

## **Spa Information**

My Spa:

It is very important that you gather the following information on your spa and enter it in the blanks provided below. This information can then be used to complete your Warranty Registration, which you can do by completing and mailing the Warranty Registration Card included in your information packet or by visiting our website at <a href="http://www.D1Spas.com">http://www.D1Spas.com</a> and clicking on Warranty Registration on the Customer Service menu. This information will be needed if you ever want to purchase additional items for your spa, or if service is ever required. Be sure to consult with your Dealer to ensure the accuracy of this important information.

Model Name:		Serial Nur	nber:
Date Purchased:		Date Insta	alled:
Gallons/Liters:			
_			
<del>-</del>			
-			
Dealer Informations	:		
Dealer's Name:			
			Zip:
Telephone:			Fax:

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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.

#### **SAVE THESE INSTRUCTIONS.**

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# IMPORTANT SAFETY INSTRUCTIONS (CSA SAFETY INFORMATION)

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

#### READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

- 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.
  - o IEC Publication 417, Symbol 5019.
- 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.
- 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.
- 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 TRE 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 USE 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 TRE DANGEREUSE POUR LA SANTÉ.

- Do not permit electric appliances (such as a light, telephone, radio, television, etc.) within 1.5m 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 MATIERÈS DISSOUTES DOIT TRE CONFORME AUX DIRECTIVES DU FABRICANT.
- 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 CONSIDÈRABLEMENT 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.

#### **SAVE THESE INSTRUCTIONS.**

## **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.

#### 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 spa.
- DON'T allow anyone to tamper or play with any of the safety or suction fittings of your spa.

## **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 92081 (760) 727-7727

# A IMPORTANT

This spa is insulated with high-density urethane foam for structural support and energy efficiency. When empty of water and left in direct sunlight without the spa cover in place, the spa is vulnerable to ultra violet or solar damage. Temperatures generated by sunlight can become concentrated in the spa shell surface causing the shell material to delaminate from the urethane foam backing. This occurrence is considered abuse and may result in blisters, bubbles, or large layer delaminations. This occurrence is not covered under warranty. The spa cover must be kept on the spa while empty of water.

NOTE: THIS MARKING IS TO BE REMOVED ONLY BY THE OWNER.

## **Hot Tub Features**

Congratulations! You have purchased one of the finest portable hot tubs available. Take the time to read these instructions carefully. If installed and maintained properly your hot tub will provide many years of enjoyable, trouble-free operation. If you have any questions, please contact your local Authorized Dimension One Spas Dealer.

#### The following features are included on your hot tub:

- UL and ETL listed/CUL approved
- Completely self-contained with load sharing capabilities
- Designed for indoor or outdoor use
- Cup Holders (most models)
- Water level referencing weir skimmer
- Proportional FastFlo<sup>™</sup> Heater
- Multiple jet systems with Selector Valve (except in the Aurora HP and Triad II)
- Exclusive, custom hand-set ceramic tile adds a distinctive touch (except Seville)
- Automatic high/low speed filtration cycles

- 100% foam insulated
- All hot tub shells are formed from high impact thermoplastic or polymers
- Top access, easy to clean filter systems using "Standby" mode
- Tactile Therapy (most models)
- Handcrafted cabinets
- A variety of interchangeable jets
- Polyethylene floor completely seals the hot tub, eliminating moisture or insect intrusion
- Built-in, automatic freeze protection

#### **Additional Features**

#### Aurora II, Californian, Chairman, Chairman II, Diplomat, and Nautilus

- Scrolling Message Center with digital display, instructional, and maintenance messages
- UltraPure™ Water Management System
- NeckFlex |et Pillow™
- Infrared sensor on the Top Side Control
- Twin, long life, dual speed HydraMax® pumps
- 150 sq. ft. (13.94 m<sup>2</sup>) of filtration

#### Arena and Aurora HP

- Programmable Digital control with digital display
- CrystalZone® Water Management System (optional on Aurora HP)
- Long life, dual speed HydraMax® pump
- 75 sq. ft. (6.97 m<sup>2</sup>) of filtration

#### Seville and Triad II

- Scrolling Message Center with digital display, instructional, and maintenance messages
- UltraPure<sup>™</sup> Water Management System
- NeckFlex |et Pillow™
- Infrared sensor on the Top Side Control
- Long life, dual speed HydraMax® pump
- 150 sq. ft. (13.94 m<sup>2</sup>) of filtration

## **Jet System Selector Valve**

All hot tubs (except the Aurora HP and Triad II) are equipped with spa-side Selector Valves. These valves can be used to divert jet power from one area within the hot tub to another. The valves are adjustable and can be used to suit the bather's taste. The valves may offer some resistance to operation when the hot tub pump is on. This is a normal condition, and is caused by the high rate of water flow and pressure that travels through the valves.



## **NeckFlex™ Jet Pillow**



The **NeckFlex™ Jet Pillow** offers five height adjustable positions to accommodate different body sizes. The standard mini directional jets can be interchanged with rotating jets and are adjustable for water volume. See your local Authorized Dimension One Spas Dealer for more information.

#### **Infrared Sensor**



Remotely Control Spa Functions

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

- lets
- Interior Spa Lights
- Optional iWatch Exterior Perimeter Lighting

## **Water Management System**

#### **UltraPure**Mater Management System

The Chairman II, Diplomat, Chairman, Californian, Nautilus, Aurora II, Seville, and Triad II are equipped with the patented **UltraPure**™ **Water Management System**. **UltraPure**™ **Water Management System** ™ is an integrated system with a 24-hour Mazzei-T ozone injection, a two stage contact chamber, integrated circulation pump, 24-hour 100% filtration, heating on demand, and maintains the pre-set water temperature without the use of a jet pump.

## CrystalZone® Water Management System

Specifically engineered for Dimension One spas, the **CrystalZone**® Water Management System found in the Arena, and optionally on the Aurora HP, provides an integrated ozone purification and filtration for hot tubs. It maintains the pre-set hot tub temperature, without the use of a jet pump. Using a Mazzei-T ozone injector, the **CrystalZone**® Water Management System provides cleaner water at lower operating costs. You'll spend more time enjoying your hot tub and less time maintaining it.

#### **Vision Systems**

Vision Cartridge, an alternative purification system, can be used in conjunction with your **UltraPure™ Water Management System** or **CrystalZone®** 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.

## **Heater and Circulation Pump Control**

On all Dimension One Spas, when the water temperature is  $I^{\circ}$  F ( $\cong$ 0.55° C) below the set temperature the heater will turn on and remain on until the water temperature rises to  $I^{\circ}$  F ( $\cong$ 0.55° C) above the set temperature. To prevent the hot tub from overheating, the circulation pump turns off when the water temperature rises  $I^{\circ}$  F ( $I^{\circ}$  C) above the set temperature. When the water temperature cools down to the set temperature, the circulation pump will turn on.



The circulation pump will run for short periods when the water temperature is  $2^{\circ}$  F ( $\cong 1.1^{\circ}$  C) above set temperature to provide optimum operation. (The circulation pump is optional on the Aurora HP.)

## Smart Heat (Available only on Dimension One Spas)

**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.

## **Operation**

Operation is divided into two sections: Top Side Controls for the Arena, and Aurora HP, which use the Programmable Digital Control and Top Side Controls for the Aurora II, Seville, Californian, Chairman, Chairman II, Diplomat, Nautilus, and Triad II which use the Scrolling Message Center.

## **Top Side Controls**

#### Arena and Aurora HP

Advanced microprocessor technology has been utilized to produce the Programmable Digital Control. Easy to use and understand, Dimension One Spas has put every hot tub function within fingertip control. Temperature setting, jet power control, and the hot tub light are all 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 the Canadian Standards Association (CSA).

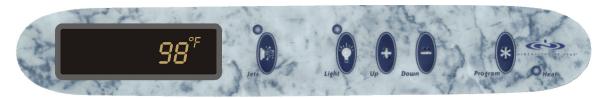
Digital Control lets you relax and enjoy everything your hot tub has to offer.



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

#### **Using The Top Side Control**

Advanced microprocessor technology has been utilized to produce the Programmable Digital Control. Easy to use and understand, Dimension One Spas has put every hot tub function within fingertip control.



Temperature setting, jet power control, and the hot tub light are all 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 ULI563 Standard for Safety for Electrical Spas as evaluated and inspected by Edison Test Labs (ETL).

Digital Control lets you relax and enjoy everything your spa has to offer.

#### Digital Display Window



**Digital Display Window:** This window displays the actual water temperature in either F or C. It will also display time, filter cycle start time, filter cycle duration time, and the number of filter cycles.

When you are setting the "target temperature" for your water, this window will display the target temperature. After a brief pause, about 5 seconds, the window will return the display to the actual water temperature.

#### **Jets Button**





Jets Button: Press the button once to turn on the pump to Low Speed. A second press will turn it to High Speed. A third press will typically turn the pump off, unless the pump has been automatically activated during a heating cycle – in which case a third press will return the pump to the Low Speed. The Jets Indicator Light, next to the Jets Button, will be lit while the pump is running. A Jet Pump Icon will also display in the upper left corner of the Digital Display Window whenever the pump is running.

A built-in timer will automatically shut the pump off after 30 minutes of operation unless you turn it off manually. When the pump is first turned on, a small scale will be displayed in the lower left corner of the Digital Display Window.

When the Jets Indicator Light, the Light Indicator Light, and the Heat Indicator Light are flashing, they indicate a problem with your spa. See the <a href="Troubleshooting Section">Troubleshooting Section</a> for more details.



Pushing the **JETS Button** will disable any concurrent filter cycle.

#### **Light Button**





**Light Button:** Push the **LIGHT Button** once to activate the brightest setting. A second push will activate the medium setting, and a third push will activate the dimmest setting. Push the **LIGHT Button** a fourth time to turn the light off. When the spa light is ON, the Light Indicator LED will be lit. The light will automatically turn off after one hour. A Light Icon will also display in the upper left corner of the Digital Display Window whenever the light is on.

When the Light Indicator Light, the Jets Indicator Light, and the Heat Indicator Light are flashing, they indicate a problem with your spa. See the <a href="Troubleshooting Section">Troubleshooting Section</a> for more details.



The spa is designed to allow the installation of an optional **Dynamic L.E.D. Light** so that you can enjoy a wide range of lighting sequences. If the **Dynamic L.E.D. Light** is installed in your spa, the **Light Button** is used to turn the **Dynamic L.E.D. Light** ON or OFF and manage the custom lighting sequences.

#### **Up and Down Buttons**





**Up (+) and Down (-) Buttons:** Pushing the **UP (+) Button** increases the temperature and pushing the **DOWN (-) Button** decreases the temperature. Push the respective button one time for each degree of temperature change you want, or "push and hold" the button for rapid adjustment.

The actual spa water temperature is normally displayed in the Digital Display Window until you push the **UP** (+) or **DOWN** (-) **Button** or the **Program Button**. If you push the **UP** (+) **Button** or the **DOWN** (-) **Button** the Digital Display Window will change to indicate your new target temperature setting. The Digital Display Window will also display the SET TEMPERATURE Icon in the lower right side of the Window to indicate the temperature shown in the window is a "target setting" and not the actual temperature. The Temperature Icon will also be displayed along the top of the window if your new setting requires more heat.

Once the new temperature is set, the actual spa water temperature will again be indicated. The spa will heat to the new temperature automatically.

#### **Program Button**





**Program Button:** The **PROGRAM Button** is used to set several different functions including:

Programmable Item	Program Button Action
Clock	Press & Hold 5 seconds
Filter Cycle Start Time	2 <sup>nd</sup> Press
Filter Cycle Duration	3 <sup>rd</sup> Press
Number of Filter Cycles	4 <sup>th</sup> Press
Temperature Unit	5 <sup>th</sup> Press
Quit Program sequence	6 <sup>th</sup> Press or wait 60 seconds

When you have successfully entered the programming sequence, the word "PROGRAM" will be displayed in the Digital Display Window.

You can now start to program your spa controls.

## Clock: Program the Clock lit for about 5 seconds



**Program the Clock** by pressing the **PROGRAM Button** and holding it for about 5 seconds. The Digital Display Window will display the word PROGRAM and a digital clock with the HOUR setting flashing.



Use the  ${\bf UP}$  or  ${\bf DOWN}$  Buttons to change to the correct HOUR.

When the HOUR is correct, press the **LIGHT Button** to toggle to the MINUTES side of the time.



Use the **UP** or **DOWN Buttons** to change to the correct MINUTES. When the MINUTES are correct, press the **LIGHT Button** to toggle the AM/PM.

#### **Filter Cycle Start Time:**



**Program the Filter Cycle Start Time** by pressing the **PROGRAM Button** a 2<sup>nd</sup> time. Whenever you are programming a filtration setting, the FILTER Icon will be displayed next to the word PROGRAM in the Digital Display Window.



Use the **UP** or **DOWN Buttons** to change to the correct HOLIR

When the HOUR is correct, press the **LIGHT Button** to toggle to the MINUTES side of the time.



Use the **UP** or **DOWN Buttons** to change to the correct MINUTES. When the MINUTES are correct, press the **LIGHT Button** to toggle the AM/PM.

#### **Filter Cycle Duration:**



**Program the Filter Cycle Duration** by pressing the **PROGRAM Button** a 3<sup>rd</sup> time. Whenever you are programming a filtration setting, the FILTER Icon will be displayed next to the word PROGRAM in the Digital Display Window.



To adjust the filter cycle duration, use the **UP** or **DOWN Buttons** to change to the correct amount of time you want the filter to run. Your choices are 60, 90, 120, 150, or 180 minutes. The factory default is 60 minutes.

#### **Number of Filter Cycles:**



**Program the Number of Filter Cycles** by pressing the **PROGRAM Button** a 4<sup>th</sup> time. Whenever you are programming a filtration setting, the FILTER Icon will be displayed next to the word PROGRAM in the Digital Display Window.



To adjust the number of filter cycles to run during a 24-hour period, simply use the **UP** or **DOWN Buttons** to select the correct number. Your choices are 1, 2, 3, or 4 cycles per day. The factory default is 2 times per day.



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

#### **Temperature Unit:**



**Program the Temperature Unit** by pressing the **PROGRAM Button** a 5<sup>th</sup> time. The current Temperature Unit will be visible in the Digital Display Window.



To adjust the Temperature Unit used to measure spa water temperature, simply use the **UP** or **DOWN Buttons** to select between Fahrenheit (°F) and Celsius (°C). The factory default setting is Fahrenheit.

Exit the Programming Sequence by pressing the **PROGRAM Button** a 6<sup>th</sup> time. All changes will be saved.

If you do not proceed with the programming within 60 seconds, the spa will automatically exit the programming sequence and revert to your previous settings. Any programming changes made up to that point would be saved.

#### **Heat Indicator Light**



### **Heat Indicator Light:**

This Light is illuminated whenever the heater is on. Additionally, the HEAT Icon will also be displayed in the upper left corner of the Digital Display Window.



#### Dimension One Spas Icon (Logo) Button





**Dimension One Spas ICON (Logo):** The time of day can be viewed by pushing the **Dimension One Spas ICON Logo Button** on the far right of the control. If no other button is pushed within 5 seconds, the display will revert to the spa water temperature reading.

The pre-set factory default is Fahrenheit. Use the **PROGRAM Button** as previously described to reset the clock.

#### **Digital Display Messages**

The following messages may appear in the Digital Display Window:

"OH" - Overheat Protection



**DO NOT ENTER THE WATER** when "**OH**" is displayed on the control system's Digital Display Window because the spa is in a high temperature condition. If this happens, remove the spa cover and allow the water to cool below 110° F ( $\cong$ 43.3° C). Turn off all power to the system to reset.

If the problem persists, contact your local Authorized Dimension One Spas Dealer, or authorized service center.

Flashing LED on the Control Panel





**DO NOT ENTER THE WATER** if you see 3 flashing LEDs on the Top Side Control. The system has detected a problem.

Check to see of your Digital Display Window is also displaying an Overheat Protection condition (**OH**). If you have flashing lights and an **OH** in the display, your system has detected a high limit condition. The water temperature has reached 118° F ( $\cong$ 47.8° C). The entire system is disabled.

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

Flashing LED on the Control Panel



**DO NOT ENTER THE WATER** if you see 3 flashing LEDs on the Digital Display Control. The system has detected a problem.

If you have flashing lights, but the Digital Display Window shows the current water temperature, you have a water flow problem. You will need to check the water level and/or clean the filters.



Before checking the water level or cleaning the filter be sure to test the water temperature. Do not rely exclusively on the accuracy of the temperature reading in the Digital Display Window. Make sure the water temperature is safe before cleaning the filters.

The flashing lights should stop once the problem is fixed. If the problem persists, reset the power to the spa by resetting the GFCI breaker.

If the error is not resolved after resetting the spa, contact your local Authorized Dimension One Spas Dealer, or authorized service center.

## Erroneous Temperature on the Display



**DO NOT ENTER THE WATER** if you see a temperature reading of **32°**  $F \cong 0$  or **136°**  $F \cong 0$  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.

#### Aurora II, Seville, Californian, Chairman, Chairman II, Nautilus, and Triad II

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 Control**



#### 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 I and 2 Buttons** 



When either the JETS I Button or the JETS 2 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.

The first time a **JETS Button** is pushed the respective pump will start 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.

#### LIGHT Button





Push the **LIGHT Button** once to activate the brightest setting. A second push will reduce the light to the medium setting, and a third push will lower the light to the dimmest setting. When the light is turn on, the status light above the button will be lit. In addition, a message indicating the current light intensity will scroll twice along the bottom of the Digital Display Window (i.e. LIGHT HIGH, LIGHT MED, LIGHT LOW) while an animated icon, with zero, three or six dots around it indicating the light's intensity will be displayed. Push the **LIGHT Button** a fourth time to turn the light off. The light will automatically turn off after one hour.



If the optional **Dynamic L.E.D Light** is installed, the low, medium and high settings are disabled. The **Light Button** turns the **Dynamic L.E.D Light** on and off.

#### **TEMPERATURE Button**



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** of F".



**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  $2^{\circ}$  F ( $\cong$  I $^{\circ}$  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.

**ENTER Button** 



The **ENTER Button** is used to exit any programming sequence at any time.

#### **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."

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.

**Infrared Sensor** 



The Top Side Control also offers a "built-in" infrared sensor. This infrared sensor allows the use of your optional D1 Remote Control to control the spa jets, interior lights, or the optional iWatch perimeter lighting.

To use it, simply point the DI Remote Control at the infrared sensor and press the appropriate button on the remote control. The infrared sensor is the located between the **Water Feature** and **Up** buttons.

#### Scrolling Message Center (Digital Display) Messages

Because of the advanced programming features of your scrolling display, 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 FILTER" 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 <u>Vision Cartridge</u> 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  $104^{\circ}$  F ( $\cong 40^{\circ}$  C), remove the hot tub cover and allow the water to cool. If the problem recurs, contact your local Authorized Dimension One Spas Dealer, or authorized service center.



The overheat condition could be caused by excessive filtration. See the <u>Troubleshooting Guide</u> 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  $104^{\circ}$  F ( $\cong 40^{\circ}$  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  $2^{\circ}$  F ( $\cong$ I $^{\circ}$ 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 I 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 I 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 60, 90, 120, 150 and 180 minutes. The first 5 minutes of the filter cycle will be at high speed and the remaining time 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* 60 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 from I to 2 to 3 to 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 2 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."

#### **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:

- I. 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:

- I. 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:

- I. 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:

- I. 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:

- I. 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™ for the Chairman II and the Triad II

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

When a sequence is chosen, the LED's in the human figure will light up and rotate through the sequence steps to show which zones are active for 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.

<u>For example:</u> If you want to massage any particular zone an extended period of time, you may press the **BEGIN/PAUSE Button** when the sequence is working on that zone, and the system will remain there 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 you may also push the **SEQUENCE Button** to preview another sequence

#### **SEQUENCE Button**



The **SEQUENCE Button** is used to toggle between selected massage 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.

The deladic mode (all jets in the founde 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 <u>Massage Zone Description</u> 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 massage 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 hydrotherapy massage session.

#### Zone A

This zone is designed to massage neck and deltoid muscle groups using the NeckFlex Jet  $Pillow^{TM}$ . There are two directional mini jets on the NeckFlex Jet  $Pillow^{TM}$  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 Variable Circulation 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 VCR Jets® that are water volume controllable. These jets provide a high speed, pulsating feel and are excellent therapy for back muscles. They are interchangeable with directional jets.

#### Zone D

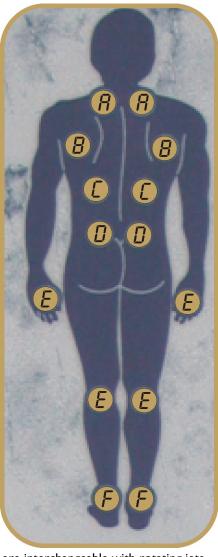
This zone is designed to massage the lower back and lumbar muscle groups. There are two directional VCR Jets® that are water volume controllable. The directional HydraFlex jet also provides an adjustable nozzle that can eliminate air induction. This adjustment allows you to control the water velocity 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, upper calves, and hands. There are four mini VCR 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 directional mini VCR Jets® that are water volume controllable and provide a narrowly focused massage pattern. These jets are interchangeable with rotating 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** (I through 6), press the **BEGIN/PAUSE Button** to activate the massage sequence.



**SEQUENCE #I** 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 #I 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. Your choices are 5, 15, or 30 second intervals. The default is 5 seconds.

## **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 <a href="https://www.dlspas.com">www.dlspas.com</a> to provide quicker drainage.

## Changing Jets to Change Spa Dynamics

Your spa is equipped with many interchangeable jets. The VCR Jets® can be changed between the "rotating" and the "directional" models. The same is true for the Mini VCR Jets® and some of the Euro Jets. You can reconfigure the dynamics of your spa by simply swapping some of the "rotating" jets to locations with "directional" jets. You may also get some additional jet types from your local Dimension One Spas Inc. Dealer or directly from our eStore on our website at <a href="https://www.DISpas.com">www.DISpas.com</a>.

To change a jet, turn the jet's outer edge in a "counter-clockwise" direction until you feel it release. This will allow you to remove the jet and replace it with a jet of a different function – directional, rotator, etc. To complete the change, simply insert the new jet and turn it clockwise until you feel it "pop-into-place."

## Filter Cleaning

Before cleaning the filter element(s), place the spa in the "Standby" mode by pressing the Dimension One Spas ICON logo, found on the right side of the Top Side Control, for 5 seconds. You may also shut off the power to the spa by turning off the power at the GFCI.



Your D1 Reflections Series spa is equipped with one or two top access filter cartridges. We recommend that you clean the filters every month as preventative maintenance.

### **Cleaning the Skimmer Canister**



To clean the skimmer filter cartridge, remove the access lid covering the filter area. 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 I/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.

#### **Cleaning the UltraPure** <sup>™</sup> Canister

To clean the **UltraPure**™ filter cartridge for those hot tubs with **UltraPure**™, remove the access lid and remove the E-Z Lock Filter cartridge by twisting the cartridge ¼ 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 **Cartridge Cleaner**, rinse it thoroughly, and reinstall it. Replace the access lid or cover. Exit the "Standby" mode by pressing Dimension Spas ICON logo for 5 seconds.



#### Cleaning the E-Z Lock Filter Screen and the Inner Filter Screen

These filter screens are located at the bottom of the UltraPure™ canister and do not normally require any maintenance. However, if your spa is telling you to clean your spa's filter more often than is normal, or if the spa is reporting "low-flow-issues", you may want to consider cleaning these items also.



To clean them, first locate the E-Z Lock Filter Screen at the base of the UltraPure® filter canister.



Be sure to remove any floating debris BEFORE removing the E-Z Lock Filter Screen. You don't want anything to go down the opening and get into the circulation pump.

Remove the E-Z Lock Filter Screen by inserting the tip of a flat-blade screwdriver into the slot of the E-Z Lock Filter Screen as shown and gently apply outward pressure until that catch releases. Then lift to remove.





Remove the Inner Filter Screen from the E-Z Lock Filter Screen and clean both items with water using pressure from the "inside" of each item.

After they are both clean, replace the Inner Filter Screen inside the E-Z Lock Filter Screen. Be sure to line-up the grooves and then press snugly into position.

To complete the installation, press the E-Z Lock Filter Screen (with the Inner Filter Screen inside) back on to the base of the UltraPure® filter canister.

Finally, replace filter cartridge and lid.

Exit the "Standby" mode by pressing Dimension Spas ICON logo for 5 seconds.



## **Light Bulb Replacement**

All systems are equipped with a 12-volt light using a GE912 bulb. To change the bulb:

- I. 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.





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



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.



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.



A **Dynamic L.E.D. Light** is available as an optional accessory for many models. This light is preprogrammed with 13 different light shows. This light is also replaced in the same manner as described in the previous paragraph. Contact your dealer or visit our Virtual Showroom at <a href="http://dlspas.com">http://dlspas.com</a> to see if it is available for your model.

#### Surface Care - Ultralife® and Colored Shells

Your equipment has a very high quality finish. Stains and dirt will generally not adhere to the surface. We recommend using a "cheesecloth" rag to clean the entire shell surface with Dimension One Spas Inc. Water Line Cleaner. You may also use **ph/Alkalinity Increaser** or a 50/50 solution of denatured alcohol and water. 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 Inc. **Poli-Gloss**.



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.



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



Colored Shells: If your spa is equipped with a colored shell you must keep the spa covered when it is empty. When the spa is empty and the cover is **not** in place, the spa is vulnerable to ultraviolet light or solar damage when exposed to direct sunlight. Temperatures generated by sunlight can become concentrated in the shell surface causing the shell material to delaminate from the urethane backing.

### **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 faster water evacuation.
- 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.
- 9. Close all jets, by turning jet faces counter clockwise.
- 10. Put on your protective goggles in order to protect eyes from air, water, antifreeze or debris exiting the jets or drains.
- II. 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.
- 12. 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.
- 13. 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.
- 14. 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.
- 15. Remove drain hose bib assembly from the outside bottom of the system.
- 16. Use the wet-vacuum to remove standing water from the pumps and any other fittings within the equipment compartment.
- 17. 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
- 18. 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.
- 19. 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 <u>NON\_TOXIC</u> ANTIFREEZE THAT IS COMPATIBLE WITH DRINKING WATER SYSTEMS!

- 20. Replace all equipment access panels onto the system.
- 21. 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.

### **Initial Startup**

- I. Locate the Top Side Control. The equipment compartment is located directly below this control.
- 2. Use a phillips screwdriver to remove the spa panel screws.



The number of screws to be removed will depend on the make and model of spa.





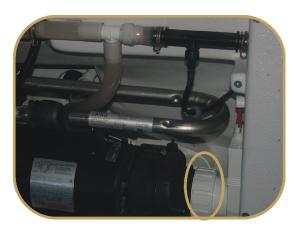
- 3. Locate the hose bib that is included in the owner's manual packet. The owner's manual packet is shipped inside the equipment compartment.
- 4. Screw the hose bib onto the male fitting located at the bottom of the hot tub on the pedestal, to the lower left of the equipment compartment.
- 5. Close the valve on the side of the hose bib and screw the cap onto the end of the hose bib.





6. Check the pump unions to be sure that they are hand tight to prevent the possibility of leakage in the equipment compartment.







7. Remove the two shipping bolts located on the front of the pump mount (circle area). Then check to ensure that the gate valves (arrows) on the pump(s) are in the open position (handles fully extended).

8. Remove the bleeder valve(s) located in the skimmer area to allow air to escape from the pump(s) while you are filling the spa.



Don't forget to replace the bleeder valve(s) when you are finished filling the spa.

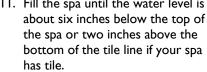
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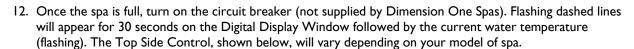


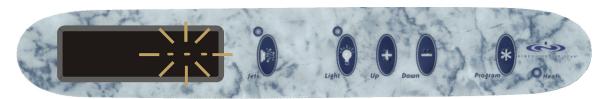
Remove the filter lid(s) and then remove the foam blocks securing the filter.



- 10. Next, remove the filter(s) from the Wier Skimmer and fill your hot tub with a hose through the empty filter canister. If your spa has two filters, like those shown in the picture on the left, put the hose in the UltraPure™ filter canister on the left.
- II. Fill the spa until the water level is about six inches below the top of the spa or two inches above the bottom of the tile line if your spa







13. Push the **JETS 1 Button** twice to turn the pump to high speed. Let the system run for 30 to 45 seconds to prime the pump. Then push the button again to shut the pump off. Repeat the process with the other pump using the **JETS 2 Button**.



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 have been open for some time, 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 UltraPure™ bleeder valve as long as the valve remains open. Once the pumps are primed, be sure that the bleeder is closed tightly.

14. 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  $104^{\circ}$  F ( $\cong 40^{\circ}$ C). Water temperatures in excess of  $104^{\circ}$  F ( $\cong 40^{\circ}$ C) should be used with extreme caution.

15. Once you have verified that the heater is functioning, you can reinstall the equipment compartment panel removed in Step 2.



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  $3^{\circ}$  F ( $\cong 1.65^{\circ}$  C) to  $10^{\circ}$  F ( $\cong 5.5^{\circ}$  C) per hour.

- 16. 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.
- 17. Place the thermal cover on the hot tub to conserve energy and to keep it ready for use.

## **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:

- I. 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.



Warning

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.



### Colored Shell Disclaimer

This spa is insulated with high-density urethane foam for structural support and energy efficiency. When empty of water and left in the direct sunlight without the spa cover in place, the spa is vulnerable to ultraviolet light or solar damage. Temperatures generated by sunlight can become concentrated in the shell surface causing the shell material to delaminate from the urethane foam packing. This occurrence is not covered under warranty. The spa cover must be kept on the spa while empty of water.

## **Glossary of Terms**

Term	Definition	
Bleeder Valve	A small valve used to relieve or expel air from the spa's plumbing or pump.	
Circulation	A pump that circulates the water in the spa continuously.	
Pump		
Dry Firing	Turning the heater element on when there is no water in the heater.	
Equipment	Provides access to your spa's equipment for a qualified service technician.	
Access Panel		
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	A type of Circuit Breaker that automatically disconnects power to the spa when there is	
Fault Circuit	an electrical power leakage to ground.	
Interrupter		
Gravity Drain	Used to drain your spa	
Valve		
Halogens	Free chlorine, bromine or iodine ions that are very strong oxidizers used to sanitize	
	water.	
ICON Button	This is a button 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	The electronic control system that governs all of the electrically operated components	
<b>S</b> ystem	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	A specialized ultraviolet light that changes oxygen into ozone for use in the water	
Generator Flow Switch	sanitation process.  Safety device that sends a signal to the electronic control system that there is adequate	
riow Switch	water flow to turn the heater on.	
	water now to turn the heater on.	

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Term	Definition	
Pump	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" Button on the topside control panel which will allow you to choose between two speeds  • 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	Located on the top edge of the spa, it diverts jet power from one area of the spa to another.	
Serial Number	Please use the serial number (located on the left corner pedestal) in communication with your dealer.	
Slice Valves /	Valves located within the spa's internal plumbing, which are used by service personnel to	
Shutoff Valves	shut off water flow to the heater and pumps. All valves must be completely open during normal operations.	
Smart Heat	(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.	
Temperature Sensor	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.	
Top Side Control Panel	Used to control temperature, pumps for jets, spa light, system clock, automatic filtration cycles, and other advanced functions.	
Unions	Connects the spa plumbing to the equipment. The unions allow a service technician to remove equipment without cutting plumbing.	
Venturi	A device used to inject air into the water.	
Vision Cartridge	A safe, water sanitizer that can be used in place of chlorine.	
Water Return	In addition to the skimmer, the water return fittings provide water inlets to your spa	
Fittings	pumps. DANGER – Never Block Or Remove Any Of The Water Return Fittings.	
Weir Skimmer	A floating water referencing device that skims debris from the surface of the water.	

# **Troubleshooting Guide**

### **Heating System**

Symptom	Problem	Corrective Action
Does not heat	Temperature setting is too low	I. Turn up the thermostat
	2. Dirty filter	2. Clean filter
	3. Flow switch malfunction	3. Call for service
Too hot	Temperature setting too     high	I. Turn down the thermostat
	2. High limit tripped	2. Call for service
Flashing temperature of 34°F (≅1.1° C)or 134°F (≅56.6° C) appears on the display	Possible temperature sensor failure	Call for service
Hot Tub Temperature erratic	Water level	Fill hot tub to 1" (2.54 cm) to 2" (5.08 cm) above bottom of the tile line
Display reads OVERHEAT	I. Too much filtration	Reduce the number of filter cycles and/or the filter cycle duration
	Temperature setting too high	2. Turn down the thermostat
	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	Automatic timer     has shut pump off	Push JETS Button again to start another cycle
	2. Motor over-heated and automatic protective device has shut down pump(s)	If pump(s) will not restart when JETS Button 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	I. Check water level
		2. Clean filter
		If problem persists:
		I. Turn off power
		2. Restart the system
		If problem persists:
		Call for service

## **Water System**

Symptom	Problem	Corrective Action
Pulsating jets	Water level too low	Fill with water to 1" (2.54 cm) to 2" (5.08 cm) above bottom of the tile line
No Jet Action, or action is poor	Jets are turned off     Diverter Valve turned     Dirty Filter     Air lock     Gate valve closed	Turn jets on by turning jet face clockwise     Turn the Diverter Valve clockwise or counter clockwise     Clean Filter     Loosen pump union to allow air to bleed     Open gate valve
The "Check Water Level" scrolling message and /or 3 flashing L.E.D.s appear on the display.	Possible sensor errors	Check water level     Clean filter     If problem continues:         a. Turn off power         b. Restart the spa     If problem persists:         a. Call your dealer for service



2611 Business Park Drive Vista, California 92081

www.D1Spas.com

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