

1993
Platinum
Ultra
Owner's
Manual

1
YEAR
1993

DIMENSION ONE Spas
Everything else is just hot water.

*Platinum and Ultra
Series Owner's
Manual*

Sanitizers such as SODIUM TRI-CHLOR (tablets/sticks/liquid), calcium hypochlorite, sodium hypochlorite, or any chemical that may remain undissolved on the spa surface will damage your spa and will void the warranty.

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IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS


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

- 1) **WARNING:** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- 2) **WARNING:** A grounding wire connector is provided on this unit to connect a minimum No. 8 AWG (8.4mm²) 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 unit.
- 3) **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.
- 4) **DANGER: Risk of Injury.** 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.
- 5) **DANGER: 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 solid copper conductor attached to the wire connector on the terminal box, inside the equipment compartment.
- 6) **DANGER: Risk of Electric Shock.** Do not permit any electrical appliance, such as a light, telephone, radio, or television, within 5 feet of a spa.
- 7) **ELECTRICAL SUPPLY:** The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with section 422-20 of the national Electrical Code, ANSI/NFPA 70-1993. The disconnect must be readily accessible to the spa occupant but installed at least 5 feet, (1.5 m) from the spa water.
- 8) **WARNING: To Reduce The Risk of Injury:**
 - a. 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.
 - b. 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).
 - c. 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).
 - d. The use of alcohol, drugs, or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
 - e. 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.
 - f. 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.

CSA SAFETY INFORMATION
(Canadian Standards Association)

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

- a) **READ AND FOLLOW ALL INSTRUCTIONS.**
 - b) A green coloured terminal or a terminal marked G, GR, Ground, Grounding, or the  symbol * is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment.
- * IEC Publication 417, Symbol 5019.
- c) 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.
 - d) All field-installed metal components such as rails, ladders, drains or other similar hardware within 3 M of the spa or hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.
 - e) **SAVE THESE INSTRUCTIONS.**

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

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

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

AVERTISSEMENT: POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS

PUISSENT ÊTRE ASPIRÉS, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DE PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE.

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

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

WARNING: 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.

WARNING: 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 EN SORTANT.

WARNING: 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 ÉVENTUELLE, NE PRENDRE NI DROGUE NI ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION NI QUAND ON S'Y TROUVE.

WARNING: 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.

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

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

WARNING: 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.

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

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

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

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

WARNING: Do not permit electrical appliances (such as a light, telephone, radio or television) within 1.5 M of this spa or hot tub.

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

CAUTION: Maintain water chemistry in accordance with manufacturer's instructions.

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

HYPERTHERMIA

Prolonged immersion in hot water may induce hyperthermia. A description of the causes, symptoms, and effects of hyperthermia are as follows:

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 37° C. The symptoms of hyperthermia include drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include:

- a. Unawareness of impending hazard;
- b. failure to perceive heat;
- c. failure to recognize the need to exit spa;
- d. physical inability to exit spa;
- e. fetal damage in pregnant women; and
- f. unconsciousness and danger of drowning.

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

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

**SAVE THESE
INSTRUCTIONS**

CAUTIONS

- 1) 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.
- 2) The consumer products safety commission has stated that the water temperature in a spa or hot tub should not exceed 104° F. Immersion in water in excess of 104° F can be hazardous to your health.
- 3) 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.
- 4) 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.
- 5) Always test the spa water temperature before entering the spa. Enter and exit the spa slowly. Wet surfaces can be very slippery.
- 6) Children should always be supervised when using the spa. At temperatures over 95°F, use of the spa should be limited to 15 minutes or less for children. At temperatures over 100° F, adults should be limited to 20 minutes or less of spa use.
- 7) It is not recommended that the spa be used alone.
- 8) Never bring any electrical appliances into or near the spa. Never operate any electrical appliances from inside the spa or when you are wet.
- 9) Proper chemical maintenance of spa water is necessary to maintain safe water and prevent possible damage to spa components.
- 10) 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 change the water when it becomes sudsy.
- DO keep the spa cover closed when the spa is not in use. This is also the key to economical spa operation.
- DON'T block the ventilated equipment compartment door. Blockage may cause damage to the spa equipment and will void the warranty.

PLATINUM AND ULTRA SERIES SPAS

Congratulations, you have purchased one of the finest portable spas available. Take a few minutes to read these instructions carefully. If installed and maintained properly, your spa will provide many years of enjoyable, trouble free operation. Read all of the instructions before attempting to operate the spa. If you have any questions, please contact your authorized Dimension One Spas Dealer.

PLATINUM SERIES

*Chairman
Diplomat
Executive*

ULTRA SERIES

*Californian
Elite
President
Seville*



FEATURES OF PLATINUM AND ULTRA SERIES SPAS

- UL Listed/CSA Approved
- Completely self-contained
- 100% foam insulated
- Electronic spaside controls with digital read-out
- All spa shells are formed from UltraLife HP™, high impact thermoplastic
- Can be installed indoors or outdoors
- Top access, easy to clean filter systems
- Weir skimmers
- Crystal Pure™ Ozone system
- Cabinets of handcrafted redwood
- A variety of interchangeable jets
- Ultra lounge "stress melter" on some models
- Multiple jet systems
- Long life, 2 HP pool pumps
- 2 and 4 HP systems
- A variety of tile choices
- Polystyrene floor to completely seal the spa
- 115 sq. ft. of filtration
- Built-in, automatic freeze protection

INSTALLATION AND HOOKUP INSTRUCTIONS

BEFORE ATTEMPTING TO HOOKUP OR USE YOUR SPA, PLEASE READ THROUGH THESE INSTRUCTIONS

POSITIONING YOUR SPA:

1. Because your spa is completely self-contained, you can locate it just about anywhere you wish... on a deck, patio or even indoors. Just be sure to position it above ground, in an area with good drainage, and on a level, continuous surface that contacts the bottom of the spa fully. A concrete slab is best but not required. Locate your spa so that equipment is above grade and not subject to flooding. **WATER SHOULD ALWAYS DRAIN AWAY FROM THE SPA.**

SAFETY DEVICES:

Your spa is equipped with the following safety features:

- 1) A water flow sensor that prevents the heater from activating until there is sufficient water flow, thus preventing "dry firing" of the heater.
- 2) Automatic spa shutdown timers that shut off the spa jet pump(s) after 30 minutes of operation. The spa light automatically shuts off after 4 hours.
- 3) An electronic high limit switch that automatically shuts off the heater if the spa temperature exceeds 112° F. This switch is reset by first reducing the spa water temperature below 110° F, then pressing the "COOL" pad located on the spaside control.
- 4) An automatic freeze sensor which turns the spa on if the water temperature in the heater manifold drops below 40° F and shuts the system down when the temperature rises above 45° F.

ELECTRICAL REQUIREMENTS:

The manufacturing label provides the power requirements for your spa. **WE RECOMMEND THAT ONLY A LICENSED AND BONDED ELECTRICIAN DO THE INITIAL SYSTEM HOOK-UP.**

Ultra and Platinum series spas come with an electrical conduit running from the left front side of the spa cabinet directly into the equipment control can. The

inlet is located in the cabinet pedestal approximately 20" back from the front.

Electrical requirements are as follows:

Platinum Series:

240 VAC - 32A. The branch circuit required is 3 wire (plus ground), using #6 AWG copper wire and 40A overcurrent protection. This is the factory configuration.

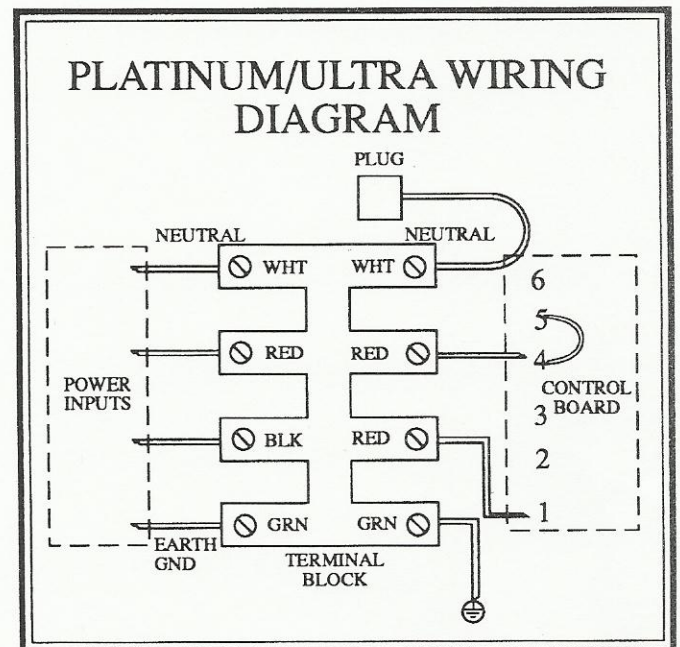
Ultra Series:

240 VAC - 24A, The branch circuit required is 3 wire (plus ground), using #6 AWG copper wire and 30A overcurrent protection. This is the factory configuration.

ELECTRICAL HOOKUP INSTRUCTIONS:

Have a licensed electrician run the required 240 volt power line to the spa installation site. The power inlet connection is located in the pedestal on the left side of the spa, approximately 20" back. This connection is designed to mate with a Carlon 1" conduit body Type LB, Access Fitting E986F or equivalent.

NOTE: DO NOT TURN ON ELECTRICAL POWER TO YOUR SPA UNTIL TOLD TO DO SO IN A LATER SECTION OF THIS MANUAL.



To hookup your spa, follow these instructions:

- 1) Unscrew the screws holding the ventilated equipment access panel from the front of the spa cabinet and set the panel aside.
- 2) Connect the plastic air line to the brass nipple on the right side of the equipment can as indicated by the label attached to the top of the equipment can.
- 3) Loosen the two screws located on top of the black equipment control can and pull the hinged front of the can forward to allow access to the four wire connection terminal block.
- 4) Feed the four wires through the Carlon Access Fitting and into the spa through the 1" conduit fitting in the spa pedestal until the wires come out in the equipment can.
- 5) Connect the four wires to the equipment system terminal block as indicated on the wiring diagram on the equipment can (see illustration on page 16). Close the equipment can and re-tighten the 2 securing screws.
- 6) Glue the Carlon electrical fitting into the spa fitting in the cabinet pedestal.
- 7) Electrical hookup is now complete. Do not replace the ventilated equipment access panel yet.

CRYSTAL PURE OZONE DIFFUSER INSTALLATION:

- 1) Take the Ozone Diffuser bulb out of the owner's pack, located inside the equipment compartment. Make sure the o-ring (cylindrical rubber sealing band) is attached and in place over the threaded end of the Ozone Diffuser bulb.
- 2) Remove the Crystal Pure canister lid by rotating it counter-clockwise.
- 3) Pull out the diffuser installation tool (the white PVC pipe approximately 21" long) located in the filter canister, and place the white end of the Ozone Diffuser bulb, head first, into either end of the installation tube.
- 4) With the threaded end of the Ozone Diffuser bulb down, place the Diffuser installation tool into the center of the canister standpipe (the center of the filter), into its threaded counterpart at the bottom of the canister.
- 5) Carefully rotate the Installation Diffuser Tool clockwise until the Ozone Diffuser bulb fits snugly into it receptacle. **DO NOT OVER-TIGHTEN.**
- 6) Pull the Diffuser Installation tool up and out of the standpipe and store for later use.

- 7) Replace the Crystal Pure canister lid by rotating clockwise until snug.

INITIAL START-UP:

- 1) Before filling your spa, install the hose bib that is included in the owner's manual packet, and screw it onto the male fitting at the bottom of the spa on the pedestal, to the lower left of the equipment compartment. Close the valve and screw the cap onto the end of the bib. Check the pump unions to be sure that they are tight to prevent the possibility of leakage in the equipment compartment.
- 2) Fill your Platinum or Ultra series spa with water up to the indicator indentation marks on the inside of the Weir skimmer recess. On those models without indentation marks, fill your spa to three inches (3") above the bottom of the skimmer recess.
- 3) Turn on the circuit breaker. When the system power is first initiated, the internal timeclock is automatically set at 12:00 noon (1200 hours). Two hours later (1400 hours), a 20 minute filtration cycle will automatically begin.
- 4) Push either of the JETS pads (JETS 1 AND JETS 2 on the Platinum models) to turn on the pump(s). Let the system run for 30 to 45 seconds to prime the pump. If the jets pulsate or 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, loosen the top pump union(s) slightly to let the air escape. Re-tighten the pump unions and turn on the system again.
- 5) When the jets are in full operation, push the WARM pad until the desired spa temperature is indicated on the display screen. In a few seconds, the screen will start displaying the spa water temperature again. The maximum temperature is 104° F. NOTE: On initial start-up, you can confirm that the heater is on by looking to see that the RED indicator light located on the right side of the spa control can is illuminated. Once you have verified that the heater is functioning, you can reinstall the ventilated equipment access panel.
- 6) Depending upon the spa and the outside ambient temperature, heating will occur at the rate of 3-8° F per hour.
- 7) After completing the above steps, it is necessary to ensure proper water chemistry. See pages 11 and 12 in this manual, for the easy steps to maintaining clean and safe water. The schedule shown may require more frequent adjustment depending on the bather load.
- 8) Place the thermal cover on the spa to conserve energy and to keep it ready for use.

OPERATING INSTRUCTIONS

ULTRA/PLATINUM SERIES SPASIDE CONTROL CENTER:

Advanced microprocessor technology has been combined with solid state electronic switches to produce the Platinum and Ultra Series Spaside Control Center. Technologically sophisticated, yet easy to use and understand, Dimension One Spas has put every spa function within fingertip control.

Temperature setting, control system mode, jet power control, and the spa light are all spaside accessible. That means you don't have to get out of the spa to enjoy complete control of all spa functions. Safety is assured through design concepts and materials which meet or exceed the most stringent requirements of Underwriters Laboratories. The Spaside Control Center lets you relax and enjoy everything your Dimension One spa has to offer.

HOW TO USE THE SPASIDE CONTROL CENTER:

NOTE: The Control Center is the same for Platinum and Ultra series spas except that the Platinum

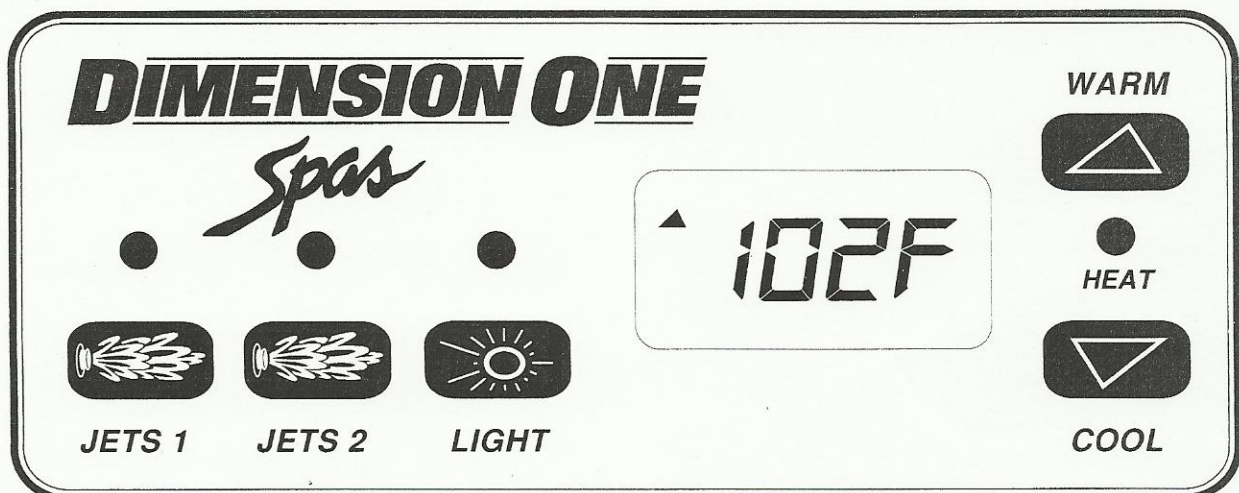
series has two (2) pumps and two (2) JETS buttons rather than one (1) pump and one (1) JETS button.

1) JETS CONTROL PAD(S)

When the JETS control pad (or JETS 1 or JETS 2 on Platinum Series) is touched, the spa jet pump is engaged and the respective red LED indicator light will be illuminated. In the Platinum series spas, two (2) jet pumps may be engaged simultaneously. Each time a **JETS pad is touched it will activate a thirty minute automatic shut-off cycle.** Each pump has its own thirty minute cycle and will act independently of the other. This auto shut-off cycle is a safety device and also allows for convenient filtration, immediately after use of the spa. To turn any pump off, press the Jets button again and the pump will shut down.

2) LIGHT

Touch the LIGHT pad to turn the spa light on and the respective red LED indicator light will be illuminated.



Dimension One Spas Upper Control

Note: There is only 1 JETS button on Ultra Series Spas

nated. Touch this pad again to turn the spa light off and the respective red LED indicator light will go out. If the light is left on, it will automatically turn off after 4 hours

3) **TEMPERATURE PADS**

Touch the WARM pad and push it to increase the desired temperature or the COOL pad and push it to decrease the desired temperature. The existing spa water temperature will remain in the digital display window until a temperature pad is touched. When the WARM or COOL pad is touched the digital readout will indicate the new temperature setting. Once released, the spa water temperature will, again, be indicated. The spa will heat to the pre-set temperature, automatically.

SPASIDE CONTROL MESSAGES:

1) **"OH" - OVERHEAT PROTECTION**

When the "OH" icon is displayed on the control system digital display the spa is in a high limit condition. In such a condition, DO NOT ENTER THE WATER. If this happens, remove the spa cover and allow the water to cool below 110° F, then touch the COOL pad and the system will reset. If the problem reoccurs, turn off all power to the spa and contact your authorized Dimension One Spas Dealer.

2) **"FLO" - FLOW SWITCH**

When the "FLO" icon is displayed alternately with the temperature on the control system digital display, the spa has sensed a flow sensor error. If this has occurred, check the following:

- 1) Check the water level to see if it is too low. If the water level is too low, add more water.
- 2) Check the Crystal Pure filter cartridge to make sure that it is clean and not impeding the flow of water. If the filter is dirty, clean it and reinstall.

3) Use the included ozone "air diffuser" removal/installation tool to remove and check the ozone diffuser at the bottom of the Crystal Pure ozone/filter canister to see if it is clogged. Clean and/or replace as necessary.

4) A flow switch has malfunctioned. contact your Dimension One Spas dealer.

3) **"COOL" - TEMPERATURE SET BACK**

If the spa water is more than 20° F cooler than the set temperature point, the heater will automatically activate to provide freeze protection. This is a normal spa function; no corrective action is necessary.

4) **"ICE" - FREEZE PROTECTION**

When the high limit sensor or an optional freeze sensor reads below 40° F at the heater element, the system is at a freeze condition. It will then automatically activate the pump to circulate water. This is a normal spa function; no corrective action is necessary.

5) **"Sn1" or "Sn3" - OPEN SENSOR**

The high limit sensor or water temperature sensor is non-functional. Contact your authorized Dimension One Spas dealer.

JET SYSTEM SELECTOR VALVES:

All Platinum and Ultra series spas are equipped with spaside SELECTOR valves. These valves can be used to divert jet power from one area within the spa to another. The valve is infinitely adjustable and can be used to suit the bather's taste.

The valve may be somewhat difficult to turn when the spa pump is in the HIGH mode. This is a normal condition and is caused by the high rate of water flow and pressure that travels through the valve.

WATER CHEMISTRY

WATER QUALITY:

Your Dimension One Spa is equipped with a cartridge filter system. Filtering the water helps maintain water cleanliness and clarity. While the filter traps most solid materials, it is still necessary to add a sanitizer such as chlorine or bromine to the water in order to control bacteria, algae, and to oxidize any organic materials in the water. Your dealer can help you decide which is the right sanitizer for you. We strongly recommend you buy your chemicals from your authorized spa dealer. Discount store chemicals, while sometimes less expensive, are not always the proper strength or type for your spa. Use of the wrong chemicals can be dangerous and void the warranty on your spa.

WATER TESTING:

It is recommended you test your spa water regularly with an accurate test kit. These test kits or test strips are available from your Dimension One Spas Dealer.

pH CONTROL:

All water solutions have pH, which is a measure of the acid to base relationship. While a pH reading of 7.0 is considered neutral, a lower reading is considered acidic and higher is basic. The proper pH for spa water is between 7.4 and 7.6. High pH (above 7.6) can reduce sanitizer efficiency, can cloud the water, can promote scale formation on surfaces and equipment, and can interfere with filter operations. When pH is too high, add a pH decreaser. Low pH (below 7.2) is equally damaging causing equipment corrosion, water that is irritating, and rapid sanitizer dissipation. Add pH increaser to adjust the level.

NOTE: Never add more than 3 teaspoons of pH adjuster per 250 gallons of water. Always add adjuster with jets operating and circulate all chemicals for at least 30 minutes. Remember that good pH control and sanitation are absolutely essential for proper spa water treatment.

SANITIZER:

The importance of maintaining an adequate level of sanitizer in your spa cannot be overemphasized. Warm water presents a fertile environment for the growth of bacteria and virus. This growth is prevented when adequate sanitizer levels are continuously maintained.

Sanitizers such as SODIUM TRI-CHLOR type chlorine (tablets/sticks) calcium hypochlorite, sodium hypochlorite, or any chemical that may remain undissolved on the spa surface will damage your spa and will void the warranty completely.

CHLORINE:

Use your chlorine test kit to maintain a reading of 1.0 - 3.0 parts per million (ppm), of available chlorine. If below 1 ppm, the level should be raised before the spa is used. If the reading is above 3 ppm, it should be allowed to drop to the proper range before use. Read the instructions on your chlorine container carefully, or consult your authorized dealer before trying to adjust your chlorine level.

The best chlorine for your spa is a granular "Dichlor" compound. It dissolves quickly in moving water and has a nearly neutral pH. Let the spa jets run about 30 minutes after adding the chlorine. Generally, heavily contaminated water can be disinfected using large chlorine doses, in the range of 8 - 10 ppm, but a more practical method is to drain the spa and refill it with fresh water.

The effectiveness of chlorine is decreased when the cover is left off the spa for two reasons: (1) sunlight decays chlorine rapidly and (2) organic debris is blown into the spa taxing the effectiveness of the chlorine. In addition, the higher the water temperature, the faster chlorine will decay.

BROMINE:

Bacteria can also be controlled by maintaining a proper free bromine level of 3.0 to 5.0 ppm. Brominating tablets are a convenient and effective source of bromine for your spa. Do not add bromine tablets directly to the water as this may damage the spa surface. A bromine "floater" will safely and properly dispense the tablets for you. Brominating tablets will keep your water clean, clear, and odor-free. To ensure maximum comfort and to avoid a "chlorine" smell, add a 1/2 ounce of sodium bromide per 100 gallons of water every time you fill your spa. This will establish a bromine reserve.

SUPER CHLORINATION:

Even with regular sanitation, it is necessary to super chlorinate. Super chlorination (or chlorine shock treatment), quickly sanitizes the spa water. Wastes such as perspiration, hairspray, lotions etc. cannot be removed by the spa filter. The resulting waste build-up reduces the power of the sanitizer making the water dull and irritating to the eyes and skin. When this occurs, the "free" chlorine has become a "chloramine" which is ineffective for sanitizing. This can be eliminated by super chlorinating every other week. An application of 5 times the normal chlorine dosage will act as an adequate treatment.

SHOCK TREATMENT (POTASSIUM PEROXYMONOSULFATE):

Shock treatment will perform the same function as Super Chlorination without adding additional sanitizer to the water. It is also effective in oxidizing wastes and will reduce chloramines or bromamines.

WATER CLARIFIERS (FLOCCULATING AGENTS):

Some wastes left in the spa water may not be filterable and can result in cloudy, dull water. Using a water clarifier whenever you fill your spa and then weekly will help keep your water clear.

A flocculating agent will attract small particles and form larger ones which will become big enough to get trapped in the filter.

Chemical Chart: The chemical chart in the next column is a simple schedule for moderate spa use. Depending on the bather load and frequency of use, chemical balancing may be required more often.

CONTROLLING STAINS AND SCALE:

Staining and scaling are common problems in spas. Because the water is hot, scale is deposited more rapidly. The circulation of water can cause the erosion of metals from spa equipment which can then stain interior surfaces. A weekly dose of a stain and scale fighter will help control these problems.

TOTAL ALKALINITY:

Total alkalinity is the amount of Carbonate, Bicarbonate and Hydroxyl ions in the water. TA (total alkalinity) affects and buffers the pH of the water. With high TA above 150, pH resists adjustment. With low TA below 120, pH is unstable and difficult to keep in the ideal range. Proper TA levels allow other chemicals to work at their optimum.

FOAM INHIBITOR:

Soap residue from a bather's body, hair, and swimsuit combined with rapid circulation of spa water may eventually cause foaming in your spa. Foam inhibitors will suppress foam but cannot remove soap from water. When foaming occurs, a shock treatment can oxidize the soap in your water and help prevent foaming.

KEEPING YOUR WATER CLEAN AND SAFE	
MONDAY	FRIDAY
Test: Bromine/Chlorine pH Total Alkalinity	Test: Bromine/Chlorine pH Total Alkalinity
Adjust: Follow steps 1-4	Adjust: Follow steps 1-3
Add stain and scale control	
Step 1: Adjust Total Alkalinity - ideal range = 120-150 Test water, follow directions on mfg. label, and add required amount with jets on. Wait 30 minutes before performing Step 2.	
Step 2: Adjust pH - ideal range = 7.4-7.6 Test water, follow directions on mfg. label, and add required amount with jets on.	
Step 3: Adjusting Bromine - ideal range = 2-4 PPM (4-6 for heavy bather loads). Fill Bromine floater and shock spa as necessary.	
Step 4: Stain and Scale Control - Add required amount with jets on, weekly.	

CARE FOR YOUR SPA

DRAINING YOUR SPA:

All Dimension One spas are gravity drained. Do not drain water onto your lawn or plants unless all of the chlorine or bromine has dissipated from the spa water. The sanitizer in your spa water can be dissipated very quickly by leaving the spa cover off and exposing the water to direct sunlight. Drain and replace your spa water every three to six months. Heavy spa use may require water changing more often.

To drain a Platinum or Ultra series spa:

- 1) Turn off all power to the spa.
- 2) Attach a hose to the hose bib at the bottom of the spa on the pedestal to the left of the equipment compartment (or you can place a hose directly in the spa and gravity drain by the siphon method) to drain the spa. Open the valve and allow the water to drain away from the spa.
- 3) Clean the spa surface (see Care For The Spa Surface, later in this section).
- 4) Refill the spa. Turn on the high speed jets for a moment to re-prime the system. Follow the initial Start-Up procedures to reheat the spa.

FILTER CLEANING:

Always turn the spa off before cleaning filter elements. Your spa is equipped with two (2) top access filter cartridges.

To clean the skimmer filter cartridge, remove the access lid covering the filter area. Remove the skimmer basket assembly and pull the filter element out by twisting the molded handle until the filter is loosened. Clean the element with a high pressure garden hose. Every other cleaning, soak the element in a filter cleaning solution, then rinse it thoroughly, and reinstall. Replace access lid or cover. After cleaning, run the spa for a few minutes at high speed, then return to the heating mode.

To clean the Crystal Pure filter element, remove the skimmer access lid and unscrew the Crystal Pure canister lid. Then unscrew the retaining ring on the top of the filter and remove the element. Clean the element with a high pressure garden hose. Every other cleaning, soak the element in a filter cleaning solution, then rinse it thoroughly, and reinstall. Replace access lid or cover. After cleaning, run the spa for a few minutes at high speed, then return to the heating mode.

LIGHT BULB REPLACEMENT:

All spas are equipped with a 12 volt light using a GE912 bulb. To change the bulb, turn the power off and drain the spa below the level of the spa light. Using the special tool provided in the owner's manual packet, unscrew the cover for the light housing. Remove the old bulb and install the new bulb. Screw the cover for the light housing back into the female receptacle being careful to ensure that the seal is well seated. Check to ensure proper operation of the new bulb before refilling the spa.

CRYSTAL PURE OZONE DIFFUSER REMOVAL:

- 1) Remove the Crystal Pure canister lid by rotating it counter-clockwise.
- 2) Take the Diffuser Installation tool (the white PVC pipe approximately 21" long) and insert into the center of the canister standpipe (the center of the filter). Press the Diffuser Installation tool down lightly over the Ozone Diffuser bulb at the bottom of the canister.
- 3) Carefully rotate the Diffuser Installation tool counter-clockwise until the Ozone Diffuser bulb is free. Pull straight out and remove the Ozone Diffuser bulb from the tool for cleaning or replacement.
- 4) Replace the Ozone Diffuser bulb by following the steps listed in the Installation and Hookup Instructions section.

SPECIAL COLD WEATHER INSTRUCTIONS:

If you don't plan to use your spa during the winter, we recommend you winterize it as follows:

- BECAUSE IT IS VERY DIFFICULT TO GET THE WATER OUT OF ALL OF THE PLUMBING LINES, WE DON'T RECOMMEND DRAINING YOUR SPA FOR THE WINTER. Winter is also one of the most enjoyable times of the year to enjoy the warmth of your spa.
- If you decide to drain the spa, drain it as completely as possible. You may wish to tilt the spa on edge and use a wet-vac or high pressure blower to evacuate as much water as possible. This is really a job for a few strong people. The idea, of course, is to get as much water out of the plumbing lines and equipment as possible. If you want to use the spa water on surrounding vegetation, make sure that it is free of sanitizers.

- When the spa is completely drained, open the hose bib and the pump drain valve(s). Also, loosen all pump unions and fittings to allow air and water to expand freely within the system. This should prevent water freezing expansion from damaging pipes and fittings. The key is to eliminate any sealed areas in the systems that may contain water.

If you receive heavy snowfall during winter months, you may want to build a cover cap for the spa cover. This can be done with a .5" to .75" piece of plywood and a few supporting 2" X 4" cross members.

CAUTION: Your spa is equipped with automatic freeze protection; however, power outages can cause your spa equipment system to freeze quickly. Always check your spa after any power failure to ensure that it is operational.

CARE FOR THE SPA SURFACE:

Your Dimension One Spa has a very high quality finish. Stains and dirt will generally not adhere to the surface. Cleaning of the UltraLife HP surface should be done with baking soda or Soft Scrub. Be careful when using detergents not to contaminate the water as this will cause suds build-up and you'll find yourself changing the water more frequently than should be necessary.

CAUTION: Do not use "409" type cleaners or other caustic solutions as they may damage the spa shell surface and void the warranty.

CARE FOR THE SPA CABINET:

When properly cared for, the wood cabinet of your spa will maintain its good looks for many years. All woods react to the elements differently by expanding and contracting. Re-stain the wood every 3-6 months, to thoroughly protect the wood. Clear wood finish can be used, or where available, "Duckback" stain will serve 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. As an additional precaution, Polyurethane sealers add beauty and protection.

CARE FOR THE SPA COVER:

The thermo-cover for your spa is an extremely durable foam insulated product. See the manufacturer's literature for proper cleaning instructions. When the spa is not in use, it is recommended that the cover tie-downs always be utilized to discourage unsupervised children and minimize heat loss. Small locks are also available for the cover tie-

downs. In either case, these locking methods are not considered adequate to keep unauthorized people from entering the spa.

IMPORTANT WARRANTY SERVICE INFORMATION:

Your Dimension One Spa warranty gives you specific protection against defects in materials and workmanship for specific periods of time depending on the items.

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 spa owners manual. A service charge will be made if a service call is made for any of the following:

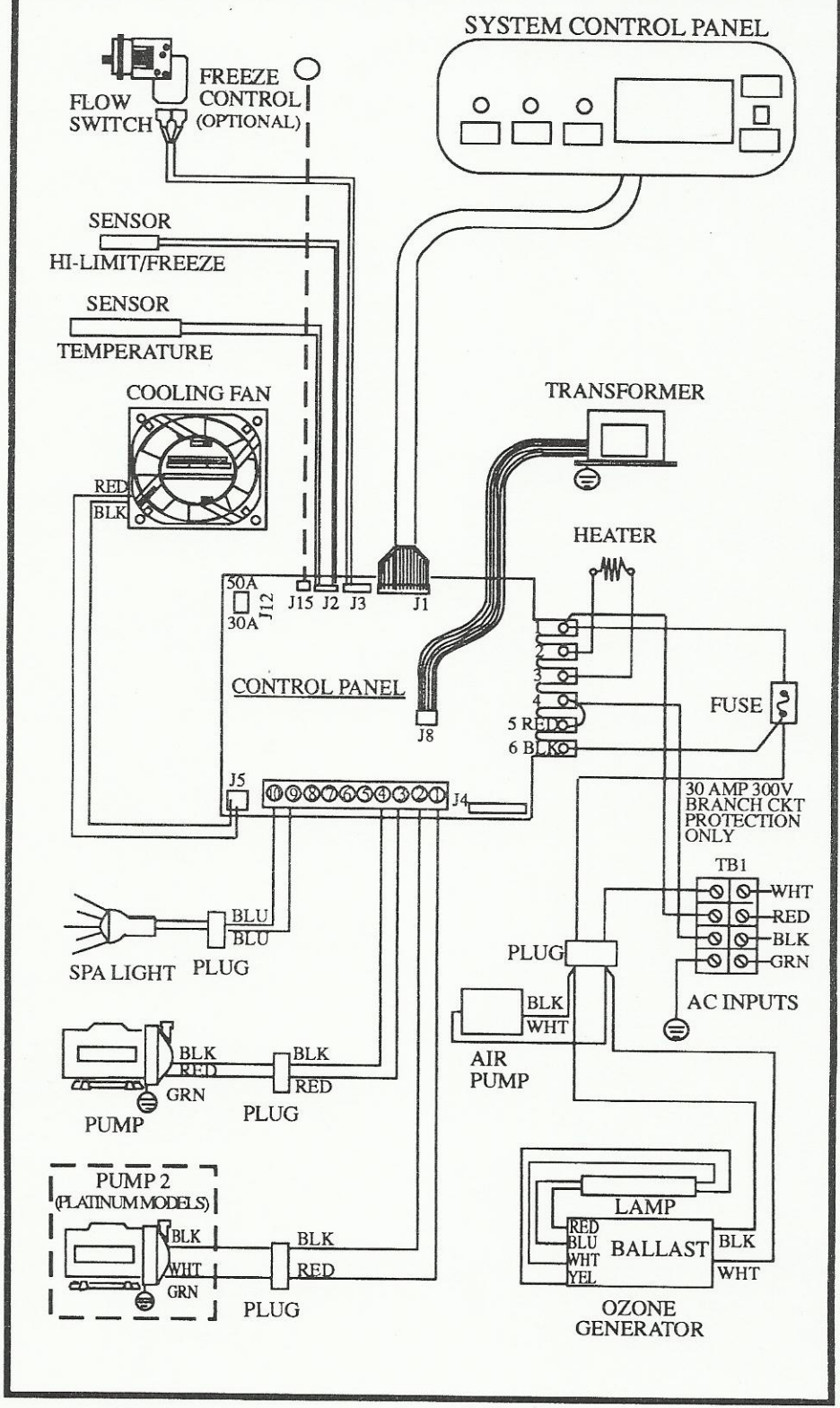
- 1) Spa fails to heat. The high limit switch is tripped, taking the heater out of operation. Resetting the switch corrects the problem. If resetting does not correct the problem, this is a warranty covered item.
- 2) Equipment failure due to improper/inadequate electrical service. All systems require 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 insure proper electrical service is available.
- 3) Failure of spa to reach desired temperature because the thermostat is not turned up high enough. Maximum thermostat setting is approximately 104° F.
- 4) Burned out spa light. Bulbs are not covered.
- 5) Spa water chemistry is the responsibility of the spa owner. Cloudy, dirty or chemically unbalanced water and cleaning of the spa filter are also the responsibility of the spa owner.
- 6) Spa shell or equipment damage caused by improper water maintenance. Serious damage can be caused if your spa water is not maintained carefully and correctly.
- 7) Poor jet action because the jet selector valve is in the middle position. For full performance, turn the valve to either the full right or full left position.

WARNING: Do not block the equipment door. Resulting malfunctions are not covered under warranty.

TROUBLE SHOOTING GUIDE

Problem	Diagnosis	Action
1. Spa will not come on in any mode	a. No power to spa	a. Check breaker
2. Spa does not heat	a. Temperature setting is too low b. High limit tripped c. Flow sensor out of adjustment	a. Turn up thermostat b. Reset high limit c. Call for service
3. Pulsating jets	a. Water level too low	a. Add water to raise level to water level mark in skimmer recess.
4. Spa temperature erratic	a. Water level below sensor located in skim filter recess. b. Defective sensor	a. Fill spa to water level indicator mark. b. Call for service
5. Poor jet action or no jet action	a. Dirty filter b. Selector valve in middle c. Air lock	a. Clean filter. b. Move valve to full right or full left position. c. Loosen top pump union to allow air to escape
6. Spa light out	a. Burned-out bulb	a. Replace bulb
7. Spa comes on by itself.	a. Normal automatic daily power filtration cycles (2).	a. No action required
8. Pump shuts down unexpectedly while in use.	a. Automatic 30 minute timer has shut pump off. b. Spa Motor overheated and automatic protective device has shut down pump.	a. Touch JETS pad again to start another 30 minute cycle. b. Normal function. Check to make sure that the ventilating vents are not blocked. Vent blockage can cause serious damage to your spa equipment. The spa motor overheating protective device will automatically reset when the motor cools down.

PLATINUM/ULTRA SYSTEM WIRING DIAGRAM 5/92



LIMITED WARRANTY

LIFETIME STRUCTURAL AND SURFACE WARRANTY

The UltraLife HP™ spa shell is warranted against blistering, cracking, or delamination for the life of the spa.

FIVE YEAR NO LEAK WARRANTY

Spa fittings and internal plumbing lines of Dimension One portable and movable spas are warranted against leaking due to defects in materials or workmanship for five (5) years.

TWO YEAR EQUIPMENT WARRANTY

The equipment system (pumps, control system, and the heater) is warranted from the date of original delivery, against defects in materials or workmanship, for two (2) years. Labor and materials are covered. Optional five (5) year coverage is available from your Authorized Dimension One Spas Dealer.

OTHER WARRANTIES

The following items are covered as indicated:

- 1) The cosmetic tile is warranted for one (1) year against defects in materials or workmanship only.
- 2) The spa cabinet is warranted against defects in materials or workmanship at the time of delivery to the original purchaser. This warranty does not include coverage for wear or appearance, as all woods react differently to environmental conditions.
- 3) The ozone bulb on spas equipped with factory installed ozone systems is covered for one (1) year.

DIMENSION ONE SPAS LIMITED WARRANTY

LIFETIME AND SURFACE STRUCTURAL WARRANTY

The high-impact thermoplastic spa shell is warranted against blistering, cracking, or delamination for the life of the spa. During years one (1) through five (5), Dimension One Spas will repair or replace any spa found defective under the terms of this warranty. No charge will be made for parts or labor. Normal shipping costs will be covered in areas where there is an authorized Dimension One Spas dealer within fifty (50) miles. After year five (5), Dimension One Spas will repair but not replace the spa, provided the spa is returned at owner's expense, to Dimension One Spas, 3093 Industry Street, Oceanside, CA 92054. Dimension One Spas is not liable for any freight shipping, removal, or reinstallation.

FIVE YEAR NO LEAK WARRANTY

Spa fittings and internal plumbing lines of Dimension One portable and movable spas are warranted against leaking due to defects in materials or workmanship for five years.

TWO YEAR EQUIPMENT WARRANTY

The equipment system (pump(s), control system, and the heater) is warranted from the date of original delivery, against defects in materials or workmanship, for two (2) years. Labor and materials are covered. Optional five (5) year coverage is available from your Authorized Dimension One Spas Dealer. After year one, a \$35.00 deductible will be applied to each in-field service call. In-field service is limited to the Continental United States and selected Canadian locations serviced by an Authorized Dimension One Spas Dealer. Pre-authorization is required for all in-field service and related travel costs where there is no Authorized Dimension One Spas Dealer.

OTHER WARRANTIES

The following items are covered as indicated:

- 1) The cosmetic tile is warranted for one (1) year against defects in materials or workmanship only.
- 2) The spa cabinet is warranted against defects in materials or workmanship at the time of delivery to the original purchaser. This warranty does not include coverage for wear or appearance, as all woods react differently to environmental conditions.
- 3) The ozone bulb on spas equipped with factory installed ozone systems is covered for one (1) year.

WARRANTY PERFORMANCE

Warranty coverage is extended to the original owner from the date of original delivery. Spas not purchased from an Authorized Dimension One Dealer are specifically excluded from warranty coverage of any kind. Dimension One Spas will, at its sole option, repair or replace any spa or component found to be defective under the terms and conditions of this warranty. Dimension One Spas reserves the right to substitute a spa or component of equivalent value, either new or factory reconditioned, and any such repair or replacement shall assume as its warranty only the remaining portion of the warranty on the original product. Spa surface repairs will be made to function satisfactorily. Non-defective replacement parts required to perform or complete warranty repairs will not be covered under the terms of this warranty.

To obtain warranty service, notify "Dimension One Spas, Attention Warranty Service, 3093 Industry Street, Oceanside, CA. 92054," within 10 days of the time the problem became apparent. Dimension One Spas MUST pre-authorize the return of all defective parts. Freight charges may be assessed if the entire spa has to be returned to the factory for repair. The customer will bear all freight costs for spas returned to the factory for repairs that prove to be non-warranty problems.

EXCEPTIONS TO WARRANTY

The following items are specifically excluded from any warranty coverage:

- 1) The warranty shall be invalid if the spa has been subjected to any alterations, misuses, abuses, or if any repairs are attempted by anyone other than an authorized representative of Dimension One Spas.
- 2) Damage resulting from operating the spa at a water temperature outside the range of 32° F to 120° F for any reason.
- 3) Damage resulting from improper water maintenance. Sanitizers such as SODIUM TRI-CHLOR type chlorine (tablets/sticks), calcium hypochlorite, sodium hypochlorite, any chemical that may remain undissolved on the spa surface, "409" brand cleaner, and similar caustic solutions will damage your spa and will void this warranty completely.
- 4) Spa surface damage if determined to have been caused by improper use of a chemical dispenser.
- 5) The silicone tile grout and the exterior vinyl trim between spa and cabinet.
- 6) Damage caused by failure to follow procedures defined in the owner's manual.
- 7) Damage caused by improper or incorrect electrical hook-up.
- 8) Spa pillows, spa light bulb, and the spa filter element.
- 9) Spa hose bib.
- 10) Damage caused by moving the spa.
- 11) Acts of God.

DISCLAIMERS

Except as expressed herein, there shall be no other warranty or obligation, expressed or implied, oral or statutory. Dimension One Spas, its agents, or employees shall in no event be liable for injury to any person, or for any claim for damage, however arising. All consequential expenses including loss of use, chemicals, damages, or contingent liabilities arising out of any alleged deficiencies of the spa are specifically excluded. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

SPA SERIAL NUMBER: _____

DATE OF ORIGINAL DELIVERY: _____

NOTE: THIS WARRANTY IS ONLY EFFECTIVE FOR SPAS MANUFACTURED AFTER 1/1/92.

Revision date: 4/3/92

NOTES

Customer Record

Model: _____
Serial Number: _____
Date of Purchase: _____
Dealer: _____
Address: _____
Phone Number: _____
Electrical (see manufacturing label): _____
Volts: _____
Amps: _____