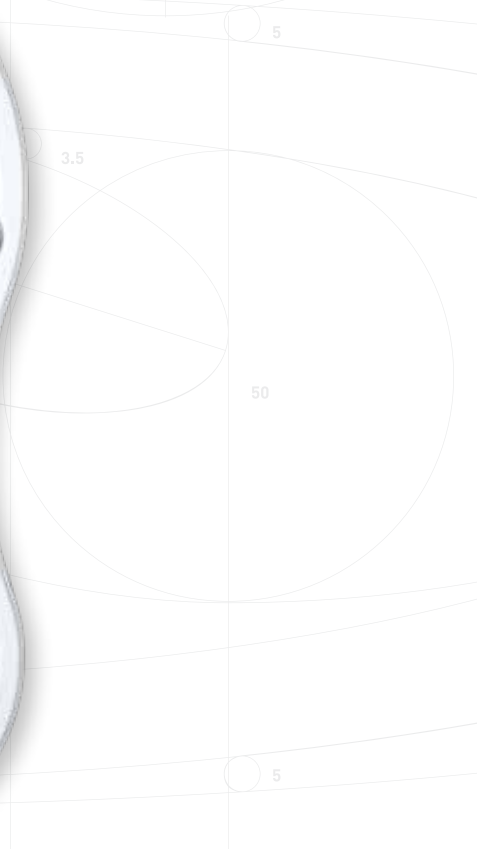




DIMENSION ONE SPAS®



BAY COLLECTION



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Owner's Guide

Spa Information

My Spa: _____

Model Name: _____

Serial Number: _____

Date Installed: _____

Dealer's Name: _____

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1.0 Important Hot tub Owner Information

Your hot tub 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 hot tub for efficient operation, an uncovered hot tub surface and wall fittings directly exposed to sunlight and high temperatures for an extended period are subject to permanent damage or discoloration. Damage caused by exposing the hot tub to this abuse is not covered under warranty. We recommend that you always keep the hot tub full of water when it is exposed to direct sunlight and that you keep the insulating cover in place at all times when the hot tub is not in use. Read and carefully follow the requirements for your hot tub's support base found in the Section 4.0 titled, "Choosing a Location" (page 10).

2.0 FCC Notice

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


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


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


3.0 **IMPORTANT SAFETY INSTRUCTIONS FOR ALL HOT TUB OWNERS**

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY!

This hot tub 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 hot tub, 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 hot tub 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 hot tub cover when not in use. This will help discourage unsupervised children from entering the hot tub. Keep the hot tub cover secure in high-wind conditions.
 - There is no representation that the cover, clip tie-downs, or actual locks will prevent access to the hot tub.

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 hot tub unless all suction guards, filter, filter lid, or skimmer assembly are installed to prevent body and/or hair entrapment.
 - Never operate or use the hot tub 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 hot tub 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 hot tub at least 5 feet (1.5m), from all metal surfaces. As an alternative, a hot tub 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 hot tub unless such appliances are built-in by the manufacturer.
- Never bring any electrical appliances into or near the hot tub.
- Never operate any electrical appliances from inside the hot tub 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 hot tub occupant but installed at least 5 feet (1.5m), from the hot tub.
- 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 hot tub 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 hot tub.

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 hot tub 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 hot tub use may exceed 10 minutes.
- The Consumer Products Safety Commission/USA has stated that the water temperature in a hot tub should not exceed 104°F (40°C).
- Always test the hot tub water temperature before entering the hot tub. 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).

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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 hot tub.
 - Pregnant or possibly pregnant women should limit hot tub 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 hot tub.
 - If you experience breathing difficulties in association with using or operating your hot tub, discontinue use and consult your physician.
 - Persons using medication should consult a physician before using a hot tub 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 hot tub.
 - The use of alcohol, drugs, or medication before or during hot tub use may lead to unconsciousness with the possibility of drowning.
7.  **WARNING: RISK OF SEVERE INJURY OR DEATH!**
- Prolonged immersion in a hot tub may be injurious to your health.
 - Observe a reasonable time limit when using the hot tub. Exposures at higher temperatures can cause high body temperature (over-heating). Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could possibly result in drowning or serious injury.
 - Never use a hot tub immediately following strenuous exercise. Enter and exit the hot tub 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 hot tub to avoid water contamination, which could result in spreading infections to others.
 - Always shower before and after using your hot tub. 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 hot tub water is necessary to maintain safe water and prevent possible damage to hot tub 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 hot tub is not intended nor designed to be used in a commercial or public application. The hot tub buyer shall determine whether there are any code restrictions on the use or installation of this hot tub 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

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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

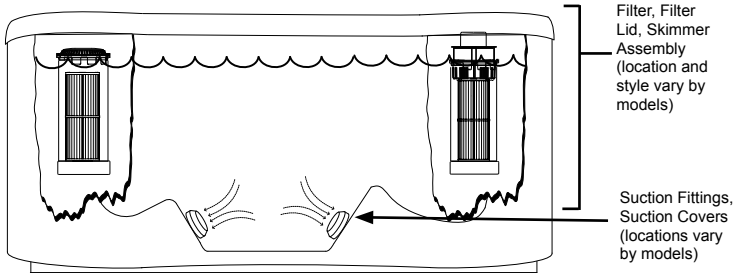
6530-464 Rev A (12/18)

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 hot tub 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 hot tub 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.

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

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

3.2 Hyperthermia

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

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

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

3.3 PRECAUTIONS-Important Chemical Safety

Do not use this device with bromide products.

3.4 PRECAUTIONS FOR USE OF PRODUCTS CONTAINING SODIUM BROMIDE

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

3.5 Warning Signs

Each hot tub has been provided with a Warning Sign and an Important Notice label. This label outlines safety precautions. This sign should be permanently placed in a location that is visible to the hot tub user. Replacement signs can be obtained from:



3.6 IMPORTANT SAFETY INSTRUCTIONS

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

1. **READ AND FOLLOW ALL INSTRUCTIONS.**
2. A green colored terminal or a terminal marked G, Gr, Ground, Grounding or the ⊕ symbol* is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors that supply this equipment. *IEC Publication 417, Symbol 5019.
3. At least two lugs marked “Bonding Lugs” are provided on the external surface or on the inside of the supply terminal box/ compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub 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 hot tub shall be bonded to the equipment grounding buss with copper conductors not smaller than No. 6 AWG (10 mm²).
5. **SAVE THESE INSTRUCTIONS.**

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4.0 Choosing a Location

IMPORTANT: Because of the combined weight of the hot tub, water and users, it is extremely important that the base upon which the hot tub rests be smooth, flat, level and capable of uniformly supporting this weight, without shifting or settling, for the entire time the hot tub is in place. Visit www.d1spas.com for weight information. If the hot tub is placed on a surface, which does not meet these requirements, damage to the skirt and/or the hot tub shell may result. Damage caused by improper support is not covered under warranty. It is the responsibility of the hot tub owner to assure the integrity of the support at all times. We recommend a poured, reinforced concrete slab with a minimum thickness of 4 inches (10 cm). Wood decking is also acceptable provided it is constructed so that it meets the requirements outlined above.



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



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

The hot tub 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 hot tub 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 hot tub 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 hot tub, we suggest that you take into consideration:

- The proximity to changing area and shelter (especially in colder weather).
- The pathway to and from your hot tub (this should be free of debris so that dirt and leaves are not easily tracked into the hot tub).
- The closeness to trees and shrubbery (remember that leaves and birds could create extra work in keeping the hot tub 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 hot tub under an unguttered roof overhang since run-off water will shorten the life expectancy of the hot tub 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 hot tub for servicing, it is highly recommended that you plan your outdoor installation to provide full access to the entire hot tub. Please take this into consideration when placing the hot tub in a deck or enclosed by a surrounding.
- Consider locating your hot tub away from any reflective surface or glass to prevent any damage to the synthetic skirt.
- Do not shim the hot tub. To ensure proper support the hot tub must sit flat on the intended foundation.

4.2 Indoor Location

For indoor installations many factors need to be considered before installing a hot tub 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.

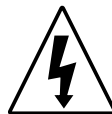
- **Proper Foundation: Consult a Structural Engineer when considering a foundation that will adequately support the hot tub the entire time it is in place.** Proper support is critical especially if the hot tub is to rest on a second story or higher. For spas that are to rest on balconies, roofs or other 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 hot tub rests on has adequate drainage and can handle the entire contents of the hot tub. Be sure to make provisions for ceilings and other structures that may be below the spas installation. Areas around your hot tub 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 hot tub 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 hot tub for servicing, it is highly recommended that you plan your indoor installation to provide full access to the entire hot tub.
- **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 hot tub.** To ensure proper support the hot tub must sit flat on the intended foundation.

5.0 General Electrical Safety Instructions

Your new Dimension One hot tub is equipped with the D1 SmartHUB™ Touch Control system. It contains the most advanced safety and self-protective equipment in the industry. Nonetheless, this hot tub must be installed properly to ensure dependable usage. Please contact your local dealer or local building department should you have any questions regarding your installation.



Proper grounding is extremely important. D1® spas are equipped with a current collector system. A pressure wire connector is provided on the surface of the control box 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 hot tub, or copper clad grounding rod buried within 5 feet (1.5m) of the hot tub. Bonding wire must be at least No. 8 AWG (8.4 mm²) solid copper wire. This is a most important safety assurance feature. Before installing your hot tub, check with your local building department to ensure installation conforms to local building codes.

6.0 Electrical Installation Instructions

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

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

This hot tub 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 hot tub.**

Supplying power to the hot tub, which is not in accordance with these instructions, will void both the independent testing agency listing and the manufacturer's warranty.

2. The power supplied to this hot tub must be a dedicated circuit with no other appliances or lights sharing the power provided by the circuit.
3. To determine the current, voltage and wire size required, refer to Section 7.0 "Power Requirements" (page 16) for your specific hot tub model.
 - Wire size must be appropriate per NEC and/or local codes.
 - We recommend type THHN wire. All wiring must be copper to ensure proper connections. **Do not use aluminum wire.**
 - When using wire larger than #6 (10 mm²), add a junction box near the hot tub and reduce to short lengths of #6 (10 mm²) wire to connect to the hot tub.
4. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Article 422.20 of the National Electrical Code/USA, ANSI/NFPA 70. The disconnecting means must be readily accessible to the hot tub's occupant but installed at least 5 feet (1.5m) from hot tub water.
5. 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.
6. The electrical circuit supplied for the hot tub must include a suitable ground fault circuit interrupter (GFCI) as required by NEC Article 680.42/USA.
7. The electrical circuit supplied for the hot tub must include a suitable residual-current device (RCD) as required by local codes and regulations.
8. For Europe, the hot tub should be supplied through a residual current device (RCD) with a rated tripping current not exceeding 30mA (IEC 60335-2-60).
9. For Germany, the hot tub should be supplied through a residual current device (RCD) with a rated tripping current not exceeding 10mA (IEC 60335-2-60).

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10. To gain access to the hot tub's power terminal block, you will need to remove the center cabinet panel by removing the panel screws, Figure 6.0.
11. Once you remove the panel screws, grab the sides of the panel and gently pull the cabinet forward and then up to remove. Place the panel in a safe location to prevent it from being damaged.
12. Then remove the door screws for the access door on the control box, Figure 6.0a.
13. Now feed the electrical cable through to the terminal pipe ending at the control box, Figure 6.0b.
14. Connect wires to the terminal block (Figures 6.0c-6.0d). ALL WIRES MUST BE SECURELY CONNECTED or equipment damage could result.
15. Install the control access box door and reinstall the cabinet panel(s).

IMPORTANT NOTICE: Make sure to install the drain hose bib, that is packaged in the warranty pack, on to the hot tub. Securely screw in and close the drain valve and drain cap.

Figure 6.0

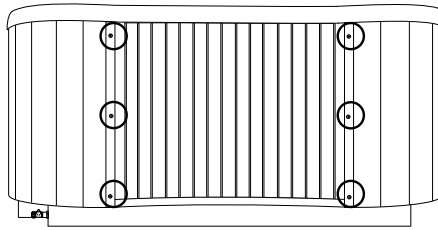


Figure 6.0a

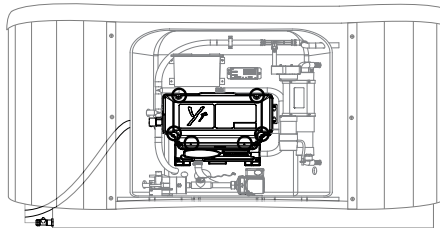
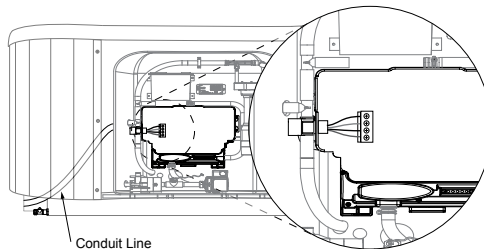
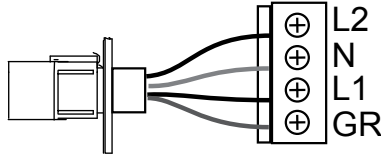


Figure 6.0b

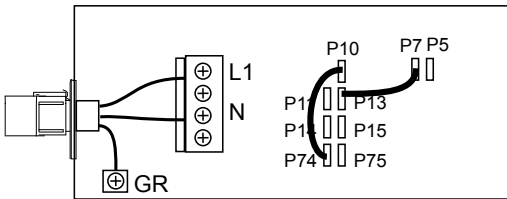


DOMESTIC
Figure 6.0c
240V 60Hz Wiring



EXPORT
Figure 6.0d
230V 50Hz Wiring

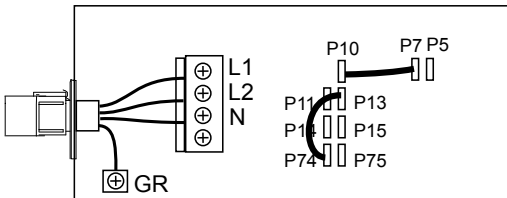
1-Phase Connection



PJ1 wire connects to:
P7 and P13

PJ2 wire connects to:
P10 and P74

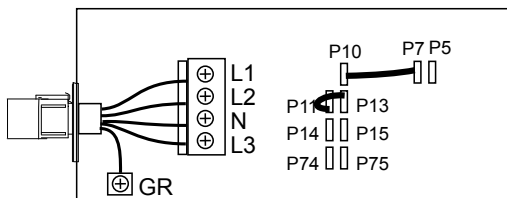
2-Phase Connection



PJ1 wire connects to:
P7 and P10

PJ2 wire connects to:
P13 and P74

3-Phase Connection with Single Neutral



PJ1 wire connects to:
P7 and P10

PJ2 wire connects to:
P11 and P13

BAY Collection

7.0 Power Requirements

7.1 North American 240V 60Hz Models

Model	Power	Branch Circuit	Circuit Protection	Wire Gauge
Bay Collection	240V	3 wires + Ground	40A or 50A	#6 AWG

7.2 Export 230V 50Hz Models

Model	Power	Circuit Protection
Bay Collection	230V	1 x 32A
		2 x 16A
		3 x 16A

8.0 Hot tub Fill Up Procedure

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

IMPORTANT NOTICE: Make sure to install the drain hose bib, that is packaged in the warranty pack, on to the hot tub. Securely screw in and close the drain valve and drain cap.

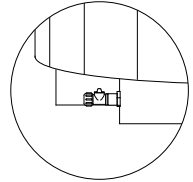


Figure 8.0a

1. Prepare The Hot tub For Filling

- Clear all debris from the hot tub. (Although the hot tub shell has been polished at the factory, you may want to treat it with a specially formulated hot tub cleaner.) Consult your authorized Dimension One dealer for additional information prior to filling hot tub.
- Remove the filters as illustrated in Section 13.1

CAUTION: Do not leave the spa shell exposed to the sun during the filling process. Leaving it exposed could result in surface damage and not covered under the warranty.

2. Fill Hot tub

- Place the end of your garden hose into one of the empty skimming filter fitting. Remove both of the air bleeder caps to allow the air to escape as the hot tub fills, page 21. Fill hot tub half way, then place the garden hose into the opposite filter fitting while adding the remaining fill water.

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



WARNING: TO DECREASE RISK OF INFECTION OR DISEASE.

Fill hot tub with clean tap water from garden hose, to reduce risk of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory ailments. Fill the spa until the water level is about 6" below the top of the spa. (DO NOT OVERFILL!).

IMPORTANT: Always fill your hot tub through both filter fittings after draining. Failure to do so may cause air to be trapped in the pumps, preventing them from circulating water.

3. Turn On Power

Turn on power to hot tub at the home’s circuit breaker. The filter pumps will turn on for one minute each to blow out the plumbing lines, page 22. Then the heater and circulation pump will automatically activate. Activate Jets Pump 1 to prime the pump, page 24. Let it run for about 10-15 seconds. Repeat this process with all the pumps. Once, all the pumps are primed, cleared of airlocks, and there are no flow errors, reinstall the filter cartridges and close the air bleeder caps.

4. Add Start-Up Chemicals

Turn on the jet pumps when adding chemicals in order to circulate the chemicals thoroughly. Add the hot tub water chemicals as recommended by your authorized hot tub dealer. See Section titled “Water Quality Maintenance” for general guidance.



WARNING: RISK OF POISONING OR DEATH.

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

5. Establish A Stable Sanitizer Reading

Establish a stable sanitizer reading of no less than 3.0-4.0 ppm free chlorine or 2.0-4.0 ppm bromine. To ensure healthy water conditions, always maintain a constant sanitizer reading within the levels recommended by the Pool & Hot Tub Alliance. If sanitizer levels cannot be stabilized, perform the decontamination procedure steps 8-14 on the following page.

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6. Set Hot tub To Heat

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

- The display on the control panel displays the actual temperature of the hot tub water. Tap  or  to increase or decrease the water temperature in 1 degree increments.

Note: The temperature range for the hot tub is 59 to 104°F (15 to 40°C).

7. Place Cover On Hot tub

- Keeping the insulating cover in place anytime the hot tub 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.
- Align the cover on the spa and use the included hardware to attached the cover locks to spa cabinet.



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 8-14 below are only required when sanitizer levels are unstable after performing Hot Tub Fill Up Procedures steps 1-5. Disregard steps 8-14 if sanitizer levels remain stable after performing steps 1-5 above.

Note: The “Decontamination Procedure” should also be used after the hot tub has been “Winterized” (page 43) or has been sitting without power for an extended period.

8. 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 HOT TUB 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 hot tub.

Water Fill Volume by Model

Model	Average Fill Volume*	Sodium Dichlor
Amore Bay.....	415 Gal (1,571 L)	10.4 oz

*Use average fill volume for chemical maintenance

9. Leave hot tub cover open during this step to allow excessive chemical vapors to exit hot tub, protecting pillows and plastic knobs from chemical attack. If hot tub is indoors, open doors and windows for proper ventilation. Turn on all hot tub jet pumps for 1 hour and place all massage selector knob(s) in their center “combo” position.

Note: You will need to activate the jet pumps every 30 minutes since these functions have an automatic 30-minute time-out that turns them off.



WARNING: RISK OF PERSONAL INJURY!

- To decrease the risk of injury, drowning or entrapment, never leave your hot tub unattended for any reason while the cover is open and accessible, especially to small children and animals!
- Use the hot tub straps and clip tie downs to secure the cover when not in use. This will help to discourage unsupervised children from entering the hot tub and keep the hot tub cover secure in high wind conditions. There is no representation that the cover, clip tie downs, or actual locks will prevent access to the hot tub.
- Precautions should be taken to minimize your exposure to chemical vapors (that could cause lung, brain, or skin damage).

10. Turn off power to the hot tub at the circuit breaker, then drain tub as outlined in Section 13.5.
11. Refill hot tub with clean tap water from garden hose. Fill the spa until the water level is about 6” below the top of the spa. (DO NOT OVERFILL!).

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

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

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



WARNING: RISK OF PERSONAL INJURY.

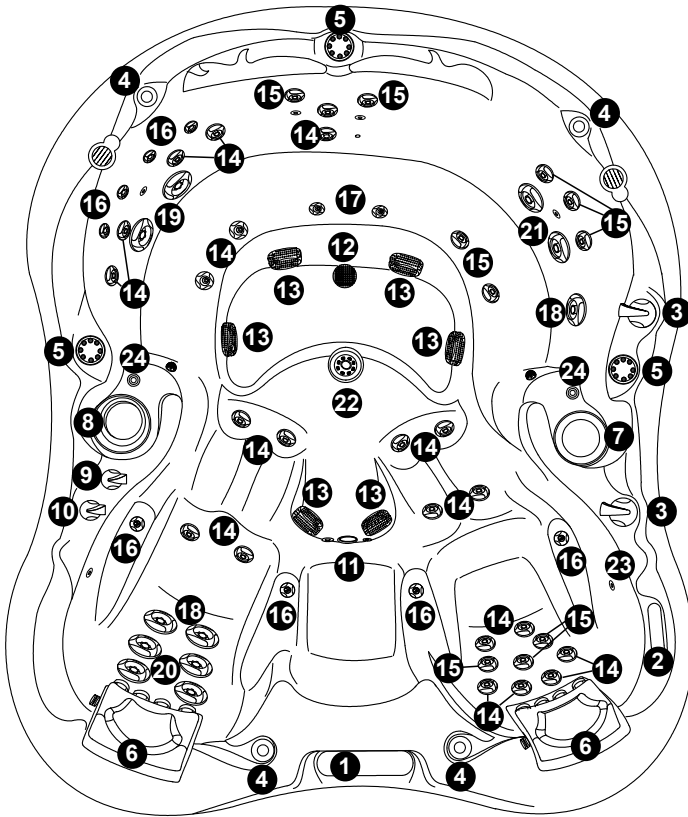
- To decrease the risk of injury, entrapment or drowning, never leave your hot tub unattended for any reason while the cover is open and accessible to small children and animals!
- To decrease the possibility of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory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

14. Establish a sanitizer reading no less than 3.0-4.0 ppm free chlorine or 2.0-4.0 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 hot tub is ready for use. To ensure healthy water conditions, always maintain a constant sanitizer reading within the levels recommended on the inside cover of this manual. If sanitizer levels are not stable at this time, it will be necessary to repeat this procedure in its entirety until stable sanitizer readings are achieved.

IMPORTANT: Follow the water chemistry parameters as defined by the Pool & Hot Tub Alliance.

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

9.0 Hot tub Features



Amore Bay Model Shown (features vary by model)

- | | |
|---|---|
| 1. Control Panel | 15. VCR Mini Storm Directional Jets (10 ea.) |
| 2. Massage Sequencer | 16. VCR Euro Cluster Storm Dual Rotational Jets (8 ea.) |
| 3. Massage Selectors (2 ea.) | 17. VCR Euro Cluster Storm Directional Jets (2 ea.) |
| 4. Cupholders (4 ea.) | 18. VCR Power Storm Directional Jets (3 ea.) |
| 5. Liquid FX™ Fountain (3 ea.) | 19. VCR Power Storm Rotational Jets (2 ea.) |
| 6. Jet Therapy Pillows™ (2 ea.) | 20. VCR Power Storm Dual Rotational Jets (4 ea.) |
| 7. UltraPure™ Filter/Skimmer | 21. VCR Power Storm Multi Port Jets (2 ea.) |
| 8. Skimmer (Pump 1) | 22. Typhoon Jet |
| 9. Fountain Diverter Valve | 23. Bullet Lens Lights (6 ea.) |
| 10. Fountain Control Valve | 24. Air Relief Valve (2 ea.) |
| 11. Main Light | |
| 12. Floor Drain | |
| 13. Suction Covers (6 ea.) | |
| 14. VCR Mini Storm Rotational Jets (22 ea.) | |

Hot tub features and operations are subject to change without notice

BAY Collection

10.0 Start-up

10.1 Start-up Sequence

During the start-up sequence, the initializing screen will appear showing the software information, Figure 10.1a, then the hot tub will display the Home Menu, Section 10.2.



Figure 10.1a

10.2 D1 SmarthUB™ Touch Control

Your Dimension One Spas® hot tub is equipped with a state-of-the-art LCD touch screen control panel. Access to all menus can be achieved by using the touch screen. Programming features can be easily programmed with our user-friendly design. With the ease of use, there will more time to enjoy the benefits of your hot tub.

A. Home Menu

The Home Menu, Figure 10.2a, provides access to hot tub functions and programming. Operation is made easy by the interactive touch-screen control panel. If there is no activity for 2 minutes, the display will time-out into a sleep mode. To reactivate the display, just tap and briefly hold the display then drag the Dimension One Spas logo into the box, Figure 10.2b

NOTE: When a feature is on, the icon will be illuminated.

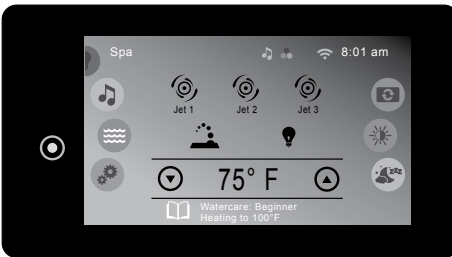




Figure 10.2a














Figure 10.2b



Temperature Control: Allows you to adjust the set temperature of the hot tub:





- Increase the temperature by tapping  in 1° increments.
- Decrease the temperature by tapping  in 1° increments.

Note: The temperature range for the hot tub is 59 to 104°F (15 to 40°C). When the hot tub is heating a message will appear on the Home Menu.

-  = **All ON/OFF Button:** Tap one once to activate all of the Jets pumps and lights.
-  = **Jet Button:** Tap one of the Jets pumps button to activate, page 24.
-  = **Fountain Button:** Tap button to activate the fountain(s).
-  = **Light Button:** Tap button to turn the lights on or off. Will default to the last setting used.
-  = **Lighting Effects Button:** Tap to access the menu to operate the various lighting options, page 25.
-  = **Music Button (if equipped):** Tap to access the menu to operate the audio system and settings, page 27. If the hot tub does not have the stereo option, there will not be a button on the control panel.
-  = **Home Button:** Tap any time to return to the Home Menu.
-  = **Settings Button:** Tap to access the programming and setting menus, page 31.
-  = **Invert Button:** Tap to enter the invert selection menu.
-  = **Contrast Button:** Tap to enter the contrast selection menu.
-  = **Snooze Button:** Tap to enter a sleep mode. A message is displayed prompting you to tap the icon to continue.

B. Status Notifications

The status notifications display at the top of the Home Screen menu. When certain components, features or programs are on, their icons are represented there.

-  = **Stereo System Icon (if equipped):** Displays whenever the stereo is on, page 27.
-  = **Lighting System Icon:** Will displayed to show that a Liquid FX™ system is connected, page 25.
-  = **Error Indicator Icon:** Displays when there is error message that needs to be addressed. The icon will also appear under the temperature reading as a reminder, page 47.
-  = **SmartTub® Icon (if equipped):** Displays when there is a connection to the home router.

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6:45am = **Time Indicator:** The time will always be shown when the Home Menu is displayed. The appearance will vary depending on whether the clock is set to a 12-Hour or 24-Hour configuration, page 35. The default setting is 12-Hour.

Note: The time will automatically adjust for daylight saving time.

11.0 Operating Instructions


11.1 D1 SmartHUB™ Touch Control

Your D1 hot tub is equipped with a D1 SmartHUB™ Touch Control that offers an advanced high resolution interactive touch screen. Many of the hot tub functions can be access through the Home Menu, Figure 11.1a.



Figure 11.1a

11.2 Activating the Jets Pumps

From the Home Menu, (Figure 11.1a), tap  to turn the Jets pumps on. Anytime a pump has been manually turned on, it will automatically turn off after approximately 30 minutes. If at this time you desire more jet operation you may simply turn the pump(s) back on.

 = **Jets Pump 1 Button**
Jet 1

 = **Jets Pump 2 Button**
Jet 2

 = **Jets Pump 3 Button (if equipped)**
Jet 3


1. Tap the Jets 1 button to turn the pump #1 on, in low speed, tap again to turn the high speed on, tap again to turn the pump off.
2. Tap the Jets 2 button to turn the pump #2 on and off.
3. Tap the Jets 3 button to turn the pump #3 on and off.

 JETS ICON
WHEN OFF

 JETS ICON
WHEN ON

Note: When a jets pump is on, the jets icon will spin.

11.3 Lights Menu

From the Home Menu, (Figure 11.3a), slide the left wheel until the light icon () is selected to enter the Light submenus. Then screen will display the Light Submenu (Figure 11.3b). The default setting when you enter the submenu is zone 2. From this menu, you can control the interior lighting and blending effect. When you slide the right wheel, the lights will turn on, either in zone 1 or zone 2.

Note: The lights automatically turn off after 1 hour. They can be reactivated if needed. If you hot tub is equipped with exterior lights, they are controlled by a sensor, activating at dusk and turning off at dawn.

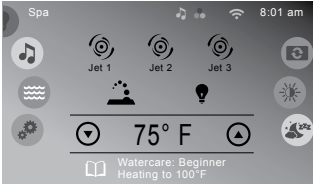


Figure 11.3a

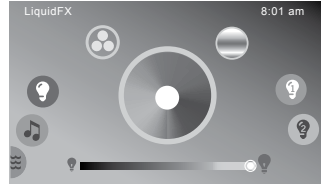










Figure 11.3b

-  = **Zone 1 Button:** Tap to turn ON the main light. When feature is ON the light bulb is be illuminated.
-  = **Zone 2 Button:** Tap to turn ON all around lights. When feature is ON the light bulb is be illuminated.
-  = **Synchronization/De-synchronization Button:** Tap to either synchronize or desynchronize the main and all around lights. They can be independently controlled. When the synchronizing feature is on the icon be illuminated in yellow.
-  = **Blending Button:** Tap to turn ON the blending modes. Once to turn ON the slow blending mode, tap a second time to turn ON the fast blending mode, tap a third time to turn OFF.
Note: When the blending mode is turned OFF the lights will default to the last solid color used.
-  = **Slow Blending Button:** Turns on when the you tap the blending mode. The lights will blend in a slow and calm mode.
-  = **Fast Blending Button:** Tap the blending mode again to blend the lights in a quick blending mode.
-  = **Color Selection Wheel:** Tap a color from the wheel to turn it ON.
-  = **Intensity Slider:** Slide from side to side to increase and decrease the intensity level.

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11.4 Music Menu

Models equipped with the optional audio system offer an enhanced hot tub experience. The Bluetooth® Stereo System works with most Bluetooth wireless devices and provides access to local FM stations. These models also include four hot tub engineered speakers for unsurpassed sound quality and long-life, and an integrated subwoofer for a superb acoustical sound.

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



Figure 11.4a

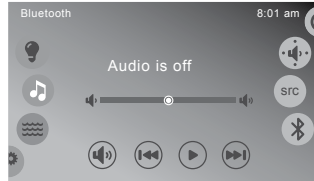



Figure 11.4b

To access the Music Menu, slide the left wheel to the music button (), Figure 11.4a. The display will change to Figure 11.4b. Once you enter the Music Menu, slide the right wheel to select a feature.



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



= **Power Button:** Tap to turn the stereo on and off, page 27.



= **Bluetooth Button:** Tap to use your Bluetooth device with the stereo. Can also be accessed by using the “src” source button.



= **Source Button:** Tap to access the source submenu, page 27.



= **Audio Settings Button:** Tap to access the audio submenu, page 27.



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



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



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





= **Volume Slider:** Slide from side to side to increase and decrease the volume level.

Artist
Track Name

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

11.5 Turning the Stereo ON

1. From the stereo menu, Figure 11.5a, press the power button () to bring up the power on display, Figure 11.5b.
2. Press the power icon () in the middle of the display.

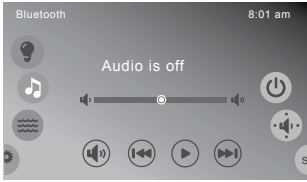


Figure 11.5a

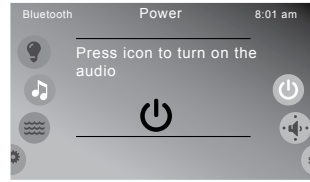



Figure 11.5b

11.6 Audio Settings Submenu

To enter the Audio Settings Menu, slide the right wheel to the settings button (), Figure 11.6a. The display will change to Figure 11.6b. The Audio Settings menu offers an enhanced audio experience by providing adjustments to certain settings.

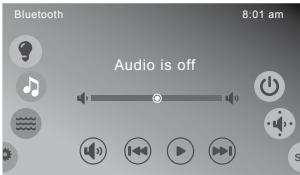


Figure 11.6a

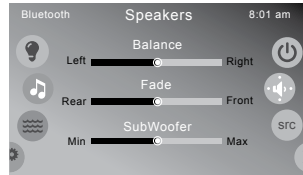






Figure 11.6b

Left  Right = **Balance Slider:** Slide from side to side to increase and decrease the balance level between the left and right.

Rear  Front = **Fade Slider:** Slide from side to side to increase and decrease the fade level between the front and back.

Min  Max = **Subwoofer Slider:** Slide from side to side to increase and decrease the subwoofer level from minimum to maximum.

11.7 Source Menu

Slide the right wheel to the source icon () to select an audio source to listen to, Figure 11.7a. Only the devices available will be displayed.

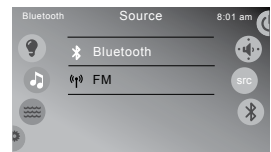


Figure 11.7a

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11.8 Bluetooth® Pairing Instructions

To pair your Bluetooth device to the Bluetooth Stereo System, follow these steps:

1. Tap the music icon on the control panel screen then tap either the Bluetooth or SRC, Figure 11.8a, button to select the Bluetooth option.
2. From your Bluetooth device, make sure that the Bluetooth setting is ON.
3. Follow the pairing instructions for your Bluetooth device and connect to the “Bluetooth Stereo System” device that appears on your screen.
4. If asked for a pin code, enter the code “5555” and then connect.
5. If the pairing process is successful, your Bluetooth device will show “Connected” right next to “Bluetooth Stereo System”.

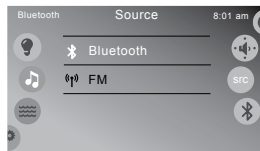


Figure 11.8a


11.9 Adjusting Jet Flow

Your hot tub is equipped with D1's Accent Jets that can adjust and interchange with a simple twist motion for a customized massage. The water flow and water pressure of your jets can be increased and decreased by rotating the outside jet face. Rotate the outside jet face clockwise to decrease or shut off water flow. Turn counterclockwise to turn on or increase water flow.

Note: Always keep at least 6 adjustable jets open at all times.



11.10 Fountain Control

Turn on the fountain by tapping the fountain button () on the control panel. Use the fountain control valves (page 21) to increase or decrease output.

Note: When in the OFF position, some water may still flow through. This is considered normal. It also prohibits any “standing water” in the plumbing lines.



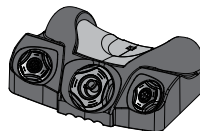
11.11 Underwater Magnetic Switches

D1's exclusive magnetic switch gives you underwater fingertip control of your hot tub's major functions. Provides quick access to preset functions such as turning on a pump in one position and turning on the lights in the other position.



11.12 Jet Therapy Pillow™

D1's patented Jet Therapy Pillow provides you with the only adjustable neck and shoulder massage system in the industry. The Jet Therapy Pillow has five adjustable height positions. Gently pull the pillow and slide it up or down the guide rails. Adjust the water flow and water pressure from the jets by rotating their nozzles clockwise or counterclockwise.



11.13 Selecting the Desired Massage Action

Your D1 hot tub is equipped to allow you to customize the massage action you desire. Each model incorporates massage selector(s) that allows you to customize the massage and performance by diverting water between various jet systems. Simply turn the massage selector to divert water pressure to various jet groups.



Note: It is considered normal for sound levels within the valve to vary between positions due to the large amounts of water flowing through it. For optimum filtration benefits, leave the valve in the center position when the hot tub is covered.

11.14 Status Light

The indicator light located on the front cabinet panel of the hot tub is an early detection system that will notify you when the hot tub needs immediate attention. The light logic is as follows:

- Solid Blue light: Hot tub functioning normal. (UltraPure™ is running, all operations are normal.)
- Flashing Blue light: Maintenance reminder
- Solid Red light: Hot tub error (indicates that immediate attention is required to clear or fix an error code.)

11.15 Dynamic Massage Sequencer™

The Dynamic Massage Sequencers control the jets in the lounge areas to sequentially massage different muscle groups, Figure 11.15a. When selecting a massage sequence, the human figure on the control panel displays corresponding lights, allowing a preview of that sequence before starting it.



Figure 11.15a



= **Light Button:** Turns the hot tub lights on and off.



= **Jets button:** Turns the jet pump associated with the Sequencer on or off.



= **Speed button:** Changes the amount of time between each step of the massage sequence. The default time is 5 seconds intervals. The speed light will blink quickly.

- Press the speed button again to change it to 15 seconds intervals. The speed light will blink slowly.
- Press again to change it to 30 seconds intervals. The speed light will blink very slow.

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= **Start/Stop Button:** Press to start a massage sequence. Press again to pause the massage in one of the six zones. Press again to reactivate the sequence.



= **Sequence Button:** Chooses between the six different massage sequences. Continually press to scroll through the zones until the desired sequence is reached. The light glows, under the selected number, to indicate the current sequence that is active.

11.16 Operating the Dynamic Massage Sequencer

To operate the massage sequencer, follow these steps.

1. Press the Jets button to turn on the jet pump.
2. Continually press the Sequence button to select one of the six massage options.
3. Press the Speed button to select the one of the three options.
4. Press the Start/Stop button to begin the sequence.

Sequence 1: Steps through each individual zone one at a time, from zone A through F, then reverses the sequence.

Sequence 2: Activates all zones at once, then deactivates individual zones one at a time, from A through F. Then it reverses that sequence.

Sequence 3: Activates alternate groups of zones. It activates Zones A, C, and E all at once, then switches to Zones B, D, and F.

Sequence 4: Steps through each individual zone one at a time, from zone A through F, then it starts over in groups of two zones – activating zones A and B, then zones B and C, etc.

Sequence 5: Starts with Zone A and adds new zones one at a time until all zones are active. Then it reverses the sequence by removing zones one at a time until all zones are inactive.

Sequence 6: Activates random pairs of zones at one time, starting with adjacent zones, (A and B, then B and C, etc.), then opposite zones (A and F, then B and F, etc.), and finally the middle zones (B and E, then C and D, etc.).

12.0 Programming Instructions


Your D1 hot tub is equipped with setting menus that allow you to program and activate different components of the hot tub. With our D1 Smart Touch Control, programming your hot tub has never been easier. In the sections that follow, we will guide you through the process of programming the hot tub to fit your personal comfort. Slide the left wheel to the settings icon () to enter the Settings Menu, Figure 12.0a and 12.0b. Slide the right wheel to select one of the settings options.



Figure 12.0a

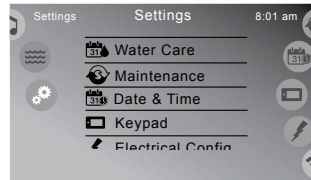

















Figure 12.0b

-  **Water Care** = **Water Care:** Provides access to the water care programming, page 32. You can also access the menu by tapping .
-  **Maintenance** = **Maintenance:** Provides access to the reminders and error log menu, page 34. You can also access the menu by tapping .
-  **Date & Time** = **Date and Time:** Provides access to the date and time programming, page 35. You can also access the menu by tapping .
-  **Keypad** = **Keypad:** Provides access to the units, contrast, display view and language settings, page 36. You can also access the menu by tapping .
-  **Electrical Config.** = **Electrical Configuration:** Provides access to the electrical programming, page 37. This menu is to be accessed by the dealer only. You can also access the menu by tapping .
-  **Wi-Fi** = **Wi-Fi:** Provides access to the settings, page 37.
-  **Miscellaneous** = **Miscellaneous:** Lets you program a “Warm weather” setting that allows filtering to occur even though the water temperature is high, page 39. You can also access the menu by tapping .
-  **About** = **About:** Displays software and system information, page 39. You can also access the menu by tapping .

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12.1 Water Care

Your D1 hot tub is equipped with 5 programmable modes, Figure 12.1a.

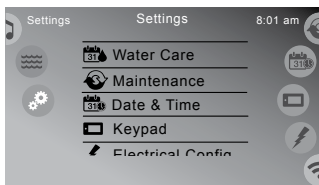


Figure 12.1a

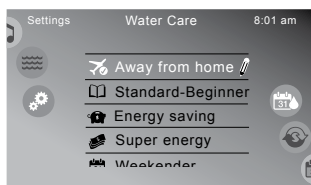










Figure 12.1b

Note: Economy mode will not allow the heater to turn on until the water temperature reaches 20°F (11°C) below the set temperature; unless programmed otherwise.

-  **Away from home** = **Away from home:** In this economy mode, the heater will not turn on until the water temperature reaches 20°F (11°C) below the set temperature.
-  **Standard-Beginner** = **Standard-Beginner:** In this standard mode, the heater can heat to maintain the set temperature.
-  **Energy saving** = **Energy saving:** In this economy mode, during the peak hours from Monday to Friday, the heater will not turn on until the water temperature reaches 20°F (11°C) below the set temperature. On the weekend, the temperature will be maintained as programmed.
-  **Super energy** = **Super energy:** In this economy mode, every day during the peak hours, the heater will not turn on until the water temperature reaches 20°F (11°C) below the set temperature.
-  **Weekender** = **Weekender:** In this economy mode, from Monday to Friday, the heater will not turn on until the water temperature reaches 20°F (11°C) below the set temperature. On the weekend, the temperature will be maintained as programmed.
-  = **Water Care button:** Multi-purpose button. It can be used to select an option, to go back to the previous menu, and to exit and return to the settings menu.
-  = **Pencil Icon:** This icon will appear next to the water care mode that has been programmed. Tap to enter that mode to make changes, Figure 12.1b.
-  = **Trash Can Icon:** This icon will appear next to an economy or filter cycle that has been programmed. Tap to delete that cycle.

A. Programming the economy cycles for all modes

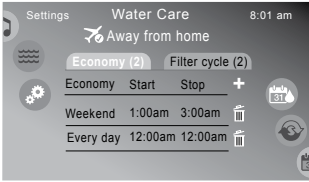


Figure 12.1c

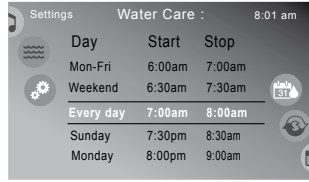


Figure 12.1d

1. Tap **Economy (2)** to program cycles, Figure 12.1c.
2. Then tap the plus sign, **+**, to add a new cycle or tap the cycle to change, Weekend 1:00am 3:00am. The display will change to Figure 12.1d.
3. Slide each column (Day, Start or Stop) and select the day and time to program. When done, tap to return to the previous screen. Tap again to return to the settings menu.

B. Programming the filter cycles for all modes

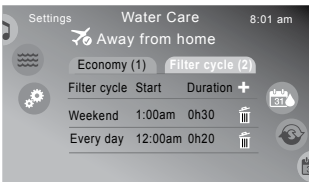


Figure 12.1e

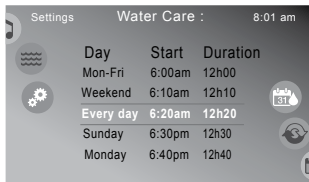


Figure 12.1f

1. Tap **Filter cycle (2)** to program cycles, Figure 12.1e.
2. Then tap the plus sign, **+**, to add a new cycle or tap the cycle to change, Weekend 1:00am 1h30. The display will change to Figure 12.1f.
3. Slide each column (Day, Start or Duration) and select the day and duration to program. When done, tap to return to the previous screen. Tap again to return to the settings menu.

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12.2 Maintenance Menu

Scheduled maintenance will keep your hot tub working at an optimal level. To help you accomplish this, reminders can be set to stay on track, Figure 12.2b.

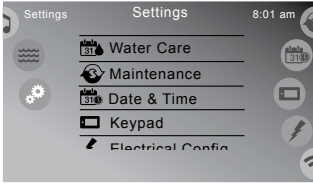


Figure 12.2a

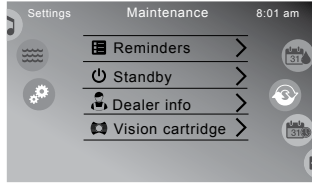







Figure 12.2b

-  **Reminders** > = **Reminders:** Allows you to set a timer, for a specific amount of time, that will countdown to remind you to either clean or replace certain components.
-  **Standby** > = **Standby:** A setting that will turn off all pumps for service. To return to normal operation, just cancel the function. This setting will time out in 30 minutes.
-  **Dealer info** > = **Dealer info:** Provides the contact information for your local dealer.
-  **Vision cartridge** > = **Vision cartridge:** Menu where you can deactivate the vision cartridge reminder if your hot tub is not equipped with one.



= **Maintenance button:** Multi-purpose button. It can be used to select an option, to go back to the previous menu, and to exit and return to the settings menu.

A. Reminders

To enter one of the maintenance menus, tap the tab. To reset the timer, tap  to enter the reset menu and tap the confirm tab. To reset press **Confirm**; to cancel press **Cancel** to return to the reminders menu. When a time allotted expires, a message will appear on the Home menu.

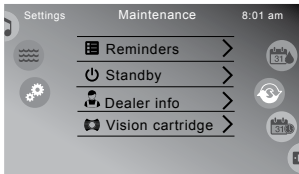


Figure 12.2c

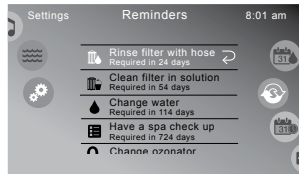






Figure 12.2d



= **Rinse filter:** A 30-day reminder to rinse the filters.



= **Clean filter:** A 60-day reminder to soak the filters in a cleaning solution.

-  = **Change water:** A 120-day reminder to change out the hot tub water.
-  = **Spa check:** A 730-day reminder to have a general check up performed.
-  = **Change ozonator:** A 540-day reminder to change out the ozonator with a new unit.
-  = **Reset all reminders:** Will reset all the reminders, at the same time, to the maximum setting.

B. Standby

When you tap the “Standby” tab, the display changes to Figure 12.2e. This feature turns the pumps OFF to perform routine maintenance such as cleaning the filters. To return to normal operations, press **Cancel**. This feature will timeout in 30 minutes. During the 30 minutes the display will remain in the Standby menu, Figure 12.2e.

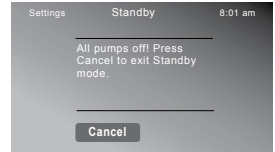


Figure 12.2e

C. Dealer info

When you tap the “Dealer info” tab, the display changes to Figure 12.2f. This feature provides the contact information for your dealer.

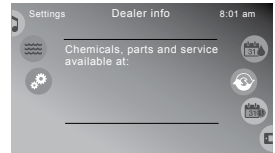


Figure 12.2f

D. Vision cartridge

When you tap the “Vision cartridge” tab, the display changes to Figure 12.2g. This feature deactivates the vision cartridge maintenance reminder, if you do not have the cartridges installed.

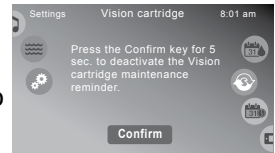


Figure 12.2g

12.3 Date & Time Menu

Programming the date and time is a simple and fast process. From the settings menu, Figure 12.3a, press the “Date & Time” tab. The display will change to Figure 12.3b.

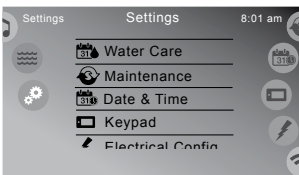


Figure 12.3a

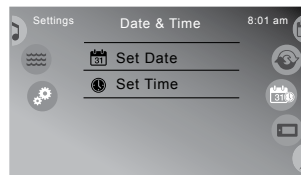


Figure 12.3b

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Tap either the “Set Date” or “Set Time” tab. Once the tab is press, the display will change and self-adjust to the current date or time. You can also scroll the columns if you would like to make changes, Figure 12.3c.



Figure 12.3c

12.4 Keypad Menu

From the keypad menu, you can program features that the control panel will display. Tap the “Keypad” tab, Figure 12.4a, to enter the programming features, Figure 12.4b.

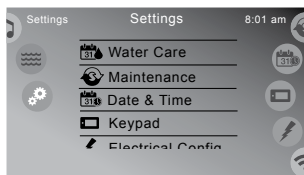


Figure 12.4a

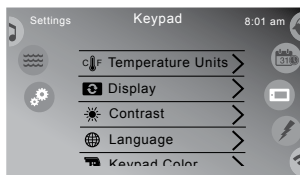


Figure 12.4b

A. Temperature Units

When you tap the “Temperature Units” tab, the display changes to Figure 12.4c. Tap either the Celsius or Fahrenheit tab to select the units to display.

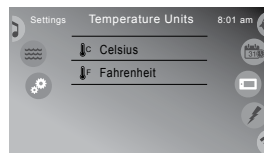



Figure 12.4c

B. Display

When you tap the “Display” tab, the display changes to Figure 12.4d. Tap either Normal or Inverted to invert the display. This feature can also be accessed by tapping the  button from the Home menu.

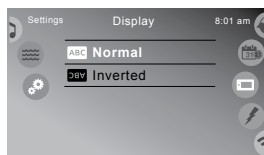



Figure 12.4d

C. Contrast

When you tap the “Contrast” tab, the display changes to Figure 12.4e. Tap either Day or Night contrast to determine the best viewing option for the control panel. This feature can also be accessed by tapping the  button from the Home menu.

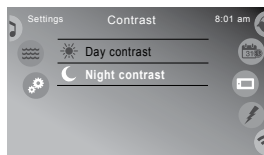


Figure 12.4e

D. Language

When you tap the “Language” tab, the display changes to Figure 12.4f. Tap the language you want to display on the control panel. Scroll the language list to view all the available languages.



Figure 12.4f

E. Keypad Color

When you tap the “Keypad Color” tab, the display changes to Figure 12.4g. This feature allows you to select the back-lighting color for the control panel. Scroll the color list to view all the available colors.

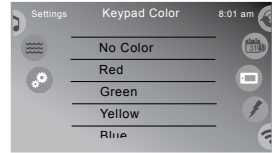


Figure 12.4g

12.5 Electrical Configuration Menu

The electric configuration menu is a feature that should only be access by your dealer or a qualified technician.

Note: Do not make any changes to the configuration once the hot tub has been installed and running. Contact your local dealer if you have any questions.

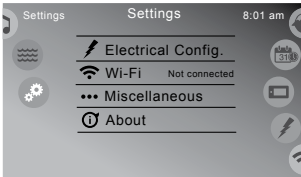


Figure 12.5a

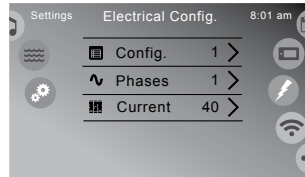


Figure 12.5b

12.6 Optional SmartTub® System

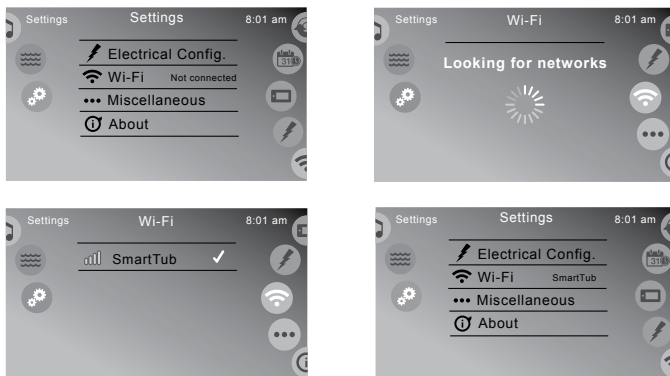
IMPORTANT: The spa must have the optional SmartTub® system installed.

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.
- Visit <https://m.smarttub.io/terms-of-service.html> for more information.

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Tap the “Wi-Fi” tab to load the available networks. Make sure that you have the SmartTub app installed on your device.



A. Pairing process

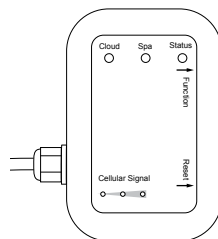
1. Download the SmartTub® app from the Google Play store or Apple App store.
2. Open the app and create an account.
3. Locate the SmartTub® sticker next the control panel of the hot tub. You can either scan the QR code with the SmartTub® app or manually input the serial number located below the QR code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

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

B. Indicator Lights

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

1. Cloud:
 - Blue light on - connected to cloud.
 - Blue light off - not connected to cloud.
2. Spa:
 - Blue light on - connected to spa controller
 - Blue light off - not connected to spa controller
3. Status:
 - Cyan light - breathing (slow pulsing) indicates the status is good.
 - Cyan light - flashing indicates that the system is completing a connection to the cloud.



- Green light - flashing indicates waiting for a connection to the cellular tower.
- Dark blue light - flashing indicates a SIM error.

4. Cell signal strength:

- 3 blue LED lights indicates cell signal strength.

C. Resetting the SmartTub® controller

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

12.7 Miscellaneous Menu

This menu offers two features.

A. Warm weather (Figure 12.7b)

When the pumps run, they generate heat that is transferred to the water creating an overheat situation. This setting will allow filtering although the temperature is high.



Figure 12.7a

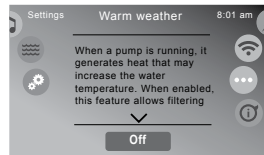


Figure 12.7b

12.8 About Menu

This menu provides the software and electrical information about the hot tub, Figure 12.8a.

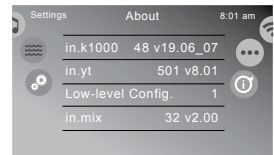


Figure 12.8a

13.0 Hot tub Maintenance

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

IMPORTANT BEFORE TURNING THE HOT TUB OFF FOR ANY MAINTENANCE.

This hot tub is equipped with a manual Thermal Cut Off (TCO) switch, that can be tripped if the spa is heating and the power is interrupted. If tripped, the hot tub will not heat when the power is restored. The TCO has to be manually reset. Contact your dealer if you have any questions for service, this is not covered by the warranty.

In order to prevent this, before turning off the power to the hot tub, verify that it is not heating by lowering the set temperature or by putting the hot tub in Stand-by mode (Settings =>Maintenance=>Stand by). Then wait 1 minute before turning the power off.



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 hot tub unless all suction guards, filter, filter lid, or skimmer assembly are installed to prevent body and/or hair entrapment.
- Never operate or use the hot tub 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 hot tub 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 7.
- 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 hot tub users to the potential risk of Hair, Limb, Body, Evisceration (disembowelment), and Mechanical Entrapment, page 7.

13.1 Cleaning the filters

IMPORTANT: To prevent debris from getting into the system during filter cleaning, D1 recommends that you shut off the power at the GFCI or enter “Standby Mode,” page 35.

A. Cleaning the Filter Cartridges

Your system has two filters. To remove and clean the filters, follow these steps. We recommend that you clean the filters once a month as preventative maintenance. Every other cleaning, soak the filters in filter cleaning solution and rinse thoroughly.

1. **Turn the breaker, to the hot tub, OFF or put the hot tub in “Stand By” mode!**
2. Access the filter under the skimmer basket, Figure 13.1a, lift the center float off the skimmer assembly until fully extended. Turn counterclockwise until the flats of the basket line up with the securing tabs. Pull the assembly straight up to remove, Figure 13.1c.
3. To access the UltraPure filter, turn lid counterclockwise until the flats line up with the securing tabs and pull, Figure 13.1b.
4. Remove each filter by twisting it $\frac{1}{4}$ turn counterclockwise and lifting out of its canister, Figure 13.1d.

5. Rinse the filters with a garden hose and a high-pressure nozzle, Figure 13.1e.
6. Reinstall the filters by reversing the steps for removal, replace the skimmer basket or lid and turn the power back on at the GFCI.

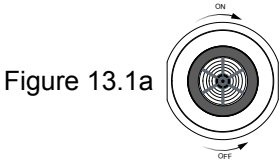


Figure 13.1a



Figure 13.1b

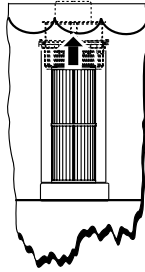


Figure 13.1c

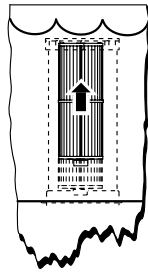
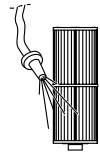


Figure 13.1d



CARTRIDGE

Figure 13.1e

B. Cleaning the UltraPure Inner Filter Screen

The Filter Screen is a black plastic perforated cylinder located at the bottom of the canister that holds the filter. It normally requires no maintenance. However, if the spa frequently says to clean the filter, or if the spa is reporting “low water flow,” clean the screen in addition to the filter(s).

IMPORTANT: To prevent debris from getting into the pump, be sure to remove any floating debris **BEFORE** removing the filter screen.

1. **Make sure that the breaker, to the hot tub, is OFF or put the hot tub in “Stand By” mode!**
2. First, remove the filter(s) as described in the Cleaning the Filter Cartridges section.
3. Then locate the black plastic Filter Screen at the base of the filter canister, Figure 13.1f.
4. Remove the filter screen by inserting the tip of a flat-blade screwdriver into the slot as shown, Figure 13.1g, and gently apply outward pressure until the catch releases.
5. Then lift the black screen to remove it from the filter canister, Figure 13.1h. Clean the screen with water, using pressure from the inside of each screen.
6. Press the Filter Screen back onto the base of the spa filter canister.
7. Replace the filter into its canister and replace the lid.
8. Then turn the power back on or exit the “Standby” Mode, if it was used, as described above.

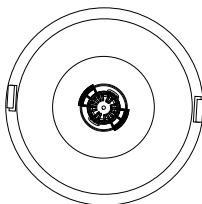


Figure 13.1f

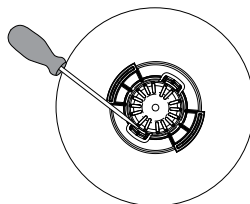


Figure 13.1g

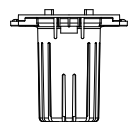


Figure 13.1h

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13.2 Surface Care

IMPORTANT: Do not use alcohol, ammonia, bleach or any citrus based cleaners on any of your hot tub surfaces. Do not use “409” type cleaners or other caustic solutions as they may damage the hot tub shell surface and void the warranty.

IMPORTANT: Protect the hot tub surface from the sun and the cold! Keep the hot tub covered when empty of water. Sunlight and extreme cold can damage the surface and cause it to peel or blister.

Use a hot tub cleaner and a soft rag to clean the inside of your hot tub. Be sure to thoroughly rinse the shell. After cleaning, you will want to restore your hot tub shell’s original luster by using Dimension One Spas’ Poli-Gloss.

13.3 Maintaining the Hot Tub Cabinet

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



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

13.4 Pillow Care

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

13.5 Draining

1. **Turn power OFF!**
2. Locate the hose bib, at the bottom of the hot tub, Figure 13.5a. Make sure that the valve is in the OFF position.
3. Unscrew the cap from the spa drain, Figure 13.5b.
4. Attach one end of your garden hose to the drain valve, Figure 13.5c. Place the other end in an area safe for water runoff.
5. Turn the hose bib switch to the open position to release the water, Figure 13.5d.
6. Once the hot tub is drained, turn the switch back to the closed position, remove the hose and reinstall the cap.

IMPORTANT: Keep the hot tub covered when empty of water. Sunlight and extreme cold can damage the surface and cause it to peel or blister.

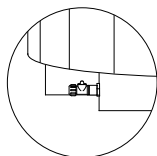


Figure 13.5a

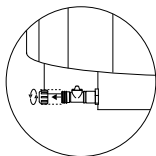


Figure 13.5b

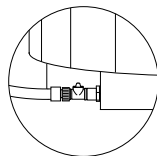


Figure 13.5c

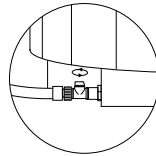


Figure 13.5d

13.6 Winterizing

All D1 spas are designed for year-round use. Your hot tub has an automatic freeze protection mode to circulate water during freezing weather, assuming the system has electrical power and the proper water level. However, if freezing weather prohibits normal use, an authorized service provider should winterize your hot tub. Draining the unit will not prevent freeze damage, as small amounts of water in the plumbing can expand and damage the system. Winterizing the unit is specifically not covered by the manufacturers' warranty, so you should contact a professional to both winterize and restart your hot tub if necessary. Freeze damage caused by winterizing your system is specifically not covered by your warranty.

13.7 Special Cold Weather Instructions

The system has a "Smart Winter" freeze protection mode to circulate water during freezing weather, assuming the system has electrical power and the proper water level. It will automatically activate the pump(s) to circulate water. This is a normal hot tub function. No corrective action is necessary. This feature protects the spa from freezing.

However, if there freezing conditions present and shutting down the spa for the winter is unavoidable, or where conditions may get too cold for the spa's "Smart Winter" mode to prevent freezing, the spa should be Winterized by a professional Dimension One dealer or authorized service representative.

13.8 Maintaining the Cover

UltraLast™ and UltraLast™ Extreme Covers: Dimension One Spas® is committed to maintaining the quality of your hot tub. That's why our patented UltraLast™ and UltraLast™ Extreme Covers have superior durability. They are UV, water, mold and mildew resistant to protect your tub against environmental exposure.

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.

Vinyl Covers: To maintain a "nearly original" appearance on your vinyl cover, it is recommended that a protectant with a high SPF (sun protection factor) is applied at least once a month if exposed to direct sunlight. You will also want to clean and condition your cover monthly or as needed based on exposure. For more information, consult your dealer.

A. To clean and condition the encasement (cover skin):

1. Use a garden hose to remove any debris.
2. Using a large sponge or soft bristle brush, use diluted or mild soap to gently scrub the top.
3. Rinse and clean and do not allow soap to dry on the cover. Do not use soap on the underside of the cover.
4. Please check with your Dimension One Spas dealer for recommended cover care and conditioning products. Use non-petroleum based conditioners to keep the vinyl supple.

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5. 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 vinyl.
4. Do not walk, sit or stand on the cover.
5. Do not drag or use the flaps/skirt or the cover lock straps to remove the cover.
6. Use only recommended cover lift systems.
7. Use only chemicals and cleaners recommended by Dimension One Spas.
8. Remember to keep spa covered when not in use.
9. Do not expose your spa to the sun for extended periods of time as UV rays can damage the interior surface.
10. Use caution when removing cover. Before removing cover, assure all locks have been released to avoid lock breakage and/or cover strap damage.

13.9 Restarting Your Hot Tub in Cold Weather

If you want to start up your hot tub 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 hot tub from operating properly and possibly damaging the equipment. We recommend you consult your dealer for guidance before attempting to restart your hot tub under these conditions.

14.0 Water Quality Maintenance

To decrease the risk of contracting a waterborne illness (e.g. an infection, bacteria or virus) and/or respiratory ailments, maintain water quality within specified limits. This will enhance your enjoyment and prolong the life of the hot tub's equipment. Doing so requires regular attention because the water chemistry involved is a balance of several factors. Procrastination regarding 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 dealer who can recommend the appropriate chemical products.



WARNING: FAILURE TO MAINTAIN WATER QUALITY WILL:

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

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

14.1 UltraPure™ Plus



WARNING: ALLOW LAMP TO COOL DOWN PRIOR TO REMOVING FROM HOUSING.



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

UltraPure Plus water management is the most advanced, UL-approved water purification system in the industry, Figure 14.1a. This dual system allows for jets and pumps to work in harmony, so you'll never have to sacrifice jet performance while cleaning your water. This patented system builds on UltraPure™ by introducing ultra violet light to the equation. Together ozone and UV light are unstoppable. Enjoy clean, pure water and peace of mind.

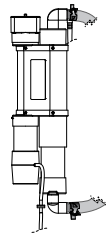


Figure 14.1a

The UltraPure Plus Water Management System silently cleans* your water. In order to keep the UltraPure Plus System running at its best, it is recommended that you change the UV bulb every 18 months. The UltraPure Plus UV compartment is located within the equipment bay. Contact your authorized Dimension One Spas dealer for replacement parts and/or to service your UltraPure Plus System.

*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.

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14.2 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 hot tub 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 hot tub 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 hot tub clean is severely affected as the pH moves beyond the ideal range. That is why almost all hot tub water test kits contain a measure for pH as well as sanitizer.

14.3 Sanitizing

To destroy bacteria and organic compounds in the hot tub 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 hot tub. 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. When adding hot tub shock (chlorine or non-chlorine) or pH balancing chemicals activate the jet pump(s) and leave the hot tub cover open for a minimum of 20 minutes. By doing this you will allow excessive chemical vapors to exit the hot tub, 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 HOT TUB

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 hot tub.

14.4 Other Additives

Many other additives are available for your hot tub. 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. For specific guidance, on maintaining water quality, consult your authorized dealer who can recommend the appropriate chemical products.

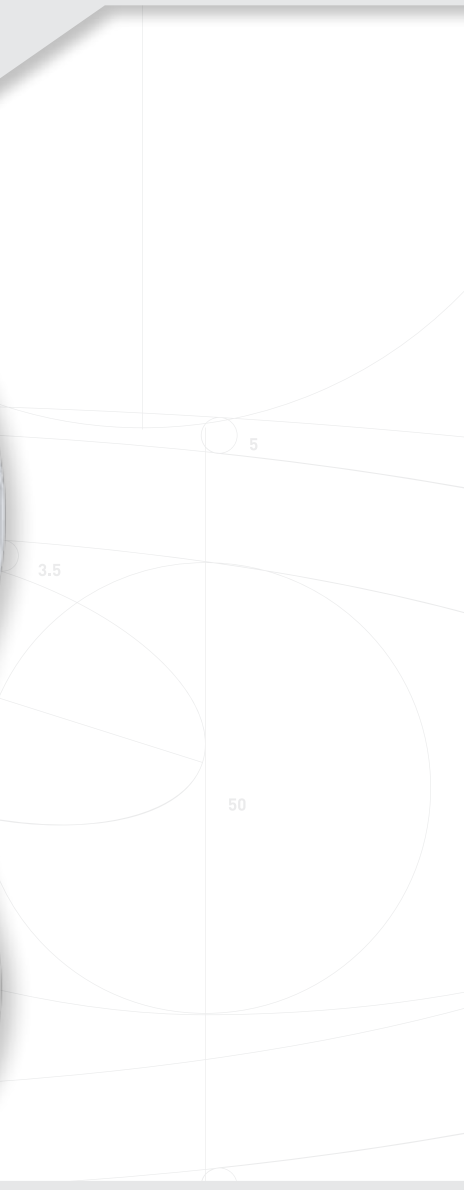
15.0 Protective Conditions/Error Messages

There are a number of unique functions designed into your D1 hot tub to protect it from damage and/or to aid in troubleshooting. The error indicator  as well as a screen will notify you when the hot tub needs immediate attention. Following is a listing of all the possible messages along with their meanings. **Always insist on genuine Dimension One Spas replacement parts.**

Code	Description
Hi Limit Over-heat	<p>WARNING DO NOT ENTER THE WATER!</p> <ul style="list-style-type: none"> • High limit circuit has tripped. • Hyperthermia risk. • Reset power, if problem persists, contact your dealer or service provider.
No flow condition	<ul style="list-style-type: none"> • Hot tub not detecting water flow. Follow instructions on the screen. If problem persists, contact your dealer or service provider.
Unexpected flow condition	<ul style="list-style-type: none"> • The hot tub has detected water flow when it is not requested. Reset power, if problem persists, contact your dealer or service provider.
Communication Software update errors	<ul style="list-style-type: none"> • Reset power, if problem persists, contact your dealer or service provider.



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