pump Drain Plug(s) | 12. Optional SmartTub® System |
| 6. 1-Speed Pump | |
| 7. CLEARRAY® Unit | |


Figure B Control Box




1. Main Terminal
2. Power wires entrance (electrical fitting and conduit must be installed)

**Figure C Connections
(North American 60 Hz
240 VAC Connection Models)**





WIRE STRIP LENGTH
1 1/16" (0.69", 17.5mm)
BARE METAL



HAND TIGHTEN WITH PHILIPS SCREWDRIVER.

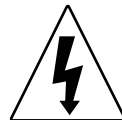
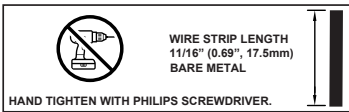
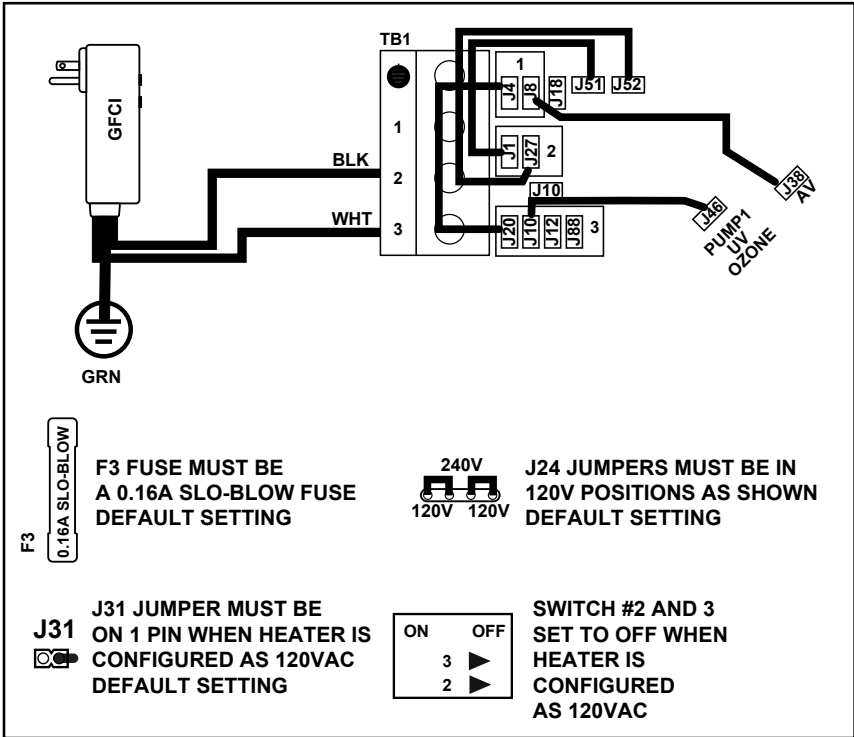


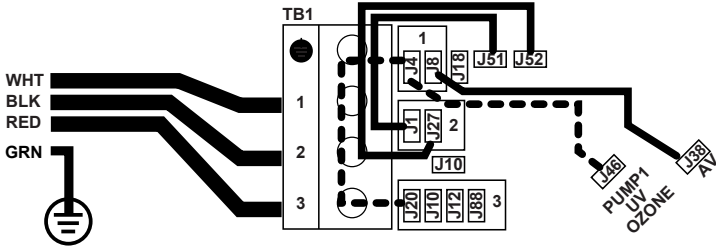
Figure D
 (North American 60 Hz
 120/240 VAC Convertible Models)

A. 120V 3-Wire Connection (convertible models)



B. 240V 4-Wire Connection (convertible models)

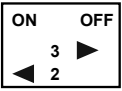
1. TB1 MUST BE WIRED WHT-1, BLK-2, RED-3
2. REMOVE JUMPER WIRE BETWEEN J4 AND J20. FAILURE TO DO SO WILL RESULT IN DAMAGE TO THE PWA.
3. MOVE J46 WIRE FROM AREA 3 TO AREA 1
4. CHANGE F3 FUSE TO 0.1A SLO-BLOW
5. REMOVE 1 JUMPER FROM J24, PLACE REMAINING JUMPER ON PINS 2 AND 3.
6. PUT J31 JUMPER ON 2 PINS



F3
0.1A SLO-BLOW
F3 FUSE MUST BE REPLACED BY A 0.1A SLO-BLOW FUSE (SUPPLIED WITH PACK)

J24
240V
120V 120V
J24 JUMPERS MUST BE IN 240V POSITION AS SHOWN

J31
J31 JUMPER MUST BE ON 2 PINS WHEN HEATER IS CONFIGURED AS 240VAC



SWITCH #2
SET TO ON WHEN HEATER IS CONFIGURED AS 240VAC

WIRE STRIP LENGTH
11/16" (0.69", 17.5mm)
BARE METAL

HAND TIGHTEN WITH PHILIPS SCREWDRIVER.

8.0 Spa Fill Up Procedure

For best results, read each step in its entirety before proceeding with that step. Make sure all drains are closed before you begin, page 44.

IMPORTANT NOTE: The drain assembly will be located in the equipment bay and must be installed prior to filling the spa.



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 inlet to fill, remove filter cover, then remove filter cartridge as outlined in Section 12.1 (page 41).

IMPORTANT: In most cases, filling the spa by placing the hose in the footwell will not create an airlock. If you experience an airlock, we recommend filling by placing the end of your garden hose into the primary filter inlet, page 41.

2. Fill Spa

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



-  **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!)

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.

3. Turn on Power (Priming Mode)

- Turn on power to spa at the home’s circuit breaker to start the priming of the pumps.
- After power is applied, the control panel displays a sequence of configuration settings.
- Then it will display the following: “**RUN, PMPS, PURG, AIR, - - - - -**.” This cycle will last about 4-5 minutes.
- To begin the Priming Mode, press the Jets 1 button twice to activate high speed. If you have a two-pump system, press the Jets 2 button to turn the pump on.

- After the cycle ends, the display briefly shows the set temperature. Then it displays  or . After a minute, the actual water temperature will be displayed. You can manually turn the pumps off after the temperature is displayed.

Note: You can skip the Priming Mode by pressing either the Up or Down button. This is not recommended.

4. **Activate Jets Pumps**

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



5. **Add Start-Up Chemicals**

Add the spa water chemicals as recommended by your authorized Jacuzzi dealer. See Section 13.0 “Water Quality Maintenance” (page 48) for general guidance.



WARNING: RISK OF POISONING OR DEATH.

Never leave chemicals opened and accessible to anyone. Use chemicals according to the vendors instructions. Always store chemicals in a safe and/or locked location. Keep away from and out of reach of children.





6. **Establish A Stable Sanitizer Reading**

Establish a stable sanitizer reading of no less than 1.0 ppm free chlorine or 2.0 ppm bromine. To ensure healthy water conditions, always maintain a constant sanitizer reading within the levels recommended on the inside cover of this manual.

7. **Set Spa To Heat**

To warm spa water to a comfortable temperature, follow these steps:



- The LCD display on the control panel displays the actual temperature of the spa water. Press either the **COOLER** () or **WARMER** () button once to display the “set” temperature. If you want the water to heat to a different temperature, simply press **COOLER** () or **WARMER** () within 5 seconds. The set temperature increases or decreases by 1°F (0.5°C) each time one of these buttons is pressed.
- The heater will turn off when the temperature corresponding to the thermostat setting is achieved.

Important Heater Details:

- The maximum water temperature setting for your spa is 104°F (40°C) and the minimum setting is 65°F (18.5°C).
- For North America spas connected to a 40-amp service, jets pump #1 must be set to low speed and jets pump #2 must be turned off to operate the heater.
- Setting the thermostat at maximum will not accelerate the heating process. This will only result in a higher ultimate temperature.
- The heater operates until the water reaches 1°F (0.5°C) above the programmed “set temperature,” then turns off. The heater will reactivate after the water cools to approximately 1°F (0.5°C) below the “set temperature.”

8. Place Cover On Spa

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



DANGER: RISK OF PERSONAL INJURY.

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

Decontamination Procedure (Steps 9-15)

Steps 9-15 below are only required when sanitizer levels are unstable after performing steps 1-6 above. Disregard steps 9-15 below if sanitizer levels remain stable after performing steps 1-6 above (refer to the inside cover of the manual).

Note: The “decontamination procedure” steps 9-15 should also be used after the spa has been “Winterized” (Section 12.7, page 46) or has been sitting without power for an extended period.

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



CAUTION: RISK OF PERSONAL INJURY OR SPA DAMAGE!

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

Water Fill Volume by Model

| Model | Average Fill Volume* | Sodium Dichlor |
|-------|----------------------|----------------|
| J-280 | 460 Gal (1,741 L) | 12.0 oz |
| J-275 | 420 Gal (1,590 L) | 10.5 oz |
| J-245 | 360 Gal (1,363 L) | 9.0 oz |
| J-235 | 360 Gal (1,363 L) | 9.0 oz |
| J-225 | 354 Gal (1,340 L) | 9.0 oz |
| J-215 | 220 Gal (833 L) | 5.5 oz |

*Use average fill volume for chemical maintenance

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

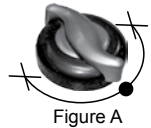


Figure A



Air Control

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



WARNING: RISK OF PERSONAL INJURY!

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

11. Turn off power to the spa at the circuit breaker, then drain spa as outlined in Section 12.2 “Draining And Refilling” (page 44).
12. Fill spa until water covers all jets but does not touch the bottom of the lowest headrest. DO NOT OVERFILL.

CAUTION: TO DECREASE BUILD UP ON COMPONENTS AND MINIMIZE ACRYLIC DAMAGE.

Never fill with water from a water softener. If your water is extremely “hard,” it is preferable to fill half-way with hard water and the rest of the way with softened water. Water that is too soft can be corrosive to metal components.

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13. Consult your authorized Jacuzzi dealer for chemical recommendations, then add chemicals to hot tub water to achieve a constant sanitizer reading within the levels recommended on the inside cover of this manual.
14. Turn on all jet pumps when adding chemicals to ensure proper mixing and leave your hot tub cover open until the sanitizer level becomes stable to protect pillows and plastic knobs from chemical attack. Refer to the inside cover of the manual.



WARNING: RISK OF PERSONAL INJURY.

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

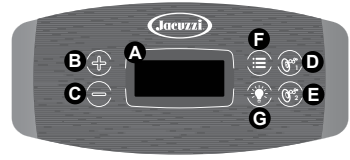
15. Establish a sanitizer reading no less than 1.0 ppm free chlorine or 2.0 ppm bromine, then allow the hot tub to set undisturbed for 8 hours. Retest water after 8 hours to determine if sanitizer levels are stable. If sanitizer levels are stable, your spa is ready for use. To ensure healthy water conditions, always maintain a constant sanitizer reading within the levels recommended on the inside cover of this manual. If sanitizer levels are not stable at this time, it will be necessary to repeat this procedure in its entirety (steps 1-15) until stable sanitizer readings are achieved.

IMPORTANT: If the CLEARRAY 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 Control Functions






9.1 Control Panel Buttons






2-pump control panel shown

- A. **LCD Display:** Can display current water temperature (default display), water temperature set point, selected menu functions, and error messages.
- B. **Warmer Button ():** Increases water temperature set point. Increments of 1°F or 0.5°C.
- C. **Cooler Button ():** Decreases water temperature set point. Increments of 1°F or 0.5°C.
- D. **Jets 1 Button ():** Turns jets pump #1 on and off. Press once for low speed; press a second time for high speed; press a third time to turn pump off.
- E. **Jets 2 Button ():** Turns high-speed jets pump #2 on and off. Press once to turn pump #2 on; press a second time to turn pump #2 off.
- F. **Menu Button ():** Allows access to the programming menus.
- G. **Light Button ():** Turns underwater light (if equipped) and accent lights (if equipped) on in one of three random modes or one of seven solid colors. Refer to Section 10.3 (page 29) for details.

9.2 Control Panel Display Icons

- A.  **(Heat icon):** Displayed when the heater is on. Flashing while the heater adjusts to temperature changes.
- B. **R (Ready Mode icon):** Allows the hot tub to heat to a set temperature.
- C.  **(Rest Mode icon):** Allows the hot tub to heat only during a filtration cycle. The spa will reach to a set temperature only in a filtration.
- D.  **(Light icon):** Displays when the lights are on.
- E.  **(Cleanup Cycle icon):** Displays when a cleanup cycle is active, page 31.
- F.  **(Jets 1 icon):** Displays when Jets pump 1 is on. Press once for low speed; press again for high speed. The pump activates for 20-minute then turns off.

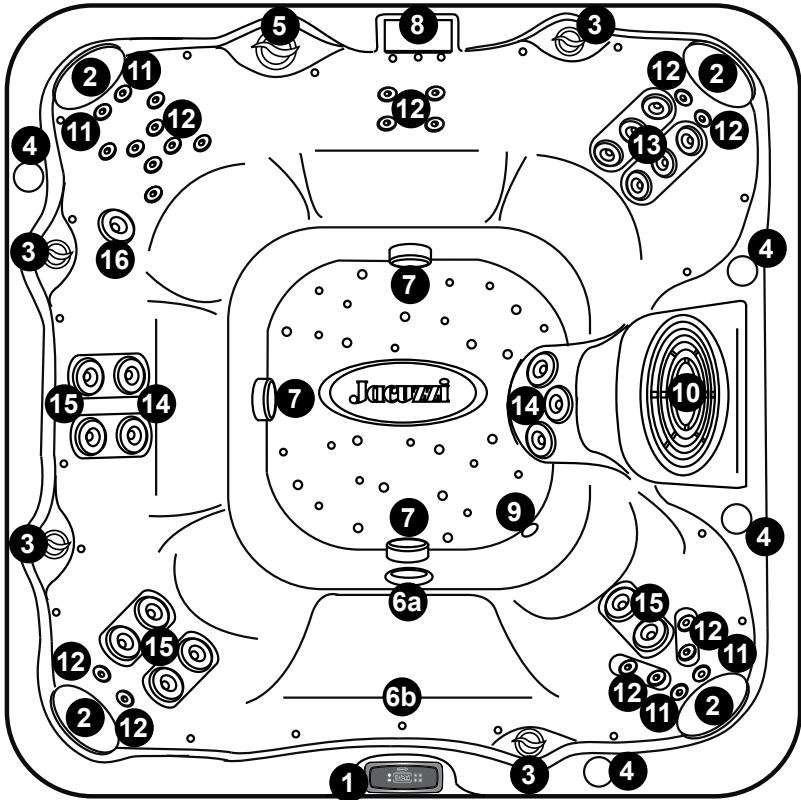
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- G.  (**Jets 2 icon**): Displays when Jets pump 2 is on. The pump activates for 20-minute then turns off.
- H.  **(Temperature High Range icon)**: Indicates that the spa is set to high range temperature between 80°F (26.5°C) and 104°F (40°C).
- I.  **(Temperature Low Range icon)**: Indicates that the spa is set to low range temperature between 65°F (18.5°C) and 99°F (37°C).
- J. **SET (Set icon)**: Displays when in menus that require programming.
- K. **F12 (Filter Cycle icons)**: Displays when the hot tub is running in a filtration cycle. Either F1 (first filter cycle) or F2 (second filter cycle).
- L. **AP (AM or PM icons)**: Displays only when in the Set Time Menu. For AM setting an “A” will be shown. For PM setting a “P” will be shown.

Operation Details

- Temperature Adjustment: Factory default setting is 100°F (38°C).
High Range 80°F (26.5°C) and 104°F (40°C)
Low Range 65°F (18.5°C) and 99°F (37°C)
- LED light system: All LED lights run for 2 hours and then automatically shut off.
- Jets 1/Jets 2 Button Operation: Jets run for 20 minutes when activated, then turn off automatically to conserve energy. Simply press either jets button to continue operation for an additional 20 minutes.
- CLEARARRAY Active Oxygen™ Operation : Will activate anytime the low-speed pump is on.

9.3 General Spa Features and Controls



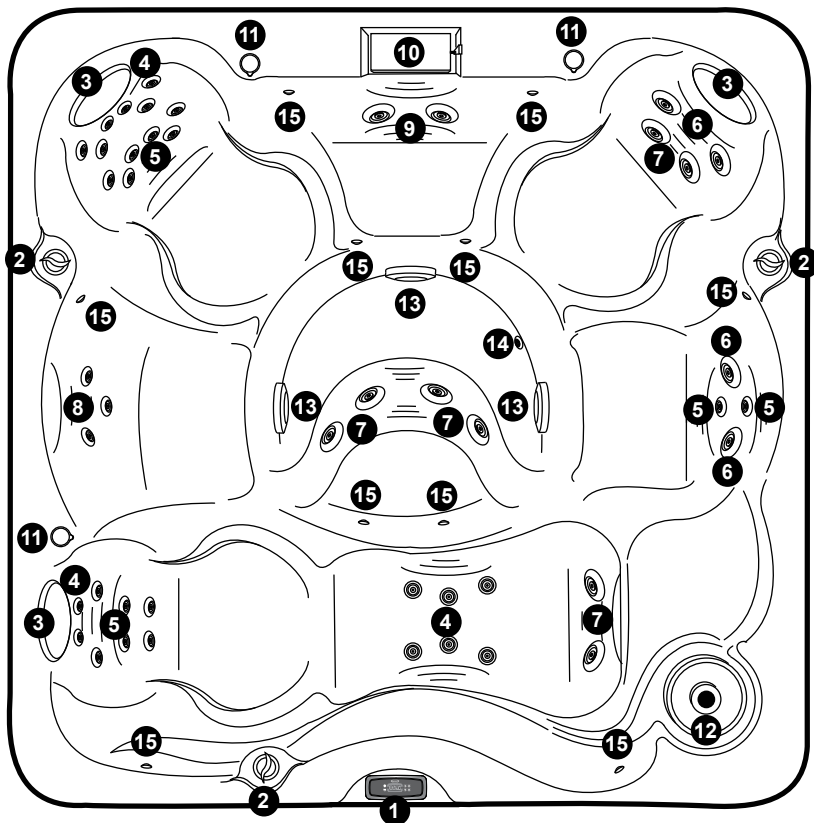
J-280 model illustrated - Jet locations and features vary by model.

- | | |
|--|---|
| 1. Control Panel | 8. Waterfall with flow rate control lever |
| 2. Headrest Pillows (4) | 9. Heater Return/Gravity Drain |
| 3. Air Controls (4) | 10. Filter lid with one underlying filter cartridge (Filter requires periodic cleaning) |
| 4. Cup Holders (4) | 11. Pulsating Jets (4) |
| 5. Massage Selector (1) | 12. Accu-Pressure Jets (20) |
| 6. LED Lighting System: | 13. Mini Duo Rotator Jets (6) |
| • Underwater light system includes multi-color footwell light (6a.) | 14. Directional Jets (5) |
| • Multiple LED accents lights (6b. - qty 22) | 15. Duo Rotator Jets (8) |
| 7. Suction Fittings (protect massage selector from debris entrapment/damage) | 16. Turbo Jet (1) |

Specifications Subject to Change Without Notice.

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9.4 General Spa Features and Controls



J-275 model illustrated - Jet locations and features vary by model.

- | | |
|--|---|
| 1. Control Panel | 11. Cup Holders (3) |
| 2. Air Controls (3) | 12. Filter skimmer with one underlying filter cartridge (Filter requires periodic cleaning) |
| 3. Headrest Pillows (3) | 13. Suction Fittings (3) |
| 4. Pulsating Jets (14) | 14. Heater Return/Gravity Drain |
| 5. Accu-Pressure Jets (14) | 15. LED lighting system includes multiple LED accents lights (10) |
| 6. Duo Rotator Jets (4) | |
| 7. Directional Jets (8) | |
| 8. Mini Duo Rotator Jets (3) | |
| 9. Multiport (2) | |
| 10. Waterfall with flow rate control lever | |





Specifications Subject to Change Without Notice.

10.0 Operating Instructions

The spa control system has automatic functions that operate upon start up and normal operation to protect the system. Upon the first power up, the readout displays a sequence of information about the configuration of the hot tub. Then the Priming Mode will begin, page 20.

Note: It is common for the heater to turn on after the spa is first filled because tap water is often very cold. If water temperature, at this time, is less than the factory default temperature setting of 100°F (38°C) the heater will turn on and run until the water temperature rises to the factory setting, then turn off.

10.1 Setting Water Temperature

The spa's thermostat provides optimum control of water temperature. The temperature set point (set temperature) can be adjusted from 65°F (18.5°C) to 104°F (40°C). To raise the set temperature, press the **WARMER** () button. To lower the set temperature, press the **COOLER** () button. The first press of either **WARMER** () or **COOLER** () button displays the set temperature.



10.2 Activate Jets Pump

The control panel JETS 1 button activates jets pump 1. The first press activates low speed, the second press activates high speed, and the third press shuts jets pump 1 off. The JETS 2 button activates jets pump 2. The first press activates high speed, the second press turns jets pump 2 off. When manually activated, either pump will automatically turn off after 20 minutes.

10.3 Multi-Colored LED Light System Operation

The multi-colored LED light system offers seven constant color variations and three unique random modes for enhanced spa enjoyment. Press the Light button once to activate the first light mode, then continue pressing the button to select one of seven constant colors or random solid color mode as illustrated below. To turn off the light, after the last press of the button wait for more than 5 seconds and then press the light button again.

Note: Anytime the spa light is manually activated, it will remain on for 2 hours then automatically shut off.



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| Press | Mode/Color | Press | Mode/Color |
|-------|------------------------------|-------|-------------------------------|
| 1st | high speed blend mode | 12th | OFF |
| 2nd | OFF | 13th | solid Amber color |
| 3rd | low speed blend mode | 14th | OFF |
| 4th | OFF | 15th | solid Green color |
| 5th | freezes low speed blend mode | 16th | OFF |
| 6th | OFF | 17th | solid Aqua color |
| 7th | solid Blue color | 18th | OFF |
| 8th | OFF | 19th | solid Near White color |
| 9th | solid Violet color | 20th | OFF |
| 10th | OFF | 21st | back to high speed blend mode |
| 11th | solid Red color | | |

10.4 Adjusting Individual Jet Flow

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

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



10.5 Selecting Desired Massage Action

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

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



Figure A



10.6 Air Controls

Certain jet systems have their own air control. Each control introduces air into the water lines that supply that specific jet group. Simply turn the air control of choice counterclockwise to open or clockwise to close.

Note: To minimize heat loss, all air controls should be closed when the spa is not in use. Certain jets may not draw air when jets pump 1 is running in low speed; this is considered normal.

10.7 Waterfall

The waterfall feature allows you to independently control it for a customized soothing effect. Move the control lever next to the waterfall body inward to start or increase flow or move outward to slow or turn off flow.

Note: When the waterfall is in the OFF position some water may still flow through. This is considered normal.

10.8 Blow-Out Cycle

This cycle will purge the air from the plumbing lines. The Jets Pump 2 (if equipped) will turn on and run for 1 minute then shut off. This cycle will **only** occur at the beginning of a filter cycle.

10.9 Cleanup Cycle

The cleanup cycle begins 30 minutes after the pump is turned off or it times out. The Jets Pump 1 (low speed) and the CLEARRAY Active Oxygen™ system will turn on for 30 minutes and then shut off. The duration of the cycle can be programmed from 30 minutes up to 4 hours, page 39.

10.10 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.

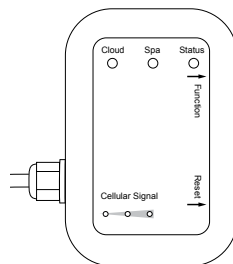
J-200

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.

11.0 Menu Features and Programming Instructions

Your hot tub is equipped with menus that allow you to program additional features. By continually pressing the Menu/Select () button you will cycle through the menus as follows:


| | |
|---------------------------------|---|
| Current temperature (Main Menu) |  |
| Temp |  |
| Mode (page 34) |  |
| Set Time/Time (page 35) |  |
| Flip (page 35) |  |
| Lock (page 35) |  |
| Hold (page 36) |  |
| Filter Cycle 1 (page 37) |  |
| Filter Cycle 2 (page 37) |  |
| Preferences (page 38) |  |
| Utilities (page 39) |  |

11.1 Adjusting the Temperature

The hot tub is equipped with dual temperature ranges. The high range settings can be used for everyday heating. The low range settings can be used as an away setting. Pressing or holding the  or  buttons will adjust the set temperature. See Preference settings for selecting a Fahrenheit or Celsius display, page 38. The default temperature setting is 100°F (38°C)




Note: Automatic Function - Pump 1 low speed activates periodically to circulate the water and determine the water temperature.

A. High Range Temperature (default setting)







The high temperature range is between 80°F (26.5°C) and 104°F (40°C). When the spa is in this setting it will display this icon . To adjust the temperature, follow the steps below.

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


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1. Press the  or  button to adjust the set temperature. The temperature numbers will start flashing to show the system is ready for adjustments. Once set to the preferred temperature, press  to program the change and return to the Main Menu.




B. Switching between high and low temperature ranges.

1. From the Main Menu, press the  button to enter the Temperature Menu. Press the  or  button to toggle between the ranges,  or . Once you select the desired range, press  to program the change and return to the Main Menu.

C. Low Range Temperature

The low range settings are between 65°F (18.5°C) and 99°F (37°C). When the spa is in this setting it will display this icon . This setting is normally used as an away program. To adjust the temperature, follow the steps below.

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

1. Press the  or  button to adjust the set temperature. The temperature numbers will start flashing to show the system is ready for adjustments. Once set to the preferred temperature, press  to program the change.


11.2 Programming the Mode Setting

Your hot tub is equipped with 2 modes of heating. A “**READY**” mode, where the hot tub’s temperature is maintained at all times. A “**REST**” mode, where the hot tub only heats during a filter cycle.






A. Ready Mode

Allows the heater to heat, at all times, in order to maintain the preset temperature. Indicated by the Ready Mode “**R**” icon on the Main Menu display. Pump 1 low speed activates periodically to circulate the water and determine the spa temperature.


B. Rest Mode

Allows the heater to heat only during a programmed filter cycle. Indicated by the Rest Mode “” icon on the Main Menu display. If the primary pump has not turned on within an hour, the message “**RUN PUMP FOR TEMP** -- -- --” will appear on the display. Pressing the Jets Pump 2 button will active the pump and heater so the temperature can be sensed and displayed.

C. Switching between Ready and Rest Mode

From the Main Menu, press the  button twice to enter the Mode Menu. Press the  or  button to toggle between Ready Mode “**R**” and Rest Mode “”. Once the mode is selected, press  to accept the change and return to the Main Menu.

D. Ready-in-Rest Mode

When the spa is in a Rest Mode  and the Jets Pump 1 button is pressed, the spa will heat to either the set temperature or for one hour. Both icons will be shown on the display. After the 1-hour time out and automatic clean up cycle the spa will return to Rest Mode.















11.3 Adjusting and Setting the Time

The time on the spa can be programmed. This is needed in order for the spa to run during a programmed filter cycle.







- The default time is for 12:00 noon.
- The default setting is for a 12-hour configuration. See Preference settings for selecting a 12-hour or 24-hour display, page 38.
- The time information is not stored. If power is cut to the spa you must reset the time.

A. Set Time

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

1. Press  3 times until you get to the **“SET TIME/TIME”** Menu. The display will scroll **“SET TIME”** at start up or anytime the power to the spa is turned off and on.
2. Press  or  to prepare the system for changes.
3. The display will change from **“SET TIME”** to . The hour will be flashing. Press  or  to adjust the hour. In the upper right-hand corner, an **A** or **P** will display. This indicates either AM or PM.
4. Press  to set the minutes. The display will change from  to . The minutes will be flashing. Press  or  to adjust the minutes. Press  to accept the change and return to the main.
5. To check the time, press the Menu button until you get to the Time Menu. The display will alternate between **“TIME”** and the current time.

11.4 Invert the display

From the Main Menu, press the  button until you reach the **“FLIP”** option. Press  or  to invert the display from  to . Press  to accept the change and return to the main.

11.5 Locking the Spa

Certain functions and features can be locked to prevent unauthorized use.









- Temperature lock: The set temperature and programming settings cannot be adjusted. Jets can be activated. The following menus can be accessed: FLIP, LOCK, UTIL, INFO, and FALT LOG, if equipped. When trying to adjust the temperature, **“LOCK”** will appear.

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- Panel lock: All automatic functions will still run but the control panel buttons will not activate. When the panel is locked, the display will show the current temperature but when any button is pressed “**LOCK**” will appear.










A. Locking the Temperature

TEMP

1. From the Main Menu, press the  button until you reach the “**LOCK**” option.
2. Press  or  to enter the “**LOCK**” Menu.
3. Press  or  to enter the “**TEMP**” Menu.
4. Press  or  to toggle between “**OFF**” and “**ON.**”
5. Press the  button to accept the change and return to the Main Menu.



B. Locking the Panel

PANL

1. From the Main Menu, press the  button until you reach the “**LOCK**” option.
2. Press  or  to enter the “**LOCK**” Menu.
3. Press  or  to enter the “**TEMP**” Menu.
4. Press the  button to enter the “**PANL**” Menu.
5. Press  or  to toggle between “**OFF**” and “**ON.**”
6. Press the  button to accept the change and return to the Main Menu.

C. Unlocking the Temperature/Panel







UNLK

1. From the Main Menu, press and hold the  button then slowly press the  button twice. “**UNLK**” will display and after a few seconds the Main Menu will be displayed.
2. If both the temperature and panel are locked, you will need to perform the unlock procedure twice.

11.6 Hold (Standby)

HOLD

This feature is used when performing a service or replacing the filters. The setting lasts for an hour unless you manually exit.

1. From the Main Menu, press the  button until you reach the “**HOLD**” option.
2. Press  or  to enter the menu. The following message will keep scrolling until the hour is up or you manually exit, “**HOLDING FOR 1:00.**”
3. To exit the setting before the hour is up, press either the ,  or  button. You will return to the Main Menu.

11.7 Programming the Filtration Cycles

FLTR
FLTR

The filtration cycles and CLEARRAY Active Oxygen™ system are important to ensure healthy water conditions. You can program up to 2 filter cycles.

Note: Make sure to set the time so the cycles can run as programmed.

- Before a filter cycle runs, a brief blow-out cycle will activate to clear the plumbing lines.
- Run times are adjusted in 1-hour increments. The minutes are adjusted in 15-minute increments.
- The segment being programmed will continually flash.
- If power is cut to the spa, the programming cycles will be stored.
- If power is cut to the spa, the filtration cycles programming will be stored. The **“SET TIME”** will need to be reprogrammed.



In extreme bitter cold weather, where freezing can occur, we recommend you program the filtration cycles to run for a minimum of 8 hours per day. Refer to the “Winterizing” section on page 46.

A. Filter Cycle 1

Filter cycle 1 has a default start time for 8:00 PM for 4 hours. To change the setting follow the steps below.

1. From the Main Menu, press the button until you reach the Filter Cycle 1 **FLTR** Menu.
2. Press or to enter the menu. The display will show **BEGN**.
3. Press or to program to start to cycle. The display will show **8:00**. Press or to make adjustments. In the upper right-hand corner, an **A** or **P** will display. This indicates either AM or PM. You must round the clock to change from am to pm.
4. Press the button to move on the minutes. Press or to program the minutes. The display will show **8:15**.
5. Press the button to program the cycle length. The display will show **RUN HRS**. Press or to enter the menu.
6. Press or to program the hour(s) duration of the cycle. The display will show **3:00**.
7. Press the button to program the minutes for the cycle. The display will show **3:30**. Press or to make adjustments.
8. Press the button. The display will show, **“F1 ENDS 11:45.”** The system calculates the end time base of the hours programmed.
9. Press or to accept the changes and return to the Main Menu.

B. Filter Cycle 2

Filter cycle 2 has a default start time for 8:00 AM for 4 hours. To change the setting follow the steps below.

1. From the Main Menu, press the button until you reach the Filter Cycle 2 **FLTR** Menu.
2. Press or to enter the menu. The display will show **ON**. Pressing or will toggle between **“OFF”** and **“ON.”** If you select OFF, you will exit the menu. If you select ON, the display will show **BEGN** and you will proceed to the programming instructions.

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3. Press or to program to start to cycle. The display will show . Press or to make adjustments. In the upper right-hand corner, an **A** or **P** will display. This indicates either AM or PM. You must round the clock to change from am to pm.
4. Press the button to move on the minutes. Press or to program the minutes. The display will show .
5. Press the button to program the cycle length. The display will show . Press or to enter the menu.
6. Press or to program the hour(s) duration of the cycle. The display will show .
7. Press the button to program the minutes for the cycle. The display will show . Press or to make adjustments.
8. Press the button. The display will show, **"F2 ENDS 11:45."** The system calculates the end time base of the hours programmed. Press or to set the changes.
9. Press the button to program the cycle and accept the changes. If the Menu button is not pressed, within a couple of seconds the panel will revert to the Main Menu without saving the changes.

C. Turning off Filter Cycle 2

Filter cycle 2 has a default start time for 8:00 AM for 4 hours. To change the setting follow the steps below.

1. From the Main Menu, press the button until you reach the Filter Cycle 2 Menu.
2. Press or to enter the menu. The display will show .
3. Pressing or will toggle between **"OFF"** and **"ON."** Select off then you will exit the menu.

11.8 Preferences

This menu allows you select certain display preferences.

A. Setting the temperature display










1. From the Main Menu, press the button until you reach **"PREF."**
2. Press or to enter the menu. The display will show **"F/C."**
3. Pressing or will toggle between °F or °C.
4. Once you make your selection, press the button to accept the change.

B. Setting the time display








1. From the Main Menu, press the button until you reach **"PREF."**
2. Press or to enter the **"F/C"** menu. Then press the button to enter the time display menu **"24-12."**
3. Pressing or will toggle between **"24HR"** and **"12HR."**
4. Once you make your selection, press the button to accept the change.

C. Reminders

Your spa is equipped with 3 reminders.







- Change Water occurs every 125 days, page 53.
 - Change Filter occurs every 180 days, page 54.
 - Change UV Bulb occurs every 365 days, page 54.
1. From the Main Menu, press the  button until you reach **“PREF.”**
 2. Press  or  to enter the **F / C** menu. Then press the  button until you get to the **“REMINDERS”** display.
 3. Press  or  to select and toggle between **“YES”** and **“NO.”**
 4. Once you make your selection, press the  button to accept the change.
 5. Once the timer expires and the reminder appears on the display, press  or  to reset the timer.

D. Cleanup Cycle Duration

1. From the Main Menu, press the  button until you reach **“PREF.”**
2. Press  or  to enter the **F / C** menu. Then press the  button until you get to the **“CLN UP”** display.
3. Press  or  to move through the duration’s settings of 0.5H up to 4.0H, in increments of 30 minutes.
4. Once you make your selection, press the  button to accept the change and revert back to the **“PREF”** Menu.

E. Poll Cycles Duration - Ready Mode Only

(In order to maintain a constant water temperature, heat as needed, and refresh the temperature display the pumps activates to circulate the water. This is known as “polling.” Default setting is ON.)

1. From the Main Menu, press the  button until you reach **“PREF.”**
2. Press  or  to enter the **F / C** menu. Then press the  button until you get to the **“M8”** display.
3. Press  or  to select and toggle between **“ON”** and **“OFF.”**
 - When ON, the poll cycles can vary between 30, 60, 90 or 120 minutes apart.
 - When OFF, the poll cycles are 30 minutes apart.

11.9 Utilities











This menu allows you to perform a GFCI Trip Test. A GFCI is an important safety device and is required equipment on a spa installation. Your spa is equipped with a GFCI protection feature (UL rated systems only). The procedure that follows should be done at the time of installation to verify that the GFCI is connected correctly.

The installer should cause the GFCI Trip Test to occur by initiating it. The GFCI should trip within a few seconds and the spa should shut down. If it does not, shut down the power and manually verify that a GFCI breaker is installed and that the circuit and spa are wired correctly. Verify the function of the GFCI with its own test button. Restore power to the spa and repeat the GFCI Trip Test.










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Once the GFCI is tripped by the test, reset the GFCI and the spa will operate normally from that point. You can verify a successful test by navigating through the programming menu. PASS should appear after the temp button is pressed from the GFCI screen.

A. GFCI Test Trip

1. From the Main Menu, press the  button until you reach **"UTIL."**
2. Press  or  to enter the menu. The display will show **"INFO."**
3. Press the  button until you reach **"GFCI."**
4. Pressing  or  will display either **PASS** or **ARMED**.
5. Press the  button until you reach **"TRIP."**
6. Pressing  or  will display **TRIP**. This will activate the trip feature. If the GFCI does not trip, the display will show the GFCI Failure message, page 55.
7. Press the  button to accept the change and return to the GFCI menu. After a few minutes the display will revert back to the Main Menu.

B. Resetting the GFCI Trip

1. From the Main Menu, press the  button until you reach **"UTIL."**
2. Press  or  to enter the menu. The display will show **"INFO."**
3. Press the  button until you reach **"GFCI."**
4. Pressing  or  will display either **PASS**.
5. Press the  button until you reach **"TRIP."**
6. Press the  button until you reach **"RSET."**
7. Press the  button to accept the change and return to the GFCI menu. After a few minutes the display will revert back to the Main Menu.

Note: The **"RSET"** menu will only appear if a GFCI test has been passed.

12.0 Spa Maintenance

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



DANGER: RISK OF SEVERE INJURY OR DROWNING BY ENTRAPMENT!

- Keep hair, loose articles of clothing or hanging jewelry away from suction fittings, rotating jets or other moving components to avoid entrapment that could lead to drowning or severe injury.
- Never use the spa unless all suction guards, filter, filter lid, or skimmer assembly are installed to prevent body and/or hair entrapment.
- Never operate or use the spa if the filter, filter lid, or skimmer assembly are broken or any part of the skimmer assembly is missing. Please contact your dealer or nearest service center for service.
- The suction fittings and suction covers in this spa are sized to match the specific water flow created by the pump(s). If it is necessary to replace the suction fittings, suction covers or pump(s), be sure that the flow rates are compatible and are in compliance with the VGB Safety Act, page 2.
- Never replace a suction fitting or suction cover with one rated less than the flow rate marked on the original suction fitting. Using improper suction fittings or suction covers can create a body or hair suction entrapment hazard that may lead to drowning or severe injury.
- Owners must alert all spa users to the potential risk of Hair, Limb, Body, Evisceration (disembowelment), and Mechanical Entrapment, page 7.

12.1 Cleaning The Filters

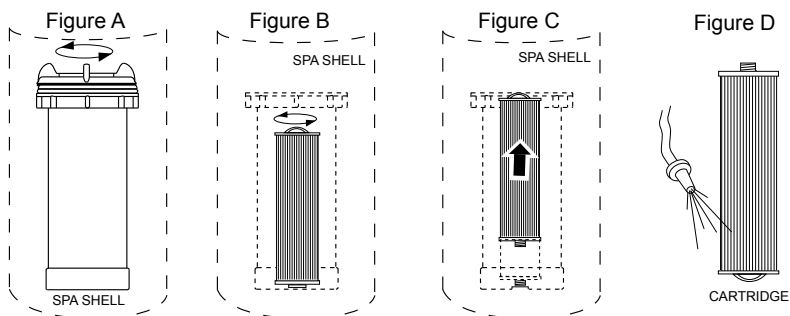
**TO DECREASE DROWNING OR ENTRAPMENT, ALWAYS TURN POWER TO SPA OFF BEFORE CLEANING THE FILTER CARTRIDGE!
J-215/J-225/J-235/J-245/J-275 Models:**

These model spas are equipped with a skimmer basket and filter cartridge located in the skimmer/filter well. Filtering is accomplished when jets pump #1 turns on in low-speed initiating water flow through the skimmer basket and polyester mesh filter cartridge. As this happens, suspended particles become trapped on the filter's surface. To ensure optimum performance, it is necessary to remove and clean the skimmer basket once a week and filter cartridge once a month or sooner, depending on usage and water quality.

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To Clean Filter:

1. Turn off power to the spa at the home's breaker panel or select the **"HOLD"** option (page 36) to disable all spa functions.
2. Remove the filter strainer lid assembly by rotating it counterclockwise, Figure A.
3. Remove the filter cartridge by rotating it counterclockwise to unthread it from the filter wall fitting (Figure B). Then lift it straight up to remove from filter well (Figure C).
4. Using a garden hose with a high-pressure nozzle, rinse debris from the filter pleats beginning at the top and working your way downward (Figure D). Continue, one section at a time, until you have rinsed all of the filter's pleats.



To ensure optimum performance, clean skimmer basket and filter cartridge once a month or as necessary, depending on use.

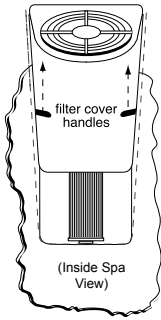
J-280 Models:

These model spas are equipped with a skimmer bag and one high performance pleated filter cartridge located under the filter cover. Debris are filtered by drawing water through the skimmer bag and filter cartridge when jets pump 1 is running a programmed filter cycle or when manually activated by spa use. Combined, both provide unsurpassed water quality by trapping surface oils and suspended particles. The filter cartridge should be cleaned once a month or as necessary, depending on use, for optimum performance.

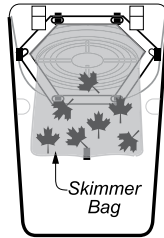
J-280 Models:

Refer to steps below for complete filter cleaning/replacement instructions.

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

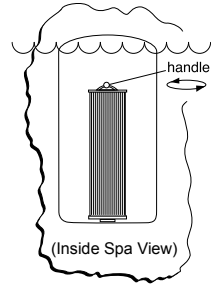


- B** Lift upward on filter skimmer cover handles to remove it from mating retainer clips.

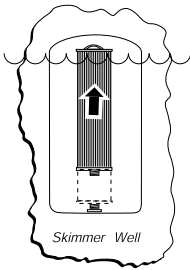


(Filter Cover Back View)

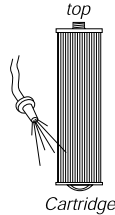
- C** Remove skimmer bag from clips, then clean out debris.



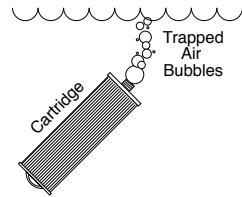
- D** Rotate filter cartridge handle counterclockwise to unthread filter cartridge from mating wall fitting.



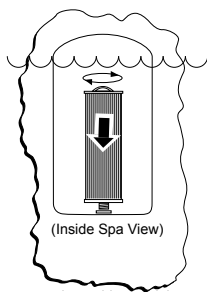
- E** Lift unthreaded filter cartridge from skimmer well.



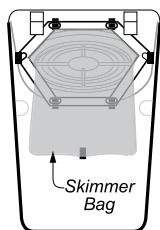
- F** Rinse debris from filter cartridge pleats using a garden hose and high-pressure nozzle. Start at the top and work downward to the handle. Repeat until all pleats are clean.



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

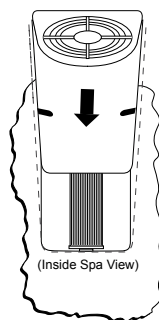


H Install filter cartridge back onto wall fitting by rotating the cartridge handle clockwise. **DO NOT OVERTIGHTEN!**



(Filter Cover Back View)

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



J Install filter cover by sliding it down into position over mating spa retainer clips. Turn spa power back on after skimmer cover is installed.

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

12.2 Draining and Refilling

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

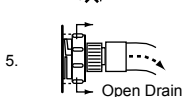
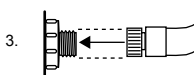
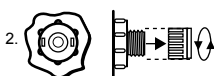
CAUTION! READ THIS BEFORE DRAINING: To prevent damage to the spa's components, **turn off power to the spa at the circuit breaker before draining it.** Do not turn the power back on until your spa has been refilled.

CAUTION: There are certain precautions to keep in mind when draining your spa. If it is extremely cold, and the spa is outdoors, freezing could occur in the lines or the equipment, see "WINTERIZING" (page 46). On the other hand, if it is hot outdoors, do not leave the spa's surface exposed to direct sunlight.

To drain your spa, perform the following steps:

1. Turn off power to spa at breaker.
2. Locate the drain valve on the side of the hot tub cabinet. Hold the larger (rear) body to prevent it from turning, then loosen and remove the front cap to expose the underlying male hose threads.
3. Attach a garden hose to the exposed threads.
4. Gently rotate the larger (rear) valve body 1/3 turn counterclockwise to unlock the drain valve.
5. Pull the larger (rear) body outward to open drain.
6. After the spa drains, perform steps 2-5 in reverse order to close the drain prior to refilling the spa.
7. After refilling spa, turn on power and follow the "Spa Fill Up Procedure" (page 20).
8. If an air lock occurs, see page 20.

1. Turn off power to spa.

Unlock
Drain

Open Drain

12.3 Pillow Care

Remove and clean each headrest by gently grasping both ends in each hand and pulling upward to release each pillow "snap." To reinstall, simply "snap" each pillow back into place. Clean as needed with soapy water using a cloth or soft-bristle brush. Always remove the pillows when adding chemical shock treatment to the spa water. The pillows can be returned to the spa when the sanitizer reading is stable as recommended on the inside cover of the manual.

12.4 Cleaning The Spa Interior

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

12.5 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.

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A. To Clean and Care for the Cover

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

B. Additional Care and Maintenance Instructions:

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

12.6 Maintaining The Synthetic Cabinet

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



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

12.7 Winterizing

Your Jacuzzi spa is designed to automatically protect itself against freezing when operating properly. During periods of severe freezing temperatures, you should check periodically to be certain that the electrical supply to the spa has not been interrupted. In extreme, bitter cold weather less than 32°F (0°C), program the filtration cycles to run for a minimum of 8 hrs per day to prevent freezing (page 36). If you do not intend to use your spa or if there is a prolonged power outage during periods of severe freezing temperatures, **it is important that all water be removed from the spa and equipment to protect against damage from freezing.**

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

| |
|--|
| CAUTION: TURN OFF POWER TO HOT TUB! |
|--|

Follow the directions on page 44 for draining the spa.

1. Turn off power to the spa.
 2. As the water level drops below the seats, use whatever means necessary to get the water out of the recessed seating areas and into the footwell, such as a wet/dry vacuum.
 3. Turn the massage/diverter selector(s) into the middle combo position to allow the water in the plumbing lines to drain, page 30.
 4. Turn the waterfall valve to the open position to allow the water in the plumbing lines to drain, pages 27 and 28.
 5. Open all the air controls and leave them open until you resume use of the spa, page 31.
 6. As the water level drops below the seats, use whatever means necessary to get the water out of the recessed seating areas and into the footwell, such as a wet/dry vacuum.
 7. When the water level ceases to drop, use whatever means available to remove any remaining water from the footwell, such as a wet/dry vacuum.
 8. Remove the synthetic cabinet panel under the control panel and locate the drain plugs on the front of the pump(s), (Figure A, page 17).
Remove plugs to allow water to drain out of pumps and heater.
- Note:** Approximately one to two gallons will be released during this procedure. Use a wet/dry vacuum or other means to keep this from flooding the equipment compartment. Replace the drain plugs.
9. Loosen hose clamp at bottom of CLEARRAY® unit 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 unit 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.
 10. Re-install synthetic cabinet side panel and cover spa so that no casual moisture can enter into it.

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

12.8 Restarting Your Spa in Cold Weather

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

13.0 Water Quality Maintenance

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



WARNING: FAILURE TO MAINTAIN WATER QUALITY CAN RESULT IN:

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

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

13.1 pH Control

pH is a measure of relative acidity or alkalinity of water and is measured on a scale of 0 to 14. The midpoint of 7 is said to be neutral, above which is alkaline and below which is acidic. In spa water, it is very important to maintain a slightly alkaline condition of 7.4 to 7.6. Problems become proportionately severe the further outside of this range the water gets. A low pH will be corrosive to metals in the spa equipment. A high pH will cause minerals to deposit on the interior surface (scaling).

In addition, the ability of the sanitation agents to keep the spa clean is severely affected as the pH moves beyond the ideal range. That is why almost all spa water test kits contain a measure for pH as well as the sanitizer.

13.2 Sanitizing

To destroy bacteria and organic compounds in the spa water, a sanitizer must be used regularly. Chlorine and bromine are the two most popular sanitizers used to date. Many other additives are available for your spa. Some are necessary to compensate for out-of-balance water, some aid in cosmetic water treatment and others simply alter the feel or smell of the water. Your authorized Jacuzzi dealer can advise you on the use of these additives. When adding spa shock (chlorine or non-chlorine) or pH balancing chemicals activate the jets pump(s) and leave the spa cover open for a minimum of 20 minutes. By doing this you will allow excessive chemical vapors to exit the spa, protecting pillows and plastic knobs from chemical attack.



WARNING: RISK OF PERSONAL INJURY, DROWNING OR ENTRAPMENT!

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

CAUTION: RISK OF PERSONAL INJURY OR SPA DAMAGE!

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

13.3 CLEARARRAY Active Oxygen™ System

Your new hot tub has the CLEARARRAY Active Oxygen™ System installed. The CLEARARRAY 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 CLEARARRAY Active Oxygen™ System; it has two LED indicator lights, the green indicating incoming power flow and the red indicating the system is properly working. CLEARARRAY Active Oxygen™ is standard for all models.

Note: The CLEARARRAY Active Oxygen™ only runs when pump 1 is on low speed for an automatic function, a heat call or a filter cycle.



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 (page 39).

Note: In order to access the CLEARARRAY unit the front synthetic panel must be removed.



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.

*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.

13.4 CLEARRAY® Lamp 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.

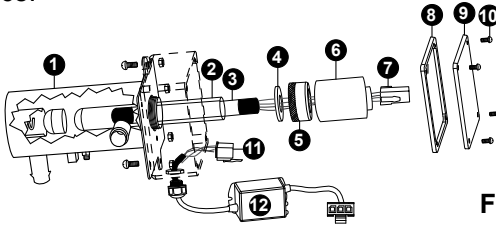


FIGURE 1



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 unit 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 unit enclosure cover (9) and gasket (8) by removing the four screws (10). This will expose the UV bulb and connections, Figure 2.

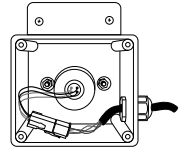


FIGURE 2



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

FIGURE 3

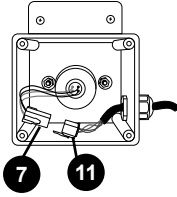


FIGURE 4

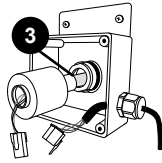


FIGURE 5

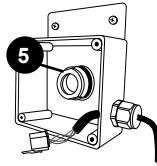
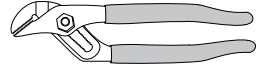
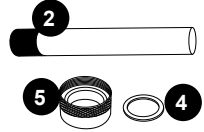


FIGURE 6



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.



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.

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- 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 unit. 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.**
- 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.

- Slide the new UV bulb (3) back inside the quartz tube.
- Reinstall the black bulb boot (6) back over the quartz seal compression nut (5).
- Reinstall the enclosure cover (9) with gasket (8) and secure with the screws.
- Properly dispose of the old UV bulb.



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

- Once power is activated you can check the ballast (12), Figure 8, to see if the CLEARRAY unit is functioning; it has two LED indicator lights the green indicating incoming power flow and the red indicating the system is properly working.

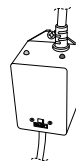


FIGURE 8

14.0 Error Conditions and Messages

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

A. General Messages

1. 

Priming Mode - M019: Each time the spa is powered up, it will enter a Priming Mode. The purpose of Priming Mode is to allow the user to run each pump and manually verify that the pumps are primed (air is purged) and water is flowing. This typically requires observing the output of each pump separately and is generally not possible in normal operation. Priming Mode last about 4 minutes, but you can exit it earlier by pressing any Temp button. The heater is not allowed to run during Priming Mode.

2. 

Water Temperature is Unknown: After the pump has been running for 1 minute, the temperature will be displayed.

3. 

Too Cold - Freeze Protection: A potential freeze condition has been detected, or the Aux Freeze Switch has closed, and all pumps are activated one at a time. All pumps are ON for at least 4 minutes after the potential freeze has ended, or when the Aux Freeze Switch opens. This is an operational message, not an error indication.

Note: In some cases, pumps may turn on and off and the heater may operate during Freeze Protections.

4. 

Water is too Hot (OHS) - M029: DO NOT ENTER THE WATER.

One of the water temp sensors has detected spa water temp 110°F (43.3°C) and spa functions are disabled. System will auto reset when the spa water temp is below 108°F (42.2°C). Check for extended pump operation or high ambient temp.



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

B. Reminders Messages

1. 

Change Water: The change water timer has expired. The spa needs to be drained and refilled. The display will alternate between “**CHNG WATR**” and the normal display. The timer for this reminder will need to be reset, page 39.

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2. 

Change Filter: The change filter timer has expired. The filter needs to be inspected. It is time to clean or replace the filter. The display will alternate between “**CHNG FLTR**” and the normal display. The timer for this reminder will need to be reset, page 39.

3. 

Change UV Bulb: The change UV bulb timer has expired. The display will alternate between “**CHNG UV BULB**” and the normal display. The UV bulb must be replaced. The timer for this reminder will need to be reset, page 39.

C. Heater Related Messages

Note: Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime.

1. 

Heater Flow is Reduced (HFL) - M016: There may not be enough water flow through the heater to carry the heat away from the heating element. Heater startup will begin after about 1 minute.

2. 

Heater Flow is Reduced (LF) - M017: There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. After the problem has been resolved, you must press any button to reset and begin heater start up.

3. 

Heater may be Dry (dr) - M028: Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 minutes. Press any button to reset the heater start up.

4. 

Heater is Dry - M027: There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must press any button to reset and restart heater start up.

5. 

Heater is too Hot (OHH) - M030: One of the water temp sensors has detected 118°F (47.8°C) in the heater and the spa is shut down. You must press any button to reset when water is below 108°F (42.2°C).





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



6. 

A Reset Message may Appear with other Messages: Some errors may require power to be removed and restored.

D. **Sensor Related Messages**

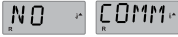
1. 


Sensor Balance is Poor - M015: The temperature sensors may be out of sync by or 3°F (1.5°C). Call for Service.
2. 

Sensor Balance is Poor - M026: The temperature sensors are out of sync. The Sensor Balance is Poor fault has been established for at least 1 hour. Call for Service. The message can be reset by pressing any button.
3. 


Sensor Failure - Sensor A: M031, Sensor B: M028: A temperature sensor or sensor circuit has failed. Call for Service.


E. **Miscellaneous Messages**

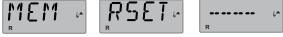
1. 


No Communications: The control panel is not receiving communication from the system. Call for Service.
2. 

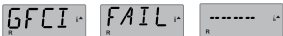
°F or °C is replace by °T: The Control System is in Test Mode. Call for Service.

F. **System Related Messages**

1. 



Memory Failure - Checksum Error - M022: At power up, the system has failed the Program Checksum test. This indicates a problem with the firmware (operation program) and requires a service call.
2. 

Memory Warning - Persistent Memory Reset - M021: Appears after any system setup change. Contact your dealer or service organization if this message appears on more than one power up or it if appears after the system has been running normally for a period of time.
3. 

Configuration Error - Spa will not Start up: Contact your dealer or service organization.
4. 

GFCI Failure - System Could Not Test/Trip the GFCI - M036: NORTH AMERICA ONLY. May indicate an unsafe installation. Contact your dealer or service organization.

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5.  A Pump Appears to be Stuck ON - M034: Water may be overheated. **POWER DOWN THE SPA. DO NOT ENTER THE WATER.** Contact your dealer or service organization.
6.  A Pump Appears to have been Stuck ON when spa was last powered - M035: **POWER DOWN THE SPA. DO NOT ENTER THE WATER.** Contact your dealer or service organization.

15.0 Troubleshooting Procedures

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

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

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

Check the following:

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

15.2 Pump Does Not Operate

Press the JETS 1 Button:

1. If no water movement is detected, make sure power is going to the spa and check the water level. If it does not solve the problem, contact your authorized Jacuzzi dealer.
2. The main pump operates but no water flows to jets. Pump may not be properly primed (page 20). This can happen after the spa is drained and refilled.

15.3 Poor Jet Action

1. Make sure jets are in the full open "on" position (page 31).
2. Press the JETS 1 button to make certain pump #1 is on.
3. Open all air controls to their full-on position (counterclockwise).
4. Check for dirty filter. Clean, if necessary (Section 12.1, page 41).

15.4 Water is Too Hot

Reduce thermostat setting.

15.5 No Heat

1. Check thermostat setting.
2. Keep the spa cover in place while heating.
3. Check the settings to see if your spa is in Rest Mode (page 34).

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

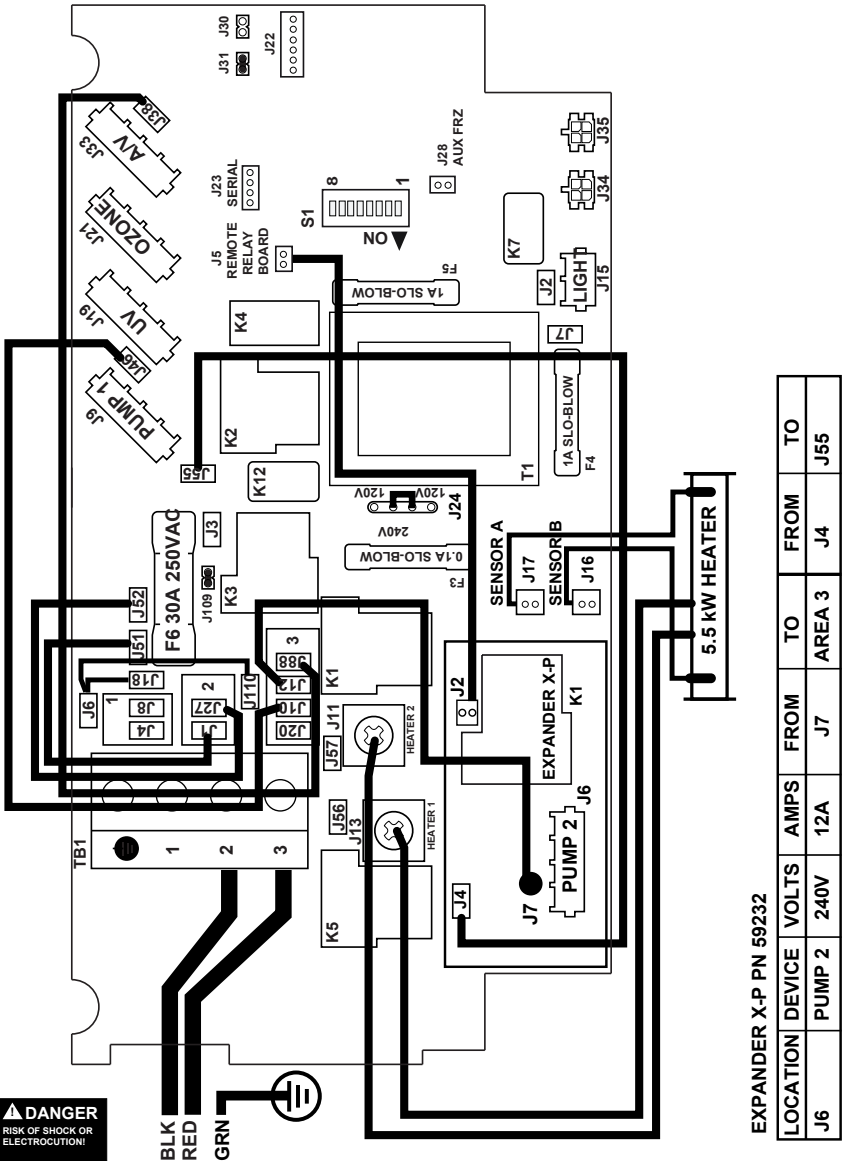
Your input as a Jacuzzi spa owner is a cherished part of this process. If you have any comments or suggestions, or if you wish to be informed on any new products for your spa, please write to us.

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

16.0 Circuit Board Diagrams

16.1 2-Pump Models

A. This wiring diagram is used for the 240V 3-Wire 60 Hz spa models.



⚠ DANGER
RISK OF SHOCK OR ELECTROCUTION!



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

WIRE STRIP LENGTH
11/16" (0.69", 17.5mm)
BARE METAL

HAND TIGHTEN WITH PHILIPS SCREWDRIVER.

B. Jumper wires for 240V 2-Pump Models

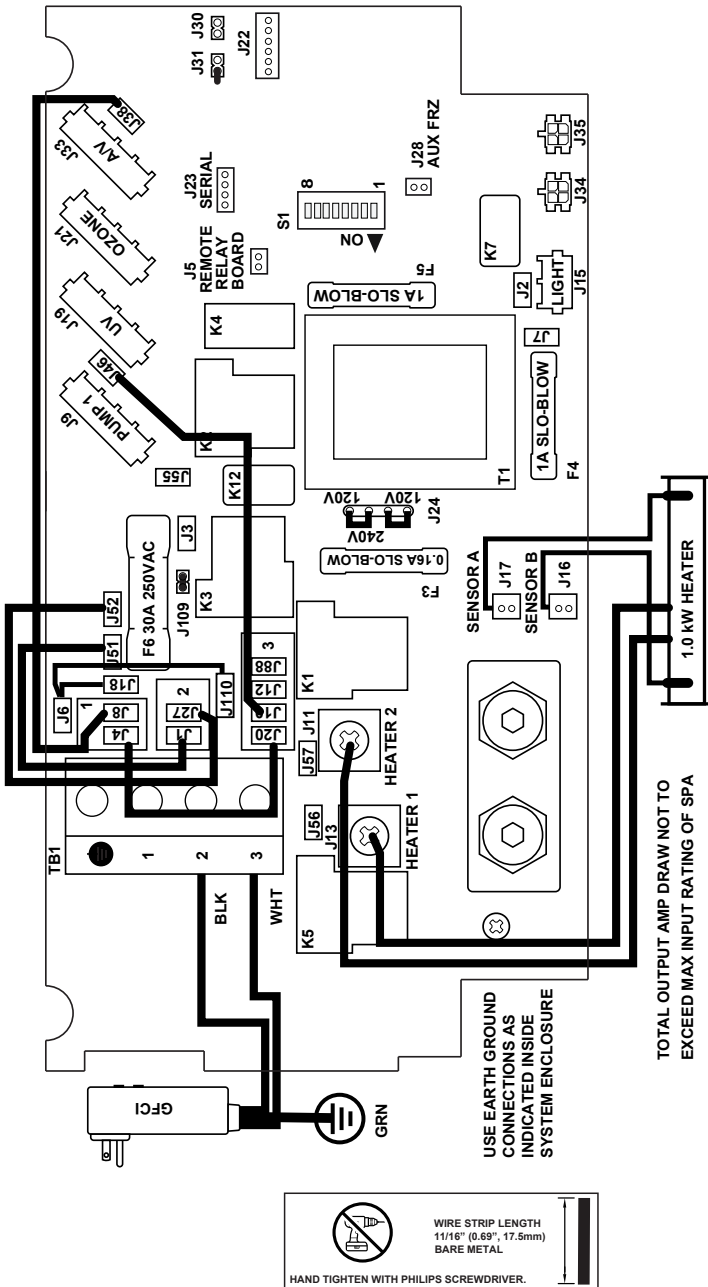
| Location | Device | Volts | Max Apms | From | To |
|---|--------------------------------|--------------|-----------------|-------------|-----------|
| J9 | 2-SP Pump 1 | 240V | 12A Max | J46 | Area 3 |
| J19 J21 | UV Ozone | 240V | 2A Max 0.5A | | |
| | UV and Ozone Line 1 connection | | | J51, J52 | Area 2 |
| J33 | TV / AV | 240V | 3A | J38 | Area 3 |
| J15 | Spa Light | 10V | 1A | | |
| J11 & J13 | Heater | 240V | 5.5 kW | | |
| All high-voltage equipment must be 240V, because input power is 240V only | | | | | |

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| LOCATION | DEVICE | VOLTS | AMPS | FROM | TO | FROM | TO |
|-----------------|---------------|--------------|-------------|-------------|-----------|-------------|-----------|
| J6 | PUMP 2 | 240V | 12A | J7 | AREA 3 | J4 | J55 |

16.2 J-215 and J-225 Convertible Power Models (For a 3-wire 120V 60 Hz connection)

- A. This wiring diagram is used for all 1-Pump 120V 3-Wire 60 Hz convertible spa models.

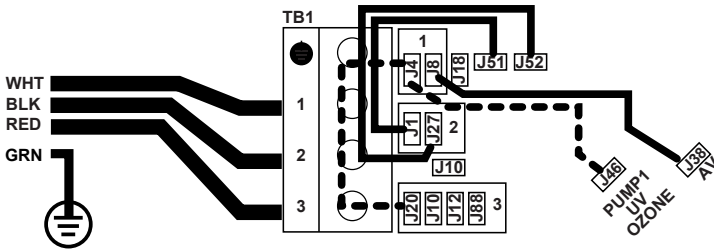


**16.3 North American J-215 and J-225 Convertible Power Models
(For a 4-wire 240V 60 Hz connection)**

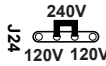
This wiring diagram is used for all North American 240V 60 Hz convertible power models. Dedicated 240V models must be permanently connected (hard-wired) to the power supply.

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

1. TB1 MUST BE WIRED WHT-1, BLK-2, RED-3
2. REMOVE JUMPER WIRE BETWEEN J4 AND J20. FAILURE TO DO SO WILL RESULT IN DAMAGE TO THE PWA.
3. MOVE J46 WIRE FROM AREA 3 TO AREA 1
4. CHANGE F3 FUSE TO 0.1A SLO-BLOW
5. REMOVE 1 JUMPER FROM J24, PLACE REMAINING JUMPER ON PINS 2 AND 3.
6. PUT J31 JUMPER ON 2 PINS

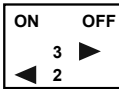


F3 0.1A SLO-BLOW
F3 FUSE MUST BE REPLACED BY A 0.1A SLO-BLOW FUSE (SUPPLIED WITH PACK)



J24 JUMPERS MUST BE IN 240V POSITION AS SHOWN

J31
J31 JUMPER MUST BE ON 2 PINS WHEN HEATER IS CONFIGURED AS 240VAC



SWITCH #2 SET TO ON WHEN HEATER IS CONFIGURED AS 240VAC

⚠ DANGER
 RISK OF SHOCK OR ELECTROCUTION!

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

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A. Jumper wires for 1-Pump Convertible Models for a 4-Wire 240V connection.

| Location | Device | Volts | Max Apms | From | To |
|---|--------------------------------|--------|---------------------------------|----------|--------|
| J9 | 2-SP Pump 1 | 120V** | 9A Max | J46 | Area 3 |
| J19 J21 | UV Ozone | 120V** | 0.5A Max 0.5A | | |
| | UV and Ozone Line 1 connection | | | J51, J52 | Area 2 |
| J33 | TV / AV | 120V | 1.5A | J38 | Area 1 |
| J15 | Spa Light | 10V | 1A | | |
| J11 & J13 | Heater | 120V | 1.0 kW @ 120V (4.0 kW @240V) | | |
| | 120V-ONLY JUMPER WIRE* | | | AREA 1 | AREA 3 |
| *REMOVE THIS JUMPER WIRE WHEN 240V IS USED (i.e. WHEN RED INPUT WIRE IS USED) | | | | | |
| **Pump 1, UV and Ozone all must be the same voltage. | | | | | |

17.0 Dip Switch Settings and Wiring

17.1 Switch settings for Domestic 60Hz Models

The dip switches are at the S1 location on the board.

A. 2-Pump Models

DEFAULT SETTING

| ON Position | S1 SWITCH | OFF Position |
|---|-----------|---------------------------------|
| NOT ASSIGNED | 8 ► | NOT ASSIGNED |
| NOT ASSIGNED | 7 ► | NOT ASSIGNED |
| MEMORY RESET* | 6 ► | STORE SETTINGS* |
| SPECIAL AMPERAGE RULE ON | 5 ► | SPECIAL AMPERAGE RULE OFF |
| 5 MIN HTR COOL DOWN (GAS) | 4 ► | 1 MIN HTR COOL DOWN (ELEC) |
| ADD 2 HS PUMPS WITH HEAT | 3 ► | DON'T ADD 2 HS PUMPS W/ HEAT |
| ADD 1 HS PUMP WITH HEAT | ◄ 2 | DON'T ADD 1 HS PUMP W/HEAT |
| TEST MODE ON | 1 ► | TEST MODE OFF |
| *Switch #6 should be set to OFF upon final installation. All unused switches should be OFF. | | |

| BREAKER | DIP SWITCH NUMBER | | | | | | | |
|-------------------------------------|-------------------|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 40A | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 50A* | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 60A | OFF | OFF | ON | OFF | OFF | OFF | OFF | OFF |
| *50A is the factory default setting | | | | | | | | |

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| LOCATION | DEVICE | VOLTS | AMPS | FROM | TO | FROM | TO |
|----------|--------|-------|------|------|--------|------|-----|
| J6 | PUMP 2 | 240V | 12A | J7 | AREA 3 | J4 | J55 |

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B. 1-Pump Models

DEFAULT SETTING

| ON Position | S1 SWITCH | OFF Position |
|---|-----------|---------------------------------|
| NOT ASSIGNED | 8 ► | NOT ASSIGNED |
| NOT ASSIGNED | 7 ► | NOT ASSIGNED |
| MEMORY RESET* | 6 ► | STORE SETTINGS* |
| SPECIAL AMPERAGE RULE ON | 5 ► | SPECIAL AMPERAGE RULE OFF |
| 5 MIN HTR COOL DOWN (GAS) | 4 ► | 1 MIN HTR COOL DOWN (ELEC) |
| ADD 2 HS PUMPS WITH HEAT | 3 ► | DON'T ADD 2 HS PUMPS W/ HEAT |
| ADD 1 HS PUMP WITH HEAT | 2 ► | DON'T ADD 1 HS PUMP W/HEAT |
| TEST MODE ON | 1 ► | TEST MODE OFF |
| *Switch #6 should be set to OFF upon final installation. All unused switches should be OFF. | | |

| BREAKER | DIP SWITCH NUMBER | | | | | | | |
|---|-------------------|-----|-----|-----|-----|-----|-----|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 15A* | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 30A | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 40A | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| *15A is the factory default setting (GFCI Cord) | | | | | | | | |