

SunTub™

Installation & Owner's Manual



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Important Spa Owner Information

Your SunTub is constructed of the highest standards and is capable of providing many years of trouble-free use. However, because heat retentive materials are used to insulate the spa for efficient operation, an uncovered spa surface directly exposed to sunlight and high temperatures for an extended period is subject to permanent damage. Damage caused by exposing the spa to this abuse is not covered by warranty. We recommend that you always keep the spa full of water when it is exposed to direct sunlight and that you keep the insulating cover in place at all times when the spa is not in use.

Read and carefully follow the requirements for your spa's support base (found in the section titled, "Selecting a Site For Your SunTub").

IMPORTANT SAFETY INSTRUCTIONS

1. READ AND FOLLOW ALL INSTRUCTIONS.

2. **WARNING**—To reduce the risk of injury, do not permit children to use this spa unless they are closely supervised at all times.
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 closely at all times.
4. **DANGER**—Risk of injury. Connect only to a properly grounded grounding type receptacle. Do not bury cord.

WARNING—To reduce the risk of electric shock, replace damaged cord immediately.

5. **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. To reduce risk of injury to persons, do not operate the spa without the suction fitting covers in place. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.
6. A pressure wire connector is provided in the control box to allow connection of a minimum #8 AWG (8.4 mm²) solid copper bonding conductor between this point and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit as needed to comply with local requirements.
7. **WARNING**—This equipment is provided with a factory installed ground fault circuit interrupter (GFCI) located on the electrical cord near the plug. The GFCI must be tested before each use. With the spa operating, push the test button, the spa should stop operating and the reset button should appear. Push the reset button. The spa should now operate normally. If the interrupter fails to operate in this manner, there is a ground current flowing indicating the possibility of electric shock. Disconnect the plug from the receptacle until the source of breakdown has been identified and corrected.
8. Install in such a manner as to provide drainage away from compartment for electrical components to keep water out of the electrical equipment.

9. **DANGER**—Risk of electric shock. Install spa at least 5 feet (1.52 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 #8 AWG (8.4 mm²) solid copper conductor attached to the wire conductor on the terminal box that is provided for this purpose).
10. **WARNING**—The spa equipment is intended for use only under a spa skirt constructed as to provide protection of this equipment from all wet weather conditions. This spa equipment is not intended for outdoor use without this protection.
11. **DANGER**—Risk of electric shock. Do not permit any electric appliance, such as a light, telephone, radio, or television within 5 feet (1.5 m) of the spa.
12. **WARNING**—To reduce the risk of injury:
 - A) The water in a spa should never exceed 104 deg F (40 deg C). Water temperatures between 100 deg F (30 deg C) and 104 deg F (40 deg C) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10-15 minutes) and for young children.
 - B) Since excessive water temperatures have a high potential for causing fetal damage during early months of pregnancy, pregnant or possibly pregnant women should limit spa or hot tub water temperatures to 100 deg. F (38 deg. C)
 - C) Before entering a spa or hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary.
 - D) The use of alcohol, drugs, or medications 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 medications should consult a physician before using a spa since some medication may induce drowsiness while other medications may affect heart rate, blood pressure and circulation.

13. **SAVE THESE INSTRUCTIONS!**

CAUTIONS

Persons suffering from heart disease, diabetes, high or low blood pressure, pregnant women or any other serious illness should consult with their physician before using the spa.

Excessive water temperature can be dangerous.

Prolonged immersion in hot water may induce hyperthermia. Hyperthermia occurs when the internal body temperature reaches a level several degrees above the normal body temperature of 98.6 degrees F.

The symptoms of hyperthermia include dizziness, fainting, drowsiness, lethargy and an increase in the internal temperature of the body. The effects of hyperthermia include:

1. Failure to perceive heat,
2. failure to recognize the need to exit the spa,
3. unawareness of impending hazard,
4. fetal damage in pregnant women,
5. physical inability to exit the spa, and
6. unconsciousness resulting in the danger of drowning.

WARNING — The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

Selecting a Site for Your SunTub

Your SunTub must be located near enough to a grounded, grounding type electrical outlet so that the power cord can be plugged directly into it. **DO NOT USE AN EXTENSION CORD** as this could cause damage to the spa's equipment due to insufficient voltage.

Because of the combined weight of the spa, water and users, it is extremely important that the base upon which the spa rests be smooth, flat, level and capable of uniformly supporting this weight, without shifting or settling, for the entire time the spa is in place. If the spa is placed on a surface which does not meet these requirements, damage to the skirt and/or the spa shell may result. Damage caused by improper support is not covered under warranty. It is the responsibility of the spa owner to assure the integrity of the support over time.

If the spa is to be placed on a deck, balcony or other suspended surface, check with a structural engineer to be certain that it will support the weight of the spa, water and users.

The spa must be installed in such a manner as to provide drainage away from the spa. Placing the spa in a depression without provisions for proper drainage could allow rain, overflow and other casual water to flood the equipment and create a wet condition in which the spa would sit.

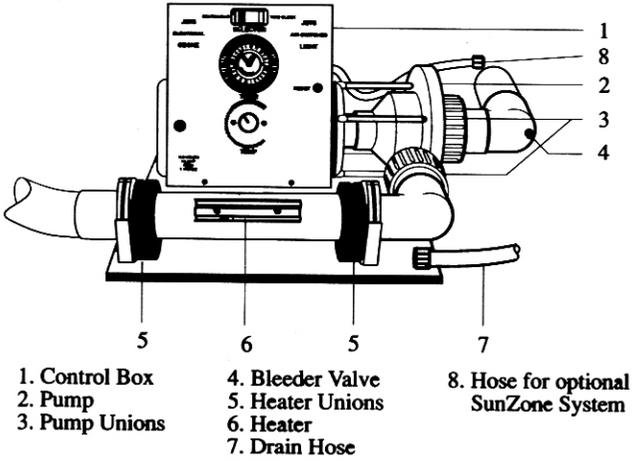
For spas which will be recessed into a floor or deck, install so as to permit access to the equipment, either from above or below the floor or deck, for servicing. Make certain that there are no obstructions which would prevent removal of the equipment access panel.

In selecting the ideal outdoor location for your spa, we suggest that you take into consideration the following: 1) the proximity to change area and shelter (especially in colder weather); 2) the pathway to and from your spa (this should be free of debris so that dirt and leaves are not easily tracked into the spa); 3) the closeness to trees and shrubbery (remember that leaves and birds could create extra work in keeping the spa clean); 4) a sheltered environment (less wind and weather exposure can result in lowered operation and maintenance costs); and 5) the overall enhancement of your environment.

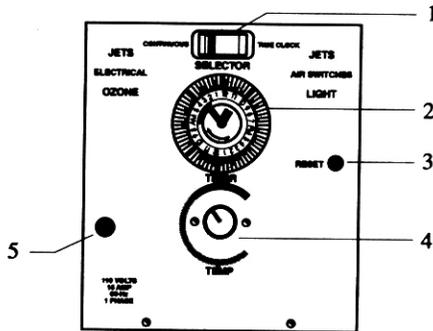
It is preferable not to place the spa under an unguttered roof overhang since runoff water will shorten the life expectancy of the spa cover.

For indoor installations, be certain to make provisions for proper ventilation. When the spa is in use, considerable amounts of moisture will escape. This can damage certain surfaces over time. If you have any questions regarding the placement or installation of your spa, consult your authorized Sundance Dealer.

III. 1-Equipment Bay

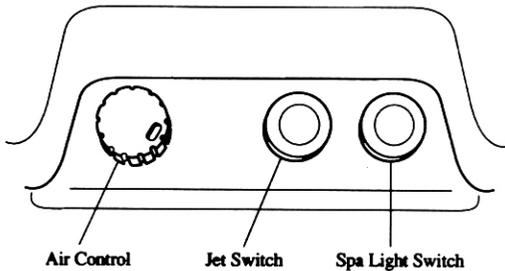


III. 2- Control Box



1. Selector Switch
2. Time Clock
3. Hi-limit Reset
4. Thermostat
5. Heater "ON" Indicator

III. 3- Spa Controls



Start Up Instructions

CONGRATULATIONS! You are now all set to get your new spa ready to use. Simply follow this step-by-step procedure and before long, you will be enjoying your first glorious experience in your new SunTub.

FOR BEST RESULTS, read this entire section before proceeding.

1. Clear all debris from the spa. (Although the spa shell has been polished at the factory, you may want to treat it with a specially formulated spa cleaner and wax available from your dealer prior to filling for the first time.)
2. Open the equipment access panel and check the unions (Ill. 1, items 3 and 5) to make sure they are hand tight. Loosening can occur during shipping and handling.
3. Fill the spa with water from a garden hose until the water level is approximately midway between the top of the skimmer and the top of the spa.

NOTE: Never fill with water from a water softener. If your non-softened water is extremely “hard”, it is preferable to fill half-way with hard water and the rest of the way with softened water.

4. Plug the spa’s power cord into the electrical outlet.
5. Depress the **JETS** button on the control panel (see ill. 3). This causes the pump to activate water flow to the jets. If the pump is properly primed, you should be able to feel a steady flow of water through at least some of the jets. If not, depress the button a few more times to help prime the pump. If this does not initiate water circulation, turn off the pump, unplug the spa and open the **AIR RELIEF VALVE** (see ill. 1, item 4) until water begins to escape. Then close the bleeder valve, plug in the spa and activate pump.
6. Add the spa water chemicals as recommended by your SunTub Dealer. (See the section titled WATER QUALITY MAINTANCE for general guidance.)
7. Place a reliable spa thermometer in the spa water. If the thermometer has a string, you can secure it to the strainer grid at the top of the filter. Note the initial temperature.

8. Rotate the **THERMOSTAT** (see ill. 2) clockwise until it stops. Then rotate it back 1/4 to 1/2 inch depending on your desired temperature. The maximum temperature for which the spa may be set is approximately 104 deg. F. (See the Thermostat section on page 10 for more detailed instructions.)

NOTE: Setting the thermostat at maximum will not accelerate the heating process. This will only result in a higher ultimate temperature.

9. Set the **SELECTOR** switch to the “Continuous” position (see ill. 2). Both the pump’s low speed and the heater indicator light will turn on.
10. Put the spa cover on the spa.

IMPORTANT: Keeping the insulating spa cover in place anytime the spa is not in use will reduce heat loss, thereby minimizing both the time required for heating and operating costs.

11. Secure the equipment access panel in place making sure to run the power cord through the slot provided.

NOTE: The temperature will rise approximately 2 to 3 degrees per hour. The total time required for initial heat-up depends on the initial temperature.

12. When the water reaches the desired temperature, open the equipment access panel. The heater indicator light will be off if the heater has turned off. If this light is off and you want a higher temperature, adjust the thermostat accordingly. If the light is on and the water temperature is at or above your desired temperature, rotatate the thermostat counter-clockwise until the light goes out.

DANGER. RISK OF INJURY. Always check water temperature carefully before entering spa.

13. Set the time clock according to the instructions on page 11, position the selector switch to “Time Clock” and secure the access panel in place.

Operating Instructions

LIGHT

The **LIGHT** button (see ill. 3) activates the spa light when depressed. There are two color lenses included with your spa which may be placed over the light lens.

JETS

The **JETS** button (see ill. 3) switches the pump to high speed operation. You will notice that, occasionally, when the pump is on high speed and you press the "Jets" button to turn it off, it continues to operate on low speed. This happens when the time clock has activated a filter cycle or if the selector switch is in the "Continuous" position.

IMPORTANT: Heating will occur only when the jets are on low speed; that is, activating the high-speed jets will automatically deactivate the heater.

AIR CONTROL

Rotating the air control (see ill. 3) allows you to regulate the amount of air bubbles mixed with the water coming out of the jets. As you will see from experimentation, the more bubbles, the more powerful the massage.

THE THERMOSTAT

The spa's thermostat is designed to provide you with optimum control of the spa water temperature. The maximum setting is approximately 104 deg. F with +/-2% accuracy. As the knob is turned counter-clockwise, the temperature will drop in ever-increasing proportions. This geometric temperature scale allows you much greater precision and control at the upper temperature range. We suggest that once you find the temperature you like best, identify its location on the panel.

SELECTOR SWITCH

This switch (ill. 2, item 1) selects the spa's operating mode. Following is a description of the spa's functioning in each mode.

"Time Clock" Mode

In this mode, the pump's low speed turns on and off for filtration cycles at times dictated by your time clock settings. During these cycles, the heater turns on and off as needed to maintain the temperature called for by the thermostat setting. This mode is recommended for normal, day-to-day operation.

"Continuous" Mode

In this mode, the pump's low speed runs constantly and the heater turns on and off as needed to maintain the temperature called for by the thermostat setting. This mode is recommended for initial start up. Also, if freezing conditions exist, operating the spa in this mode is essential to prevent freeze damage.

SETTING THE TIME CLOCK

The time clock operates your spa's filtration cycles. Routine filtration cycles serve to remove tiny suspensions from the water and help maintain water clarity. To set the time of day, rotate the entire dial until the clock indicates the correct time of day. To set the filtration cycles, locate the tabs for the time periods you would like filtration to occur and push from the inside toward the outside. Press one tab for each 15 minutes of the filter period. The entire group of tabs between on-time and off-time must be depressed. It is suggested that cycle times should be a minimum of one hour long and the spa should filter for around four hours per day (more for heavy use). For best results, divide the total filtration time between two or more cycles per day.

OPTIONAL JET NOZZLES

Alternative nozzles are available for the jets in your SunTub. These produce a different type of feeling in the hydromassage. Ask your dealer about them.

Care and Maintenance of Your SunTub

Proper and regular maintenance of your spa will help it retain its beauty and performance. Your authorized Sundance Dealer can supply you with all the information, supplies and accessory products you will need to accomplish this.

CLEANING THE FILTER

Your SunTub is equipped with a cartridge filter located beneath the strainer grid inside the spa next to the step. Filtering is accomplished by causing water to flow through the polyester mesh of the filter. As water flows through the filter, suspended particles become trapped on its surface. It is necessary to remove the filter cartridge and clean its surface, generally every three to four weeks, depending on usage and water quality.

To remove the filter, rotate the strainer grid and remove. Then, grasp the top of the filter, twist and pull upwards. Cleaning is accomplished by washing the entrapped particles from the filter using a garden hose with a high pressure nozzle.

Occasionally, the cartridge will need a better cleaning to remove oils and minerals from its surface. For this, remove the cartridge, clean with a high-pressure nozzle, then place the cartridge in a plastic container, soaking the cartridge three to six hours or overnight in a solution of specially formulated cartridge filter cleaner available from your SunTub Dealer.

The average life expectancy of a SunTub filter cartridge is approximately two years with proper care and water quality maintenance. A replacement cartridge may be purchased from your SunTub Dealer.

DRAINING & REFILLING

CAUTION: There are certain precautions to keep in mind when draining your spa. If it is extremely cold, and the spa is outdoors, freezing could occur in the lines or the equipment. On the other hand, if it is hot outdoors, do not leave the spa's surface exposed to direct sunlight for long periods.

To drain your SunTub, **FIRST, UNPLUG THE SPA.** Next, open the equipment access panel and locate the drain hose (see ill. 1). Raise the end of the drain hose above the water level, remove the cap and connect a garden hose. Lay the garden hose out to drain the spa.

Be sure to disconnect the garden hose and replace the cap before refilling.

After refilling, plug the spa's cord back into the outlet and follow the steps listed under **START UP INSTRUCTIONS.**

CLEANING THE SPA SURFACE

To preserve the sheen of your spa's surface, it is crucial that you avoid using abrasive cleansers or cleansers which have adverse chemical effect on the surface. If you are not certain as to the suitability of a particular cleanser, consult your SunTub Dealer.

Regardless of the cleanser used, use care to assure that no soap residue is left on the surface. This could cause severe sudsing when the spa is refilled.

Your SunTub Dealer offers a specially formulated surface cleaner and sealant which aids in cleaning the spa surface and adds a protective coating to enhance the luster of the surface.

MAINTAINING THE WOOD CABINET

With time and exposure to the elements, the wood on your spa will tend to lose its new appearance. Protecting or reviving the wood is a fairly simple process.

Light sanding with a fine-grit sandpaper will help smooth any roughness and regular applications of a penetrating wood preservative will enhance and protect the richness of the wood. A specially formulated wood stain available from your SunTub dealer is ideal for this.

NOTE: Do not apply varnish, shellac or other surface sealants to the wood. These tend to react with the chemicals in the wood and the UV rays of the sun, causing yellowing, flaking and peeling.

MAINTAINING THE COVER

Using the SunTub insulating spa cover anytime the spa is not in use will significantly reduce your operating costs, heat-up time and maintenance requirements.

To prolong the life of the cover, handle it with care and clean it regularly using mild soap and water. Periodic treatments with a quality vinyl conditioner will help protect against deterioration caused by UV rays from the sun. Never allow anyone to stand or sit on the cover, and avoid dragging it across rough surfaces.

WINTERIZING

To protect your SunTub from damage during periods of freezing temperatures, set the Selector switch to the "Continuous" mode. Then, check periodically to be certain that the electrical supply to the spa has not been interrupted. When the outside temperature rises above freezing, you may switch the Selector back to time clock operation.

If you do not intend to use your spa, or if there is a prolonged power outage during periods of freezing temperatures, it is important that all water be removed from the spa and equipment to protect against damage from freezing.

For expert winterization of your spa, contact your authorized dealer. If this is not practical in your situation, damage can be minimized or avoided by taking the following steps:

1. Follow the directions on page 11 for draining the spa.
2. As the water level drops below the seats, use whatever means necessary to get the water out of the recessed seating areas and into the footwell.
3. When the water level ceases to drop, use whatever means available to remove any remaining water from the footwell.
4. Locate the union at one end of the heater (see ill. 1). Loosen this ring to allow the water to drain out of the pump and heater. (Note: Approximately one-half gallon will be released during this procedure. Use a wet/dry vacuum or other means to keep this from flooding the equipment compartment.) Retighten the union and reinstall the equipment access panel.
5. Cover the spa so that no casual moisture can enter the spa.

Consult your SunTub dealer if you have any questions regarding winter use or winterizing.

Water Quality Maintenance

Maintaining the quality of the water within specified limits will serve to enhance your enjoyment and prolong the life of the spa's equipment. It is a fairly simple task, but it requires regular attention because the water chemistry involved is a balance of several factors. A careless attitude in regard to water maintenance will result in poor conditions for soaking and even damage to your spa investment.

For specific guidance on maintaining water quality, consult your SunTub dealer who can recommend appropriate chemical products for sanitizing and balancing your spa water.

CAUTION: Never store spa chemicals inside the spa's equipment bay.

pH CONTROL

pH is a measure of the relative acidity or alkalinity of water and is measured on a scale of 0 to 14. The midpoint of 7 is said to be neutral, above which is alkaline and below which is acidic.

In spa water, *it is very important to maintain a slightly alkaline condition of 7.2 to 7.8.* Problems become proportionately more severe when this range is exceeded or diminished. A low pH will be corrosive to metals in the spa equipment. A high pH will cause minerals to deposit (scaling) on the interior surfaces of the spa and equipment. In addition, the ability of the sanitizing agents to keep the water clean is diminished as the pH moves further outside of the ideal range.

Your SunTub dealer can provide you with any chemicals and instructions you may need to adjust the pH of your spa water.

SANITIZING

To destroy bacteria and organic compounds in the spa water, a sanitizer must be used regularly. A residual sanitizer level of 1 to 3 ppm (parts per million) is generally considered desirable.

Bromine tablets, a two-part bromine system or granular chlorine (dichlor) are all acceptable sanitizers.

IMPORTANT: Do not use chlorine tablets (trichlor) in your spa. This chemical can have an extremely corrosive effect on certain materials in the spa. Damage caused by use of this chemical, or improper use of any chemical is not covered under the spa's warranty.

OTHER ADDITIVES

Many other additives are available for your spa. Some are necessary to compensate for out-of-balance water, some aid in cosmetic water treatment and others simply alter the feel or smell of the water. Your SunTub dealer can advise you on the use of these additives.

WATER SANITIZATION WITH OZONE

The SunZone Ozone Water Purification System, available from your SunTub dealer, is designed to work in conjunction with chemical sanitizers to keep your spa water cleaner, clearer and fresher, allowing for longer intervals between drainings.

The SunZone system works by converting oxygen to ozone as air passes through an enclosed chamber located in the equipment compartment of your spa. When this powerful oxidizer is mixed with the spa water, bacteria and contaminants are destroyed and organic compounds are reduced to their lowest elements for removal by the filtration system.

Although your SunZone system will substantially reduce the need for chemical sanitizers, it is recommended that either bromine or granular chlorine be used to provide residual germ-killing action when the ozone system is not in operation. In addition, it is important that the chemical balance be maintained within the proper parameters for the ozone to provide maximum effectiveness. For more detailed information about proper use of chemicals consult your SunTub dealer.

How to Use Your SunZone System

The Sunzone system is automatically activated anytime the pump's low speed is turned on. For best results, your spa should be programmed to operate four daily filter cycles totalling at least four hours combined. For periods of heavier use, increase the length of the filtration cycles proportionately.

Troubleshooting

In the unlikely event your SunTub does not work the way you believe it should, please first review the installation and operating instructions in this manual. If you still believe there is a problem, follow the procedures, in the order listed, for the problem you are experiencing.

PROBLEM

PROCEDURE

**NEITHER PUMP NOR
LIGHT WORKS**

1. Is the spa plugged in?
2. Is the GFCI tripped? Press the GFCI "reset" button on the cord near the plug.
3. Is the household circuit breaker tripped?
4. Remove the heater/control box assembly (see instructions below) and take it to dealer.

**PUMP DOES NOT
OPERATE BUT
LIGHT DOES**

Depress "Jets" button.

1. If no sound is detected, make sure pump is plugged into the control box. If this does not remedy the problem or if a "buzzing" sound is detected, unplug the spa. Remove the equipment pack (see instructions below) and take it to your dealer.
2. If motor operates but no water flows to jets, pump may not be properly primed. This can happen after the spa is drained and refilled. Press the "Jets" button several times, never leaving the motor on for more than 5 to 10 seconds at a time. If prime is still not achieved, unplug the spa, open the equipment access door and open the air relief valve to the right of the pump (ill. 1, item 4) until water begins to leak out. Then, retighten the relief valve, plug in the spa and activate the jets.

PROBLEM

PROCEDURE

POOR JET ACTION

1. Press "Jets" button to make certain that pump is on high speed.
2. Rotate air control to "on" position.
3. Make certain that the water level is at least 2 to 3 inches above top of skimmer grid.
4. Check for dirty filter. Clean if necessary.

WATER IS TOO HOT

1. Reduce thermostat setting.
2. Reduce pump's operating time. (Even without the heater on, water temperature can increase from prolonged pump operation.)

WATER WILL NOT HEAT

1. Check thermostat setting.
2. Check the operating mode. In the "Time Clock" mode, heater will will operate only during the filtration cycles set on the time clock. Be sure these cycles are set for long enough to recover prior heat loss.
3. Keep the spa cover in place while heating.
4. Press the red "reset" button on the control box behind the equipment access door. (If you detect a "click" when doing this, you have probably remedied the problem.)

(NOTE: To determine whether or not the heater is actually functioning, look at your home's electric meter and note the rate of rotation when the spa is turned off compared to when the low speed pump is on with the thermostat set for "hot". If the heater is working, there should be a noticeable difference in the rate of the meter's rotation.)

5. If the above do not remedy the problem, remove the heater/control box assembly (see instructions below) and take it to your dealer.

Instructions for Equipment Removal

HEATER/CONTROL BOX ASSEMBLY ONLY

1. Unplug and drain the spa.
2. Open the equipment access panel.
3. Unplug the pump from the control box (upper left side—labelled “Jets”). Also unplug ozonator, if used.
4. Disconnect the two clear tubes from the control box (upper right side).
5. Unscrew the black unions at either end of the stainless steel heater by rotating them around the pipe. (Note: A small amount of water may be released.)
6. Use a screwdriver or similar tool to pry open the gray clamps at either end of the heater.
7. Lift the assembly out of the compartment, removing the spa light from its socket as you do.

ENTIRE EQUIPMENT PACK

1. Unplug and drain the spa.
2. Open the equipment access panel.
3. Disconnect the two clear tubes from the control box (upper right side).
4. Unplug ozonator, if used, from the upper left side of the control box.
5. Unscrew the black union at the left end of the stainless steel heater by rotating it around the pipe. (Note: A small amount of water may be released.)
6. Unscrew the white union to the right of the pump.
7. Use a screwdriver to remove the two screws which secure the pack to the frame of the spa.
8. Lift the pack out of the compartment, removing the spa light from its socket as you do.

TO RE-INSTALL EITHER THE PACK OR THE ASSEMBLY, SIMPLY REVERSE THE ABOVE PROCEDURES.

REMOVAL PROCESS—PUMP

1. Follow instructions for removal of entire equipment package.
2. Unplug the pump from the control box (upper left side—labelled “Jets”).
3. Unscrew the white union on the pump.
4. Unscrew the two thumbscrews on the base of the pump.
5. Lift the pump out of its cradle.

TO RE-INSTALL, SIMPLY REVERSE THE ABOVE PROCEDURES.



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