



Owner's Manual_{5HH}

Version française au verso



The CE mark is a certification symbol consisting of the letters "C" and "E" in a stylized, bold font. It is positioned below a decorative blue wave graphic that spans the width of the page.

OWNER'S INFORMATION PN

DEALER

Company _____
Address _____
Phone _____
E-mail _____

INSTALLER

Company _____
Address _____
Phone _____

SPA

Model _____
Serial Number (see below) _____
Color _____
Date of Delivery _____

Locate the white plate to the right or left of the access door, near the floor.

CE	Roto Ops LLC Lake Mary, FL	RATINGS:	
		Volts: 230	
		Amps: 10	
		CirBkr: 12	
		Hz: 50	
		SN:	
Model #: -5HH-			
MfgDate:			
FOR INDOOR/OUTDOOR USE		Made in the U.S.A.	

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Important Safety Instructions

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

READ AND FOLLOW ALL INSTRUCTIONS

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 wire connector is provided on this unit to connect a minimum 4.11 mm (No. 6 AWG) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 1.5m (5 feet) of the unit.
3. **DANGER RISK OF INJURY:** (For cord and plug connected units):
 - a. Replace damaged cord immediately
 - b. Do not bury cord
 - c. Connect to a grounded, grounding type receptacle only.
4. **WARNING:** All installations must be protected by a Residual Current Device (RCD).
5. **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. For additional protection, select a cover which is classified by the Underwriters Laboratories Meeting ASTM F1346-91 requirements.
6. **DANGER RISK OF ELECTRIC SHOCK:** Install at least 1.5m (5 feet) from all metal surfaces. As an alternative, a spa may be installed within 1.5m (5 feet) of metal surfaces if each metal surface is permanently connected by a minimum No. 4.11 mm (No. 6 AWG) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.
7. **DANGER RISK OF ELECTRIC SHOCK:** Do not permit any electric appliance, such as light, telephone, radio, or television, within 1.5m (5 feet) of a spa.
8. **WARNING TO REDUCE THE RISK OF INJURY:**
 - a. 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 your children and when spa use exceeds 10 minutes.
 - b. Since excessive water temperatures have high potential for fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 38°C (100°F).
 - c. Before entering spa, the user should measure the water temperature with an accurate thermometer since the tolerances of water temperature-regulating devices vary.
 - 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.
9. **WARNING:**
 - a. People with infectious diseases should not use a spa or hot tub.
 - b. To avoid injury, exercise care when entering or exiting a spa or hot tub.
 - c. Do not use a spa or hot tub immediately following strenuous exercise.
 - d. Prolonged immersion in a spa or hot tub may be injurious to your health.
10. **Caution:** Maintain water chemistry in accordance to manufacturer's instructions.

Additional Important Safety Precautions

Your spa can be a source of great pleasure. It offers healthful stimulating recreation and is a delightful fun center for you, your family and friends. However, it contains large quantities of water and is deep enough to present inherent dangers to life and health unless the following safety rules are strictly observed.

11. **Never permit the spa to be used unless it is attended by at least one person other than the bather.**
Someone should be present to lend assistance if the bather should be in trouble due to injuries, cramps, drowning especially in case of children, etc.
12. **Always use care in and around your spa.**
The spa has many rigid, unyielding parts and many areas that become wet and slippery; these are all potentially dangerous when rough play is permitted or if care is not used particularly when entering or leaving the spa.
13. **Keep the water sanitary and healthful at all times.**
Your filter system will remove suspended particles from the water. Regular application of spa chemicals in proper quantities will destroy harmful bacteria and prevent formation of algae. Your surface skimmer will remove insects, leaves, and other debris from the water surface. Unsanitary water is a serious health hazard.
14. **The water in your spa should NOT be warmer than 38°-40°C (100° - 104° F).**
Always keep an accurate thermometer in the water because your spa's thermostat may be in error. Use a high quality, shatterproof thermometer with increments of one degree or less.
The National Spa and Pool Institute consider a temperature of 38°C (100°F) safe and comfortable for a healthy adult. Most healthy adults can enjoy this water temperature for as long as desired, although it may raise the body temperature to the water temperature and eventually become uncomfortable (like a fever). At higher water temperatures the soaking time should be shorter; never soak for more than 20 minutes when the water temperature is 39°C (102°F) or higher. If you are planning a long rest in the spa, lower the water temperature closer to normal body temperature, about 37.2°C (99°F). Some people find even lower water temperatures relaxing and pleasing. Try different water temperatures in the 36.6°-39°C (98°-102°F) range until you find what temperatures suit you best.
15. **Hot water can raise the body temperature high enough to cause heat stroke.**
This can be fatal even to healthy adults. If you have any questions about your own fitness or whether you should soak in the spa, check with your physician.
16. **Prolonged immersion in hot water may induce hyperthermia.**
Hyperthermia occurs when internal body temperature reaches a level several degrees above the normal body temperature of 36.6°C (98.6°F). The symptoms of hyperthermia include: (1) dizziness, (2) fainting, (3) drowsiness, (4) lethargy, (5) increases in the internal body temperature. The effects of hyperthermia include: (1) unawareness of impending hazard, (2) failure to perceive heat, (3) failure to recognize the need to exit spa, (4) physical inability to exit spa, (5) unconsciousness resulting in danger of drowning.
17. **WARNING: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs or spas.**
Despite the popular image of people in spas drinking wine or other alcoholic beverages, DO NOT use alcoholic beverages before or during spa use. Alcohol is a depressant which causes slowed reflexes and drowsiness, especially in conjunction with the relaxed soaking in hot water. This can lead to sleep or unconsciousness and possibly result in drowning. Using your spa with other people who are also drinking is not a preventative measure since they are likely to become similarly affected by the combinations of alcohol and hot water soaking.
Soaking in hot water causes changes in the circulatory system, such as enlargement of blood vessels near the skin. Therefore, people with a medical history of heart disease, circulatory problems, and diabetes; high or low blood pressure should check with their physician before using spas. Additionally, people taking medications causing drowsiness, such as tranquilizers, narcotics, antihistamines, or anticoagulants should not use spas without asking their physician.

(Safety instructions continued on next page)

18. **Broken or missing drain covers should be replaced immediately.**

Accidents can occur when long hair or a body part is trapped by suction from a drain or outlet whose cover is broken or removed. Children are particularly vulnerable, and they should be warned against danger.

19. **WARNING:** Do not use electrical appliances in or around your spa. Do not use glass or other breakable items in or around your spa. Do not remove spa cabinet panels and attempt to make repairs. Do not attempt electrical repairs. Retain a certified licensed electrician.

20. **This spa is for residential use only.** It is not intended for commercial use.

SAVE THESE INSTRUCTIONS

Selecting a location

Before proceeding, please read the Important Safety Instruction at the beginning of this manual.

Spa location check list (more details below checklist):

- ☐ Is permitting required for construction, electrical, or barriers?
- ☐ Is the support surface adequate to support the weight of the spa?
- ☐ Is the support surface adequate to handle water overflow?
- ☐ Is the support surface impervious to water?
- ☐ Are there considerations for limiting access by children?
- ☐ Are there overhead electrical lines?
- ☐ Will your electrical cord reach an outlet?
- ☐ Is there adequate room to access the service door, drain, and filter?
- ☐ Is there any privacy considerations?

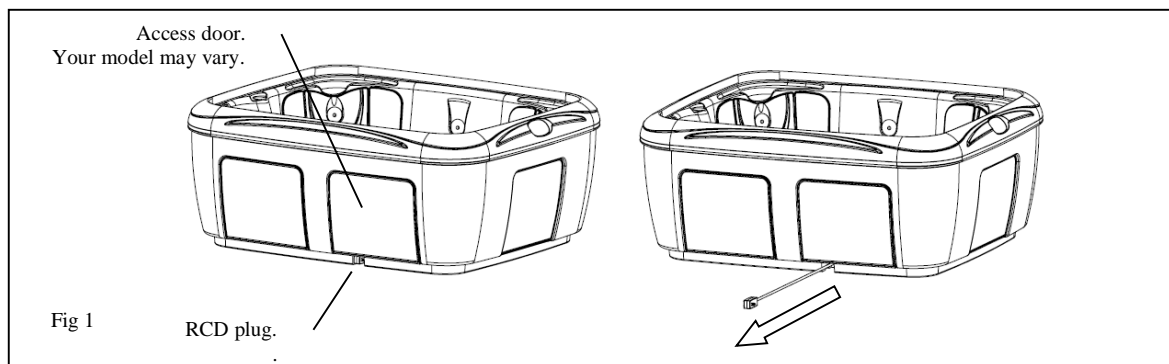
Most cities and counties require permits for exterior construction and electrical circuits. Some areas have codes requiring barriers such as fencing and/or self-closing gates on property to prevent unsupervised access to the property by children. Your local code enforcement department can provide information on which permits may be required and how to obtain them before delivery of your spa.

Provide a solid flat level load-bearing surface. The surface must provide a solid foundation with a minimum load bearing capacity of 34 kg per 929 square cm (75 pounds per square foot). Concrete slabs and decks must be designed to support this weight. The surface must be suitable for a wet location and allow for adequate drainage for overflow water.

Do not locate your spa under overhead power lines or in near proximity to existing buried or exposed electrical circuits.

Childproof Your Spa. Plan for limiting access of children. Precautions such as self-closing, locking gates, access doors, fencing and other child barriers, as dictated by the site.

Locate your spa so that the RCD plug and cord will reach a dedicated outlet, but not closer than 1.5m (5 feet). A dedicated outlet is one that does not have other electrical devices operating on the same circuit. This can be checked by turning off the circuit breaker that supplies the intended outlet and verifying the no other electrical devices no longer work, such as a refrigerator, dishwasher, washing machine, coffee maker, hair dryer, etc. Do not use an extension cord. To extend the power cord, find the RCD plug located below the service door (fig 1). Cut the white strap and gently pull the RCD plug and cord to about 3.6m (12 feet). If the cord is tangled, remove the service door (fig 1) to feed the cord through the hole. Do not connect to the outlet until the spa is filled with water (see page 8)

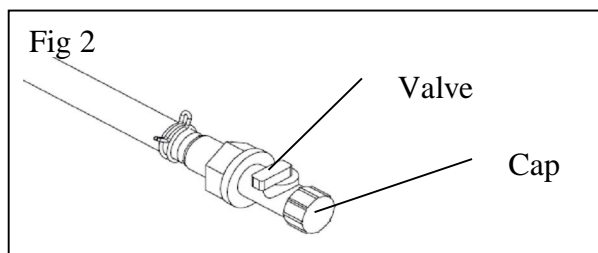


Allow for Service Access. If you are installing your spa near a wall or with any type of structure on the outside, such as a gazebo, remember to allow access for service.

Filling Your Spa

Remove the access door (Fig 1) and assure the drain valve is closed and the cap is secure (fig 2).

Place a garden hose into filter area (Fig 3) and fill the spa with cold (never warm or hot) water 150 to 200 mm (6 to 8 inches) below the top edge of the spa. Do not overfill, as the spa's water level will rise as each person enters the spa. Always keep the spa water level above the jet openings.

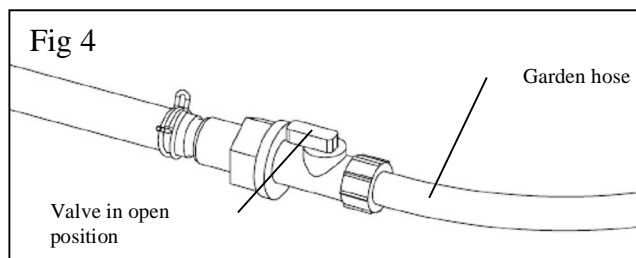


Draining the spa

Draining your spa on a regular basis rids the spa of dissolved solids and protects your spa equipment from the effects of residual calcium hardness and total alkalinity problems. Depending upon usage, it may be as often as every three months.

To drain the spa follow these steps:

1. Turn power off to the spa.
1. Remove the access door (Fig 1) and locate the drain valve (Fig 2). .
2. Assure that the drain valve is in the off position (as shown in figure 2). Remove the cap (Fig 2) and attach a standard garden hose to the drain valve (Fig 4).



3. Route the garden hose to a sewer drain capable of safely assimilating 1136 plus liters (300 plus gallons) of water which may contain both unsanitary contaminants and chemical residue. Open the drain valve (as shown in Fig 4). The spa drains slowly.
4. Before refilling your spa, assure that the drain valve is in the off position and the cap is secured (Fig 2).

5HH System Operation





Initial Start-Up


When your Spa is first activated, it will perform a self-diagnostics test showing a series of numbers followed by Pr, then by -- along with the low speed pump for approximately 7 minutes. Also the internal clock that keeps track of the filtration cycles every 12 hours will start at that point. The system is preset to heat up to 38° C (100° F) and it is also preset to run on low speed for two hours (F2).

Temperature Adjustment


21° C-40° C (70° F-104° F)

When either of the temperature pads  or  are pressed once, the LCD will display the temperature which has been set. Each time either one of these pads are pressed again, the temperature will change by 1°. After 5 seconds, the LCD will automatically display the current spa temperature.

Jets




Press the  pad to run the pump on and off. If left running, the high speed pump will automatically turn off after 30 minutes or low speed in 2 hours.

Light

Press the  pad to turn the spa light on. To switch color modes, press the pad again immediately after turning it off. If left on, the light will automatically turn off after four hours.

Spa Water Maintenance

This function enables you to program the amount of water filtration time.

Press  or  and  to enter the programming mode.

Once in the programming mode press  or  to select the filtration time.

F2 In this mode the water will be filtered for 2 hours every 12 hours.

F4 In this mode the water will be filtered for 4 hours every 12 hours.

F6 In this mode the water will be filtered for 6 hours every 12 hours.

F8 In this mode the water will be filtered for 8 hours every 12 hours.




FC In this mode the water will be filtered continuously.

To exit press  .

WARNING: SHOCK HAZARD! NO USER SERVICEABLE PARTS. Do not attempt to service this control. Contact your dealer or service center for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a certified licensed electrician and all grounding connections must be properly installed.

Additional 5HH system feature

Spa heating modes

The Heating Mode offers the ability to control your heater in special circumstances. Your spa is preset at the factory to Standard Mode. However, the Standard Heating Mode can be changed to Economy or Sleep by pressing the  or  then  button. With each press of the buttons, the display will cycle through the three different modes described below.

Standard Mode (ST): Your spa is preset to this mode. This mode operates the heater whenever needed to maintain the programmed spa water temperature. (See Temperature Adjustment page 9Error! Bookmark not defined.).

Economy Mode (EC): This mode operates the heater only during programmed Filtering Cycles (See Spa Water Maintenance page 13Error! Bookmark not defined.). This mode is ideal for areas that charge a premium for electricity during peak hours. This mode will maintain the thermostat setting. If it does not reach the thermostat setting, you may have to allow for more heating time by increasing the Filtration Cycles.

Sleep Mode (SL): This mode works in the same manner as the Economy Mode except the thermostat setting is automatically lowered by 20 degrees. This mode is best suited for extended leaves from home when it is not important to maintain constant water temperature, such as vacations or business trips.

Summer Set Temperature

In hot weather, it is possible for water temperature to exceed the temperature setting. This is especially common when your temperature setting is lower than air temperature. If the water temperature exceeds the temperature setting more than 1°C (3°F), the pump will stop running automatically except during filter cycles. Normal operation will resume when the water temperature cools to below the setting, or the setting is increased above the water temperature.

5HH Display Messages

MESSAGE	MEANING	ACTION REQUIRED
	No message on display. Power has been cut off to the spa.	The control panel will be disabled until power returns. Spa settings will be preserved until next power up.
- -	Temperature unknown.	After the pump has been running for 2 minutes, the temperature will be displayed.
H H	Overheat -The spa has shut down. One of the sensors has detected 47°C (118°F) at the heater.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. Once the heater has cooled, reset by pushing any button. If spa does not reset, shut off the power to the spa and call your dealer or service organization.
O H	Overheat" -The spa has shut down. One of the sensors has detected that the spa water is 43°C (110°F).	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 41°C (107°F), the spa should automatically reset. If spa does not reset, shut off the power to the spa and call your dealer or service organization
1 C	Ice -Potential freeze condition detected.	No action required. The pump will automatically activate regardless of spa status.
S A	Spa is shut down. The sensor that is plugged into the "A" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
S b	Spa is shut down. The sensor that is plugged into the "B" jack is not working.	If the problem persists, contact your dealer or service organization. (May appear temporarily in an overheat situation and disappear when the heater cools.)
S N	Sensors are out of balance. If alternating with spa temperature, it may just be a temporary condition. If flashing by itself, spa is shut down.	If the problem persists, contact your dealer or service organization.
H L	A significant difference between temperature sensors has been detected. This could indicate a flow problem.	Check water level in spa. Refill if necessary. If the water level is okay, make sure the pumps have been primed. If problem persists, contact your dealer or service organization.
L F	Persistent low flow problems. (Displays on the fifth occurrence of "HL" message within 24 hours.) Heater is shut down, but other spa functions continue to run normally.	Follow action required for "HL" message. Heating capability of the spa will not reset automatically; you may press any button to reset.
D R	Possible inadequate water, poor flow, or air bubbles in the heater. Spa is shut down for 15 minutes.	water level in spa. Refill if necessary. If water level is okay, make sure the pumps have been primed. Press any button to reset, or this message automatically will reset within 15 minutes. If problem persists, contact your dealer or service organization.
D Y	water detected in heater. (Displays on third occurrence of "DR" message.) Spa is shut down.	Follow action required for "dr" message. Spa will not automatically reset. Press any button to reset.

Equipment Operation



Surface Skim Filter

The spa's automatic surface skim filter is designed to remove floating debris and contaminants such as body lotions by drawing water through a specially formulated filter cartridge element. It is critical that this element be routinely cleaned.



To Clean the Cartridge

1. Place system on lockout Mode or disconnect power.
2. Remove the end nut turning counter close wise.
3. Pull up filter cartridge.
4. Remove the cartridge element and thoroughly rinse with a garden hose until element is free front dirt and debris.
5. Return the cartridge to the filter well by following steps 1- 4 in reverse order.



Air injection Venturi Adjustment

Air injection into the massage jet water flow may be controlled by manipulation of the venture dials located on either side of the spa. Each dial is independent and controls up to 5 jets respectively.

Water Chemistry

Spa water chemistry (or water balance) affects the safety of your equipment as well as the appearance of your spa water. Water balance has five factors: pH, total alkalinity, calcium hardness, temperature and total dissolved solids. pH is the most critical but total alkalinity and calcium hardness must also be watched closely. Low calcium hardness can lead to corrosion of equipment, while high calcium hardness can lead to scaling, cloudy water and staining. Water temperature should never exceed 40°C (104°F), and total dissolved solids should be kept below 1500 PPM.

Algicidal and sanitizing chemicals are either alkaline or acid. Sodium and calcium hypochlorites are alkaline. Chlorine gas and practically all other dry chlorine spa products are acid. On the market are a number of bromine sanitizers. Bromines are usually preferred since they don't emit a strong chlorine odor.

SEE YOUR SPA WATER EXPERT FOR ADDITIONAL INFORMATION

USE OF CALCIUM HYPOCHLORITES OR TRICHLORS WILL VOID WARRANTY

1. Check and adjust water conditions. You must maintain proper chemical balance to insure safe sanitary conditions and to prevent your spa from becoming a breeding place for bacteria. This is done by:
 - A. Test daily and maintain pH between 7.2 and 7.8. Adjust if necessary, above 7.8 use pH decrease, if below 7.2 use pH Increase. Improper pH can damage spa finish, equipment, cause eye irritation and chemical loss. Use dosage according to manufacturer's label.
 - B. Test alkalinity and maintain at 80 ppm to 140 ppm. Adjust if necessary, above 140 ppm use pH Decrease, if below 80 ppm use Total Alkalinity Control. Use dosage according to manufacturer's label.
 - C. Test daily and maintain proper sanitizer level. It's recommended to use bromine sanitizer and maintain bromine at 3.0
5.0 ppm. Typically two or three bathers relaxing in an average spa with 39.4°C (103°F) temperature will consume all the bromine sanitizer in about twenty minutes. Therefore, prolonged or heavy use may require additional bromine to maintain safe sanitary conditions.
 - D. Shock (with a non-chlorine shock) once a week and after each water change. Do not use spa until the bromine residual has dropped to less than 5.0 ppm. NOTE: Improper pH will cause early corrosion to your pump. Corrosion is not handled under any warranty.

SPA MAINTENANCE SCHEDULE

DAILY

Test and maintain pH: Ideal range 7.2 - 7.8b.

Test and maintain bromine: Ideal range 3.0 - 5.0 ppm.

WEEKLY

Test and maintain alkalinity 80 - 140 ppm. Shock with a non-chlorine shock.

Add Spa Clear.

MAINTENANCE

Add defoamer as needed.

Inspect filter cartridge every 2 weeks and clean when needed.

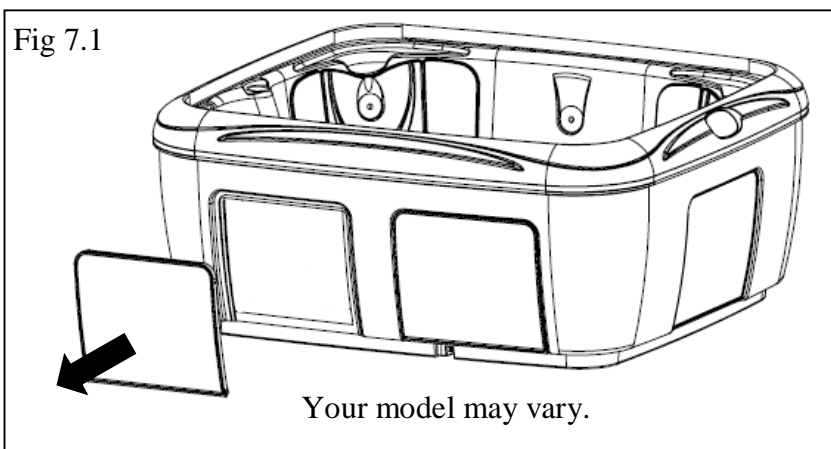
Water Chemistry (Continued)

It is recommended that the spa be drained regularly depending on its size, location and the frequency of use.

1. Clean filter and cartridge periodically according to manufacturer's instructions.
2. Keep the spa covered when not in use to reduce the loss of heat and to keep out leaves, dirt, and other foreign materials from settling in the water.
3. Since the water capacity of your spa is far less than that of a swimming pool, the chemical reaction caused by the presence of one or more persons in the spa is more rapid and pronounced. For these reasons, it is important to frequently check the bromine level, the pH level and total alkalinity of water then add the prescribed chemicals as necessary to maintain the proper chemical balances.
4. If questions or doubts arise regarding quantities and timing or chemical applications to your spa, contact your spa dealer who can assist you in prescribing the correct program for your spa.
5. Store all chemicals in a cool dry place and in such a manner as to prevent contact by children and pets.
6. When adding chemicals to your spa water, add to the center of the spa with the pump operating. Never add chemicals to unheated water as this will affect chemical action.

Replacing the LED light.

1. Turn off power to the spa.
2. Using a Philips screwdriver, remove the panel to the left of the filter (Fig 7.1).
3. Reach in and turn the white holder counter clockwise and gently pull it, with the attached wires, out the access hole (Fig 7.2).
4. Pull the LED light out of the light socket (Fig 7.3).
5. Install a new LED light, attach the white reflector turning clockwise and reattach the panel with the screws.



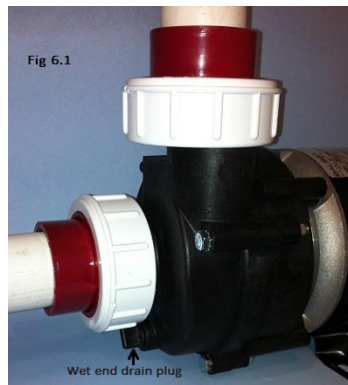
Freeze Protection

DO NOT ALLOW THE SPA TO FREEZE

If the spa is to be stored or transported in temperatures of 0°C (32°F) or lower, it is critical that the unit be fully winterized.

To winterize the spa follow these steps:

- 1 The spa itself must be completely drained of water. See page 8 for draining instructions.
- 2 The drain valve must be in the open position and the cap removed.
- 3 Drain the pump by removing the pump wet-end drain plug (Fig 6.1). Leave this plug out until it is time to refill the spa.



- 4 The filter cartridge must be removed, dried and stored. See page 12 for instructions for removing the filter cartridge.
- 5 The spa must be inverted (turned upside down) for at least five minutes to facilitate draining of the internal plumbing.

CLEANING YOUR SPA

Do not use cleaners or compounds containing harsh abrasives. Also, avoid using heavy-duty rubbing or buffing compounds. Use a soft liquid cleaner.

CARE OF VINYL HARD COVER

Vinyl coated fabrics are perhaps the most maintenance-free fabrics ever produced and certainly will provide exceptional service life if given the proper care. Almost all vinyl manufacturers now provide information concerning the necessary cleaning procedures for their products. In reality, all care maintenance instructions are the same for all coated fabrics regardless of their manufacturing origin.

Products are now on the market which are manufactured to enhance the beauty and service life of all vinyl. However, by using methods described below with minimal care and attention, you should enjoy years of satisfaction and pride with any vinyl coated fabric.

EVERYDAY SOIL

A gentle mixture of any mild soap and warm water will generally dissipate most common soil from the surface. Using a soft cloth, wash the area to be cleaned and rinse. If stubborn dirt remains, as a stain embedded in the grain of the vinyl, use a soft brush, and if necessary, a touch of cleaning powder. In both situations, rinse and dry with a soft cloth.

Most Frequently Asked Questions

- 1. Why does my spa not shut off?** Your spa is designed to run from the time you plug it in to run until it reaches your desired temperature. Once desired temperature is reached then you can control the on/off with the buttons on the top control. **For example: On the initial startup the spa will run for approximately 18 hours to reach 38°C (100°F). At that point the spa will shut off, and then the spa will maintain your desired temperature settings. Keep in mind that anytime power is disrupted from the spa, the spa will reset itself and run until it reaches the spa's default settings.**
- 2. Why does my spa turn on late at night?** The spa is designed to filtrate every 12 hours. The clock starts the second you plug it in. Recommend unplugging and plugging back in between 7 and 8. This means the spa will come on every 12 hours at the designated time and filtrate the amount of time you have it set for.
- 3. Why is my spa hotter than it is set for?** If your spa is set for 38.3°C (101°F) but it reads 39.4°C (103°F) most likely your filter cycle is set too high. Adjust your filter cycle down to the next lower setting or **F0**. Remember, when the spa is running to filtrate it is also heating.
- 4. Why is my spa not heating?** All spas heat at approximately 0.833°C (1.5°F) per hour. If your water temperature is 21.1°C (70°F) when you first fill your spa it will take approx. 20 hours to reach 38°C (100°F). **Remember, it is imperative to keep your safety cover on and the air control valves turned off while heating.**
- 5. How do I change the light bulb?** Turn off electrical power to the spa. Rotate the bulb housing one quarter turn counter clockwise to take out the bulb. To install, follow the same steps in reverse order.
- 6. How many gallons does my spa hold?**

Model <small>First three characters on rating plate</small>	EZ SPA ES2	FANTASY FA2	BIG EZ EB2	ODYSSEY OD2
Liters	758	970	985	985
Gallons	200	256	260	260

- 7. I see water on the floor. What does this mean?** The cover can accumulate condensation between the seams and run down the sides of the spa. You can verify that water is coming from the cover by squeezing the seam, or by repositioning the cover so that the seam is on a different side. This only occurs when the temperature and humidity are at certain levels.

Troubleshooting Guide

SITUATION	PROBABLE CAUSE	ACTION
NO HEAT OR HEAT TOO LOW	Operating while spa cover is open.	Ensure that spa cover is properly closed.
	Dirty filter	Remove filter cartridge and clean.
JETS WON'T COME ON	No power to spa control.	Check the RCD plug, circuit breaker and/or disconnect switch.
NO CONTROL DISPLAY OR FUNCTIONS	No power to spa control.	Check the RCD plug, circuit breaker and/or disconnect switch.
LOW WATER FLOW	Dirty filter.	Remove filter cartridge and clean. Pg. 12
	Low water level.	Make sure water level in spa is correct.
NO AIR BUBBLES IN JET	Air control valve in the closed position.	Open venturi dials. Pg. 12.
SPA IS LEAKING	Spa drain valve and cap partially open.	Ensure that drain valve and cap are fully closed. Pg. 8
NO SPA LIGHT	Burned out bulb.	Replace bulb. Pg. 15
SLOW WATER DRAIN	Drain valve not fully opened.	Ensure that valve is fully open. Pg. 8
	Dirty filter.	Remove filter cartridge and clean. Pg12
	Kinked garden hose	Ensure drain hose is not kinked and is in a downhill direction.

Glossary of Terms

AIR CONTROL VALVE

Mounted on the lip of the spa or at the equipment shroud, to induce air to the jets.

CHECK VALVE

Prevents back flow of water through system.

CONTROL BOX

Basically the brain of the spa. Power is distributed to all functions of the spa, pumps, lights, heat, etc.

DRAIN VALVE

Used in the draining of the spa, looks like an indoor faucet and fits a standard garden hose.

FILTER

The filter cleans the spa and removes particles and debris and protects the equipment from foreign substances.

FOOTWELL

The bottom of a spa where you place your feet.

HEATER The thermostatically controlled heater raises the temperature of the water to the desired degree. This is located under the control box in the equipment area.

JETS

The fittings on your spa that direct the flow of water for massaging action.

pH Stands for ~~%~~Potential for Hydrogen+This is the term used to describe the acid (low pH) or alkalinity (high pH) condition of the water. The ideal pH for spa water is 7.5.

SKIMMER The skimmer removes surface debris to the filter. The water level in the spa should be kept at the proper range for optimum skimmer operation.

TOP CONTROL PANEL

Mounted on the lip of the spa. The digital panel that controls the spas functions.

Dream Maker Spas 2015

Limited Warranty-Non-transferable-Original Purchaser Only

- A. 5 Year Shell Warranty ó Should a crack in the shell result in a loss of water through the shell due to defects in the spa shell, Dream Maker Spas, will, at its option, repair or replace the shell portion of the spa. The freight costs incurred will be shared by Dream Maker Spas and the consumer.
- B. 1 Year Plumbing ó Dream Maker warrants the plumbing harness and related components (jets, air controls and unions), against leaking due to defects in workmanship or materials for a period of One (1) year from the original date of Purchase.
- C. 1 Year Equipment ó All electronic components used in the manufacture of the Dream Maker spa, are warranted to be free from defects in material or workmanship, subject to the limitations and exclusions listed herein, for a period of One (1) year from the original date of Purchase. Filters, LED lights, light bulbs, fuses and pump seals are excluded from the warranty. Consumers will be asked to provide full payment via credit card if electrical components need to be shipped for replacement. The original part must be returned within 30 days to qualify for a full refund of your payment. Dream Maker cannot accept COD shipments. Dream Maker will pay for the shipping for returning the defective parts. Customer will be responsible for shipping charges of replacement part to them.
- D. 1 Year Labor- Labor will be covered for a period of One (1) year from original date of purchase. This does not include routine maintenance such as tightening jets, lubricating O-rings, changing/cleaning filters, chemical checks and adjustments, or anything else that would be considered routine maintenance. Trip charges, if applicable, are not covered under the labor warranty and are the responsibility of the purchaser.

Limitations and Exclusions

This limited warranty extends solely to the original purchaser of any 2014 Dream Maker branded product produced or sold after January 1, 2015. It covers only the spa unit and equipment or components used in its manufacture, for the periods stated. This warranty negates or limits all other warranties, implied or expressed, except those limited by the laws of the state in which the product is used. Dream Maker Spas does not authorize any party, including its agents, distributors, or dealers to assume for it any other obligations or liability. In no event, will Dream Maker Spas be liable for any special or consequential damages arising from the use of the spa, nor for injury to any person, or any claim for damages arising from the use, installation, or repair of the spa, including but not limited to, water or sewage cost, water damage to surrounding areas, rooms, furnishing, or landscaping. The purchaser is responsible for providing adequate access for the spa to be properly serviced.

- This warranty does not apply to wearable items such as filter elements, fuses, pump seals, spa cover, and jet internals.
- Dream Maker Spas reserves the right to examine photographs prior to repair or replacement.
- This warranty shall be rendered void if the spa has not been installed in strict accordance with the owner's manual provided, including being attached to an extension cord
- This warranty shall not apply with respect to any damage caused by accident, abuse, misuse, improper installation, exposure to fire or excessive heat, acts of god, or any damage due to improperly maintained water chemistry
- Repairs not performed by Dream Maker Spas, or its agent, without authorization, may void warranty.
- Commercial & rental applications are excluded from all warranty coverage.
- Warranty valid only for product produced during model year 2015

Warranty Performance

The purchaser must establish by dated sales slip or invoice, the date of original purchase.
Dream Maker Spas shall not be responsible for cartage, removal and/or re-installation labor or any other associated cost incurred in obtaining warranty service.
All costs for removal or reinstallation of the spa, or any components, are the responsibility of the purchaser.
With respect to any defects covered by this warranty, owner must notify their selling dealer.

ROTO OPS LLC
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Lake Mary, FL 32746