

1977

25 YEARS

2002

2003

Sarena Bay



Owner's Manual



DIMENSION ONE SPAS®
HOME HYDROTHERAPY

2003 Sarena Bay™
Owner's Manual

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Safety First

Your safety, and the safety of your family and friends is very important! It is vital to everyone's safety that you read and heed the following safety precautions. Review them as often as necessary to ensure that your enjoyment of your new Dimension One Spas, Inc. product is always safe.

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

When installing and using this equipment, basic safety precautions should always be followed, including:



Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this spa unless they are supervised at all times.



Risk of Serious Injury or Death. The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible.

Never operate the spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.



Risk of Electric Shock. Install at least 5 FEET (1.5 m), from all metal surfaces. As an alternative, a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected 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 can.



Risk of Electric Shock. Do not permit any electrical appliance, such as a light, telephone, radio, television, etc. within 5 feet (1.5 m) of a spa.



The electrical supply for this spa must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with section 680-42 of the National Electrical Code, ANSI/NFPA 70-1993. The disconnect must be readily accessible and visible to the spa occupant but installed at least 5 feet (1.5 m), from the spa water.



A grounding wire connector is provided on this spa 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 (1.5 m) of the spa.



To Reduce the Risk of Injury: The water in a spa should never exceed 104° F (40° C). Water temperatures between 100° F (38° C) and 104° F (40° C) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.



To Reduce the Risk of Injury:

Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 100° F (38° C).



To Reduce the Risk of Injury:

Before entering a spa, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary as much as +/- 5° F (2° C).



To Reduce the Risk of Injury:

The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.



To Reduce the Risk of Injury:

Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.



To Reduce the Risk of Injury:

Persons using medication should consult a physician before using a spa since some medication may induce drowsiness, while other medication may affect heart rate, blood pressure, and circulation.



Do not attempt to remove the light housing cover without lowering the water level below the light housing cover.



Do not block air intakes located on the front left corner underneath the hot tub (the front right corner for the Chairman II and Triad II) and under the equipment access panel. Resulting malfunctions are not covered under warranty.

IMPORTANT SAFETY INSTRUCTIONS (CSA SAFETY INFORMATION)

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 supplying 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 or spa to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.
4. All field-installed metal components such as rails, ladders, drains or other similar hardware within 3 meters of the spa or hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.
5. **SAVE THESE INSTRUCTIONS.**



Children should not use spas or hot tubs without adult supervision.



AVERTISSEMENT: NE PAS LAISSER LES ENFANTS UTILISER UNE CUVE DE RELAXATION SANS SURVEILLANCE.



Do not use spas or hot tubs unless all suction guards are installed to prevent body and hair entrapment.



AVERTISSEMENT: POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS PUISSENT ÊTRE ASPIRÉS, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DE PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE.



People using medications and/or having adverse medical history should consult a physician before using a spa or hot tub.



AVERTISSEMENT: LES PERSONNES QUI PRENNENT DES MÉDICAMENTS OU ONT DES PROBLÈMES DE SANTÉ DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.



People with infectious diseases should not use a spa or hot tub.



AVERTISSEMENT: LES PERSONNES ATTEINTES DE MALADIES INFECTIEUSES NE DEVRAIENT PAS UTILISER UNE CUVE DE RELAXATION.



To avoid injury exercise care when entering or exiting the spa or hot tub.



AVERTISSEMENT: POUR ÉVITER DES BLESSURES, USER DE PRUDENCE EN ENTRANT DANS UNE CUVE DE RELAXATION ET E SORTANT.



Do not use drugs or alcohol before or during the use of a spa or hot tub to avoid unconsciousness and possible drowning.



AVERTISSEMENT: POUR ÉVITER L'ÉVANOUISSEMENT ET LA NOYADE EVENTUELLE, NE PRENDRE NI DROGUE NI ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION NI QUAND ON S'Y TROUVE.



Pregnant or possibly pregnant women should consult a physician before using a spa or hot tub.



AVERTISSEMENT: LES FEMMES ENCEINTES, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.



Water temperature in excess of 38° C may be injurious to your health.



AVERTISSEMENT: IL PEUT TRE DANGEREUX POUR LA SANTÉ DE SE PLONGER DANS DE L'EAU À PLUS DE 38°C.



Before entering the spa or hot tub, measure the water temperature with an accurate thermometer.



AVERTISSEMENT: AVANT D'UTILISER UNE CUVE DE RELAXATION MESURER LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN THERMOMÈTRE PRÉCIS.



Do not use a spa or hot tub immediately following strenuous exercise.



AVERTISSEMENT: NE PAS UTILISER UNE CUVE DE RELAXATION IMMEDIATEMENT APRÈS UN EXERCICE SATIGANT.



Prolonged immersion in a spa or hot tub may be injurious to your health.



AVERTISSEMENT: L'UTILISATION PROLONGÉE D'UNE CUVE DE RELAXATION PEUT ÊTRE DANGEREUSE POUR LA SANTÉ.



Do not permit electric appliances (such as a light, telephone, radio, television, etc.) within 1.5 m of this spa or hot tub.



AVERTISSEMENT: NE PAS PLACER D'APPAREIL ÉLECTRIQUE (LUMINAIRE, TÉLÉPHONE, RADIO, TÉLÉVISEUR, ETC.) À MOINS DE 1.5 M DE CETTE CUVE DE RELAXATION.



Maintain water chemistry in accordance with manufacturer's instructions.



ATTENTION: LA TENEUR DE L'EAU EN MATIÈRES DISSOUTES DOIT ÊTRE CONFORME AUX DIRECTIVES DU FABRICANT.

Hyperthermia

Prolonged immersion in hot water may induce hyperthermia. 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, or 37° C. The symptoms of hyperthermia include dizziness, drowsiness, lethargy, and fainting. The effects of hyperthermia include:

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



The use of alcohol or drugs can greatly increase the risk of fatal hyperthermia in hot tubs and spas.



AVERTISSEMENT: LA CONSOMMATION D'ALCOOL OU DE DROGUE AUGMENTE CONSIDÉRABLEMENT LES RISQUES D'HYPERTHERMIE MORTELLE DANS UNE CUVE DE RELAXATION.



Persons suffering from heart disease, diabetes, high or low blood pressure, any condition requiring medical treatment, pregnant women, the elderly, or infants should consult with a physician before using a spa.



The consumer products safety commission has stated that the water temperature in a spa or hot tub should not exceed 104° F (40° C). Immersion in water in excess of 104° F (40° C) can be hazardous to your health.



Observe a reasonable time limit when using the spa. Long exposures at higher temperatures can cause high body temperature. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could result in possible drowning.



Do not use the spa under the influence of alcohol, narcotics, or other drugs. Use of the spa under these conditions may lead to serious consequences.



Always test the hot tub water temperature before entering the spa. Enter and exit the spa slowly. Wet surfaces can be very slippery.



Never bring any electrical appliances into or near the spa. Never operate any electrical appliances from inside the spa or when you are wet.



Proper chemical maintenance of spa water is necessary to maintain safe water and prevent possible damage to spa components.



Use the spa straps and clip tie downs to secure the cover when not in use. This will help to discourage unsupervised children from entering the spa and keep the spa cover secure in high wind conditions. There is no representation that the cover, clip tie downs, or actual locks will prevent access to the spa.

Do's and Don'ts

Do

- **DO** read all operating instructions.
- **DO** read, understand and follow all Safety, Danger and Warning instructions before use.
- **DO** test water temperature with your hand before entering to be sure that it's comfortable.
- **DO** keep the spa cover closed when the spa is not in use. This is also the key to economical spa operation.

Don't

- **DON'T** block the equipment compartment vents. Blockage may cause damage to the spa equipment and will void the warranty.
- **DON'T** block or sit on the filter recess area.
- **DON'T** allow horseplay or unsupervised use of your **Sarena Bay**.
- **DON'T** allow anyone to tamper or play with any of the safety or suction fittings of your **Sarena Bay**.

Warning Signs

Each spa 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 spa user. Replacement signs can be obtained from:

Dimension One Spas
2611 Business Park Drive
Vista, CA 92083
(760) 727-7727



Sarena Bay™ Features

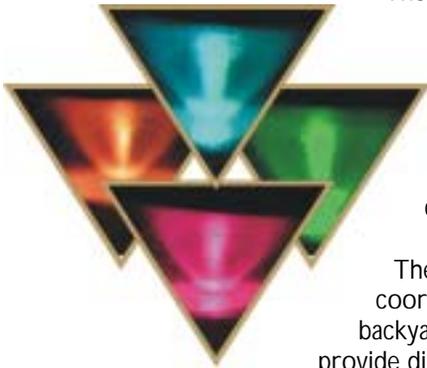
Celebrate with us! Dimension One Spas Inc. proudly introduces the Sarena Bay™ and **Therapy³** – **Hydro**Therapy, **Audio**Therapy, and **Visua**lTherapy. The Sarena Bay™ spa is presented in recognition of Dimension One Spas Inc.'s 25 years as a leader in the international spa industry. This spa also inaugurates several innovative new features.

Dynamic LED Underwater Lighting

Special lighting effects are created by the spa's underwater Dynamic LED Light, which synchronizes with the fountain's Dynamic LED Light to provide **Visua**lTherapy using special customizable lighting effects. Set the mood with easily adjustable sequences and let these special lighting effects enhance your party atmosphere, or encourage your quiet relaxation.



Fountain



The fountain integrates with other special spa features to create a unique combination of relaxing "Therapies" – **Hydro**Therapy, **Audio**Therapy, and **Visua**lTherapy. The easily adjustable fountain offers multiple water flow options ranging from an almost silent "waterfall trickle" to a much larger "circular spray." You can even remove the fountain cone and create a soothing "*Bubbler*." Nothing says "relax" like the sound of moving water. These variables provide customizable **Audio**Therapy – to suit your special desires.

The customizable lighting sequences add **Visua**lTherapy impact by coordinating with other spa lighting to create a special atmosphere for your backyard or deck. The fountain light is synchronized with the underwater light to provide distinctive choreographed lighting effects for your enjoyment.

Personal Therapy Control ^(Patent Pending) Switches

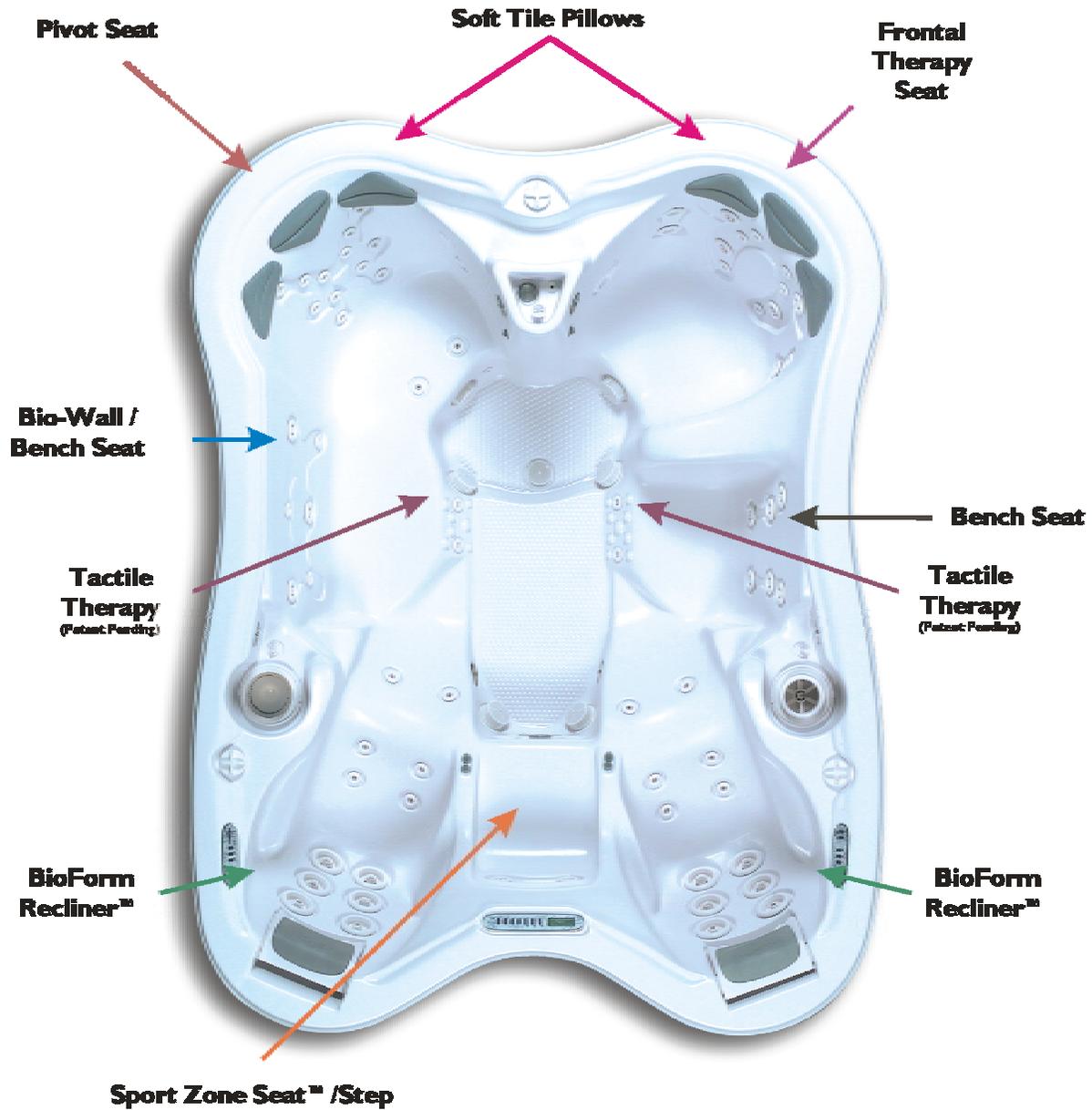


Dimension One Spas' underwater Personal Therapy Control^(Patent Pending) (PTC) switches allow you to control the **Hydro**Therapy Jets and the spa lights from the comfort and convenience of your spa seat. Multiple switch locations provide unique control of the pump(s) that drive the jets in the seats or lounges. You can easily use these underwater switches to turn the seat jets on or off, or control the spa lights.

Take the time to read these instructions carefully. When installed and maintained properly, your Sarena Bay™ will provide many years of enjoyable, trouble-free operation. Read all of the instructions for further reference on hot tub operation. If you have any questions, please contact your local Authorized Dimension One Spas Dealer.

Revolutionary Design Features

Innovative Seating – For 7



BioForm Recliners™



“No-float” angles

These seats have been designed to accommodate your body's natural buoyancy. They allow you to sit more comfortably and relax during jet use.

Upright position

Allows for better communication between spa users.

Multiple Lounges Accommodate Different Body Styles

The two BioForm Recliners™ have been specifically designed to accommodate the variances among users – both men and women can equally enjoy maximum benefits of lounge style therapy. The BioForm Recliner™ located to the left of the Top Side Control is designed for a larger size frame, while the one on the right of the Top Side Control is designed for a smaller size, more buoyant frame.

NeckFlex Jet Pillow™

Height adjustable neck therapy.

Dynamic Massage Sequencing lounges

Personalized and controllable dynamic massages using our sequencing technologies in each lounge.

“Personal Therapy Control” or PTC switch (Patent Pending)

Jet and light controls at your fingertips. You never have to move from your seat, or even lift your hands from the water to adjust pumps or lights.

Bio-Wall / Bench Seat



Open Design

Promotes freedom of movement.

Tactile Therapy (Patent Pending) System

The Tactile Therapy (Patent Pending) System design includes adjustable and interchangeable foot jets.

Pivot feature

This bench seat can be used in conjunction with the Pivot Seat and functions as a third lounge

Freeform jet patterns

Allows you to move along the “Bio-Wall” and target different muscle groups

Jet variety

Different jet styles give this seat unique combinations of *Hydro*Therapy - features adjustable/interchangeable jets

Bench Seat



Open Design

Promotes freedom of movement.

Tactile Therapy^(Patent Pending) System

Foot jets with adjustable and interchangeable jets. Tactile Therapy^(Patent Pending) System is great for Reflexology.

Unique jetting pattern

Designed around specific muscle groups.

Pivot Seat



Adjustable jets

Features 16 adjustable and interchangeable jets.

Barrier free Pivot Seat

This seat has an extra large back that functions as a regular large spa seat and also allows you to pivot your position and sit in a lounge style position to utilize the "Bio-Wall."

Unique jetting pattern

Designed around specific muscle groups

Multi Soft Tile Pillow layout

Allows you to sit comfortably in a variety of positions.

Deep seat

This seat has good depth and allows most users to totally immerse their shoulders in soothing water.

"Personal Therapy Control" or PTC switch^(Patent Pending)

Jet and light controls at your fingertips.

Frontal Therapy Seat



Adjustable jet

Features adjustable and interchangeable jets.

Frontal therapy

This seat has two large jets directed at the front part of the upper and lower body – exclusive to Dimension One Spas Inc.

Unique aesthetic design

“Wrap-around” cocoon-style seat cradles you in comfort and security.

Ultra low seating

Allows for better *Hydro*Therapy and total shoulder immersion for most users.

Unique jetting pattern

Designed around specific neck, shoulder, and side muscle groups.

“Personal Therapy Control” or PTC switch (Patent Pending)

Jet and light controls at your fingertips.

Sport Zone Seat™



Cool-Down Seat

Allows you to get your upper body out of the hot water to cool down.

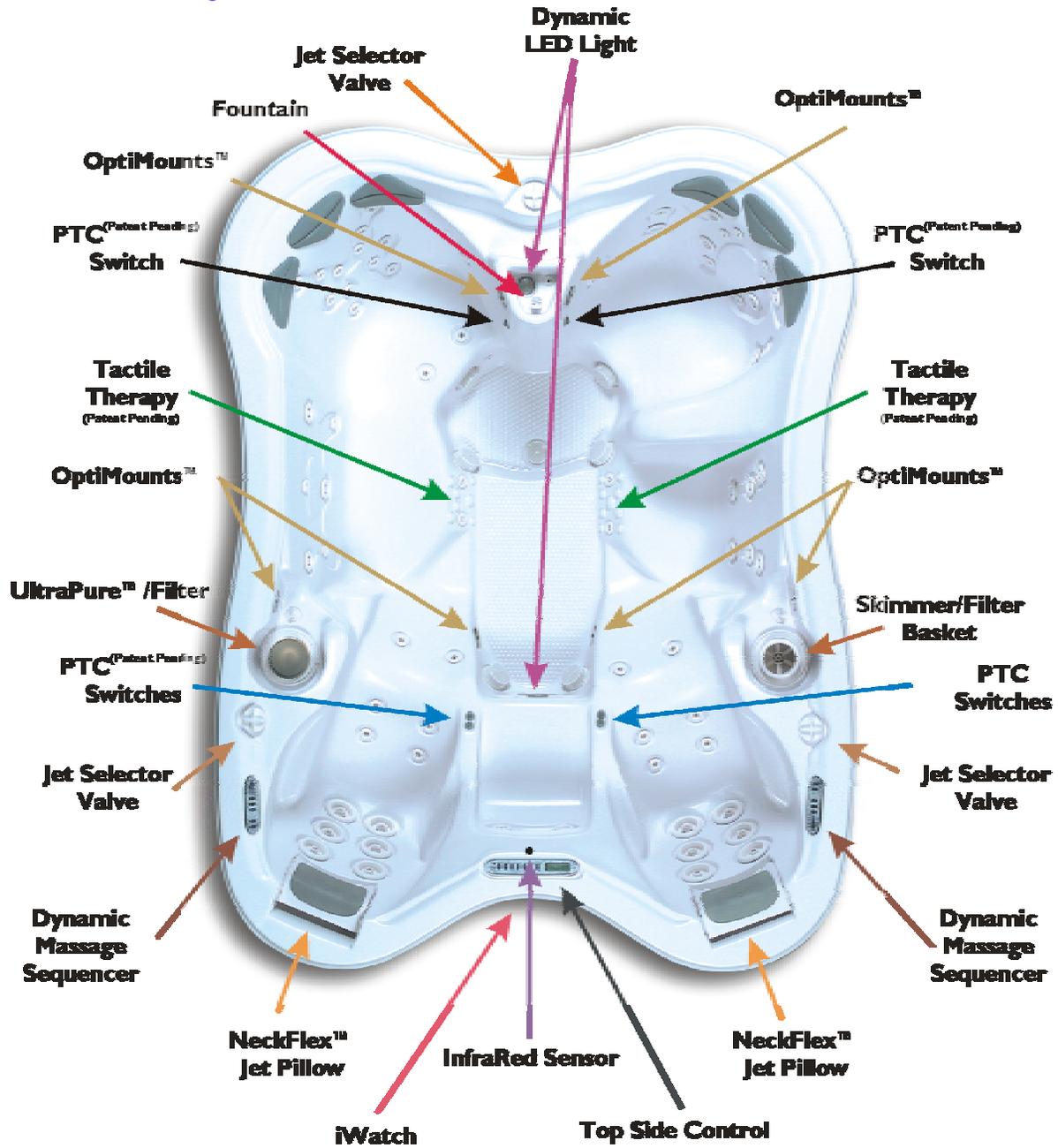
Extra large seat

Doubles as a step for easier entry and exit.

Rowing Seat

For use with the HydroSport Rowing System (*Optional Item*)

Additional Design Features



Top Side Control



Scrolling Message Center

Provides full control of all spa functions, displays status, informational and error messages in the Digital Display Window. For more information on using this control, refer to the [Scrolling Message Center section](#).

Dynamic Massage Sequencer



Dynamic Massage Sequencer

Provides full control of all special massage sequences. You can also control the lights and the jet pump for your BioForm Recliner™ Seat. For more information on using this control, refer to the [Dynamic Massage Sequencer section](#).

Fountain



Soft Umbrella Shape

Provides relaxing **Visua**Therapy and soothing water sounds.

Dynamic LED lighting with 8 lights

Dramatic nighttime **Visua**Therapy display of the fountain feature, synchronizes with the spa lights.

Adjustable / Interchangeable fountain patterns

Customize the fountain look, feel, and sound by making simple adjustments or adding an optional semi-circular fountain head.

Landscape focal point

Fountain makes your spa a focal point of your landscaping with beautiful shape, light and sound.

Synchronous Spa Lights



Large 22 LED main light

Solid and changing color patterns, synchronizes with the fountain light.

Simple Design

Easy to change and install.

LED lights general

- Color changing
- long bulb life
- great look

PTC Switches



Magnetic "Personal Therapy Control" or PTC switch (Patent Pending)

Jet and light controls at your fingertips. One set of PTC Switches is available for each BioForm Recliner™ Seat, Pivot Seat, and Frontal Therapy Seat.

Under Water Switch

Easy to use without leaving your seat.

Simple Design

Is easy to service.

Weir Basket / Skimmer



Large Canister Filter

Each Weir Basket houses a Dimension One Spas Inc. Canister Filter with 75 square feet of filtration providing a total of 150 square feet.

Skims surface contaminants

High volume pumps pull spa surface water through the skimmer to remove floating contaminants.

Tactile Therapy^(Patent Pending)



Raised profile details

Allows users to massage feet during *Hydro*Therapy

Unique design

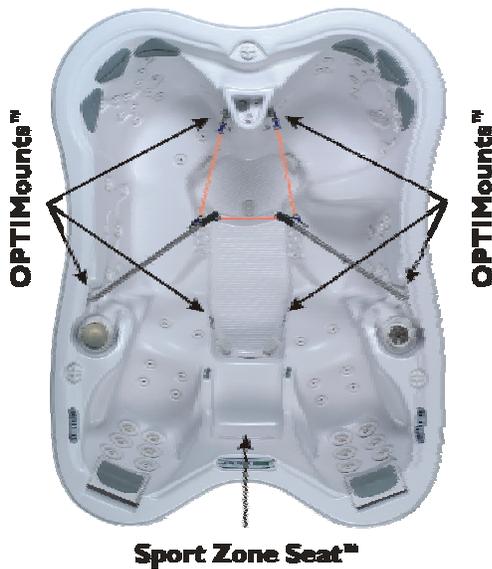
Design is based on standard Reflexology maps.

Adjustable jets

Change flow to suit your needs.

HydroSport™ / OptiMounts™

**Shown With Optional
HydroSport Rowing System**



Sport Zone Seat™

Doubles as a rowing station.

Design can accept more than one tether

Allows for variable workouts.

Simple Design

Easy to set up and use.

6 OptiMounts™

Allows user to readily adjust the amount of resistance provided by the HydroSport equipment by adding or moving the Tensor Cords as desired.

All stainless steel construction

Long lasting and durable.

Soft Tile Pillow



Flexible soft pillow

Mounted around seat for more comfort.

Flexible Diamond Shape

Provides increased functionality.

NeckFlex™ Jet Pillow



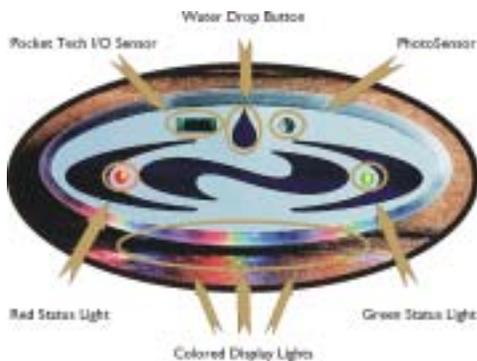
- Material** Long lasting and easy to care for.
- Adjustable** The NeckFlex™ Jet Pillow offers five height adjustable positions to accommodate different body sizes.
- Interchangeable Jets** Mini directional jets can be interchanged with rotating jets and are adjustable for water volume.

Jet System Selector Valve



- Adjustable Water Flow** Customize the flow of water to your seat by simply turning the valves in a "clockwise" or "counter-clockwise" direction. These valves will divert jet power from one seat within the spa to an adjacent seat.
- Customize your HydroTherapy Session** Adjust your *HydroTherapy* session by simply adjusting the water volume to the jets in your seat.

iWatch



- Integrated Perimeter Lighting** Provides colorful perimeter lighting
- Master Control Module** Provides spa status and warning lights
- Personal Data Assistant (PDA) Ready** Use the iWatch InfraRed port to control spa functions.
 - Spa Clock
 - Filter Cycle start time
 - Filter Cycle duration
 - Filter Cycle frequency
 - Jet Pump run time
 - Temperature Units (F° or C°)
 - Ultra Vision cartridge reminder
 - Select language to display (English, German, French, or Spanish)
- Full Control** Customizable lighting sequences can also be set to automatically start and stop with nightfall and daylight.
- Optional Auxiliary Modules** Add additional perimeter lighting with optional Auxiliary Modules that can be connected to the iWatch Master Module to provide lighting everywhere you need it.

InfraRed Sensor



Remotely Control The Sarena Bay™

The infrared sensor allows you to remotely control the following spa features, or functions, using the optional **D1 Remote Control**:

- Jets
- Water Feature/Fountain
- Interior Spa Lights
- iWatch Exterior Perimeter Lighting

UltraPure™ Water Management System

This spa is equipped with a highly advanced hot tub water treatment method, the UltraPure™ Water Management System. The UltraPure™ Water Management System is an integrated water management system with ozone injection, dual contact chambers, and 24-hour filtration.



Energy conversation is designed into the UltraPure™ Water Management System. The circulation pump has a built-in heat recovery system that diverts circulation pump heat directly to the spa water. This feature reduces demand on the spa heater, and saves energy.

To prevent the hot tub from overheating, the circulation pump turns off when the water temperature rises 2° F ($\cong 1.1^\circ$ C) above the set temperature. When the water temperature cools down to the set temperature, the circulation pump will turn back on.



The circulation pump will run for short periods when the water temperature is 2° F ($\cong 1.1^\circ$ C) above set temperature to verify temperature.

Vision

Vision, an alternative purification system, can be used in conjunction with your UltraPure™ Water Management System. The advantage of Vision over conventional halogens (bromine and chlorine) is that it will, as a result of lower chemical use, provide softer-feeling water. Additionally, low chemical levels can mean fewer dissolved solids, which results in less water chemistry maintenance. Please refer to the Vision instructions for proper installation. Also read the **Water Care Guide** for more information.

Smart Heat

On all Dimension One Spas, when the water temperature is at least 1° F ($\cong 0.55^\circ$ C) below the set temperature the heater will turn on and remain on until the water temperature rises to 1° F ($\cong 0.55^\circ$ C) above the set temperature. Smart Heat recognizes the difference between the set temperature and the actual water temperature, then determines the rate of heating required to best maintain the set temperature.

Load Sharing

Load Sharing recognizes the number of jet pumps in use and compares it with the available power. Computerized load sharing adjusts the heater to maximize the heater output based on heat requirements and spa operation, then optimizes heat recovery using the amperage that you have available.

HydroSport Aquatic Fitness Gear (Optional)

The optional **HydroSport™** Aquatic Fitness Gear provides a high quality fitness training and exercise system for water-based use. It is designed specifically for use with the **Aquatic Fitness Systems** and the **Sarena Bay™**. The **HydroSport™ Rowing System** and the **HydroSport™ Aquatic Fitness Bar** provide exercise gear that quickly installs to various OptiMount™ locations and allow you to work on your upper body and arms with simple exercises.

The versatile **HydroSport™** Aquatic Fitness Gear is all you need for a variety of aquacizing options.

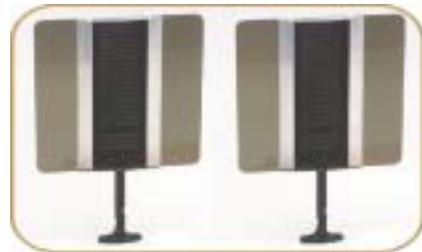


Sonic Immersion System (SIS) (Optional)



The optional Sonic Immersion System provides a superior fidelity and low distortion stereo system featuring patented planar magnetic speaker technology (1/4" thick) that generates unparalleled sound quality – even in the harshest environmental conditions.

Unique speakers offer multidirectional capability allowing you to enjoy fantastic audio with a rich bass sound in your backyard – even when you aren't using the spa. The Sonic Immersion System provides an "extra dimension" to your Sarena Bay's **AudioTherapy** capabilities. Additionally, it can be operated remotely using the remote control provided with the system, or the optional "floatable" D1 Remote Control.



D1 Remote Control (Optional)



The optional **D1 Remote Control** unit is an infrared device that floats. It is used to remotely control the following spa features or functions:

- Jets
- Fountain
- Interior Spa Light
- **iWatch** Exterior Perimeter Lighting

Initial Startup

1. Locate the Top Side Control.



2. Locate the hose bib that is included in the owner's manual packet. The owner's manual packet is shipped inside the equipment compartment. Your dealer should provide you with this packet during installation.

3. Locate the male fitting at the bottom of the lower left corner of the hot tub – below the skirt on the left corner of the side containing the Top Side Control.



4. Close the valve on the side of the hose bib and screw it onto the end of the hose bib. Check to ensure the cap on the hose bib is secure to avoid leaks when you add water to the spa.

5. Open and remove the two bleeder valves. One is located in the skimmer area to the right side of the Top Side Control and the other one is located across the spa in the UltraPure™ area on the left side of the Top Side Control. This will allow air to escape from the pumps.



6. Remove the cap from the UltraPure™ canister and the filter basket from the Weir Skimmer canister.



UltraPure™/Filter



Weir Skimmer/Filter

7. Then remove the foam blocks securing each filter.

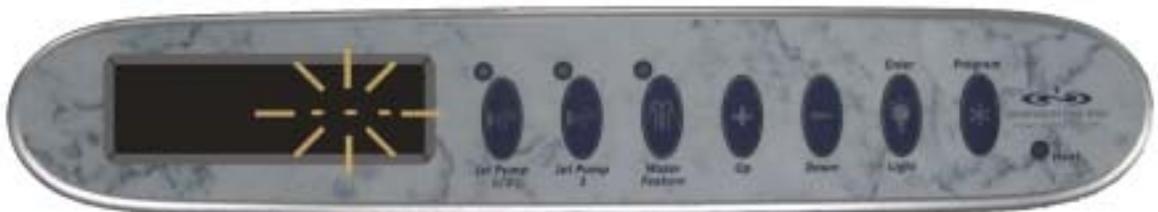


8. Next, remove the filters from the Weir Skimmer and UltraPure™ canisters and fill your hot tub by placing a hose through the empty UltraPure™ canister on the left side of the Top Side Control.

9. Fill the spa until the water level is slightly below the bottom of the OptiMount™ located next to the Skimmer/Filter Basket on the right side of Top Side Control.



10. Once the spa is full, turn on the circuit breaker (not supplied by Dimension One Spas). Flashing dashed lines will appear for 30 seconds on the Digital Display Window followed by the current water temperature (flashing).



11. Push the **Jet Pump 3 Button** once to turn on pump 3. Let the system run for 10 to 15 seconds to prime the pump.
12. Then push the **Jets Button** on the Dynamic Massage Sequencer to the right of the Top Side Control to start pump 1. Let it run for 10 to 15 seconds to prime pump 1. Press the button again to shut the pump off.
13. Then push the **Jets Button** on the Dynamic Massage Sequencer to the left of the Top Side Control to start pump 2. Let it run for 10 to 15 seconds to prime pump 2. Press the button again to shut the pump off.



If there is no jet action, then the water level is too low or there is air trapped in the plumbing lines. To eliminate the trapped air, turn the pumps on and off several times to force the trapped air through the pumps. If there is still no jet action, and the bleeder valves were removed as previously described, turn off the pumps and loosen the top pump unions slightly to let any trapped air escape. Re-tighten the pump unions and turn the pumps on again. Turn the pumps on and off several times until jets function properly.



Ozone bubbles will continue to release from the skimmer recess Ultra Pure bleeder valve as long as the valve remains open. Once the pumps are primed, be sure that the bleeder is closed tightly.

- When the jets are in full operation, replace and close the bleeder valves and push the **UP/Down Buttons** until your desired water temperature (set temperature) is indicated on the Digital Display Window. The Digital Display Window will then display your set temperature for thirty seconds before changing to display the current water temperature.



While setting the temperature, the Digital Display Window will read out the temperature – up to 104° F (≅40°C). **Water temperatures in excess of 104° F (≅40° C) should be used with extreme caution.**



Initial start-up, you can confirm that the heater is on by looking to see that the heat LED indicator located on the right side of the hot tub control panel is illuminated. A scrolling message will also appear on the lower line of the Digital Display Window reading SPA HEATING TO ___° F (whatever the set temperature is) as well as an animated icon on the Digital Display Window. Once you have verified that the heater is functioning, you can reinstall the ventilated equipment access panel.



Depending upon the size of the hot tub and the size of the circuit breaker used, heating will occur at the rate of 3° F (≅1.65° C) to 10° F (≅5.5° C) per hour.

- After completing the above steps, it is necessary to ensure proper water chemistry. See the **Water Care Guide** for easy steps to maintaining clean and safe water. The schedule shown may require more frequent adjustment depending on the bather load.
- Place the thermal cover on the hot tub to conserve energy and to keep it ready for use.

Operation

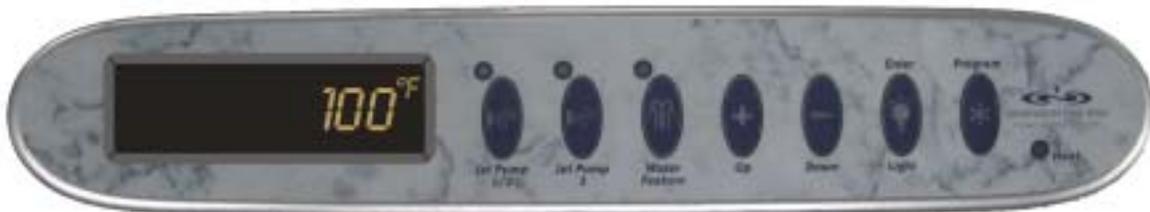
Advanced microprocessor technology has been utilized to produce the Scrolling Message Center. The most technologically advanced hot tub control in the world is also the easiest to operate. Dimension One Spas has put every hot tub function within fingertip control. Temperature setting, jet power control, the hot tub light and all other functions are spa-side accessible. That means you don't have to get out of the hot tub to enjoy complete control of all hot tub functions. Safety is assured through design concepts and materials that meet or exceed the most stringent requirements of Underwriters Laboratories (UL), Edison Test Labs (ETL) and Canadian Standards Association (CSA). The Scrolling Message Center lets you relax and enjoy everything your Dimension One spa has to offer.



Gain a thorough knowledge of the following information before starting up your spa

Using The Top Side Controls

Scrolling Message Center



Digital Display Window



The **Digital Display Window** continuously shows the operating status of the hot tub, as well as the various monitoring functions, self-diagnostics, and programming information.

JETS 1&2 Button



When the **Jets 1&2 Button** is pushed:

- The corresponding spa jet(s) pump is/are energized.
- The respective Status Indicator Light is illuminated.
- The pump speed is indicated in the lower left corner of the Digital Display Window.
- A rotating swirl icon is displayed in the upper left corner of the Digital Display Window. The rotation speed of the swirl will vary according to the pump's speed.



The first time the **Jets 1&2 Button** is pushed, pump 1 starts on LOW speed. When the same button is pushed again, the pump will change to HIGH speed. The third time the same button is pushed the pump will turn off.

Each time a **Jets Button** is pushed it activates a programmable, automatic shut-off cycle. The default time is 30 minutes. A progress bar, indicating the time remaining before the pump will turn off, is displayed immediately following the pump speed message. The pump automatic shut-off cycle is programmed separately. All pumps are controlled by the same automatically shut-off cycle.



The automatic shut-off cycles are a safety device that will reduce wear and tear on your equipment and reduce energy costs by ensuring that your pumps don't run constantly.

Additionally, this feature allows for convenient filtration immediately after use of the hot tub by letting you "push the Jets Button" as you leave to get an additional 30/45/60 minutes of filtering.

Jet Pump 3 Button



When the **Jets 3 Button** is pushed:

- The corresponding spa jet pump is energized.
- The respective Status Indicator Light is illuminated.
- The pump speed is indicated in the lower left corner of the Digital Display Window.
- A rotating swirl icon is displayed in the upper left corner of the Digital Display Window. The rotation speed of the swirl will vary according to the pump's speed.

Water Feature Button



When the **Water Feature Button** is pushed the pump controlling the fountain is activated. A second push will turn the pump off. Each time the **Water Feature Button** is pushed it activates a programmable, automatic shut-off cycle. *The default time is 1 hour.* Your choices are 1, 2, 3, or 4 hours.

See the section on [Programming the Scrolling Message Center](#) for details on changing the automatic shut-off cycle.

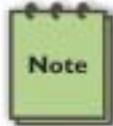


The automatic shut-off cycles are a safety device that will reduce wear and tear on your equipment and reduce energy costs by ensuring that your pumps don't run constantly.

Up / Down Buttons



When the **Up or Down Button** is pushed to change the set temperature, the bottom left of the Digital Display Window will read "**SET TEMP TO ___° F**". After 5 seconds, the display will automatically display the current water temperature again. The water temperature may be adjusted from 59° F (\cong 15° C) and 104° F (\cong 40° C).



These buttons are also used to make custom selections when you are programming the Scrolling Message Center. See the section on [Programming the Scrolling Message Center](#) for more details on changing the your spa's default settings.

Light / Enter Button



Push the **Light / Enter Button** to control your Dynamic LED lighting. This includes both the Fountain and the Spa lights, which are synchronized to operate together. The lights have three basic Color Effects you can choose. Simply press the **Light / Enter Button** until you find the one you want. The Color Effects are:

- **Color Fade Slow:** This sequence rotates through all colors approximately once per minute. (*Start up default*)
- **Color Fade Fast:** This sequence rotates through all colors approximately three times per minute.
- **Color Hold:** Hold on any of the colors.

The default Color Effect is **Color Fade Slow**. Use the **Light / Enter Button** to change Color Effects as follows:

- Start on **Color Fade Slow** (default)
- Turn off for 1 second, back on again for **Color Hold**
- Turn off for 1 second, back on again for **Color Fade Fast**
- Turn off for 1 second, back on again for **Color Hold**
- Turn off for 1 second, back on repeats to **Color Fade Slow**
- Turn off for 5 or longer: start on **Color Fade Slow**



For your convenience and cost savings, the lights will automatically turn off after one hour. To reactivate the lights after they have been shut off by the timer, simply press the **Light / Enter Button** again. The lights will always start in the **Color Fade Slow** sequence after they have been off for more than 5 seconds to ensure they always remain synchronized.

The **Light / Enter Button** is also used to exit programming sequence whenever you have entered the programming mode by first pressing the **Program Button**.

PROGRAM Button



The **PROGRAM Button** is used to initiate the time setting, filter programming, and other programming features.

For more information, see the section on "[Programming the Scrolling Message Center.](#)"

Heat Status Light



The **Heat Status Light** will turn on when there is a call for heat and the heater engages. This is a normal function. The right side of the Digital Display Window will continue to read the current temperature while the bottom left corner will scroll the message "**HEATING TO __ _° F**" until the hot tub reaches the set temperature. An animated thermometer will also be displayed in the upper center of the Digital Display Window to confirm heater activity.

If the water reaches 2° F ($\cong 1^{\circ}$ C) above the set temperature, the message "**COOLING TO __ _ - CIRC PUMP & O3 OFF**" will be displayed in the bottom left hand side of the Digital Display Window and a cooling cycle will start.

Dimension One Spas ICON (Logo)®



The time of day can be viewed by pushing the Dimension One Spas **ICON®**-logo on the far right of the control panel. If no other button is pushed within 5 seconds, the display will revert to the hot tub water temperature reading. The pre-set factory default is Fahrenheit.

Pressing the logo for 5 seconds will place the spa in the "Standby" mode and allow the spa to be cleaned without turning off the power.

Scrolling Message Center Messages

Because of the advanced programming features of your scrolling Digital Display Window, your hot tub will prompt you when you need to perform routine maintenance. For example:

Rinse Filters



Every other month, the top line of your Digital Display Window will read, "RINSE FILTERS" and the message "REMOVE FILTERS & RINSE WITH HOSE... PUSH AND HOLD ICON BUTTON MORE THAN 3 SECONDS TO RESET THIS MESSAGE" will scroll from right to left on the bottom line of the display.

To reset this message, push and hold the Dimension One Spas ICON (logo)® located at the right hand side of the control for 3 seconds.



Clean Filters



On alternating months, the top line of your Digital Display Window will read, "DIRTY FILTERS" and the message "REMOVE FILTERS & CLEAN IN SOLUTION... PUSH AND HOLD ICON BUTTON MORE THAN 3 SECONDS TO RESET THIS MESSAGE" will scroll from right to left on the bottom line of the display.

To reset this message, push and hold the Dimension One Spas ICON (logo)® Button located at the right hand side of the control for 3 seconds.



Change Water



Every four months the top line of your Digital Display Window will read "CHANGE WATER" and the message "TURN POWER OFF, DRAIN & REFILL SPA... PUSH AND HOLD ICON BUTTON MORE THAN 3 SECONDS TO RESET THIS MESSAGE" will scroll from right to left on the bottom line of the display.

To reset this message, push and hold the Dimension One Spas ICON (logo)® Button located at the right hand side of the control for 3 seconds.



Change Vision Cartridge



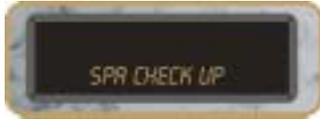
When "CHANGE VISION CARTRIDGE" is displayed on the Digital Display Window, the system is telling you that it is time to replace it.

To reset this message, push and hold the Dimension One Spas ICON (logo)® Button located at the right hand side of the control for 3 seconds.



If you purchased a Vision cartridge subsequent to the initial start up of your hot tub, please follow the programming instructions for VISION as outlined in the next [Vision Cartridge](#) section to set the six-month time frame.

Spa Check Up



When "**SPA CHECK UP**" is displayed on the Digital Display Window, we recommend that you have your hot tub inspected by your dealer as a preventative maintenance measure.

To reset this message, push and hold the Dimension One Spas ICON (logo)® Button located at the right hand side of the control for 3 seconds.



The system can dismiss and reset the maintenance messages by pushing and holding the **Dimension One Spas ICON (logo)®**, on the right end of the control, for 3 seconds. If you press the **Dimension One Spas ICON (logo)®** for 5 seconds when there is no maintenance message, it will put the spa in the "Standby" mode.

Overheat



DO NOT ENTER THE WATER when "**OVERHEAT**" is displayed on the control system Digital Display Window because the hot tub is in a high temperature condition. If such a condition exists, check the water temperature with a certified thermometer and if it is above 104° F (\cong 40° C), remove the hot tub cover and allow the water to cool. If the problem recurs, turn off all power to the hot tub and contact your local Authorized Dimension One Spas Dealer, or authorized service center.



The overheat condition could be caused by excessive filtration. See the [Troubleshooting Guide](#) section for more information.

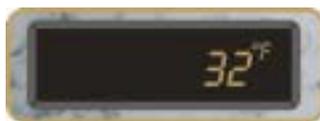
Flashing Display and/or "Check Water Level"



DO NOT ENTER THE WATER if you see "**3 flashing LEDs**" on the Top Side Control and/or the message, "**CHECK WATER LEVEL -CLEAN FILTER-IF PROBLEM CONTINUES, TURN OFF POWER AND RESTART THE SYSTEM-IF PROBLEM CONTINUES, CALL FOR SERVICE**" in the Digital Display Window. Follow the instructions as stated.

Check the water temperature and if it is above 104° F (\cong 40° C) and **DO NOT ENTER THE WATER**.

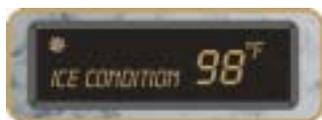
Erroneous Temperature on the Display



DO NOT ENTER THE WATER if you see a temperature reading of **32° F (\cong 0° C) or 136° F (\cong 57.8° C)** without first checking the actual water temperature with a separate thermometer. The system has detected a Temperature Probe Failure and the water may be too hot, or too cold, to safely use.

Contact your local Authorized Dimension One Spas Dealer, or authorized service center.

Ice



When “**ICE CONDITION**” and the water temperature are displayed on the Digital Display Window, the air temperature in the equipment can has gone below a factory-preset level, and the system has activated “**Smart Winter Mode.**” It will then 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.

Cooling



When “**COOLING**” and the water temperature are displayed on the Digital Display Window, the water temperature has reached 2° F (\cong 1° C) above the set temperature. The circulation pump and ozone generator will turn off to allow the water to cool back to the set temperature. This is a normal hot tub function. No corrective action is necessary.



The circulation pump and ozone generator will be on while either jet pump is on. They will remain on for 30 minutes after the pump(s) turn off regardless of the water temperature.



The Dimension One Spas Scrolling Message Center Control has a battery back-up that will retain the time of day for 30 days – even without an active power source. Additionally, it will also keep your custom programming commands for up to 40 years without power. This battery back-up will **not** provide power to heat or operate the hot tub.

Summer Mode



The “**SUMMER MODE**” feature temporarily disables the circulation pump “Cool Off” cycle. During hot weather the spa can experience “Heat Creep”. Heat creep is caused when the spa, during normal maintenance operations, cannot dissipate more heat than is generated. This may cause the spa temperature to exceed the set temperature and cause a “Cool Off” cycle. In order to prevent the water from becoming cloudy due to the circulation pump being turned off by the “Cool Off” cycle, the spa can be set to bypass the “Cool Off” cycle. This is accomplished by setting the spa in the “**SUMMER MODE**”.

To initiate a “**SUMMER MODE**”, use the **Up** and **Down Buttons** to set the temperature to 59° F (\cong 15°C). The Digital Display Window will indicate “**SUMMER MODE**”. In this mode the pump will run continuously until the water temperature reaches 107°F (\cong 41° C) and then turn off. It will remain off until the water temperature reaches 102° F (\cong 38° C) at which point the pump turns on.

Standby Mode



The “**STANDBY**” mode allows the user to clean the filter without turning off power to the spa. This feature disables all automatic and manual functions.

To enter the “**STANDBY**” mode press and hold the Dimension One Spa's ICON Logo® Button for 5 seconds. To exit the mode, press and hold the Logo Button for 5 seconds.

If you do not exit the mode manually, the spa will automatically return to normal functionality after 24 hours.



The “**Smart Winter**” mode is not affected by the use of the “**Standby**”: mode.

Programming the Scrolling Message Center

Your Scrolling Message Center is the most advanced in the industry and can virtually walk you through customizing your hot tub to your exact needs. To initiate the programming sequence at any time, push and hold the Program Button for 3 seconds. If, within 10 seconds, you do not proceed with the hot tub programming, the hot tub will automatically exit the programming sequence and revert to the pre-set factory default settings. To exit the programming sequence at any time, push the Enter Button or do not press any button for 10 seconds. Any programming changes made up to that point are saved.

Setting the Time

After holding the **PROGRAM Button**, the top line of the Digital Display Window will read “**SET TIME OF DAY**” and the bottom line will read “**PUSH UP OR DOWN TO CHANGE - PUSH PROGRAM TO SELECT NEXT FUNCTION - PUSH ENTER TO EXIT**”. Push the **UP** or **DOWN Buttons** to engage the time setting mode. The time screen will appear with “hours” (_ _ .00) flashing on and off. Push the **UP** or **DOWN Button** to increase or decrease the number until the desired hour appears. When the desired number is displayed, push the **LIGHT Button** to accept the selection and change the flashing number to the “ten minute” place (12: _ 0). Adjust the number with the **UP** or **DOWN Button** in the same manner as the hour number. When the desired indicator is displayed, push the **LIGHT Button** to accept the selection and change the flashing number to the “minute” place (12:1 _). Adjust this number with the **UP** or **DOWN Button** in the same manner as the hour number. When the desired number is displayed, push the **LIGHT Button** to accept the selection and change the flashing number to a flashing AM or PM indicator. Adjust the indicator with the **UP** or **DOWN Buttons**. After reaching the correct time, push the **PROGRAM Button** to set the time and exit the time setting mode. You will then be prompted to set the filter start time.

Filter Cycle Start Time

After setting the time-of-day, the top line of the Digital Display Window will read “**SET FILTER CYCLE TIME**”. Push the **UP** or **DOWN Buttons** in the same manner as setting the clock to select the time you want your filter cycle to start. When your desired filter cycle start time is set in the display, push the **PROGRAM Button** to continue. *The pre-set factory default is 12:00 p.m. to 1:00 p.m. repeating every 12 hours unless the number of filter cycles per day has been changed.*



Keep in mind that you will later be prompted to set the filter cycle duration and the number of filter cycles. Be sure to keep this in mind when programming your filter cycle start time.

During a filter cycle, the bottom left of the Digital Display Window will read **"SPA FILTERING"**. During the filter cycle, JETS 1 will activate, the first 5 minutes at high speed and the remainder of the filter cycle time at low speed. JETS 2 will also activate for 1 minute on high speed and then turn off.

Filter Cycle Duration

After setting the filter cycle start time, the top line of the Digital Display Window will read **"SET CYCLE DURATION"**. Push the **UP** or **DOWN Buttons** to toggle between 10, **20**, 30, 40, 50, or 60 minutes. The filter cycle will be at low speed. When your desired filter cycle length appears in the Digital Display Window, push the **PROGRAM Button** to select it. *The pre-set factory default is 20 minutes.*

Number of Filter Cycles

After setting the length of the filter cycle, you will be prompted to set the number of filter cycles. The top line of the Digital Display Window will read **"SET # OF CYCLES"**. Push the **UP** or **DOWN Button** to toggle between **1**, 2, 3, or 4 cycles per day. When your desired number of cycles appears on the Digital Display Window, push the **PROGRAM Button** to select it. *The pre-set factory default is 1 cycles per day.*



Long and/or numerous filter cycles could cause overheating of the hot tub - especially in hot climates.

Pump Run Time

After setting the number of filter cycles, the top line of the Digital Display Window will read **"SET PUMP RUN TIME"**. Push the **UP** or **DOWN Button** to toggle between **30**, 45 and 60 minutes. This sets the length of time the pump will run when a jets Button is pushed. For example, if you choose 45 minutes, when you push a jets Button, the pump will run for 45 minutes before shutting down automatically. When your desired pump run time appears on the Digital Display Window push the **PROGRAM Button** to select it. *The pre-set factory default is 30 minutes.*

Temperature Unit Selection

After setting the pump run time, the top line of the Digital Display Window will read **"SET TEMPERATURE UNITS"**. Push the **UP** or **DOWN Buttons** to toggle from °F to °C. When your desired temperature unit appears in the Digital Display Window, push the **PROGRAM Button** to select it. *The pre-set factory default is Fahrenheit.*

Vision Cartridge

After setting the temperature units, the top line of the Digital Display Window will read **"SET VISION CARTRIDGE"**. Push the **UP** or **DOWN Buttons** to toggle between **"Yes"** and **"No"**. If you are currently using a Vision Cartridge select Yes, if not, select No. Selecting **"Yes"** will prompt the control to notify you when your cartridge needs replacement. When your desired selection appears in the Digital Display Window, push the **PROGRAM Button** to select it. *The pre-set factory default is "No."*

Waterfall Run Time

After choosing the Vision Cartridge setting, the top line of the Digital Display Window will read **"SET WATERFALL RUN TIME"**. Push the **UP** or **DOWN Buttons** to toggle between **1**, 2, 3, or 4 hours. For example, if you choose 2 hours, when you push the **Water Feature Button**, the Waterfall will run for 2 hours before shutting down automatically. *The pre-set factory default is "1."*

Digital Display Window Invert

The invert feature will flip the text on the Digital Display Window play so it can be easily read from both inside and outside the hot tub. To invert the text, simply push the **ENTER Button** three times. To return the text to its original position, repeat this process - push the **ENTER Button** three times.

Control Panel Lock

To help prevent unauthorized use of the hot tub, the control panel may be locked. When the control panel lock is engaged, all programmed or default hot tub functions will operate normally but all control buttons will not operate. When the panel is locked, the Digital Display Window will display this message: **"ALL SPA FUNCTIONS LOCKED."**

To lock the panel all the following Buttons must be pushed within 3 seconds:

1. Push the Dimension One Spas ICON (logo)® Button.
2. Push the Dimension One Spas ICON (logo)® Button.
3. Push the ENTER Button.

Control Panel Unlock

To unlock the panel: All the following buttons must be pushed within 3 seconds:

1. Push the ENTER Button.
2. Push the ENTER Button.
3. Push the Dimension One Spas ICON (logo)® Button.

When the last Button is pushed all buttons will be active.

Programming Lock

The programming lock is to prevent unauthorized programming and water temperature adjustments. When the programming lock is engaged, all programmed or default functions will operate normally. Also, the hot tub user may operate the pumps, the hot tub light or view the time-of-day, but no programming changes may be made. When the programming lock is enabled, the Digital Display Window will scroll **"PROGRAMMING LOCKED"** twice on the lower left side of the display, then a lock icon will be displayed on the right side of the Digital Display Window To enable the programming lock, all the following buttons must be pushed within 3 seconds:

1. Push the Dimension One Spas ICON (logo)® Button.
2. Push the Dimension One Spas ICON (logo)® Button.
3. Push the PROGRAM Button.

Programming Unlock

To unlock the Panel: The following buttons must be pushed within 3 seconds:

1. Push the ENTER Button.
2. Push the ENTER Button.
3. Push the Dimension One Spas ICON (logo)® Button.

When the last Button is pushed all buttons will be active.

Control Panel Reset

This function is used to completely reset the clock and all other system variables to the factory defaults. Please keep in mind that this resets all maintenance messages (clean filters, change water, etc.) as if the hot tub is being installed the day of the panel reset. To reset the control system all of the following buttons must be pushed within 3 seconds:

1. Push the ICON (logo) Button
2. Push the ENTER Button
3. Push the PROGRAM Button

The top line of the Digital Display Window will read "RESET PROGRAMMING?"

The bottom line of the Digital Display Window will read "IF SO, PUSH ICON"

4. Push the Dimension One ICON Button to reset the entire control system to factory defaults or do not touch a button for 10 seconds to exit.

Dynamic Massage Sequencer

The Dynamic Massage Sequencer is located in the Ultra Lounge of the models mentioned above. The sequencer directs a succession of 14 jets to six separate muscle groups.

When a sequence is chosen, a human figure with LED's defining each zone, will light, showing the active zones in that sequence. This allows you to preview the zones in the sequence before a selection is confirmed.

Control Panel Description



LIGHT Button



The **LIGHT Button** is used to turn the spa light on or off. The status light below the button will illuminate when the light is on. The spa light may be turned on/off with this button, or the one on the Top Side Control. They work interchangeably.

JETS Button



The **JETS Button** turns the jet pump associated with the Massage Sequencer on or off. The status light below the button will illuminate when the light is on. The spa jet may be turned on/off with this button, or the one on the Top Side Control. They work interchangeably.

SPEED Button



The **SPEED Button** is used to change the time interval between each step in the sequences. The default time is 5 second intervals. The first push of the **SPEED Button** will change the step interval time to 15 seconds, the second push will change the intervals to 30 seconds, and the third push will reset the speed to 5 second intervals. The status light below the **SPEED Button** will blink at the speed at which the system is operating. During a Pause condition the Speed status light will be OFF.

BEGIN/PAUSE Button



The **BEGIN/PAUSE Button** is used to interrupt the massage sequence and to start a particular sequence.

For example: If the user likes the jet massage at a particular moment during the sequence, and wants to keep it for an extended period of time, the user may press the **BEGIN/PAUSE Button** and the system will remain in the specific configuration until the button is pushed again. The **BEGIN/PAUSE Button** status light will be on when the system is in the Pause mode. During this mode, the matrix of LED's will preview the sequence and the user may also push the SEQUENCE Button to preview another sequence

SEQUENCE Button



The **SEQUENCE Button** is used to toggle between selected message sequences. When a sequence has been selected, the corresponding LED indicator 1-6 will light.



The default mode (all jets in the lounge operating) will not be indicated by a light.

Massage Zones



The **Massage Zone Indicator Lights (Human Figure)** will be lit to identify which zone is currently active. More information on the muscle groups associated with each zone is provided in the [Massage Zone Description](#) section.

When a sequence is chosen, one or more LED in the figure will illuminate showing the active zones in that sequence. When you have selected the message sequence you want, press the **BEGIN/PAUSE Button** to start your massage.

SEQUENCE Indicator Lights



The **SEQUENCE Indicator Lights** indicate which massage sequence has been chosen by illuminating the corresponding light. In the default mode all jets in the lounge are operating. The default mode is indicated when no lights are illuminated.

Massage Zone Description

The Dimension One Spas Dynamic Massage Sequencer lets you enjoy a wide variety of massage patterns on the most critical muscle groups of your body. You can choose from six automatic jetting sequences, managing six different zones, for a rapidly adjustable *Hydro*Therapy massage session.

Zone A

This zone is designed to massage neck and deltoid muscle groups using the *NeckFlex Jet Pillow™*. There are two directional mini jets on the *NeckFlex Jet Pillow™ carrier*, that can be adjusted to five different heights in order to accommodate a variety of body sizes. The mini jets are water volume controllable and provide a narrowly focused massage pattern. They are interchangeable with rotating jets.

Zone B

This zone is designed to massage the upper back, shoulders and thoracic muscle groups. There are two rotating *VCR Jets®* which are water volume controllable and can be adjusted to change the area of coverage and the speed of the rotational pattern. These jets are interchangeable with directional jets.

Zone C

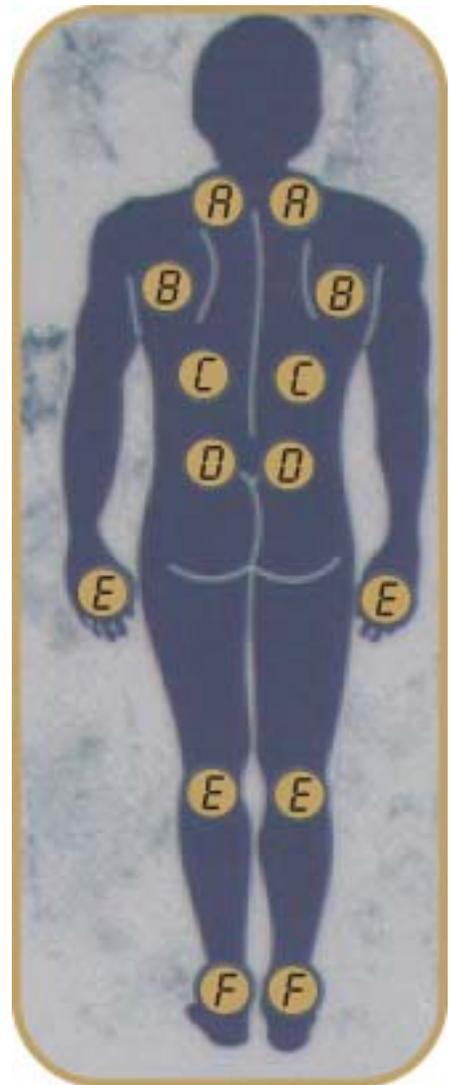
This zone is designed to massage the middle back. There are two directional *VCR Jets®* that are water volume controllable. These jets provide excellent therapy for back muscles. They are interchangeable with rotating jets.

Zone D

This zone is designed to massage the lower back and lumbar muscle groups. There are two directional *VCR Jets®* that are water volume controllable. The directional *VCR®* jet also provides an adjustable nozzle that can eliminate air induction. This adjustment allows the user to control the water velocity or the intensity of the massage at each individual jet, without the need for cumbersome valves that also control jets in other areas of the spa. These jets are interchangeable with rotating jets.

Zone E

This zone is designed to massage the back of the legs at the knee area, lower thighs, and upper calves. There are four mini directional *Euro Jets®* that are water volume controllable and provide a narrowly focused massage pattern. These jets are interchangeable with rotating jets.



Zone F

This zone is designed to massage the feet. There are two rotating mini *Euro Jets*® that are water volume controllable and provide a narrowly focused massage pattern. These jets are interchangeable with directional jets.

Operating the Dynamic Massage Sequencer



Push the **JETS Button** to turn on the spa pump.



Select the sequence you want by using the **SEQUENCE Button** to toggle between the selected massage sequences. When the sequence you desire shows an illuminated **SEQUENCE Indicator Light** (1 through 6), press the **BEGIN/PAUSE Button** to activate the massage sequence.



SEQUENCE #1 activates individual zones and steps through them – one at a time, starting with Zone A through Zone F, then reverses the sequence. The time interval between zones is determined by the Speed Button.



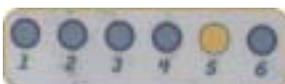
SEQUENCE #2 functions opposite of #1 above. This sequence activates all zones, then deactivates individual zones and steps through them – one at a time, starting with Zone A through Zone F, then reverses the sequence. The time interval between zones is determined by the Speed Button.



SEQUENCE #3 activates alternate zones. It sequences Zones A, C, and E first, then switches to Zones B, D, and F second. The time interval between Zone Groups is determined by the Speed Button.



SEQUENCE #4 activates individual zones and steps through them – one at a time, starting with Zone A through Zone F, then it starts over in groups of two zones – incrementing the zones (i.e. Zones A,B; Zones B, C, etc.). The time interval between Zone Groups is determined by the Speed Button.



SEQUENCE #5 starts with Zone A and adds a new zone during each step in the sequence until all zones are active. Then it reverses the sequence by removing a zone during each sequence step until all zones have been removed. The time interval between Zone Groups is determined by the Speed Button.



SEQUENCE #6 provides random groupings of two zones, starting with adjacent zones, (i.e. Zones A,B; then Zones B,C; etc), then opposite zones (i.e. Zones A,F; then Zones B,F; etc.); and finally the middle zones (i.e. Zones B,E; then Zones C,D, etc.). The time interval between Zone Groups is determined by the Speed Button.



If the time between sequence changes is too fast or too slow, you can push the SPEED Button to increase or decrease the time between sequence changes. Five seconds is default. Other speeds available are 15 and 30 seconds.

Adjusting the Fountain

You can easily adjust the fountain's **AudioTherapy** and **VisualTherapy** qualities by making simple adjustments to the fountain. The fountain contains two adjustable parts – the barrel and the spreader. Either, or both, of these parts may be adjusted to increase or decrease the height of the fountain spray, or the spread of the water blossom. Adjustments are made by turning the barrel or spreader either “clockwise” or “counter-wise,” depending on the **AudioTherapy** and **VisualTherapy** effect you desire. You may also remove the spreader head completely to create a “bubbler” effect.



You can also add an optional semi-circular spreader to your fountain to change the fountain's blossom to a ½ blossom. This item is available from your authorized D1 Spas Dealer or from our Virtual Showroom at www.D1Spas.com.

Adjusting Water Flow

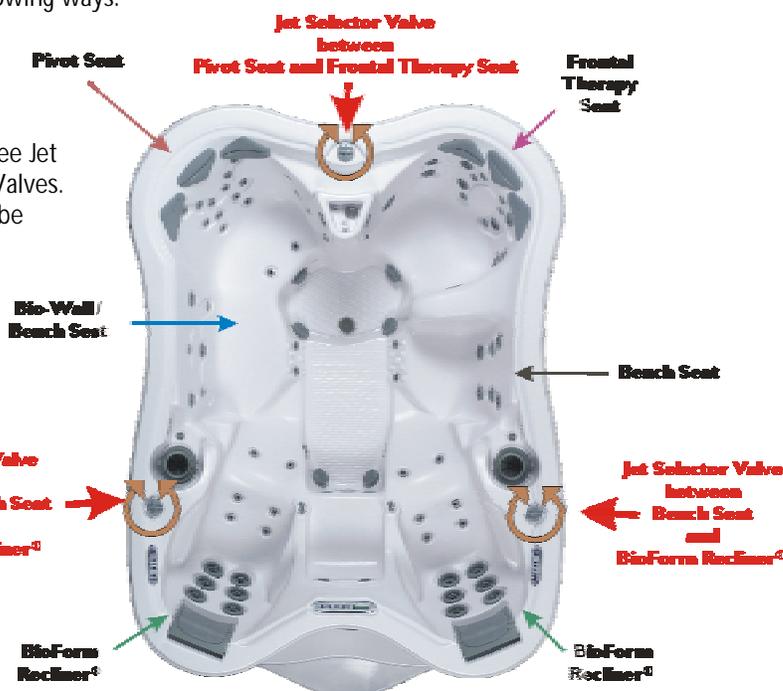
Water flow can easily be adjusted in the following ways:

Jet System Selector Valve



The Sarena Bay™ is equipped with three Jet System Selector Valves. These valves can be used to divert jet power from one seat within the spa to an adjacent seat. The valves are adjustable and can be used to suit the bather's taste. Simply turn the valves in a “clockwise” or “counter-clockwise” direction to select how much water flows to which seat(s).

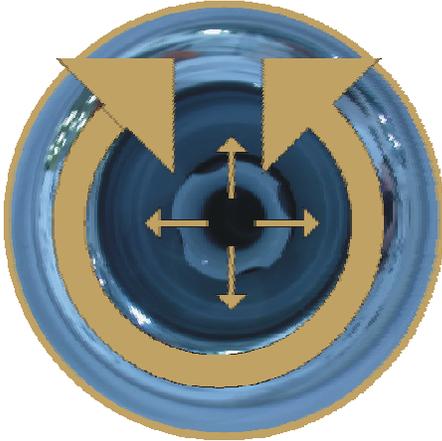
The valves may offer some resistance when the hot tub pumps are on. This is a normal condition and is caused by the high rate of water flow and pressure that travels through the valves.



Adjustable and Interchangeable Jets

The Sarena Bay™ contains three sizes of jets:

Standard VCR Jets® – Directional



These jets may be adjusted in any direction and are rated at 13 GPM (gallons per minute). The jets may be positioned to focus your *Hydro*Therapy comfort in a specific area and will hold their direction. Volume is adjustable by turning the jet either “clockwise” or “counter-clockwise” – depending on your desires.

Turning the jet's outer edge in a “counter-clockwise” direction until you feel it release will allow you to remove the jet and replace it with a **Standard VCR Jets® – Rotator**.

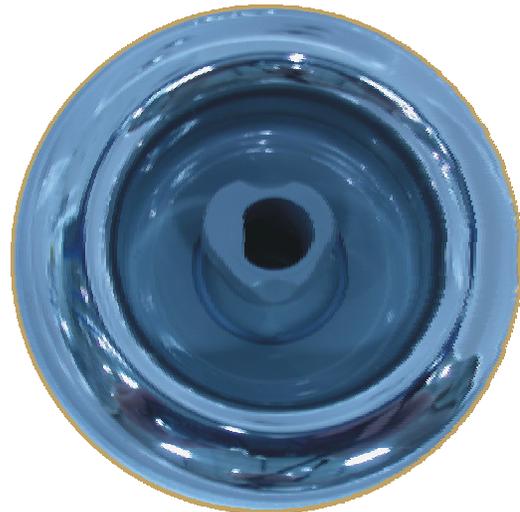


A variety of additional jets are available from your authorized D1 Spas Dealer that you may select and interchange with this jet to enhance your enjoyment.

Standard VCR Jets® – Rotator

These jets may be adjusted for volume flow by turning the jet in either “clockwise” or “counter-clockwise” – depending on your desires. These jets spin to provide a rotating *Hydro*Therapy session. These jets are also rated at 13 GPM (gallons per minute).

Turning the jet's outer edge in a “counter-clockwise” direction until you feel it release will allow you to remove the jet and replace it with a **Standard VCR Jets® – Directional**.



A variety of additional jets are available from your authorized D1 Spas Dealer that you may select and interchange with this jet to enhance your enjoyment.

Mini VCR Jets® – Rotator



These jets are rated at 8 GPM and may be adjusted for volume flow by turning the jet in either “clockwise” or “counter-clockwise” – depending on your desires. These jets spin to provide a rotating *Hydro*Therapy session.

Turning the jet's outer edge in a “counter-clockwise” direction until you feel it release will allow you to remove the jet and replace it with a **Mini VCR Jets® – Directional**.

Mini VCR Jets® – Directional

These jets are rated at 8 GPM and may be adjusted in any direction. The jets may be positioned to focus your *Hydro*Therapy comfort in a specific area and will hold their direction. Volume is adjustable by turning the jet either “clockwise” or “counter-clockwise” – depending on your desires.

Turning the jet's outer edge in a “counter-clockwise” direction until you feel it release will allow you to remove the jet and replace it with a **Mini VCR Jets® – Rotator**.



Euro Jets – Directional



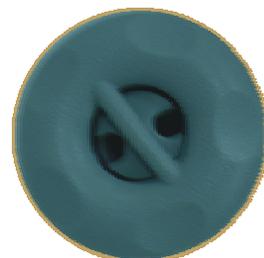
These jets are rated at 6 GPM and may be adjusted in any direction. The jets may be positioned to focus your *Hydro*Therapy comfort in a specific area and will hold their direction. Volume is adjustable by turning the jet either “clockwise” or “counter-clockwise” – depending on your desires.

Turning the jet's outer edge in a “counter-clockwise” direction until you feel it release will allow you to remove the jet and replace it with a **Euro Jets – Rotator**.

Euro Jets – Rotator

These jets are rated at 6 GPM and may be adjusted for volume flow by turning the jet in either “clockwise” or “counter-clockwise” – depending on your desires. These jets spin to provide a rotating *Hydro*Therapy session.

Turning the jet's outer edge in a “counter-clockwise” direction until you feel it release will allow you to remove the jet and replace it with a **Euro Jets – Directional**.

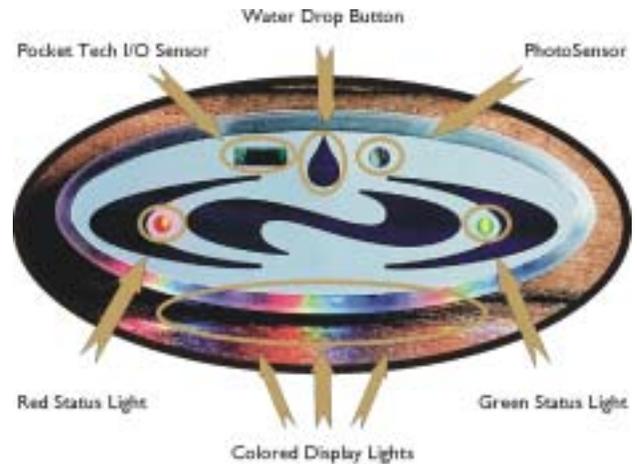


iWatch Perimeter Lighting

The **iWatch** is a “multi-featured” Status and Perimeter Lighting System. It is installed on the side panel of the spa skirt to provide spa status information and colorful perimeter lighting. Using the optional D1 Remote Control, you can control the **iWatch** perimeter lighting and basic spa functions.

The **iWatch** Master Control Module provides:

- Green Status Light to indicate the spa is functioning normally (steady green), or requires scheduled maintenance (flashing green)
- Red Status Light to indicate the spa requires service
- 9 colorful LED lights (3 Red, 3 Green, and 3 Blue) to provide perimeter lighting
- Push button control of perimeter lighting
- Connection for up to three optional Auxiliary Modules to provide additional perimeter lighting
- Photo sensor for automatically activating the perimeter lighting at night and deactivating it at sunrise.
- Palm pilot infrared interface port
- Receiver sensor for the IRMT-4 Remote Control device



The **iWatch** Master Control Module is capable of supporting up to three Auxiliary Modules to provide additional skirt lighting on as many additional sides as desired.

In addition, the **iWatch** Master Control Module provides infrared support for optional Palm Pilot and Remote Control access. These items are available from your local Dimension One Spas Inc. dealer.

Water Drop Button

The “Water Drop Button” is used to control the perimeter lighting. Pressing it causes the perimeter lighting to step through various lighting sequences.

Photo Sensor

A sensor mounted in the module senses the outside light. When it is dark, the perimeter light will be turned on. The perimeter light will be turned off when it is light.

Green Status Light

This light is always “ON” and indicates that the spa has power. A flashing Green Status Light indicates that the spa requires scheduled maintenance. The Scrolling Message Center will tell you what maintenance activity is required. If the Green Status Light continues to flash after you have performed the scheduled maintenance, you should call your dealer.

Red Status Light

The Red Status Light will be “OFF” when the spa is functioning normally. When service is required, this light is turned “ON” and produces a solid RED light. Contact your local Dimension One Spas dealer to obtain service.

Infrared Pocket Tech Sensor

This infrared sensor allows the spa's owner, and the dealer's technicians, to remotely program the following basic spa functions with an optional Palm Pilot, or compatible PDA, and the FREE **Pocket Tech** software:

- Spa Time
- Filter Cycle start time
- Filter cycle duration
- Filter Cycle frequency
- Jet Pump run time
- Temperature Units (F° or C°)
- Ultravision cartridge (if installed)
- Select language to display (English, German, French, or Spanish)

More information on hardware requirements and software capabilities is available at our website at:

<http://www.d1spas.com>

Infrared D1 Remote Control Sensor

This infrared sensor allows the spa's owner to remotely control the following spa features, or functions, using the optional **D1 Remote Control**.

- Jets
- Fountain
- Interior Spa Light
- **iWatch** Exterior Perimeter Lighting

Using iWatch

Adjusting the Perimeter Lighting

To operate the perimeter lighting feature of the **iWatch**, press the “Water Drop Button” to sequence through the various perimeter lighting combinations.



Pressing the “Water Drop Button” produces the following lighting effects:

Press	Nighttime Lighting Effect
Once	Perimeter Lights are Red
Again	Perimeter Lights are Green
Again	Perimeter Lights are Red + Green
Again	Perimeter Lights are Blue
Again	Perimeter Lights are Blue + Red
Again	Perimeter Lights are Blue + Green
Again	Perimeter Lights are Blue + Red + Green
Again	Scan All Colors (Change every 10 seconds)
Again	Starts the color sequence over again

The lighting effects are sequential – changing with each single press of the “Water Drop Button.” Starting from your current lighting effect, you will move through the entire sequence, in the above order, until you achieve your desired effect. **iWatch** will automatically “remember” your selection and use it as your default lighting setting the next time the Photo Sensor turns on the spa's perimeter lighting.



When you select the “Scan All Colors” effect, the lights will cycle rapidly through all color sequences to confirm your choice. Then they will return to the normal 10 second cycle.



Feature

These same features may also be accessed using the optional D1 Remote Control.

Daylight Operations

The **iWatch** Master Control Module has a special “daylight mode” which operates differently than the normal “nighttime mode”. Dealers typically use the “daylight mode” during installation of the **iWatch** Master Control Module, or **iWatch** Auxiliary Modules, to check for proper operation and data connectivity between the **iWatch** Master Module and the **iWatch** Auxiliary Modules.

If the “Water Drop Button” is pressed during daylight hours the perimeter lighting is turned on and the automatic Photo Sensor is temporarily deactivated. The perimeter lighting will remain on for a period of 4 hours, unless shut off manually.

To manually turn off the perimeter lights and reactivate the automatic Photo Sensor, you must use the "Water Drop Button" to cycle the lighting effects through the below light sequences until you reach the "Daylight OFF" option.

Press	Daylight Lighting Effect
Once	Skirt Lights are Red
Again	Skirt Lights are Green
Again	Skirt Lights are Red + Green
Again	Skirt Lights are Blue
Again	Skirt Lights are Blue + Red
Again	Skirt Lights are Blue + Green
Again	Skirt Lights are Blue + Red + Green
Again	Scan All Colors (Change every 10 seconds)
Again	Daylight Off – Turn Lights Off (Daylight effect only)

Power Saver Mode

Pressing the "Water Drop Button," and holding it for five seconds, will turn off the perimeter lights until the next time you press the "Water Drop Button" to reactivate the Photo Sensor.



When you turn off the perimeter lights using the Power Saver, the Photo Sensor is unable to turn your perimeter lights on when darkness is detected.

Integrated "Add-On's"

The **iWatch** Master Control Module is designed to accommodate the following optional devices:

iWatch Auxiliary Module (Optional)

This optional perimeter lighting unit connects to the **iWatch** Master Control Module to provide additional spa lighting. Up to three additional **iWatch** Auxiliary Modules can be connected to provide perimeter lighting for each side of your spa.

The **iWatch** Auxiliary Modules, which are connected to the **iWatch** Master Control Module using daisy-chained data cables, automatically mimic the light patterns you selected with the **iWatch** Master Control Module.

Pocket Tech (Optional)

The **Pocket Tech** is a Palm Pilot, with special software, that uses an infrared port on the **iWatch** Master Control Module. This optional item is used to remotely program the following spa functions:

- Spa Time
- Filter Cycle start time
- Filter cycle duration
- Filter Cycle frequency
- Jet Pump run time
- Temperature Unit (F° or C°)
- Ultravision cartridge (if installed)
- Select language to display (English, German, French, or Spanish)

The Top Side Control typically controls these spa functions.

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If you already own a Palm Pilot, or compatible Personal Data Assistant (PDA), with infrared capability, the software is available FREE from our website. To see if your Palm Pilot is compatible with the Pocket Tech software, you can find the minimum required hardware and operating system specifications on our website at <http://www.d1spas.com>. You can easily download the most current version of the software that is available for your system.

If you would like to purchase a Pocket Tech, you can contact your local dealer.

Remote Control (Optional)

The optional **D1 Remote Control** unit is an infrared device used to control the following spa features or functions.

- Jets
- Fountain
- Interior Spa Light
- **iWatch** Exterior Perimeter Lighting

Routine Equipment Maintenance

Draining Your Equipment



Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use this system unless they are supervised at all times.

All models are gravity drained. Do not drain water onto your lawn or plants unless all of the bromine or chlorine has dissipated from the water. The sanitizer in your water will dissipate quickly by leaving the cover off and exposing the water to direct sunlight. Drain and replace your water every six months. For heavy water use, you may wish to change the water more frequently.



You may purchase an optional submersible pump from your dealer or from our Virtual Showroom at www.d1spas.com to provide quicker drainage.

Filter Cleaning

Before cleaning the filter element(s) place the spa in the "Standby" mode by pressing the Dimension One Spas ICON logo® for 5 seconds. Your system is equipped with two top access filter cartridges. We recommend that you clean the filters every month as preventative maintenance.

To clean the skimmer filter cartridge, lift the center float of the skimmer assembly until it is fully extended. Hold the centerpiece of the assembly and turn it counterclockwise until the flats of the basket are aligned with the securing tabs. Then pull the basket assembly straight up to remove. Next, remove the E-Z Lock Filter cartridge by twisting the cartridge 1/4 turn counterclockwise to its stop. (Be careful not to overturn the filter) Then lift the filter out of its canister. Clean the cartridge with a high-pressure garden hose. Every other cleaning, soak the cartridges in a filter-cleaning solution, rinse it thoroughly, and reinstall. Replace the skimmer basket assembly and the access lid or cover. Exit the "Standby" mode by pressing Dimension Spas ICON logo® for 5 seconds. After cleaning, run the pump for a few minutes at high speed, then return to the heating mode.

To clean the **UltraPure™** filter cartridge, remove the E-Z Lock Filter cartridge by twisting the cartridge 1/4 turn counterclockwise to its stop. Then lift the filter out of its canister. Clean the cartridge with a high-pressure garden hose. Every other cleaning, soak the cartridge in Dimension One Spas' **Cartridge Cleaner**, then rinse it thoroughly, and reinstall. Replace the access lid or cover. Exit the "Standby" mode by pressing Dimension Spas ICON logo® for 5 seconds.

Light Bulb Replacement

All systems are equipped with Dynamic LED Light bulbs. To change the bulb:

1. Turn the power off and drain the system below the level of the light.
2. Using the special tool provided in the owner's manual packet, unscrew the cover for the light housing.
3. Remove the old bulb and install the new bulb.
4. Use the special tool to replace the cover for the light housing.
5. Check to ensure proper operation of the new bulb before refilling the system.



Warning

Do not attempt to remove the light housing cover without lowering the water level below the light housing cover.



Note

Do not attempt to remove the light housing cover without the special tool. If you are not able to locate it, contact the Dimension One Spas' Service Department to have one sent.



Note

Be sure the O-ring is not damaged and is properly in place when replacing the lens. Contact Dimension One Spas if a replacement O-ring is needed.

Surface Care

Ultralife® Shell

Your equipment has a very high quality finish. Stains and dirt will generally not adhere to the surface. We recommend cleaning the entire shell surface with Dimension One Spas' **Water Line Cleaner**. You may also use Dimension One Spas' **ph/Alkalinity Increaser** or mild cleaners like Soft Scrub. 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**.



Caution

Do not use "409" type cleaners or other caustic solutions as they may damage the hot tub shell surface and void the warranty. If you are using baking soda to clean your hot tub shell, be careful not to get it on the skirt. It may bleach the wood.



Caution

Do not use citrus-based cleaners on the shell surface.

Dimension One “ EnviroTect” Skirts and Vinyl Covers

The Dimension One **EnviroTect** skirts are unaffected by most corrosive substances, and will not absorb moisture. To maintain the original finish, clean with soap and water. No sealing or painting is required. To maintain a “nearly original” appearance we recommend applying **303 Protectant** at least once a month on the Dimension One **EnviroTect** skirts and on the vinyl covers if they are exposed to direct sunlight. **303 Protectant** is rated at 40 SPF (Sun Protection Factor).

Care for the Wood Spa Cabinet

When properly cared for, the wood cabinet of your hot tub will maintain its beauty for many years. All woods react differently to the elements by expanding and contracting. To protect your beautiful wood finish, re-stain it every 3-6 months with Dimension One Spas’ **Redwood** or **Coastal Gray Stain**, which serves as a good sealing agent for the wood. Please note that the cabinet is not warranted against reaction to natural weather conditions. The wood must be properly maintained. Should your hot tub cabinet require re-conditioning, try Dimension One Spas’ **Wood Refurbishing Kit**.

Special Cold Weather Instructions

Slipping into your steamy water on a snowy, winter night is a refreshing experience. Many times, people who could never imagine being outside in winter weather, find themselves spending their winter nights doing just that, while relaxing in their hot tub with family and friends. Therefore, the best winterizing tips of all are to enjoy use of your system year-round.

All systems manufactured by Dimension One Spas are designed for rigorous winter use. They are insulated to keep operating costs down and to protect plumbing and equipment whenever the products are operational. Each product line incorporates freeze protection mode to maintain water circulation during freezing conditions whenever the system has proper electrical power and water level. Therefore, a fully operational system is your number one defense against freeze damage.

If you find it completely necessary to drain your water during the winter months, in an area where freezing conditions may exist, please adhere to all of the instructions in this section to minimize the risk of freeze damage. Failure to complete any of the steps satisfactorily will increase the chance of freeze damage, as small amounts of water trapped in pipes will expand as it freezes, and may result in damaged plumbing lines or fittings.



Dimension One Spas does not recommend that you drain your system for the winter. Freeze damage caused by winterizing your system is specifically not covered by Your Warranty.

Items Required for Winterizing

- Phillips head screwdriver
- 16" (40.6 cm) Channel-lock pliers
- High pressure air blower
- Commercial grade wet-vacuum
- 3 gallons (11.37 liters) to 6 gallons (22.74 liters) of Non-Toxic Antifreeze
- Strong, able-bodied people capable of lifting system into upright position
- Enough time (and patience) to perform all steps.

Procedure for Winterizing

1. Shut the power off to the system and make sure that it cannot be accidentally turned back on.
2. Remove filter elements from filter assembly.
3. Drain water from the system using the drain fitting and garden hose or you may use a submersible pump for f
4. Open the equipment compartment and locate pumps and heater.
5. Remove all of the drain plugs from each pump.
6. Loosen unions on both sides of each pump, and the heater if applicable.
7. If your system has a Dynamic Jet Sequencer, please remove that access panel as well and loosen all unions on each of the sequencer valves. There are 6 sequencer valves, that means that you will have to loosen 12 unions.
8. Tip the system onto one side. (The system will have some water remaining, which will add to the weight). Be sure to have enough people available to safely lift the weight of your system. Do not tip system onto equipment bay side.

Close all jets, by turning jet faces counter clockwise.

9. Put on your protective goggles in order to protect eyes from air, water, antifreeze or debris exiting the jets or drains.
 10. Insert the hose of a high-pressure air blower into the filter element fitting. Some models may have 2 filters. Begin with the left-hand filter fitting, which will help evacuate water from the circulation pump system. Then proceed to the right-hand filter fitting. When using air blower on single-filter systems or the right-hand fitting on dual filter systems, rotate each of the jet faces clockwise to open and counter-clockwise to close again. Do this to each jet face, one jet at a time. Be careful, as water will be coming out of each jet fitting as you perform this maneuver. Perform this operation, until no more water is coming from the jets.
 11. Remove jet faces and insert the hose of a high-pressure air blower into each jet fitting. Continue this process, until no more water comes out of any jet fitting or drain fitting and you no longer hear water gurgling within the plumbing. Place all jet faces in a plastic bag and set aside until you are ready to use your system again.
 12. Remove both bleeder valves from the top of the filter canister area. Place hose of a high-pressure air blower into the rear-most bleeder fitting first. Confirm that water mist is blowing from one or both of the circulation system return jets in the footwell of the system. You may also get some water mist blowing from the filter canister. Repeat this process with the front-most bleeder fitting. Confirm that water mist is blowing from the drain fittings of the jet pumps.
 13. Place the hose of a commercial grade, wet-vacuum over each jet fitting, bleeder valve fitting, and drain fitting to draw out as much remaining standing water as possible.
- Remove drain hose bib assembly from the outside bottom of the system.

14. Use the wet-vacuum to remove standing water from the pumps and any other fittings within the equipment compartment.
15. Once you are sure that all water is evacuated from the plumbing and equipment of the system, put the system back down in its normal position and repeat Step 10 and Step 11
16. Read all Directions and Safety Precautions on the Swimming Pool or Recreational Vehicle antifreeze bottle before opening and using. Ensure that it is non-toxic and safe for this use. Beware of and follow all safety precautions.

17. Using a long funnel, begin pouring non-toxic swimming pool or recreational vehicle water system antifreeze into the filter canister fittings, bleeder valve fittings and jet fittings of your system. Continue adding antifreeze until it comes out of the drain fittings or from the opening you are pouring it into. You must complete this task for every jet fitting in the system. Some of the antifreeze will seep into the system from the drain or jet fittings, which is okay, the goal is to have anti-freeze collect in the areas of the plumbing that would normally trap water. Use the funnel to also place antifreeze into the pump housing(s).



When pouring antifreeze into the rear-most bleeder valve fitting, you may see antifreeze pouring from one or both of the circulation system return fittings.



DO NOT USE AUTOMOTIVE COOLING SYSTEM ANTIFREEZE IN YOUR SYSTEM. IT IS TOXIC AND HARMFUL TO HUMANS AND ANIMALS. CHECK WITH YOUR LOCAL SPA DEALER OR RV DEALER TO PURCHASE NON_TOXIC ANTIFREEZE THAT IS COMPATIBLE WITH DRINKING WATER SYSTEMS!

18. Replace all equipment access panels onto the system.
19. Replace thermal cover and secure locking tabs. If your system is located in an area of high snowfall, you may want to take one more extra precaution to safeguard the life of your system cover. Span the cover with (2 or more) 2x4's cut to length to reach the outside edges of your cover. Place a sheet of plywood, cut to fit each half of the cover, over the 2x4's; this will carry the load of a heavy snow load and prevent the cover from warping or breaking. You can even tarp the system at this point for maximum protection.

Spring Time Startup

In the spring, or when your ready to start the system back up, follow these instructions.

- Make sure o-rings for pumps are in place and undamaged.
- Make sure all the fittings that you had to loosen are tightened.
- Replace all jet fittings, pump drain plugs, hose bib drains and bleeder valves
- Fill the system up, as you would normally do.
- Turn the power back on.
- Run the jets on high speed for about 15 minutes.
- Drain the water.
- Put your filter(s) back in.
- Refill and treat chemically like you would during a normal water change.



Your system is equipped with automatic freeze protection. However, power outages can cause your system equipment to freeze quickly. During freezing conditions, check your system frequently to ensure proper operation. Always check your system after any power failure to ensure that it is operational. Draining and not operating your system disables this feature.

For additional information about winterizing your spa, please contact your local Authorized Dimension One Spas dealer.

Warranty Service Information

Your hot tub warranty gives you specific coverage. Be sure to read the enclosed warranty sheet carefully.

The warranty does not cover problems arising from misuse, abuse, or neglect, and it does not cover problems caused by improper installation or "perceived" problems caused by failure to read the hot tub owner's manual. A service charge will be made if a service call is made for any of the following:

1. Equipment failure due to improper/inadequate electrical service. All systems require dedicated circuits as described in this manual. Low voltage can cause equipment failure and seriously shorten equipment life. It is the owner's responsibility to ensure proper electrical service is available.
2. Failure of hot tub to reach desired temperature because the set temperature is not turned up high enough. Maximum thermostat setting is approximately 104° F (40° C).
3. Burned out hot tub light. Bulbs are not covered.
4. Hot tub water chemistry is the responsibility of the hot tub owner. Cloudy, dirty or chemically unbalanced water and cleaning of the hot tub filter are also the responsibility of the hot tub owner.
5. Hot tub shell or equipment damage caused by improper water maintenance. Serious damage can be caused if your hot tub water is not maintained carefully and correctly.
6. Poor jet action because the jet Selector valve is in the middle position. For full performance, turn the jet Selector valve to either the full clockwise or full counterclockwise position.



Do not block air intakes located on the front left corner underneath the hot tub (the front right corner for the Chairman II and Triad II) and under the equipment access panel. Resulting malfunctions are not covered under warranty.

Glossary of Terms

Term	Definition
Bleeder Valve	A small valve used to relieve or expel air from the spa's plumbing or pump.
Circulation Pump	A pump that circulates the water in the spa continuously.
Dry Firing	Turning the heater element on when there is no water in the heater.
Equipment Access Panel	Provides access to your spa's equipment for a qualified service technician.
Filter Cartridge	Your spa's filters have been designed so that you may repeatedly clean and maintain the filter element as needed. The element is constructed of woven polyester rather than paper to ensure long life and proper filtration.
GFCI-Ground Fault Circuit Interrupter	A type of Circuit Breaker that automatically disconnects power to the spa when there is an electrical power leakage to ground.
Gravity Drain Valve	Used to drain your spa
Halogens	Free chlorine, bromine or iodine ions that are very strong oxidizers used to sanitize water.
ICON Pad	This is a pad accessed by pressing the Dimension One Spas Logo® on the far right of the Top Side Control Panel.
Jets	Return the water into the spa from the equipment. The jets produce a turbulent flow of water mixed with air to provide a concentrated body massage
Light	Illuminates the spa
Load Sharing	When the circuit breaker size is smaller than the total power needed to operate both the heater and the jet pump at the same time, load sharing automatically turns off the heater when a jet pump is turned onto high speed.
Lower Control System	The electronic control system that governs all of the electrically operated components of your spa utilizes an advanced microprocessor and solid-state electronic devices to activate all user and maintenance options. A backlit, highly reliable liquid crystal display gives you a complete update of the spa status at any time of the day or night. Temperature setting, as well as control of the light, jets, filtration, and time of day display, are all instantly available from, and controllable at, the topside control panel.
Ozone Generator	A specialized ultraviolet light that changes oxygen into ozone for use in the water sanitation process.
Flow Switch	Safety device(s) that sends a signal to the electronic control system that there is adequate water flow to turn the heater on.

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Term	Definition
Pump	<p>Produces water flow through the heater, filter, sanitation system and the main jets in the spa. The pump will operate automatically during filtration and heat cycles. This pump can also be operated manually by depressing the "jets" pad on the topside control panel which will allow you to choose between two speeds</p> <ul style="list-style-type: none"> • Low speed for efficient water circulation during heating and filtration modes, and for gentle jet resistance or massage action. • High speed for maximum jet action.
Selector Valve	<p>Located on the top edge of the spa, it diverts jet power from one area of the spa to another.</p>
Serial Number	<p>Please use the serial number (located on the left corner pedestal) in communication with your dealer.</p>
Slice Valves / Shutoff Valves	<p>Valves located within the spa's internal plumbing, which are used by service personnel to shut off water flow to the heater and pumps. All valves must be completely open during normal operations.</p>
Smart Heat	<p>(Available on Dimension One Spas only) Smart Heat optimizes heat recovery using the amperage that you have available. Along with computerized load sharing, that automatically recognizes the number of jet pumps in use, compares it with the available power, Smart Heat recognizes the difference between the set temperature and the actual water temperature, and adjusts the heater to optimize the heater output.</p>
Temperature Sensor	<p>Measures the temperature of the water inside the spa. This temperature sensor is used to control the spa heater and the temperature is displayed on the spa side control panel.</p>
Top Side Control Panel	<p>Used to control temperature, pumps for jets, spa light, system clock, automatic filtration cycles, and other advanced functions.</p>
Unions	<p>Connects the spa plumbing to the equipment. The unions allow a service technician to remove equipment without cutting plumbing.</p>
Venturi	<p>A device used to inject air into the water.</p>
Vision Cartridge	<p>A safe, water sanitizer that can be used in place of chlorine.</p>
Water Return Fittings	<p>In addition to the skimmer, the water return fittings provide water inlets to your spa pumps. DANGER – Never Block Or Remove Any Of The Water Return Fittings.</p>
Weir Skimmer	<p>A floating water referencing device that skims debris from the surface of the water.</p>

Troubleshooting Guide

Heating System

Symptom	Problem	Corrective Action
Does not heat	1. Temperature setting is too low	1. Turn up the thermostat
	2. Dirty filter	2. Clean filter
	3. Flow switch malfunction	3. Call for service
Too hot	1. Temperature setting is too high	1. Turn down the thermostat
	2. High limit tripped	2. Call for service
Erroneous temperature of 32°F (≅0° C) or 136°F (≅57.8° C) appears on the display	Possible temperature sensor failure	Call for service
Hot Tub Temperature erratic	Water level	Fill with water to the bottom of the OptiMount™ located next to the Skimmer Basket.
Display reads OVERHEAT	1. Too much filtration	1. Reduce the number of filter cycles and/or the filter cycle duration
	2. Temperature setting too high	2. Turn down the thermostat
	3. High limit or sensor problem	3. Call for service

Electrical System

Symptom	Problem	Corrective Action
Will not turn on - in any mode	No power	Check circuit breaker and/or GFCI
Turns on by itself	Normal automatic daily power filtration, or anti-freeze cycle	No action required
Light is out	Burned out bulb	Replace bulb
Pump shuts down unexpectedly while in use	1. Automatic timer has shut pump off	1. Push JETS pad again to start another cycle
	2. Motor over-heated and automatic protective device has shut down pump(s)	2. If pump(s) will not restart when JETS pad is pushed, call for service Make sure that the equipment panel vent area is not blocked. Vent blockage can cause serious damage to your equipment.
3 flashing LEDs appear on the Top Side Control	Possible sensor errors	1. Check water level
		2. Clean filter
		If problem persists:
		1. Turn off power
		2. Restart the system
		If problem persists:
	Call for service	
Spa lights always start in the default light sequence	Whenever the lights are turned off they always turn on in Color Fade Fast mode	Because both lights are synchronized together, they always return to a "common starting point" after they have been turned off for more than five seconds. This ensures that they will remain synchronized.

Water System

Symptom	Problem	Corrective Action
Pulsating jets	Water level too low	Fill with water to the bottom of the OptiMount™ located next to the Skimmer /Filter Basket.
No Jet Action, or action is poor	1. Jets are turned off	1. Turn jets on by turning jet face clockwise
	2. Diverter Valve turned	2. Turn the Diverter Valve clockwise or counter clockwise
	3. Dirty Filter	3. Clean Filter
	4. Air lock	4. Loosen pump union to allow air to bleed
	5. Gate valve closed	5. Open gate valve
The "Check Water Level....." scrolling message and /or 3 flashing L.E.D.s appear on the display.	Possible sensor errors	1. Check water level
		2. Clean filter
		3. If problem continues: <ul style="list-style-type: none"> a. Turn off power b. Restart the spa
		4. If problem persists: <ul style="list-style-type: none"> a. Call your dealer for service
Fountain doesn't drain	The bottom of the fountain has water that will not drain out.	The water level in the spa is too high. Remove enough water to return the water level to slightly below the bottom of the OptiMount™ located adjacent to the Skimmer/Filter Basket.

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DIMENSION ONE SPAS®
HOME HYDROTHERAPY
A HIGHER DEGREE OF INDULGENCE

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Product specifications and features are subject to change without notice.
Specifications on intamassional models may vary. Patent pending

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