

1977

25 YEARS

2002

Export
Version

2003 Owner's Manual



DIMENSION ONE SPAS®
HOME HYDROTHERAPY

Table of Contents

IMPORTANT SAFETY INSTRUCTIONS	1
HYPERTHERMIA	2
DO'S AND DON'TS	3
WARNING SIGNS	4
HOT TUB FEATURES	5
ADDITIONAL FEATURES	5
<i>Chairman, Chairman II, Diplomat, Californian, Nautilus, Aurora XLT, Aurora II, Caliente HP, and Triad II</i>	<i>5</i>
<i>Arena, Aurora HP, Caliente, and Triad</i>	<i>5</i>
JET SYSTEM SELECTOR VALVE	5
NECKFLEX JET PILLOW™	6
WATER MANAGEMENT SYSTEM	6
<i>UltraPure™ Water Management System</i>	<i>6</i>
<i>CrystalZone® Water Management System</i>	<i>6</i>
<i>Vision Systems</i>	<i>6</i>
HEATER AND CIRCULATION PUMP CONTROL	6
SMART HEAT (AVAILABLE ONLY ON DIMENSION ONE SPAS)	6
INITIAL STARTUP	7
OPERATION	10
TOP SIDE CONTROLS	10
<i>Arena, Aurora HP, Caliente, and Triad</i>	<i>10</i>
Using The Top Side Control	10
<i>Digital Display Window</i>	<i>10</i>
<i>Jets Button</i>	<i>11</i>
<i>Light Button</i>	<i>11</i>
<i>Up and Down Buttons</i>	<i>12</i>
<i>Program Button</i>	<i>12</i>
<i>Heat Indicator Light</i>	<i>14</i>
<i>Dimension One Spas Icon (Logo) Button</i>	<i>14</i>
Digital Display Messages.....	14
<i>"OH" – Overheat Protection</i>	<i>14</i>
<i>Flashing LED on the Control Panel</i>	<i>15</i>
<i>Flashing LED on the Control Panel</i>	<i>15</i>
<i>Erroneous Temperature on the Display</i>	<i>15</i>
<i>Aurora II, Aurora XLT, Caliente HP, Californian, Chairman, Chairman II, Nautilus, and Triad II</i>	<i>16</i>
Using The Top Side Control	16
<i>Digital Display Window</i>	<i>16</i>
<i>JETS 1 and 2 Buttons</i>	<i>17</i>
<i>LIGHT Button</i>	<i>17</i>
<i>TEMPERATURE Button</i>	<i>18</i>
<i>Heat Status Light</i>	<i>18</i>
<i>ENTER Button</i>	<i>18</i>
<i>PROGRAM Button</i>	<i>18</i>
<i>Dimension One Spas ICON (Logo)</i>	<i>18</i>
Scrolling Message Center (Digital Display) Messages	19
<i>Rinse Filters</i>	<i>19</i>
<i>Clean Filters</i>	<i>19</i>
<i>Change Water</i>	<i>19</i>
<i>Change Vision Cartridge</i>	<i>19</i>
<i>Spa Check Up</i>	<i>20</i>
<i>Overheat</i>	<i>20</i>
<i>Flashing Display and/or "Check Water Level"</i>	<i>20</i>
<i>Erroneous Temperature on the Display</i>	<i>20</i>
<i>Ice</i>	<i>21</i>
<i>Cooling</i>	<i>21</i>

Summer Mode	21
Standby Mode	22
<i>Programming the Scrolling Message Center</i>	22
Setting the Time	22
Filter Cycle Start Time	22
Filter Cycle Duration	23
Number of Filter Cycles	23
Pump Run Time	23
Temperature Unit Selection	23
Vision Cartridge	23
Digital Display Window Invert	23
Control Panel Lock	23
Control Panel Unlock	24
Programming Lock	24
Programming Unlock	24
Control Panel Reset	24
<i>Dynamic Massage Sequencer™ for the Aurora XLT, Chairman II and the Triad II</i>	25
Control Panel Description	25
<i>LIGHT Button</i>	25
<i>JETS Button</i>	25
<i>SPEED Button</i>	25
<i>BEGIN/PAUSE Button</i>	26
<i>SEQUENCE Button</i>	26
<i>Massage Zones</i>	26
<i>SEQUENCE Indicator Lights</i>	26
Massage Zone Description	27
Zone A	27
Zone B	27
Zone C	27
Zone D	27
Zone E	27
Zone F	27
Operating the Dynamic Massage Sequencer	28
ROUTINE EQUIPMENT MAINTENANCE	29
DRAINING YOUR EQUIPMENT	29
FILTER CLEANING	29
LIGHT BULB REPLACEMENT	29
SURFACE CARE – ULTRALIFE® AND GRANITEX™	30
<i>Granitex™ /Quarite Plus®</i>	30
<i>Dimension One “EnviroTect” Skirts and Vinyl Covers</i>	30
<i>Care for the Wood Spa Cabinet</i>	31
SPECIAL COLD WEATHER INSTRUCTIONS	31
<i>Items Required for Winterizing</i>	31
<i>Procedure for Winterizing</i>	31
<i>Spring Time Startup</i>	33
WARRANTY SERVICE INFORMATION	34
GLOSSARY OF TERMS	35
TROUBLESHOOTING GUIDE	37
HEATING SYSTEM	37
ELECTRICAL SYSTEM	38
WATER SYSTEM	38

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY

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



Danger

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.



Warning

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 1.5 meters (5 feet) of the spa.



Danger

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.



Danger

Risk of Electric Shock. Install at least 1.5 meters (5 feet), 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.



Danger

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



Danger

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 1.5 meters (5 feet), from the spa water.



Warning

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



Warning

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 38° C (100° F).



Warning

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 +/- 2° C (5° F).



Warning

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.



Warning

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.



Warning

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.



Warning

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



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.

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 37° C, or 98.6° F. 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.
-



Warning

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



Caution

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.



Caution

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



Caution

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.



Caution

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.



Caution

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



Caution

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



Caution

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



Caution

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

Do's and Don'ts

- **DO** 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.
- **DO** check the operation of the equipment compartment cooling fan monthly, by activating a pump and checking for airflow out of the lower left or right front corner of spa.
- **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.

Warning Signs

Each spa has been provided with a Warning Sign and an Important Notice label.



This label outlines safety precautions. This sign should be permanently placed in a location that is visible to the spa user. Replacement signs can be obtained from:

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



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. Read all of the instructions and view your owner's manual video for further reference on hot tub operation. If you have any questions, please contact your local Authorized Dimension One Spas Dealer.

The following features are included on your hot tub:

- Built to CB Standards
- Completely self-contained with load sharing capabilities
- 100% foam insulated
- All hot tub shells are formed from Ultralife® high impact thermoplastic or Granitex™ Acrylic
- Designed for indoor or outdoor use
- Top access, easy to clean filter systems using "Standby" mode
- Water level referencing weir skimmer
- Handcrafted cabinets
- Proportional FastFlo™ Heater
- A variety of interchangeable jets
- Multiple jet systems with Selector Valve (except in the Aurora XLT, Aurora HP, Caliente HP, and Triad)
- Exclusive, custom hand-set ceramic tile adds a distinctive touch
- Polyethylene floor completely seals the hot tub, eliminating moisture or insect intrusion
- Built-in, automatic freeze protection
- Automatic high/low speed filtration cycles

Additional Features

Chairman, Chairman II, Diplomat, Californian, Nautilus, Aurora XLT, Aurora II, Caliente HP, and Triad II

- Scrolling Message Center with digital display, instructional, and maintenance messages
- UltraPure™ Water Management System
- NeckFlex Jet Pillow™
- Twin, long life, dual speed HydraMax® pumps
- 13.94 m² (150 sq. ft.) of filtration

Arena, Aurora HP, Caliente, and Triad

- Programmable Digital control with digital display
- CrystalZone® Water Management System
- Long life, dual speed HydraMax® pump
- 6.97 m² (75 sq. ft.) of filtration

Jet System Selector Valve

All hot tubs (except the Aurora HP, Aurora XLT, Caliente 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.

Water Management System

UltraPure™ Water Management System

The Chairman II, Caliente HP, Diplomat, Chairman, Californian, Nautilus, Aurora II, Aurora XLT 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, Triad, Caliente, 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 0.5° C (1° F) below the set temperature the heater will turn on and remain on until the water temperature rises to 0.5° C (1° F) above the set temperature. To prevent the hot tub from overheating, the circulation pump turns off when the water temperature rises 1.1° C (2° F) 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 1.1° C (2° F) above set temperature to provide optimum operation. (The circulation pump is optional on the Aurora HP.)

Smart Heat (Available only on Dimension One Spas)

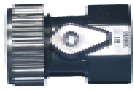
Smart Heat optimizes heat recovery using the amperage that you have available. Along with computerized load sharing, that automatically recognizes the number of jet pumps in use, compares it with the available power, **Smart Heat** recognizes the difference between the set temperature and the actual water temperature, and adjusts the heater to optimize the heater output.

Initial Startup

1. 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.





- 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).

- 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.



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



- Next, remove the filter(s) from the Wier Skimmer and fill your hot tub with a hose through the empty filter canister.

- Fill the spa until the water level is two inches above the bottom of the tile line.



- Once the spa is full, turn on the circuit breaker (not supplied by Dimension One Spas). Flashing dashed lines will appear for 30 seconds on the Digital Display Window followed by the current water temperature (flashing). The Top Side Control, shown below, will vary depending on your model of spa.



13. Push the **JETS 1 Button** to turn the pump on. Let the system run for 30 to 45 seconds to prime the pump. Then push the button again to shut the pump off. If your spa is equipped with two pumps, repeat the process with the second 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.

12. When the jets are in full operation, replace and close the bleeder valve(s) 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 40°C (104° F). **Water temperatures in excess of 40° C (104° F) should be used with extreme caution.**

13. Once you have verified that the heater is functioning, you can reinstall the equipment compartment panel removed in Step 1.



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 __ ° C (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 1 ° C (3° F) to 5° C (10° F) per hour.

14. 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.

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

Operation

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

Top Side Controls

Arena, Aurora HP, Caliente, and Triad

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 the CE rating.

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 EU Directives and Standards for Whirlpool Spas.

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 the pump. A second press will turn it off, unless the pump has been automatically activated during a heating cycle – in which case the pump will continue to run until heat is no longer required. 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 [Troubleshooting Section](#) 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 [Troubleshooting Section](#) 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 nd Press
Filter Cycle Duration	3 rd Press
Number of Filter Cycles	4 th Press
Temperature Unit	5 th Press
Quit Program sequence	6 th 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:



Use the **UP or 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 2nd 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 **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 Duration:



Program the Filter Cycle Duration by pressing the **PROGRAM Button** a 3rd 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 4th 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 5th 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 Celsius.*

Exit the Programming Sequence by pressing the **PROGRAM Button** a 6th 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.

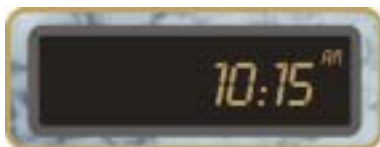
Heat Indicator Light



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



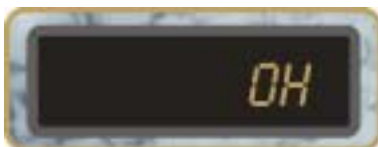
Dimension One Spas ICON (Logo): The time of day can be viewed by pushing the **Dimension One Spas ICON Logo Button** on the far right of the control. If no other button is pushed within 5 seconds, the display will revert to the spa water temperature reading.

The pre-set factory default is Celsius. 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 43° C (110° F). 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 if 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 47° C (118° F). 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 0° C (32° F) or 57° C (136° F) 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, Aurora XLT, Caliente HP, 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 the CB rating. 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 1 and 2 Buttons



When either the **JETS 1 Button** or the **JETS 2 Button** is pushed:

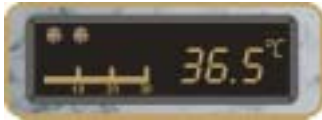
- The corresponding spa jet pump is energized.
- The respective Status Indicator Light is illuminated.



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



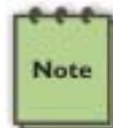
The automatic shut-off cycles are a safety device that will reduce wear and tear on your equipment and reduce energy costs by ensuring that your pumps don't run constantly.

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** ___° C".



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** ___° C" 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 1° C (1.8° F) 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 Celsius.*

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

Scrolling Message Center (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



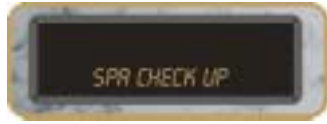
When "**CHANGE VISION CARTRIDGE**" is displayed on the Digital Display Window, the system is telling you that it is time to replace it.

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 [Vision Cartridge](#) section to set the six-month time frame.

Spa Check Up



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

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



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

Overheat



DO NOT ENTER THE WATER when "**OVERHEAT**" is displayed on the control system Digital Display Window because the hot tub is in a high temperature condition. If such a condition exists, check the water temperature with a certified thermometer and if it is above 40° C (104° F), 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 [Troubleshooting Guide](#) section for more information.

Flashing Display and/or "Check Water Level"



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

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

Erroneous Temperature on the Display



DO NOT ENTER THE WATER if you see a temperature reading of **0° C (32° F)** or **57° C (≅136° F)** 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 have 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 1° C (2° F) 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 15°C (59° F). The Digital Display Window will indicate “**SUMMER MODE**”. In this mode the pump will run continuously until the water temperature reaches 41° C (107°F) and then turn off. It will remain off until the water temperature reaches 38° C (102° F) at which point the pump turns on.

Standby Mode



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

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

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



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

Programming the Scrolling Message Center

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

Setting the Time

After holding the **PROGRAM Button**, the top line of the Digital Display Window will read “**SET TIME OF DAY**” and the bottom line will read “**PUSH UP OR DOWN TO CHANGE - PUSH PROGRAM TO SELECT NEXT FUNCTION - PUSH ENTER TO EXIT**”. Push the **UP** or **DOWN Buttons** to engage the time setting mode. The time screen will appear with “hours” (_ _:00) flashing on and off. Push the **UP** or **DOWN Button** to increase or decrease the number until the desired hour appears. When the desired number is displayed, push the **LIGHT Button** to accept the selection and change the flashing number to the “ten minute” place (12:_0). Adjust the number with the **UP** or **DOWN Button** in the same manner as the hour number. When the desired indicator is displayed, push the **LIGHT Button** to accept the selection and change the flashing number to the “minute” place (12:1_). Adjust this number with the **UP** or **DOWN Button** in the same manner as the hour number. When the desired number is displayed, push the **LIGHT Button** to accept the selection and change the flashing number to a flashing AM or PM indicator. Adjust the indicator with the **UP** or **DOWN Buttons**. After reaching the correct time, push the **PROGRAM Button** to set the time and exit the time setting mode. You will then be prompted to set the filter start time.

Filter Cycle Start Time

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



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

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

Filter Cycle Duration

After setting the filter cycle start time, the top line of the Digital Display Window will read **"SET CYCLE DURATION"**. Push the **UP** or **DOWN Buttons** to toggle between 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 1 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 Celsius.*

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:

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

Control Panel Unlock

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

1. Push the ENTER Button.
 2. Push the ENTER Button.
 3. Push the Dimension One Spas ICON (logo) Button.
- When the last Button is pushed all buttons will be active.

Programming Lock

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

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

Programming Unlock

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

1. Push the ENTER Button.
 2. Push the ENTER Button.
 3. Push the Dimension One Spas ICON (logo) Button.
- When the last Button is pushed all buttons will be active.

Control Panel Reset

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

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

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

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

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



This also resets your temperature settings back to the factory default of Celsius and it will be necessary for you to reset this setting back to Fahrenheit.

Dynamic Massage Sequencer™ for the Aurora XLT, 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.

For example: 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 **Message 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 [Message Zone Description](#) section.

Massage Zones



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

Zone B

This zone is designed to massage the upper back, shoulders and thoracic muscle groups. There are two 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

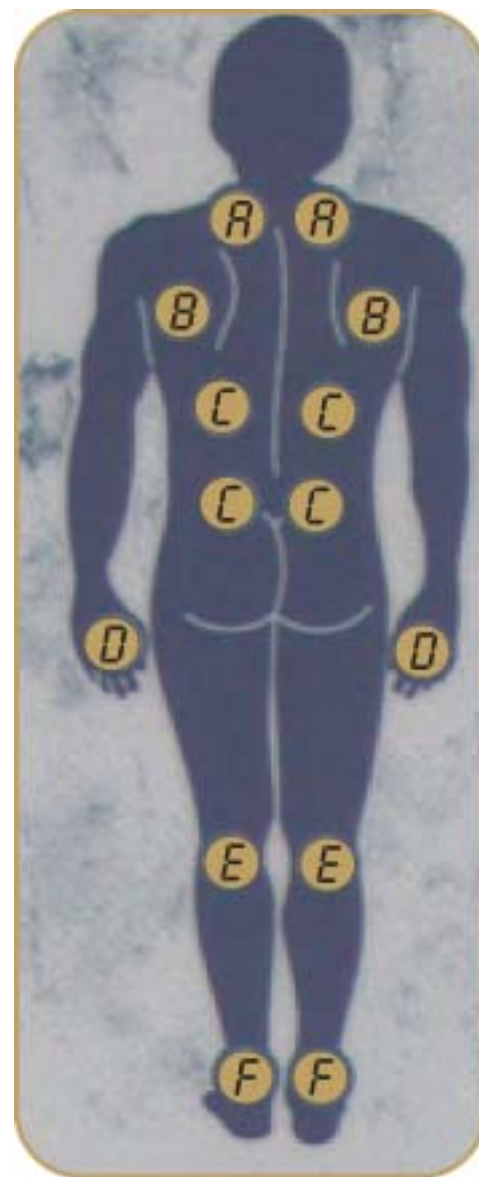
This zone is designed to massage the lower back and lumbar muscle groups. There are two directional VCR Jets® that are water volume controllable. The directional HydraFlex jet also provides an adjustable nozzle that can eliminate air induction. This adjustment allows you to control the water velocity 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.



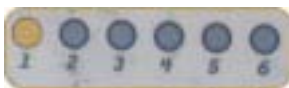
Operating the Dynamic Massage Sequencer



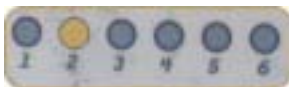
Push the **JETS Button** to turn on the spa pump.



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** (1 through 6), press the **BEGIN/PAUSE Button** to activate the massage sequence.



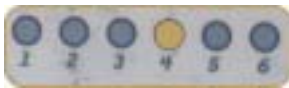
SEQUENCE #1 activates individual zones and steps through them – one at a time, starting with Zone A through Zone F, then reverses the sequence. The time interval between zones is determined by the Speed Button.



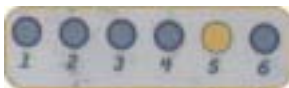
SEQUENCE #2 functions opposite of #1 above. This sequence activates all zones, then deactivates individual zones and steps through them – one at a time, starting with Zone A through Zone F, then reverses the sequence. The time interval between zones is determined by the Speed Button.



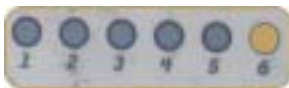
SEQUENCE #3 activates alternate zones. It sequences Zones A, C, and E first, then switches to Zones B, D, and F second. The time interval between Zone Groups is determined by the Speed Button.



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



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



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



If the time between sequence changes is too fast or too slow, you can push the **SPEED Button** to increase or decrease the time between sequence changes. 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 www.d1spas.com to provide quicker drainage.

Filter Cleaning

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

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 1/4 turn counterclockwise to its stop. (Be careful not to overturn the filter) Then lift the filter out of its canister. Clean the cartridge with a high-pressure garden hose. Every other cleaning, soak the cartridges in a filter-cleaning solution, rinse it thoroughly, and reinstall. Replace the skimmer basket assembly and the access lid or cover. Exit the “Standby” mode by pressing Dimension Spas ICON logo for 5 seconds. After cleaning, run the pump for a few minutes at high speed, then return to the heating mode.

To clean the **Ultra Pure™** filter cartridge for those hot tubs with **Ultra Pure**, 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 Dimension One Spas' **Cartridge Cleaner**, then rinse it thoroughly, and reinstall. Replace the access lid or cover. Exit the “Standby” mode by pressing Dimension Spas ICON logo for 5 seconds.

Light Bulb Replacement

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

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





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 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 <http://d1spas.com> to see if it is available for your model.

Surface Care – Ultralife® and Granitex™

Your equipment has a very high quality finish. Stains and dirt will generally not adhere to the surface. We recommend cleaning the entire shell surface with Dimension One Spas' **Water Line Cleaner**. You may also use Dimension One Spas' **ph/Alkalinity Increaser** or mild cleaners like Soft Scrub. Be sure to thoroughly rinse the shell. After cleaning, you will want to restore your hot tub shell's original luster by using Dimension One Spas' **Poli-Gloss**.



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.

Granitex™/Quarite Plus®

If your spa is equipped with this material you must keep the spa covered when it is empty. When the spa is empty and the cover is not in place, and the spa is exposed to direct sunlight, it 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 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
- 40.6 cm (16") Channel-lock pliers
- High pressure air blower
- Commercial grade wet-vacuum
- 11.37 liters (3 gallons) to 22.74 liters (6 gallons) of Non-Toxic Antifreeze
- Strong, able-bodied people capable of lifting system into upright position
- Enough time (and patience) to perform all steps.

Procedure for Winterizing

1. Shut the power off to the system and make sure that it cannot be accidentally turned back on.
2. Remove filter elements from filter assembly.
3. Drain water from the system using the drain fitting and garden hose or you may use a submersible pump for f
4. Open the equipment compartment and locate pumps and heater.
5. Remove all of the drain plugs from each pump.
6. Loosen unions on both sides of each pump, and the heater if applicable.
7. If your system has a Dynamic Jet Sequencer, please remove that access panel as well and loosen all unions on each of the sequencer valves. There are 6 sequencer valves, that means that you will have to loosen 12 unions.

8. Tip the system onto one side. (The system will have some water remaining, which will add to the weight). Be sure to have enough people available to safely lift the weight of your system. Do not tip system onto equipment bay side.

Close all jets, by turning jet faces counter clockwise.

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

Remove drain hose bib assembly from the outside bottom of the system.

14. Use the wet-vacuum to remove standing water from the pumps and any other fittings within the equipment compartment.
15. Once you are sure that all water is evacuated from the plumbing and equipment of the system, put the system back down in its normal position and repeat Step 10 and Step 11
16. Read all Directions and Safety Precautions on the Swimming Pool or Recreational Vehicle antifreeze bottle before opening and using. Ensure that it is non-toxic and safe for this use. Beware of and follow all safety precautions.
17. Using a long funnel, begin pouring non-toxic swimming pool or recreational vehicle water system antifreeze into the filter canister fittings, bleeder valve fittings and jet fittings of your system. Continue adding antifreeze until it comes out of the drain fittings or from the opening you are pouring it into. You must complete this task for every jet fitting in the system. Some of the antifreeze will seep into the system from the drain or jet fittings, which is okay, the goal is to have anti-freeze collect in the areas of the plumbing that would normally trap water. Use the funnel to also place antifreeze into the pump housing(s).



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



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

18. Replace all equipment access panels onto the system.

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

Spring Time Startup

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

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



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

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

Warranty Service Information

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

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

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



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



Granitex™/Quarite Plus® 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 ultra violet 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 Pump	A pump that circulates the water in the spa continuously.
Dry Firing	Turning the heater element on when there is no water in the heater.
Equipment Access Panel	Provides access to your spa's equipment for a qualified service technician.
Filter Cartridge	Your spa's filters have been designed so that you may repeatedly clean and maintain the filter element as needed. The element is constructed of woven polyester rather than paper to ensure long life and proper filtration.
GFCI-Ground Fault Circuit Interrupter	A type of Circuit Breaker that automatically disconnects power to the spa when there is an electrical power leakage to ground.
Gravity Drain Valve	Used to drain your spa
Halogens	Free chlorine, bromine or iodine ions that are very strong oxidizers used to sanitize water.
ICON 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 System	The electronic control system that governs all of the electrically operated components of your spa utilizes an advanced microprocessor and solid-state electronic devices to activate all user and maintenance options. A backlit, highly reliable liquid crystal display gives you a complete update of the spa status at any time of the day or night. Temperature setting, as well as control of the light, jets, filtration, and time of day display, are all instantly available from, and controllable at, the topside control panel.
Ozone Generator	A specialized ultraviolet light that changes oxygen into ozone for use in the water sanitation process.
Flow Switch	Safety device(s) that sends a signal to the electronic control system that there is adequate water flow to turn the heater on.

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

Troubleshooting Guide

Heating System

Symptom	Problem	Corrective Action
Does not heat	1. Temperature setting is too low	1. Turn up the thermostat
	2. Dirty filter	2. Clean filter
	3. Flow switch malfunction	3. Call for service
Too hot	1. Temperature setting too high	1. 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 2.54 cm (1") to 5.08 cm (2") above bottom of the tile line
Display reads OVERHEAT	1. Too much filtration	1. Reduce the number of filter cycles and/or the filter cycle duration
	2. Temperature setting too high	2. Turn down the thermostat
	3. High limit or sensor problem	3. Call for service

Electrical System

Symptom	Problem	Corrective Action
Will not turn on - in any mode	No power	Check circuit breaker and/or GFCI
Turns on by itself	Normal automatic daily power filtration, or anti-freeze cycle	No action required
Light is out	Burned out bulb	Replace bulb
Pump shuts down unexpectedly while in use	1. Automatic timer has shut pump off	1. Push JETS Button again to start another cycle
	2. Motor over-heated and automatic protective device has shut down pump(s)	2. If pump(s) will not restart when JETS 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	1. Check water level
		2. Clean filter
		If problem persists:
		1. 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 2.54 cm (1") to 5.08 cm (2") above bottom of the tile line
No Jet Action, or action is poor	1. Jets are turned off	1. Turn jets on by turning jet face clockwise
	2. Diverter Valve turned	2. Turn the Diverter Valve clockwise or counter clockwise
	3. Dirty Filter	3. Clean Filter
	4. Air lock	4. Loosen pump union to allow air to bleed
	5. Gate valve closed	5. Open gate valve
The "Check Water Level...." scrolling message and /or 3 flashing L.E.D.s appear on the display.	Possible sensor errors	1. Check water level
		2. Clean filter
		3. If problem continues: a. Turn off power b. Restart the spa
		4. If problem persists: a. Call your dealer for service



DIMENSION ONE SPAS®
HOME HYDROTHERAPY

**2611 Business Park Drive
Vista, California 92083
800.345.7727
760.727.7727
fax 760.734.4425**

www.D1Spas.com

Part No. 01510-542 Rev A
©2002 Dimension One Spas Inc.