



**MARGARITAVILLE**  
*hot tubs*

**OWNER'S MANUAL**

**110V / 230V**

**60Hz Models**

# OWNER'S MANUAL

## 110V / 230V Systems

### Owner's Record

#### Locating the Hot Tub Serial Number:

The Hot Tub serial number label is located inside the equipment compartment. Equipment compartment access panel is below the topside control panel. You will need the hot tub model and serial number to properly register your hot tub and activate coverage. Write your hot tub information in the space provided.

DATE PURCHASED:

PURCHASED FROM:

HOT TUB MODEL:

SERIAL NUMBER:

See Page 8

Please read this Owner's Manual carefully, as it is designed to provide you with the information you will need to ensure the safe, secure use of your hot tub.

**IMPORTANT:** Watkins Wellness reserves the right to change specifications and/or design without notification and without any obligation.

#### HOT TUB SPECIFICATIONS

Model	Hot Tub Seating	Length	Width	Height	Dry Weight	Water Capacity	Electrical 60Hz
FlipFlop 45NL	6 person	80" (203 cm)	80" (203 cm)	34" (86 cm)	385 lbs. (175 kg)	295 (1117 lit)	230V
FlipFlop 25NL	6 person	80" (203 cm)	80" (203 cm)	34" (86 cm)	355 lbs. (161 kg)	290 (1098 lit)	110 or 230V
SunBake 25L	5 person	80" (203 cm)	80" (203 cm)	34" (86 cm)	360 lbs (163 kg)	290 (1098 lit)	110 or 230V
SunBake 45L	5 person	80" (203 cm)	80" (203 cm)	34" (86 cm)	380 lbs (172 kg)	290 (1098 lit)	230 V

#### **CAUTION**

##### DO NOT OPERATE HOT TUB BEFORE READING THIS MANUAL

Failure to read this manual and follow its instructions may result in unsafe operation and or permanent damage to your portable hot tub.

Most cities, counties, states, and countries require permits for exterior construction and electrical circuits. In addition, some communities have codes requiring residential barriers such as fencing and/or self-closing gates on the property to prevent unsupervised access to a pool or hot tub by children. Be sure to check with your local agencies for specific requirements.

If you need additional information and/or assistance, please contact Customer Service at 888-961-7727 Ext. 8440 or at [ahsservice@watkinsmfg.com](mailto:ahsservice@watkinsmfg.com).

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## **IMPORTANT SAFETY INSTRUCTIONS**

### **READ AND FOLLOW ALL INSTRUCTIONS**

#### **AVOIDING THE RISK TO CHILDREN**

##### **DANGER:**

- **RISK OF CHILD DROWNING:** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a hot tub unless they are supervised at all times. Children should be supervised to not use the hot tub as a toy.

##### **WARNING:**

- To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- To reduce the risk of injury, lower water temperatures are recommended for young children. Children are especially sensitive to hot water.

##### **DO:**

- Make sure you always lock the child resistant locks after using the hot tub for your children's safety. Every hot tub is equipped with a locking cover that meets the ASTM F1346-91 Standard for Safety Covers.
- Test the water temperature with your hand before allowing your child to enter the hot tub to be sure that it's comfortable. Children are especially sensitive to hot water.
- Remind children that wet surfaces can be very slippery. Make sure that the children are careful when entering or exiting the hot tub.

##### **DON'T:**

- Allow children to climb onto the hot tub cover.
- Allow children to have unsupervised access to the hot tub.

#### **AVOIDING THE RISK OF ELECTROCUTION**

##### **RISK OF ELECTROCUTION:**

- Connect only to a grounded source.
- Do not bury the power cord. A buried power cord may result in death or serious personal injury due to electrocution if direct burial-type cable is not used, or if improper digging occurs.
- A ground terminal (pressure wire connector) is provided on the control box inside the unit to permit connection of a minimum No. 10 AWG solid copper bonding conductor between this point and any metal equipment, metal water pipe, metal enclosures of electrical equipment, or conduit within five feet (1.5 m) of the unit as needed to comply with local requirements.

##### **WARNING:**

- To reduce the risk of electrical shock, replace a damaged cord immediately. Failure to do so may result in death or serious personal injury due to electrocution.
- Your 110 volt hot tub is provided with a Ground Fault Circuit Interrupter for user and equipment protection. To ensure proper operation of this important safety device, test according to the following instructions per electrical configuration. If the power cord is damaged, it must be replaced by the manufacturer, its authorized service agent or a similarly qualified person in order to avoid hazard.



# SAFETY INFORMATION

## **110 VOLT, CORD-CONNECTED MODELS:**

- The GFCI is located at the end of the power cord. Before each use, with the unit operating, push the TEST button. The unit should stop operating and the GFCI power indicator will go out. Wait 30 seconds and then reset the GFCI by pushing the RESET button. The GFCI power indicator will turn on, restoring power to the hot tub. If the interrupter does not perform in this manner, there may be an electrical malfunction and with it, the possibility of an electric shock. Disconnect the power until the problem has been corrected.

**NOTE: This will reset the filter cycle.**

## **230 VOLT, CONVERTED MODELS:**

- A ground terminal is provided on the control box. To reduce the risk of electric shock, connect this terminal to the grounding terminal of your electrical service or subpanel with a continuous green, insulated copper wire. The wire must be equivalent in size to the circuit conductors supplying the equipment. In addition, a bonding terminal (pressure wire connector) is provided on the outside of the control box for bonding to local ground points. To reduce the risk of electric shock, this connector should be bonded with a No. 8 AWG solid copper wire to any metal ladders, water pipes, or other metal within 5 feet (1.5 m) of the hot tub to comply with local requirements. The means of disconnection must be readily accessible, but must be installed at least 5 feet (1.5 m) from the hot tub.
- Your hot tub requires a suitably rated circuit breaker to open all ungrounded supply conductors.
- Your hot tub must have a ground fault circuit interrupter in an electrical subpanel. Before each use of the hot tub and with the unit operating, push the TEST button on the breaker. The switch should click over to the "Trip" position. Wait 30 seconds and reset the GFCI breaker by switching it completely off and then completely on. The switch should then stay on. If the interrupter does not perform in this manner, it is an indication of an electrical malfunction and the possibility of an electric shock. Disconnect the power until the fault has been identified and corrected.

**IMPORTANT:** Failure to wait 30 seconds before resetting the GFCI may cause the hot tub's Power Indicator (on the control panel) to blink. If this occurs, repeat the GFCI test procedure.

## **DANGER: RISK OF ELECTRICAL SHOCK**

- Install hot tub at least 5 feet (1.5 m) from all metal surfaces. A hot tub may be installed within 5 feet (1.5 m) of a metal surface if each metal surface is permanently connected by a minimum No. 10 AWG solid copper conductor attached to the wire ground connector on the terminal box that is provided for this purpose if in accordance with National Electrical Code ANSI/NMFA70-1993.
- Do not permit any electrical appliances, such as a light, telephone, radio, or television within 5 feet (1.5 m) of a hot tub. Failure to maintain a safe distance may result in death or serious personal injury due to electrocution if the appliance should fall into the hot tub.
- Install your hot tub in such a way that drainage is away from the electrical compartment and from all electrical components.

## **DO:**

- Be sure your hot tub is connected to the power supply correctly - use a licensed electrical contractor.
- Disconnect the hot tub from the power supply before draining the hot tub or servicing the electrical components.
- Test the Ground Fault Circuit Interrupter before each use.

# SAFETY INFORMATION

## ***DON'T:***

- Use the hot tub with the equipment compartment door removed.
- Place electrical appliances within 5 feet (1.5m) of the hot tub.
- Use an extension cord to connect the hot tub to its power source. The cord may not be properly grounded and the connection is a shock hazard. An extension cord may cause a voltage drop, which will cause overheating of the jet pump motor and motor damage.
- Attempt to open the electrical control box. There are no user serviceable parts inside.

## ***RISKS TO AVOID***

### ***⚠ DANGER: RISK OF INJURY***

- DO NOT sit in the filter compartment area. Sitting in this area can cause:
    - a) Restriction of Filter Pump suction/vacuum
    - b) Damage to components
  - Both can result in bodily harm. Should damage occur to components in this area, replace immediately!
- To reduce the risk of injury to persons, DO NOT remove floating weir, basket, and filter located in the filter compartment while the hot tub is running.

- The suction fittings in the hot tub are sized to match the specific water flow created by the pump. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.
- There is a danger of slipping and falling. Remember that wet surfaces can be very slippery. Take care when entering or exiting the hot tub.
- Never operate hot tub if the suction fittings are broken or missing.
- The device should not be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they receive supervision or training.
- People with infectious diseases should not use the hot tub.
- Keep any loose articles of clothing or hanging jewelry away from rotating jets or other moving components.

### ***Increased side effects of medication***

- The use of drugs, alcohol or medication before or during hot tub use may lead to unconsciousness with the possibility of drowning.
- Persons using medications should consult a physician before using a hot tub; some medication may cause a user to become drowsy, while other medication may affect heart rate, blood pressure, and circulation.
- Persons taking medications which induce drowsiness, such as tranquilizers, antihistamines or anticoagulants should not use the hot tub.

### ***Health problems affected by hot tub use***

- Pregnant women should consult a physician before using hot tub.
- 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 hot tub.

### ***Unclean water***

- Keep the water clean and sanitized with correct chemical care. The recommended levels for your hot tub are:

Free Available Chlorine (FAC):	3.0 - 5.0 ppm	Total Alkalinity:	40 - 120 ppm
Water pH:	7.2 - 7.8	Calcium Hardness:	75 - 150 ppm

**IMPORTANT:** Turn jet pump on for at least ten minutes after adding ANY hot tub water chemicals into the filter compartment.

- Clean the filter cartridge monthly to remove debris and mineral buildup which may affect the performance of the hydromassage jets, limit the flow, or trip the high-limit thermostat which will turn off the entire hot tub.

# SAFETY INFORMATION

## ***AVOIDING THE RISK OF HYPERTHERMIA***

Prolonged immersion in hot water can result in HYPERTHERMIA, a dangerous condition which occurs when the internal temperature of the body reaches a level above normal 98.6°F (37°C). The symptoms of hyperthermia include unawareness of impending hazard, failure to perceive heat, failure to recognize the need to exit the hot tub, physical inability to exit the hot tub, fetal damage in pregnant women, and unconsciousness resulting in a danger of drowning.

### ***⚠ WARNING:***

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

### ***TO REDUCE THE RISK OF INJURY:***

- The water in the hot tub 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 extended use (exceeding 10 minutes) and for young children. Extended use can cause hyperthermia.
- Pregnant or possibly pregnant women should limit hot tub water temperatures to 100°F (38°C). Failure to do so may result in permanent injury to your baby.
- Do not use hot tub immediately following strenuous exercise.

## ***AVOIDING THE RISK OF SKIN BURNS:***

- To reduce the risk of injury, before entering a hot tub the user should measure the water temperature with an accurate thermometer.
- Test the water with your hand before entering the hot tub to be sure it's comfortable.

### ***SAFETY SIGN:***

A SAFETY SIGN is included in the owner's package. The sign, which is required as a condition of Product Listing, should be permanently installed where it is visible to the users of the hot tub.

## ***IMPORTANT HOT TUB INSTRUCTIONS***

The following contains important hot tub information, and we strongly encourage you to read and apply them.

### ***DO:***

- Use and lock the vinyl cover when the hot tub is not in use, whether it is empty or full.
- Follow the hot tub Care and Maintenance recommendations stated in this manual.
- Use only approved accessories and recommended hot tub chemicals and cleaners.

### ***DON'T:***

- Leave the hot tub exposed to the sun without water or the vinyl cover in place. Exposure to direct sunlight can cause solar distress of the shell material.
- Roll or slide the hot tub on its side. This will damage the siding.
- Lift or drag the cover by using the cover lock straps; always lift or carry the cover by using the handles.
- Attempt to open the electrical control box. There are no user serviceable parts inside. Opening of the control box by the hot tub owner will void the warranty. If you have an operational problem, carefully go through the steps outlined in the Troubleshooting section. If you are not able to resolve the problem, contact your authorized dealer. Many problems can easily be diagnosed over the telephone by an Authorized Service Technician.

## ***PLANNING A LOCATION FOR YOUR HOT TUB***

Consider these things when determining where to place your hot tub.

### ***SAFETY FIRST:***

Make sure your hot tub is positioned so access to the equipment compartment and side panels will not be blocked. Be certain your installation will meet all city and local safety codes and requirements.

### ***PLANNED USE OF HOT TUB:***

How you intend to use your hot tub will help you determine where you should position the hot tub. For example, will you use it more for recreational or therapeutic purposes? If your hot tub is mainly for family recreation, leave plenty of room around it for activity and lawn furniture. If you will use it more for relaxation and therapy, you'll probably want to create privacy around the hot tub.

### ***PRIVACY:***

Think of your surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors when you plan the location of your hot tub.

### ***VIEWS:***

Think about the direction you will be facing when sitting in your hot tub. Do you have a special landscape you will find enjoyable? Perhaps there is an area that has a soothing breeze during the day or a lovely sunset in the evening.

### ***ENVIRONMENT:***

If you live in a climate with a snowy winter and hot summer, a place to change clothes or a house entry near the hot tub is convenient. A warmer climate may require shade from the hot sun. Consider placement of trees, shrubs, patio cover or perhaps a gazebo structure to provide what you will need. Indoor installations require adequate ventilation. When the hot tub is in use, considerable amounts of moisture are produced. This moisture can damage walls and ceiling surfaces over time. Special paint is available to resist moisture damage. Remember that hot tubs periodically require drainage, so plan your environment accordingly.

### ***KEEP CLEAN:***

Prevent dirt and foliage from being tracked into your hot tub by utilizing concrete for paths and access areas. Check the location of spill paths from gutters, trees, and shrubs.

### ***SERVICE ACCESS:***

Many people choose to install tile or custom wood around their hot tubs. If you are installing your tub with custom decorative trimming, remember to allow for access to it for service. Should you need service, a technician may need to remove the tub's door panel, or access it from beneath. It is always best to design special installations so the hot tub can still be moved, or lifted from the ground.

### ***A GOOD FOUNDATION:***

Your new hot tub needs a good solid foundation. The area your hot tub sits on must be able to support the hot tub, the water in it and those who use it. If the foundation is inadequate, it may shift or settle after the hot tub is in place, causing stress to the shell or components. **NOTE:** Do not shim your hot tub in any manner, as this could cause the cabinet to warp and shell to crack, thereby voiding the warranty.



# INSTALLATION

## ***BE AWARE:***

Damage caused by inadequate or improper foundation support is not covered by the hot tub warranty. It is the sole responsibility of the hot tub owner to provide a proper foundation for the hot tub.

Make sure the foundation where the hot tub is placed drains water away from the hot tub. Proper drainage will keep components dry from rain and wet weather.

Your hot tub weight must always be considered when installing your hot tub. If you are installing it on an elevated wood deck or other structure, it is advisable to consult a structural engineer or contractor to ensure the structure will support the weight.

## **IT IS STRONGLY RECOMMENDED THAT A QUALIFIED, LICENSED CONTRACTOR PREPARE THE FOUNDATION FOR YOUR HOT TUB.**

A reinforced concrete pad at least four inches thick is recommended for your hot tub. The reinforcing rod or mesh in the pad should be attached to a bond wire.

## ***INDOOR INSTALLATION:***

Be aware of some special requirements if you place your hot tub indoors. Water will accumulate around the hot tub, so flooring materials must provide a good grip when wet. Proper drainage is essential to prevent a build-up of water around the hot tub. When building a new room for the hot tub, it is recommended that a floor drain be installed. The humidity will naturally increase with the hot tub installed. Water may get into woodwork and produce dryrot, mildew, or other problems. Check for airborne moisture's effects on exposed wood, paper, etc. in the room. To minimize these effects, it is best to provide plenty of ventilation to the hot tub area. An architect can help to determine if more ventilation must be installed.

## ***PLACING THE HOT TUB***

### ***CHECK THE DIMENSIONS OF YOUR HOT TUB:***

Compare the hot tub dimensions to the width of gates, sidewalks, and doorways along the delivery route used to bring the hot tub into your yard. It may be necessary for you to remove a gate or partially remove a fence in order to provide an unobstructed passageway to the installation location. Also, keep in mind—if you are using special equipment to place your hot tub into an area it will be necessary to include those measurements and weights.

### ***PLANNING A DELIVERY ROUTE:***

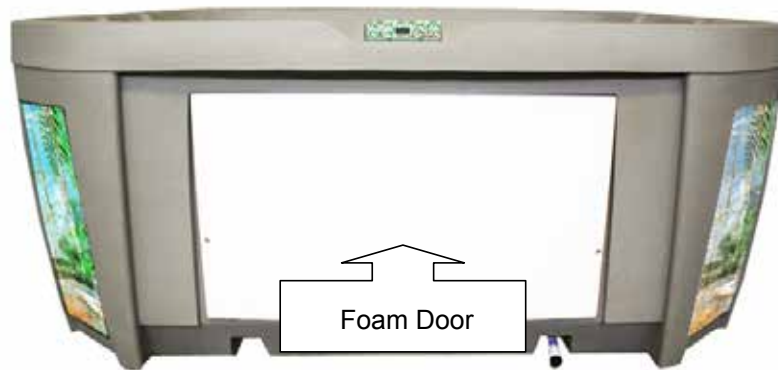
Check the width of gates, doors and sidewalks to make sure your hot tub will pass through unobstructed. You may have to remove a gate or part of a fence to allow for adequate width clearance. If the delivery route will require a 90-degree turn, check the measurements at the turn to ensure the hot tub will fit. Check for protruding gas meters, water meters, A/C units, etc., on your home which will cause obstructions along the delivery path to your yard. Check for low roof eaves, over hanging branches or rain gutters that could be an obstruction to overhead clearances.

### ***SPECIAL CIRCUMSTANCES:***

The use of a crane for delivery and installation is primarily to avoid injury to your hot tub, your property or to delivery personnel. Cranes are not considered "normal delivery".

# EQUIPMENT ACCESS

## ***EQUIPMENT ACCESS PANEL***



To access the equipment compartment:

- Remove screws from Equipment Access Panel Door then remove door.
- Remove screws from foam Door to access Equipment Compartment.

# ELECTRICAL REQUIREMENTS

## ***ELECTRICAL REQUIREMENT***

**⚠ DO NOT POWER THE HOT TUB WITHOUT FIRST FILLING WITH WATER!**

**⚠ DANGER – RISK OF ELECTRIC SHOCK**

Installations that do not conform to the following procedures and requirements may expose users to electric shock. Non-conforming installations will not be covered under warranty.

If installed in the United States, the electrical wiring of this hot tub must meet the requirements of the National Electric Code (NEC) and any applicable state or local codes. The electrical circuit must be installed by an electrical contractor and approved by a local building electrical inspection authority.

1. Installations within 5 feet (1.5 m) of any metal surfaces must ground the metal surfaces to the hot tub. Use an 8 AWG solid copper wire and attach it to the grounding lug on the control box, located in the equipment compartment.
  2. Only a licensed electrician may install power to the hot tub.
  3. Power supply installation must include a suitably rated ground fault circuit interrupter (GFCI) as required by NEC Article 680-42. The circuit breaker must be dedicated and should not be shared with any other appliances. It must be labeled and easily accessible to users.
  4. The electrical supply for the hot tub must include a suitable rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electric Code, ANSI/NFPA 70. The disconnecting means must be readily accessible to the hot tub's occupant but installed at least 5 feet (1.5 m) from the hot tub water.
  5. 230V Power supply lines must be hard wired into the control box. DO NOT use extension or plug-type cords of any kind. The use of a shut-off box near the hot tub is also recommended. This box provides a quick and convenient method to shut off power to the hot tub for emergencies and maintenance.
  6. Supply lines must be properly sized as per the NEC. A ground line must be provided that is as large as the largest current carrying conductor, but no less than 8 AWG. Use copper wiring only.
  7. Please open the front cover of the control box, and follow the instructions and wiring diagram printed on the backside.
  8. All 110 V powered models must use the provided 15 foot (3 m) GFCI cord and be plugged directly into a dedicated grounded wall outlet.
  9. CAUTION, 230V POWERED HOT TUBS – These hot tubs must be hard wired to your household electrical service box only. Do not use an extension cord or any other disconnectable power cord. The use of an extension cord or a disconnectable power cord is highly dangerous and will void all warranties!
- Wire size must be appropriate per NEC and/or local codes.
  - Wire size is determined by length of run from breaker box to hot tub and maximum current draw.
  - THHN copper core wire is recommended.
  - All wiring must be copper to ensure adequate connections. Do not use aluminum wire.



# ELECTRICAL REQUIREMENTS

## CONFIGURING SYSTEM

### SELECTING THE SUPPLY VOLTAGE FOR YOUR HOT TUB

Your hot tub is designed to operate at either 110V 15 amp; 110V 30 amp, or 230V 50 amp circuit.

- When the hot tub is setup for 110V 15 amp, the heater will provide approximately 1000 watts of heat only when the pump is operating in LOW speed and the thermostat is calling for heat (NOTE: The heater does not operate when the pump is on high speed).
- When the hot tub is connected to 110V 30 amp, the heater will provide approximately 1000 watts of heat when the pump is operating in LOW or HIGH speed and the thermostat is calling for heat.
- When the hot tub is connected to 230 volts, the heater will provide approximately 4000 watts of heat when the pump is operating in LOW or HIGH speed and the thermostat is calling for heat.

All electrical connections must be made in accordance with the wiring information contained on the electrical control box cover and the National Electrical Code.

### 110 VOLT INSTALLATION (CORD CONNECTED)

Hot tubs come with a factory-installed power supply GFCI cord and are to be plugged into a grounded type 110 volt, 15 ampere receptacle. No other electrical appliance or fixture can be used on this circuit.

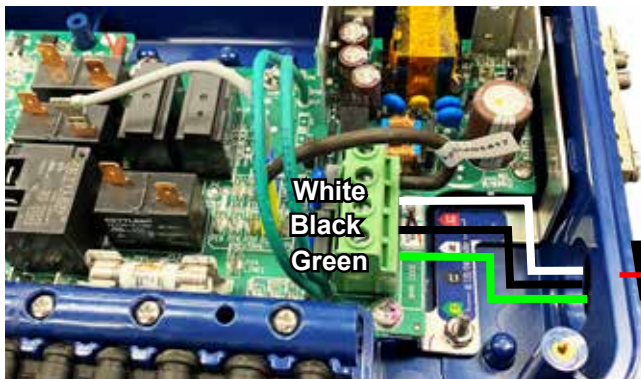
**IMPORTANT:** Under **NO** circumstances should an extension cord be used. Use of an extension cord will seriously degrade the performance of the equipment and can create an electrical hazard.

### 110 VOLT 30 AMP OR 230 VOLT 50 AMP (PERMANENTLY CONNECTED FIELD CONVERSION)

- A 110 volt, 30 amp configuration requires a 30 amp GFCI Subpanel box (not included).
- A 230 volt, 50 amp configuration requires a 50 amp GFCI Subpanel (not included)

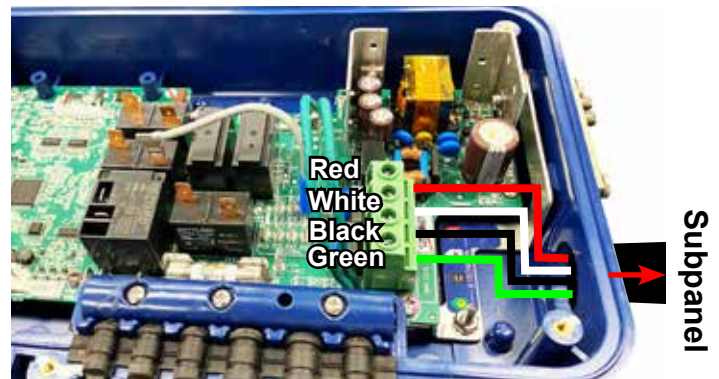
Either one of these installation requires a licensed electrician.

#### Field Converted 110V Control Box



To convert, remove the cord from the terminal block and replace with White, Black and Green #10 wires and connect to 30 amp GFCI Subpanel.

#### Field Converted 110/230V Control Box



To convert, remove the cord and brown jumper wire from the terminal block. Remove other end of brown wire from connector and remove from box. Place Red, White, Black and Green #8 wires onto terminal block and connect other end to 50 amp GFCI Subpanel.

**IMPORTANT:** After powering up the hot tub on 110V 30 amp or 230V 50 amp field conversions, a **program configuration is required**. Press and Hold JETS button for 30 seconds to access the Low Level (LL) settings on the control panel. Use the +/- button to change the setting from LL1 Factory Default (non concurrent heat and high speed) to LL2 (concurrent Heater and High Speed pump) configuration. Press the LIGHT button within 25 seconds to save the new program setting.



# ELECTRICAL REQUIREMENTS

## ELECTRICAL WIRING DIAGRAM FOR 230V USE

It is recommended that a licensed electrician install the power to your hot tub in accordance with the National Electric Code and/or any local electrical codes in effect at the time of installation.

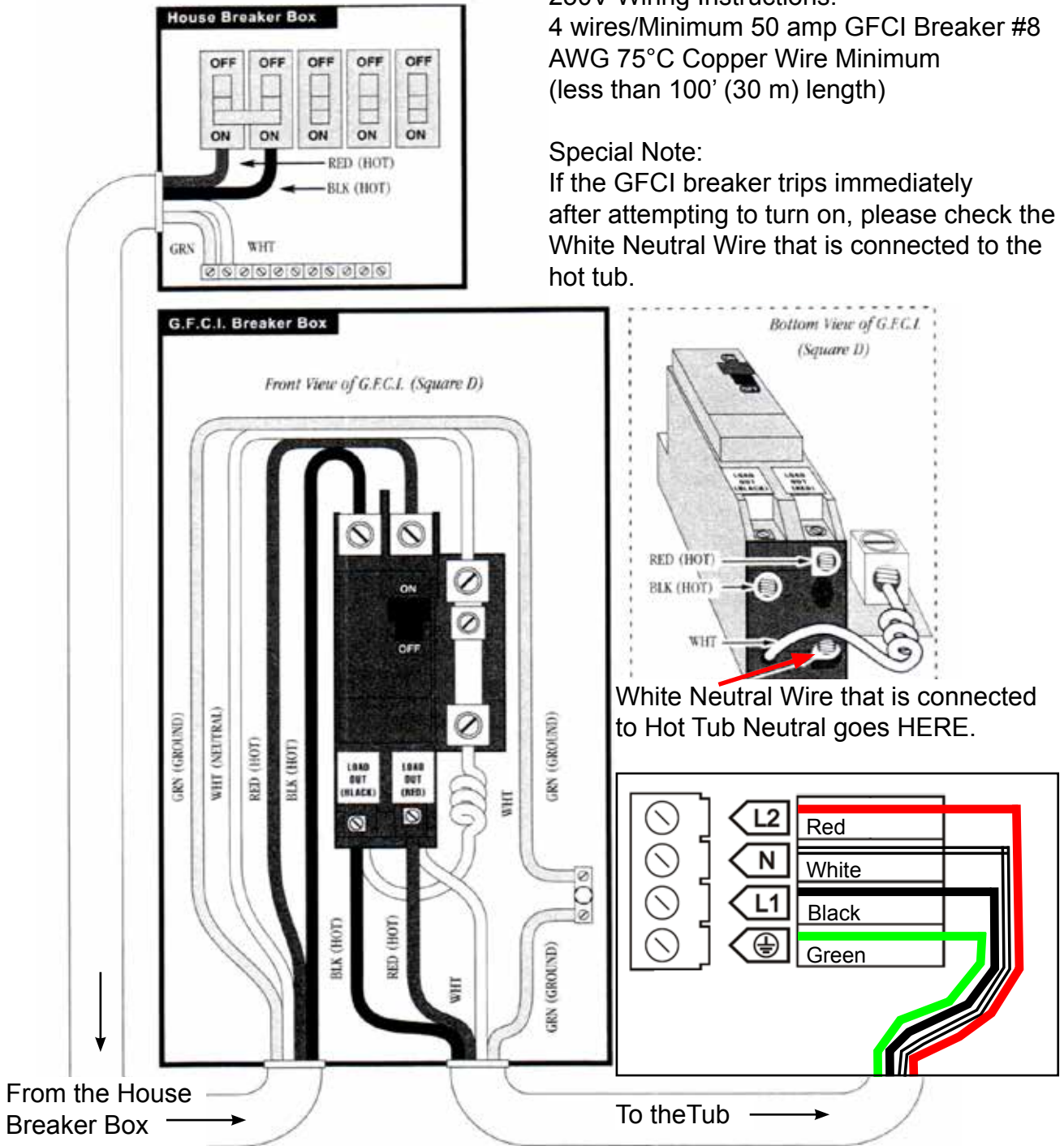
Power supply installation must include a properly rated GFCI circuit breaker. The circuit must be dedicated and should not be shared with any other appliances. The power supply must be hard wired into the power pack.

### 230V Wiring Instructions:

4 wires/Minimum 50 amp GFCI Breaker #8 AWG 75°C Copper Wire Minimum (less than 100' (30 m) length)

### Special Note:

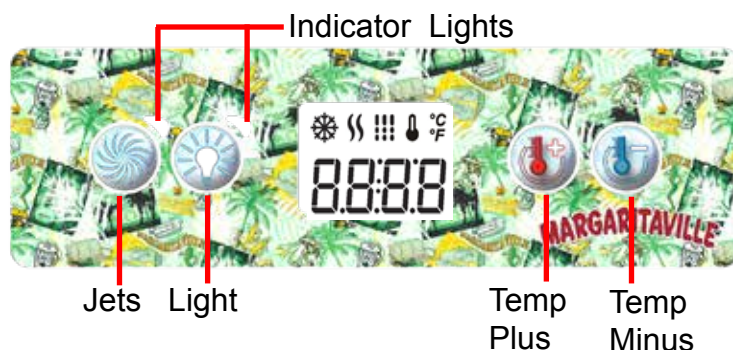
If the GFCI breaker trips immediately after attempting to turn on, please check the White Neutral Wire that is connected to the hot tub.






# CONTROL PANEL OPERATION



**INITIAL START-UP** - When the hot tub is first powered up the control system begins a 2 minute Startup Mode. Different codes will display on the screen. Once Startup Mode completes, the actual temperature is displayed on the screen, and the hot tub will then begin to heat and maintain the water temperature and the first filter cycle will start. Your hot tub has been designed so that it will automatically heat the water to the factory set temperature of 100°F (38°C) unless you set the hot tub to a different temperature. If power is disconnected from the hot tub, it will automatically revert back to the last saved set temperature when power is reapplied.



## TEMPERATURE ADJUSTMENT

The temperature can only function between 80°F - 104°F (26.5°C - 40°C). The last measured temperature will constantly display on LCD.

Press the *Plus* or *Minus* buttons to display the set temperature and indicator . Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After five seconds, the LCD will automatically display the current hot tub temperature.

The “heater” indicator  lights up when the heater is on. It flashes when there is a request for more heat, but the heater is not on. Once set temperature is reached the indicator  shuts off and the low speed of the jet pump turns off after 30 seconds (if not in filter cycle).

## JETS OPERATION


Firmly press the *Jets* button once to activate the low speed of the pump and again for the high speed. Firmly press the *Jets* button again to turn off the pump. If left running the low or high speed pump will automatically turn off after 1 hour. The "Jets" indicator light next to the button will blink when jet pump is on low speed and is solid on high speed.

## MULTI COLOR LED LIGHT

Press the *Light* button once to turn on the light, the light indicator next to the button is lit when the light is on. Press the button again to turn the light off. Every time the light is quickly turned off and on a new light mode will appear. The sequence is as follows: White, Full color wheel, Amber, Blue, Red, Green, Purple, Color wheel 1, Color wheel 2 and Abrupt color wheel. The last light mode used will come back on when the light is turned off for more than 2 seconds.

**NOTE:** If left on, the light will automatically turn off after 4 hours of operation.

## FILTER CYCLES

There are two filter cycles: the first cycle (F1) starts right after power up and the second cycle (F2) will start 12 hours later. The default duration for the first filter cycle is 1 hour, and 30 minutes for the second cycle. Filter cycles only run at low speed. The “Filter” indicator  lights up when a filter cycle is on. The duration of each filter cycle can be modified.

# CONTROL PANEL OPERATION

## **ADJUSTING PRESET FILTER CYCLES**

Filter duration is programmable between 0.5 and 6 hours in 30 minute increments for both filter cycles. To program the cycle times:

1. Press and hold *Light* button for 5 seconds until F1 is displayed.
2. Press the *Plus* or *Minus* button to adjust the cycle time for F1.
3. Press the *Light* button to store the F1 cycle and move to the F2 cycle.
4. Press the *Plus* or *Minus* button to adjust the cycle time for F2.
5. Wait 15 seconds to allow the exit timer to expire and store the setting.

**IMPORTANT:** To reset the first filter cycle start time, skip step 5 and continue pressing the *Light* button until the actual temperature is displayed. Powering down of the hot tub will also reset the first filter start time.

**FILTER CYCLE SUSPENSION:** The filter cycle will be suspended every time a jet pump or light is activated manually during the filter cycle time. The suspension will end 10 minutes after the completion of the manual use.

## **OPERATIONAL MODES**

The Standard Mode is the default operational mode preset from the factory. In order to program the hot tub to operate in the Economy mode you must enter the programming mode to make the change.

**NOTE:** Freeze Protection (Smart Winter Mode) will assert as necessary during all modes.

**STANDARD MODE:** Is programmed to maintain the desired temperature with periodic water circulation (sampling) to sample and heat the water to the set temperature

**ECONOMY MODE:** This will reduce the set temperature of the hot tub by 20°F (11°C). Water sampling and heating of the water is only done during the filter cycles.

**SLEEP MODE:** Water sampling and heating is only done during the filter cycles while trying to bring the hot tub water up to the set temperature.

**QUIET MODE:** Maintains temperature with periodic sampling between the start of F1 and the end of F2 while not allowing any water sampling to happen between the end of F2 and the start of F1.

To enter the programming screen and toggle between Standard, Economy, Sleep and Quiet Modes the following is required:

1. Press and hold the *Light* button for 5 seconds
2. Press the *Light* button several times until St, Ec, SL, or nt is displayed.
3. Use the *Plus* or *Minus* button to choose between the Modes.  
St = Standard Mode, Ec = Economy Mode, SL = Sleep Mode and nt = Quiet Mode.
4. Wait 15 seconds to allow the exit timer to expire and store the setting.

**OFF MODE:** This mode allows you to stop all hot tub functions for 30 minutes to perform quick hot tub maintenance. To place the hot tub in OFF MODE, press and hold the Jets button for 5 seconds. The display will toggle between OFF and water temperature when in the OFF MODE. To stop the OFF MODE before the 30 minute cycle time is complete, simply tap (short press) the Jet button.

## **FAHRENHEIT/CELSIUS SETTING:**

To change water temperature display to either Fahrenheit or Celsius, press and hold *Light* button for 5 seconds until F1... is displayed. Press the *Light* button several times until F or C  $\frac{\circ}{F}$  is displayed. Press the *Plus* or *Minus* button to change. Wait 15 seconds to allow the exit timer to expire and store the setting.

## CONTROL PANEL OPERATION

### SMART WINTER MODE ❄️

The Smart Winter Mode (SWM) is used to prevent water from freezing in the plumbing of the hot tub. As soon as there is a risk of freezing, this protection automatically kicks in. The SWM protection will turn back off only after 24 hours without a risk of freezing. During this 24 hour period, the Smart Winter Mode icon remains on; the icon blinks when the purge is active..

### DIAGNOSTIC LCD MESSAGE

Message	Meaning	Action Required
	No message on display. Power has been cut off to the hot tub.	The control panel will be disabled until power returns. hot tub settings will be preserved until next power up.
HL	The system has shut the heater off because the temperature at the heater has reached 122°F (50°C). Do not enter the water!	DO NOT ENTER THE WATER. Remove the hot tub cover and allow the water to cool down, then shut power off and power your hot tub up again to reset the system. If hot tub does not reset, shut off the power to the hot tub and call Customer Service.
AOH	Temperature inside the equipment compartment is too high 194F (90°C), causing the internal temperature in the control system to increase above normal limits.	Open equipment compartment and wait until error clears.
PRR	A problem is detected with the temperature probe.	Call your Dealer or service supplier.
OH	The water temperature in the hot tub has reached 108°F (42°C). Do not enter the water!	Remove the hot tub cover and allow the water to cool down to a lower temperature. Call your Dealer or service supplier if problem persists.
UPL	No low level configuration software has been installed into the system.	Call your Dealer or service supplier.
FLO	No water flow is detected by the control system but flow is expected.	Make sure that the jet pump is running and water is flowing; check and clean filters; make sure water valves are open; make sure hot tub has a proper water level. If problem persists, call your Dealer or service supplier.

**⚠️ WARNING! SHOCK HAZARD! NO USER SERVICEABLE PARTS.**

Do not attempt service of the control box. Contact Customer Service for assistance. Follow all owner manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

**⚠️ WARNING! DO NOT ENTER HOT TUB IF WATER IS TOO HOT**

**Water is too hot.** Overheat protection heater is deactivated. Hot tub water temperature is above acceptable limits. When the actual water temperature is approximately 2° F (1° C) above the set temperature, the jet pump will stop operating to reduce (frictional) heating. If the hot tub water temperature continues to rise and gets above 108° F (42°C), the hot tub will go into an “OH” overheat condition.

## ***HOT TUB COMPONENT OPERATION***

### ***AIR CONTROL VALVE***

The air control valve serves to regulate the amount of air mixed with the water when the jets are operational. Turn the air control valves in one direction to increased jet action. Rotating the air control in the opposite direction to turn air off and allow the jets to work with water only. Turn the air controls off when the hot tub is not in use, this will prevent cold air from entering the hot tub and will keep heating cost to a minimum. When equipped with Ozone, the ozone jet will always produce air bubbles when pump is on.

### ***DIVERTER VALVE (WHEN EQUIPPED)***

The diverter valve on your hot tub allows you to direct the flow of water to one of the jet flow combinations. The function of the diverter valve can best be learned by experimentation. Turn the large valve completely to one side to see which jets are on, then turn completely to the other to see which jets are affected (you can adjust the diverter valve to any position between the two possible extremes to achieve the jet pressure that feels best to you).

**IMPORTANT:** Your hot tub is not designed to provide full power to all jets when the diverter valves are in the “mid” position. However with the diverter valve in this position, you may increase the power to selected jets by rotating the faces of the hydrotherapy jets to close the ones that are not in use.

### ***HYDROTHERAPY JETS***

The hydrotherapy jets are recessed in the wall of the hot tub. Rotate the medium jet faces to turn the jets on or off. Turning a jet on or off will increase or decrease the effects of any jets not in the closed position.

### ***OZONE GENERATOR (WHEN EQUIPPED)***

The ozone system enhances the quality of the hot tub water when used to supplement the hot tub owner’s regular water maintenance program. Contrary to some information circulated throughout the pool and hot tub industry regarding ozone systems, ozone **CAN'T** be used as a single-source sanitizer, water clarifier, anti-foamer, and mineral chelating agent. A secondary source sanitizer must be used to maintain 3.0 -5.0 ppm of Free Available Chlorine (FAC). Watkins Wellness recommends that a chemical maintenance program based on recognized and documented industry standards still be followed when using an ozone purification system to assure water sanitation and the highest quality purified water.

### ***WATERFALL***

Your hot tub has a control valve to operate the amount of flow through the waterfall from no flow to a steady stream. This valve is located next to or on the waterfall. **Note:** The air control valve and the waterfall flow valve may look the same, however; they will be separate components.

### ***WHIRLPOOL JET (WHEN EQUIPPED)***

The Whirlpool Jet is located below the water line at or near the control panel area, in the wall. This jet is a diverter valve and high capacity jet that has a larger diameter than the hydrotherapy jets. The whirlpool jet is turned on and off by rotating the jet face. Because, there is a substantial amount of water pressure when the jet is in operation, you must turn the pump off or to low speed before attempting to rotate the jet face. As the whirlpool jet open position is increased it will begin turning off most of the hydrotherapy jets. One of the two air control valves is dedicated to this jet.

# FILL-UP AND START-UP INSTRUCTIONS

The following procedures should be followed on initial startup and whenever the hot tub is drained for routine maintenance.

## **FILLING THE HOT TUB WITH WATER**

1. Clear all the debris from your hot tub.
2. Be sure to open all jets to allow as much air as possible to escape from the plumbing during the filling process.
3. Insert a garden hose into filter compartment to fill your hot tub.

**NOTE:** Do not use hot or softened water.

4. As the water level rises, check inside the equipment compartment for water leaks. It may be necessary to tighten unions and/or fittings that may have loosened during delivery. There is no need to call for service; this can easily be done. If assistance is required, contact a Customer Service representative at (888) 961-7727 Ext. 8440.
5. Under normal circumstances keep the water level half way between the top of the hot tub and the top of the gray filter ring or just above the highest jets (whichever is higher).



**UNIONS**

Failure to keep enough water in your hot tub may result in damage to your system and invalidate your warranty. If your hot tub filter is sucking in air causing the pump to cavitate, you need to add water!

6. Check the filter installation and make sure the filter is not loose.

## **APPLYING POWER**

1. Turn power to hot tub "ON" (after filling hot tub) from the main panel at the house and the subpanel.
2. Press the *Jets* button on the topside control panel to activate the hot tub. Rotate all the air control valves counterclockwise and observe the increased jet action (air mixed with water).
3. While the pump is running check again for water leaks at the drain spigot, unions, or fittings in the equipment compartment (leaks may have occurred during transit). If water is leaking from one of these areas, there is no need to call for service. Simply tighten the fitting. If assistance is required, call a Customer Service representative at (888) 961-7727 Ext. 8440.
4. After checking your hot tub for leaks it is now time to adjust your hot tub settings. Press the *Plus* or *Minus* button on your topside control panel until the display indicates your desired temperature is set.



## WATER CHEMISTRY GUIDELINES

Spa water chemistry is ultimately the responsibility of the spa owner. Improper water chemistry may result in costly repairs not covered under the spa warranty. If unsure about any step in the process, please contact a Customer Care Associate at (888) 961-7727 Ext. 8440 or by email at [ahsservice@watkinsmfg.com](mailto:ahsservice@watkinsmfg.com).

Initially, it is advisable to identify what minerals (e.g. iron) are present in the local source water. This will provide a better understanding of how to treat the water. Please follow the four steps below and be sure to achieve the correct levels in each area before moving onto the next step.

### STEP #1: ESTABLISH PROPER PH LEVEL:

The recommended range for pH is between 7.2 and 7.8. Above 7.8, the water is too alkaline and can result in cloudy water, and scale formation on the shell and heater. To lower the pH use a pH Down/Decreaser (sodium bisulfate). Below 7.0 (considered neutral), the spa water is too acidic and can damage the heating system. To increase pH, use a pH Up/Increaser (sodium hydrogen carbonate). Any pH Up or Down should be added one teaspoon at a time, waiting one-half hour between application and re-measuring.

### STEP #2: MEASURE TOTAL ALKALINITY:

The Total Alkalinity is the amount of bicarbonates, carbonates, and hydroxides present in the spa water. Proper total alkalinity is important for pH control. If the TA is too high, the pH is difficult to adjust. If the TA is too low, the pH will be difficult to hold at the proper level. The ideal range is between 40-120 parts per million (ppm). Reduce TA by using an Alkalinity Down/Decreaser (sodium bisulfate). Increased TA by adding an Alkalinity Up/Increaser (sodium bicarbonate or sodium hydrogen carbonate). These products should be added in small amounts – 5 ml at a time. After adding 5 ml, wait one half hour before re-measuring. Once the safe range of total alkalinity is established, proceed to the next step.

### STEP #3: DETERMINE CALCIUM HARDNESS:

It is important to bring the calcium reading to between 75-150 ppm. If the reading requires adjustment, it should now be corrected. If the water is too soft (a low reading) calcium hardness should be added to the water to increase the ppm reading. If the water is too hard (a high reading), it can be corrected by either: (A) a mixture of hard and soft water added to attain a reading in the safe range, or (B) addition of stain and scale control. If calcium hardness is a problem with the local source water (either too hard or too soft) a test kit, which measures calcium hardness, is essential.

### STEP #4: SANITIZING:

After steps 1-3 are complete, **the hot tub must be sanitized using Chlorine (sodium dichlor)**. Add 2 teaspoons of Chlorine, and increase as necessary to reach a level of 3-5 ppm. Check and maintain this level weekly, and before and after using the hot tub. **IMPORTANT NOTE:** *A granulated sodium dichlor is highly recommended for sanitizing hot tub water, granular bromine may also be used. Never use compressed sanitizers even with a floater. As with any other chemicals, the sanitizer should be introduced to the hot tub with the jets running for 10 minutes.*

### WEEKLY SHOCK:

Using a potassium monopersulfate (MPS) shock, add approximately 2 oz (60 ml). spreading it over the water while the jets are running. Shocking is achieved by adding the MPS to turbulent water. Leave the cover up and jets on high for 10 minutes. Then shut jets off and return the cover to the closed position to maintain heat.

# HOT TUB MAINTENANCE

## ***FILTER CARTRIDGE MAINTENANCE***

Every month, the filter cartridge should be cleaned to remove the objects and particles that have lodged in the cartridge pleats. Using household water pressure and a garden hose with a pressurized nozzle, push water from inside to outside of the pleats, forcing all the trapped particles out. **NOTE:** Never run your hot tub without a filter cartridge!!! This will invalidate your warranty. **NOTE:** Filter cartridges should be replaced every six to eight months or earlier when needed. Dirty filters can cause your hot tub pump to burn out and will invalidate your warranty.

## ***FILTER CARTRIDGE REMOVAL AND CLEANING INSTRUCTIONS***

Hot tub uses a screw in filter cartridge that is easily removed.

- Turn off the power to the hot tub, (by turning OFF the subpanel breaker or unplug hot tub).
- Push down slightly and turn filter basket counter clockwise to unlock, then pull the basket and weir out.
- Unscrew the filter cartridge counter clockwise and bring it out of the hot tub (requires many turns).
- Rinse cartridge using a garden hose. Rotate and separate filter pleats while spraying water to remove all dirt and debris possible. Let filter dry and look for calcium deposits (scaling) or an oil film. If you find these, you will need to deep clean your filter cartridge with a “hot tub filter cleaner” solution to break down and remove unwanted deposits and oils. (For longer filter life you should soak filter in solution regularly).

**CAUTION!** Always use proper eye protection when using chemicals, or high-pressure water. Read instructions on cleaning products and follow applicable safety and warning instructions listed on label.

**CAUTION!** Never scrub the filter cartridge with a brush, as this will cause the filter to wear out and come apart. Never let the hot tub pump run without a filter cartridge in the skimmer compartment. Running the hot tub without a filter cartridge may permit debris to enter the hot tub plumbing and void the warranty!

- Replace filter cartridge, then reinstall basket and weir, (insert and rotate clockwise to lock into position). **DO NOT OVERTIGHTEN!**
- Turn hot tub’s power back on.



# HOT TUB MAINTENANCE

## ***SURFACE CARE***

Do not use solvents or abrasive cleaners to clean the hot tub. Typically, a mild detergent and water will resolve cleaning issues.

**NOTE:** Rotomolded spas are made from a thick, durable plastic that may bend or flex slightly over time. This slight fluctuation is purely cosmetic and does not impact the structure integrity or function of the spa.

## ***COVER CARE***

Please keep your cover free from dirt at all times. Use a cover cleaner or a warm, mild soapy water to clean the surface. Do not use any silicone-based products, as it will dry and may eventually crack the vinyl. **NOTE:** Do not stand on the cover at any time. Remove the cover when adding chemicals to your hot tub. This will extend the life of your cover. The gasses from burned off chemicals will be trapped under the cover, if not removed. These gasses may erode the protective lining of the foam inserts. This will not be covered under warranty.

## ***CABINET CARE***

Little maintenance is required to keep your hot tub cabinet looking good.

Hot tub cabinet product should be cleaned as needed to remove dirt and debris.

- NO abrasive or harsh chemicals should be used on the hot tub's cabinet.
- NO solvents or cleaners containing aromatic solvents should be used on the hot tubs cabinet.
- Hot soapy water is the best choice for cleaning the hot tub's cabinet.

## ***HOT TUB LED REPLACEMENT***

- Turn OFF the power to the hot tub.
- Remove the equipment compartment access door.
- Locate the rear of the hot tub light.
- To remove the LED board, turn outside housing counter clockwise ¼ turn, and pull out and remove LED board from socket.
- Replace by reversing the above steps.



## DRAINING OR WINTERIZING

Every three to six months, depending upon the water condition, you need to renew your water.

### **CAUTION: READ THIS BEFORE DRAINING YOUR HOT TUB**

- To prevent damage to the hot tub's components, **UNPLUG GFCI CORD OR TURN OFF SUBPANEL BREAKER BEFORE DRAINING. Do not power back up until your hot tub has been refilled with water.**
- There are certain precautions to keep in mind when draining your hot tub. If it is extremely cold, and the hot tub is outdoors, freezing could occur in the plumbing or the equipment.
- Do not leave the hot tub's shell (inside surface) exposed to direct sunlight.

### **DRAINING YOUR HOT TUB**

- If draining for the first time, pull the hose bib out a few inches from the hot tub (located in the recess under the hot tub, just right/ below the equipment access door)
- Unscrew and remove the drain cap.
- Attach hose bib to a garden hose and direct to an appropriate draining area, keeping the hose below the water line.
- After your hot tub is empty, clean the shell and filter cartridge. See "hot tub Maintenance" section.
- After cleaning, remove garden hose, replace drain cap and push the hose bib back into the recess.
- Follow the "Fill up and Start-up Instructions" on page 15.



### **WINTERIZING YOUR HOT TUB**

If you plan to store your hot tub for the winter, you must also use a wet-vac to clean out the water lines to ensure they are free of any water. Water left in the lines might freeze and damage the lines and jets.

1. It will be necessary to remove all water from the interior plumbing.
2. Remove the floating weir, basket, and filter cartridge. Clean the filter cartridge and store in a dry place. Attach the vacuum hose to the **vacuum side** of the shop vac and thoroughly dry the filter compartment.
3. Using the shop vac, remove the water starting with the jets at the top and moving to the ones at the bottom of the hot tub. **NOTE:** When removing the water from jet openings, you may notice suction coming from another jet. With the help of a second person, block off any suction from the other jet using a large rag or cloth. This will help pull out the water that is trapped deep inside the main line.
4. Thoroughly dry the hot tub shell with a clean towel.
5. Using a funnel, pour Propylene glycol anti-freeze into the filter suction fittings and jet outlets. **CAUTION: Use only Propylene glycol as your anti-freeze. This is non-toxic. NEVER use automobile anti-freeze since it is toxic.**
6. Remove the pump drain plug located on the front of the pump housings. Allow all water to drain out. Place the drain plug in a reclosable plastic storage bag and store near the pump. Replace the drain plugs on start-up.
7. Unscrew the suction/discharge pump and heater unions and allow the water to drain. Leave union loose. **NOTE:** Tighten unions before filling hot tub.
8. Replace the equipment compartment door and secure with screws.

**Note:** Damage caused by improper winterizing will not be covered under warranty. You may want to contact Customer Service for proper winterizing.

## TROUBLESHOOTING PROCEDURES

In the event the hot tub is not working the way it should, please first review all the installation and operating instructions in this manual and check the message on the panel display. If you are still not satisfied it is working properly, please follow the appropriate troubleshooting instructions.

### **CAUTION! WARNING! SHOCK HAZARD! No User Serviceable Parts.**

Do not attempt service of the control box. Contact Customer Service for assistance. Follow all owner's manual power connection instructions.

### ***NO COMPONENT OPERATION***

Check the following:

1. Is there power to the hot tub?
2. Is the household circuit breaker tripped?
3. Is the subpanel (230V) or cord GFCI (110V) tripped?
4. If 1 is yes and 2 and 3 are no contact Dealer for assistance.

### ***PUMP DOES NOT OPERATE, BUT THE LIGHT DOES***

Press the *Jets* button:

The pump operates but no water flows to jets. Pump may not be properly primed. This can happen after the hot tub is drained and refilled. Press the *Jets* button several times, never leaving the motor on for more than 5-10 seconds at-a-time with no water coming of of jets.

### ***POOR JET ACTION***

1. Press the *Jets* button to make certain the pump is on.
2. Rotate all the air control valves counterclockwise and observe the increased jet action.
3. Make sure the water level is half way between top of hot tub and top of the gray filter ring.
4. Check for dirty filter. Clean, if necessary.
5. Make sure all jets are in the open position.

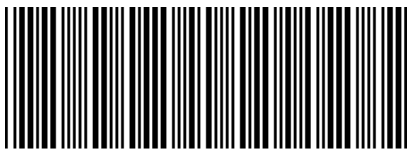
### ***WATER IS TOO HOT***

1. Check desired temperature on topside control.
2. Check for a Diagnostic Message (in Control Panel Operation section).  
**OH - Overheat (hot tub is deactivated) DO NOT ENTER THE WATER.**

If the hot tub has overheated you should remove the cover to promote heat reduction. The hot tub control system should reset itself when the water temperature reduces below 104°F (40°C). When the hot tub falls below the reset temperature you can push any button on the topside control to reset the control system. Under extreme and/or prolonged weather conditions it is possible for the ambient temperature to exceed 106F (41C); effecting the water temperature of the hot tub and causing it to overheat. These conditions could cause the hot tub sensors to produce an OH message and prevent the usage of your hot tub during these conditions. The location of your hot tub should be reconsidered to reduce the outside temperature around the hot tub. For example, you may need to prevent direct sunlight on any surface of your hot tub. Regardless, do not enter your hot tub if the temperature is above 104°F (40°C).

Should checking the above steps fail to correct the problem, please contact Customer Service at (888) 961-7727 Ext. 8440 or at [ahsservice@watkinsmfg.com](mailto:ahsservice@watkinsmfg.com).





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