



Portable Spa Owner's Operating Guide

Spa Model: _____

Serial Number: _____

Date of Purchase: _____

IMPORTANT SAFETY INSTRUCTIONS. READ AND FOLLOW ALL INSTRUCTIONS. SAVE THESE INSTRUCTIONS!

Consignes de sécurité importantes. Lire et suivre toutes les instructions. Sauvegarder ces instructions!

Read the entire owner's manual & safety instructions before operating the spa.

Lire l'intégralité du manuel du propriétaire & consignes de sécurité avant d'utiliser le spa.

When installing the spa, basic safety precautions should always be followed, including the following:

Lors de l'installation du spa, précautions de sécurité de base doit toujours être suivie, y compris les suivants :

WARNING: To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times by adults.

AVERTISSEMENT : pour réduire le risque de blessure, ne pas autoriser les enfants à utiliser ce produit, à moins qu'ils sont étroitement surveillés en permanence par des adultes.

WARNING: A grounding wire connector is provided on this unit to connect a minimum No. 8 AWG (8.4 mm2) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe or conduit within 5 feet (1.5 m) of the unit.

AVERTISSEMENT : un fil de terre Connecteur est fourni sur cette unité pour connecter un minimum no 8 AWG (8,4 mm2) conducteur en cuivre solide entre cette unité et les équipements métalliques, les métaux les pièces jointes des équipements électriques, conduite d'eau métalliques ou conduit à moins de 5 pieds (1,5 m) de l'unité.

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 closely supervised at all times by adults.

DANGER : Risque de noyade accidentelle : à l'extrême prudence doit être exercée pour empêcher l'accès non autorisé par des enfants. Pour éviter les accidents, s'assurer que les enfants ne peuvent pas utiliser ce spa à moins qu'ils sont surveillés de près à tous moments par des adultes.

DANGER: RISK OF INJURY. The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure to replace with same model suction fittings for safety and compatible flow rates. Never operate the spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fittings.

DANGER : Risque de dommage. Aspiration de la tuyauterie dans ce spa sont moyennes pour correspondre au débit d'eau spécifiques créés par la pompe. En cas de nécessité pour remplacer les accessoires ou la pompe aspirante, veillez à remplacer avec même modèle aspiration accessoires pour la sécurité et compatible de débit. Ne jamais faire fonctionner le spa si l'aspiration accessoires sont brisés ou manquants. Ne jamais remplacer un montage aspiration avec un débit nominal moins de la mention sur l'original aspiration accessoires.

DANGER: RISK OF INJURY. Do not remove suction grate. Suction through drains and skimmers are powerful when the jets in the spa are in use. Damaged suction grate can be hazardous to children and adults with long hair. Should any part of the body or hair be drawn into these fittings or stuck onto the fittings turn off the spa immediately. As a precaution, long hair should NOT be allowed to float freely in the spa.

DANGER : Risque de dommage. Ne retirez pas le vide râper. Aspiration à travers des évacuations et racleurs sont de puissants lorsque les jets dans le spa sont en cours d'utilisation. Râper aspiration endommagés peuvent être dangereux pour les enfants et les adultes aux cheveux longs. Si une partie du corps ou de cheveux être appelée dans ces accessoires ou collées sur la tuyauterie désactiver le spa immédiatement. A titre de précaution, les cheveux longs devraient ne pas être autorisé à flotter librement dans le spa.

DANGER: RISK OF ELECTRIC SHOCK. Install at least 5 feet (1.5m) from all metal surfaces. As an alternative a spa may be installed within 5 feet (1.5m) of metal surfaces if, in accordance with the National Electrical Code, each metal surface is permanently connected by a minimum No. 8 AWG (8.4 mm²) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.

DANGER: RISQUEZ DE CHOC ÉLECTRIQUE. Installez 5 pieds au moins (1.5m) de toutes les surfaces du métal. Comme une alternative une station thermale peut être installée dans 5 pieds (1.5m) de surfaces du métal si, conformément au Code Électrique National, chaque surface du métal est connectée en permanence par un minimum Non. 8 AWG (8.4 mm²) conducteur du cuivre solide au connecteur du fil sur la boîte terminale qui est fournie pour ce but.

DANGER: RISK OF ELECTRIC SHOCK. Do not permit any electric appliance, such as a light, hair dryer telephone, radio, or television, within 5 feet (1.5 m) of the spa. Never operate any electrical appliances from inside the spa or while wet.

DANGER : Risque d'électrocution. Ne pas permettre une quelconque electric appliance, comme une lumière, d'un sèche-cheveux téléphone, à la radio ou la télévision, à l'intérieur de 5 pieds (1,5 m) de la spa. Ne jamais faire fonctionner les appareils électriques de l'intérieur de la spa ou tandis que wet.

DANGER: The electrical supply for this spa must include a suitable rated switch or circuit breaker to open all ungrounded supply conductors. The disconnect must be readily accessible and visible to the spa occupant but installed at least 5 feet (1.5m) from the spa water.

DANGER : L'alimentation électrique pour le spa doit inclure un commutateur nominale approprié ou disjoncteur pour ouvrir tous les conducteurs d'alimentation terre. La déconnexion doit être facilement accessible et visible pour le spa occupant mais installé au moins 5 pieds (1,5 m) à partir de l'eau de spa.

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

Avertissement - Pour réduire les risques de blessure : l'eau dans le bain à ne jamais dépasser 104° F (40° C). Température de l'eau entre 100° F (38°C) et 104° F (40° C) sont considérés comme sûrs pour un adulte en bonne santé. Températures de l'eau moins sont recommandés pour les jeunes enfants et lorsque spa utilisation dépasse 10 minutes.

WARNING – To reduce the risk of injury: Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant women should limit spa water temperatures to 100°F (38°C).

Avertissement - Pour réduire les risques de blessure : depuis excessive températures de l'eau ont un potentiel élevé de dommage au cours du fœtus causant les premiers mois de la grossesse, les femmes enceintes devraient limiter spa températures de l'eau à 100° F (38°C).

WARNING – To reduce the risk of injury: Before entering a spa, the user should check the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices

can vary and not reflect the proper temperature.

AVERTISSEMENT - de réduire les risques de blessure : Avant d'entrer dans un spa, l'utilisateur doit vérifier la température de l'eau avec un thermomètre exacte depuis la tolérance de la température de l'eau réglementant périphériques peuvent varier et ne pas refléter la température correcte.

WARNING – To reduce the risk of injury: The use of alcohol, drugs, or medication before or during spa use is prohibited and may lead to unconsciousness with the possibility of drowning.

PRÉVENIR. réduire le risque de blessure: L'usage d'alcool, drogues ou médicament avant ou pendant l'usage de station thermale est interdit et peut mener à évanouissement avec la possibilité de noyer.

WARNING – To reduce the risk of injury: Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.

AVERTISSEMENT - de réduire les risques de blessure : personnes obèses et les personnes avec une histoire de maladie du coeur, tension artérielle basse ou élevée, système circulatoire problèmes, ou le diabète devraient consulter un médecin avant d'utiliser un bain à remous.

WARNING – To reduce the risk of injury: Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medications may affect heart rate, blood pressure, and circulation.

AVERTISSEMENT - de réduire les risques de blessures: personnes qui utilisent ce médicament doivent consulter un médecin avant d'utiliser un bain à remous depuis certains médicament peut induire une somnolence tandis que d'autres médicaments peuvent affecter le rythme cardiaque , la pression artérielle, et de la circulation.

WARNING – To reduce the risk of injury: Do not use spa immediately after strenuous exercise.

Avertissement - Pour réduire les risques de blessure : Ne pas utiliser le centre thermal immédiatement après exercice ardu.

CAUTION: Persons suffering from heart disease, diabetes, high or low blood pressure, any condition requiring medical treatment, pregnant women, the elderly, or infants should consult with a physician before using a spa.

ATTENTION : les personnes qui souffrent d'une maladie de coeur, diabète, pression artérielle haute ou basse, toute condition nécessitant un traitement médical, les femmes enceintes, les personnes âgées, ou les nourrissons devraient consulter un médecin avant d'utiliser un bain à remous.

CAUTION: The Consumer Product Safety Commission has stated that the water temperature in a swim spa or hot tub should not exceed 104°F. Immersion in water in excess of 104°F can be hazardous to your health.

ATTENTION : la sécurité des produits de consommation Commission a déclaré que la température de l'eau dans un bain à remous ou du bain à remous ne dépasse pas 104° F. Immersion dans l'eau de plus de 104° F peuvent être dangereux pour votre santé .

CAUTION: Observe a reasonable time limit when using the spa. Long exposures at higher temperatures can cause high body temperature. Symptoms may include dizziness, nausea, fainting, drowsiness, and reduced awareness. These effects could result in possible drowning.

Attention : respectez un délai raisonnable lors de l'utilisation du spa. Une longue exposition à des températures plus élevées peut entraîner une forte température du corps. Les symptômes peuvent inclure des étourdissements, des nausées, évanouissement, somnolence, et réduit la sensibilisation. Ces effets pourraient résulter dans possible la noyade.

CAUTION: Do not use the spa under the influence of alcohol, narcotics, or other drugs. Use of the spa under these conditions may lead to serious consequences.

ATTENTION : n'utilisez pas le spa sous l'influence de l'alcool, de stupéfiants, ou d'autres médicaments. Utilisation de la spa dans ces conditions peut entraîner de graves conséquences.

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

Attention : testez toujours le spa température de l'eau avant d'entrer dans le spa. Entrer et sortir le spa lentement. Wet surfaces peuvent être très glissante.

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

Attention: ne jamais porter tout appareil électrique sur ou près du spa. Ne jamais faire fonctionner les appareils électriques de l'intérieur de la spa ou lorsque vous êtes mouillé.

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

Attention : bon entretien chimique de l'eau de spa est nécessaire pour maintenir l'eau salubre et d'éviter d'éventuels dommages à spa composants.

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

Utilisez le spa sangles et clip tie downs à assurer la couverture lorsque vous ne l'utilisez pas. Cela va aider à décourager les enfants sans surveillance d'entrer dans le spa et conserver le spa couvrir sécurisée en conditions de vent élevé. Il n'y a pas de représentation que le couvercle, clip tie downs, réelle ou verrous empêchent l'accès à la spa.

SPA SAFETY PRECAUTIONS:

Always enter and exit a spa slowly.

Do not use the spa alone.

Use a licensed electrician to make all electrical connections.

Maintain water chemistry as described in this handbook.

Persons with longer hair should use a bathing cap.

Précautions de sécurité spa : Toujours entrer et sortir un spa lentement. Ne pas utiliser le spa. Utiliser un électricien agréé pour effectuer tous les raccordements électriques. Maintenir la chimie de l'eau, comme décrit dans ce manuel. Les personnes avec plus sèche-devrait utiliser un bonnet de bain.

DO NOT allow anyone to stand on the spa cover. It is not designed to support weight.

Ne pas permettre à quiconque de se tenir à la spa couvrir. Il n'est pas conçu pour supporter le poids.

Before entering the spa, always measure the water temperature with an accurate thermometer.

Tolerance of water temperature regulating devices can vary as much as $\pm 5^\circ\text{F}$ (3°C). Always check the spa water temperature before entering.

Avant d'entrer dans le spa, toujours mesurer la température de l'eau avec un thermomètre exactes. La tolérance de température de l'eau réglementant périphériques peuvent varier de $\pm 5^\circ\text{F}$ (3°C). Vérifiez toujours la spa température de l'eau avant la saisie.

Since excessive water temperature has a high potential for causing fetal damage during early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to 100°F (38°C). Always consult your doctor prior to using a spa.

Depuis la température excessive de l'eau a un potentiel élevé pour causer des dommages sur le fœtus durant les premiers mois de la grossesse, les femmes enceintes ou peut-être les femmes enceintes devraient limiter spa températures de l'eau à 100°F (38°C). Consultez toujours votre médecin avant d'utiliser un bain à remous.

Children's body temperature can increase more rapidly than adults in the same water with elevated temperatures (above 99°F). Children should spend less time in water above body temperature than adults.

Enfants La température du corps peut augmenter plus rapidement que les adultes de la même eau, avec des températures élevées (au-dessus 99° F). Les enfants devraient consacrer moins de temps dans l'eau au-dessus de la température que les adultes.

The use of alcohol, drugs, and/or medication before or during spa use may lead to unconsciousness, hyperthermia, serious injury or the possibility of drowning.

L'utilisation de l'alcool, les drogues, et/ou de médicaments avant ou pendant le spa utilisation peut entraîner une perte, une hyperthermie, des blessures graves ou la possibilité de la noyade.

Persons suffering from obesity or with a medical history of heart disease, diabetes, high or low blood pressure, or circulatory system problems should consult their physician before using the spa.

Les personnes souffrant d'obésité ou avec une histoire médicale de maladie du coeur, diabète, tension artérielle basse ou élevée , ou système circulatoire problèmes devraient consulter leur médecin avant d'utiliser le spa.

Persons on medication should consult their physician before entering the spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

Personnes de médicament devraient consulter leur médecin avant d'entrer dans le spa car certains médicaments tandis que d'autres médicaments peut induire une somnolence peuvent affecter le rythme cardiaque, la pression artérielle, et de la circulation.

People with infections, sores, or skin abrasions should not use the spa. Warm and hot water temperatures may allow the growth of infectious bacteria if not properly disinfected.

Test the GFCI (Ground Fault Circuit Interrupter) unit before each use. (Refer to instructions provided by GFCI manufacturer.)

Les gens avec des infections, des plaies, ou de la peau Écorchures devrait ne pas utiliser le spa. Températures chaudes et de l'eau chaude peut permettre la croissance de bactéries infectieuses si pas convenablement désinfectés.

Do not service or repair any equipment without making sure the circuit breaker and/or all power to the spa is off.

Ne pas service ou la réparation de tous les équipements sans s'assurer que le coupe-circuit et/ou tous les pouvoir de la spa est hors tension.

Cover must be kept on the spa at all times when not in use and locked, especially if children are present.

Capot doit être maintenu sur la spa à tout moment lorsque vous ne les utilisez et verrouillé, surtout si les enfants sont présents.

SAFETY SIGNS SIGNES DE SÉCURITÉ

Each spa has been provided with a warning sign that outlines safety precautions. This sign should be permanently placed in a location that is visible to all spa users. This sign has been mounted permanently to the front of the spa. Replacement signs can be obtained from:

Hawkeye Manufacturing, Inc
1500 Commerce Rd
Richmond, VA 23224

Chaque spa a été fourni avec un signe d'alerte qui décrit les précautions de sécurité. Ce signe doit être placé en permanence à un endroit qui est visible pour tous les utilisateurs spa. Ce signe a été monté en permanence à l'avant du spa. Signes de remplacement peuvent être obtenus auprès de:

Hawkeye Manufacturing, Inc
1500 Commerce Rd
Richmond, VA 23224

CANADIAN INSTALLATIONS IMPORTANT SAFETY INSTRUCTIONS (CSA SAFETY INFORMATION)

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

1. READ AND FOLLOW ALL INSTRUCTIONS

2. A colored terminal or a terminal marked G, GR, Ground, Grounding is located inside the supply terminal box or compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment. *IEC Publication 417, Symbol 5019

3. At least two lugs marked "BONDING LUGS" are provided on the external surface or on the inside of the supply terminal box/compartment. To reduce the risk of electric shock, connect the local common bonding grid in the area of the hot tub or swim spa to these terminals with an insulated or bare copper conductor not smaller than No. 6 AWG.

4. All field-installed metal components such as rails, ladders, drains or other similar hardware within 3 meters of the spa shall be bonded to the equipment grounding bus with copper conductors not smaller than No. 6 AWG.

5. SAVE THESE INSTRUCTIONS.

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

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

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

AVERTISSEMENT: POUR ÉVITER QUE LES CHEVEUX OU UNE PARTIE DU CORPS PUISSENT ÊTRE ASPIRÉS, NE PAS UTILISER UNE CUVE DE RELAXATION SI LES GRILLES DE PRISE D'ASPIRATION NE SONT PAS TOUTES EN PLACE.

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

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

WARNING: People with infectious diseases should not use a swim spa or hot tub.

AVERTISSEMENT: LES PERSONNES ATTEINTES DE MALADIES INFECTIEUSES NE DEVRAIENT PAS UTILISER UNE CUVE DE RELAXATION.

WARNING: To avoid injury, exercise care when entering and exiting the swim spa or hot tub.

AVERTISSEMENT: POUR ÉVITER DES BLESSURES, USER DE PRUDENCE EN ENTRANT DANS UNE CUVE DE RELAXATION ET EN SORTANT.

WARNING: Do not use drugs or alcohol before or during the use of a swim spa or hot tub to avoid unconsciousness and possible drowning.

AVERTISSEMENT: POUR ÉVITER L'ÉVANOUISSEMENT ET LA NOYADE ÉVENTUELLE, NE PRENDRE NI DROGUE NI ALCOOL AVANT D'UTILISER UNE CUVE DE RELAXATION NI QUAND ON S'Y TROUVE.

WARNING: Pregnant or possibly pregnant women should consult a physician before using a swim spa or hot tub.

AVERTISSEMENT: LES FEMMES ENCEINTE, QUE LEUR GROSSESSE SOIT CONFIRMÉE OU NON, DEVRAIENT CONSULTER UN MÉDECIN AVANT D'UTILISER UNE CUVE DE RELAXATION.

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

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

WARNING: Before entering the swim spa or hot tub, measure the water temperature with an accurate thermometer.

AVERTISSEMENT: AVANT D'UTILISER UNE CUVE DE RELAXATION MESURER LA TEMPÉRATURE DE L'EAU À L'AIDE D'UN THERMOMÈTRE PRÉCIS.

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

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

SAVE THESE INSTRUCTIONS

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Letter From the Owner

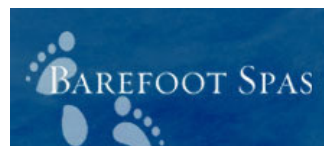
Thank you for choosing to own a Hawkeye or Barefoot Spa! You have just made a wonderful investment towards your health and well being.

For over a quarter century Hawkeye Manufacturing, Inc has been dedicated to designing the highest quality spas on the market. We are constantly updating our molds and choice of parts to reflect consumer preference and advancements in technology. So, be proud in knowing you have selected the best!

Again, thank you for choosing Hawkeye Manufacturing, Inc. Now it's time to relax and enjoy!

Sincerely,

Hawkeye Manufacturing, Inc



Health Benefits

The health benefits attributable to the spa are both mental and physical. The heat, buoyancy, and massaging characteristics of the spa work together to produce a euphoric sense of comfort and relaxation.

Stress and Stress-Related Conditions

Sitting in hot water causes endorphins to be released, which melts away the aches and pains. The massaging characteristics of the strategically placed jets together with the heat of the water alleviates the tension and allows the body to more effectively cleanse the carbon dioxide in its muscles (CO₂ is what gives muscles the fatigued sensation).

Better Sleep

Soaking in a spa before bedtime not only has the ability to help induce sleep...it can also provide for a deeper, more relaxed sleep.

Healing

The hydrotherapy associated with spas has the tremendous ability to alleviate the fatigue and soreness that muscles build up from exercise or just from one's daily routine. When used properly, the spa has the ability to lower blood pressure, increase circulation, and speed up the body's ability to cleanse out toxins.

Arthritis and Chronic Pain

Spending time in a spa is a great way to apply heat to arthritic joints. In fact, getting in the spa for 10-15 minutes in the morning is a great way to ease up the joints when they are generally at their worst.

Diabetes

Please understand that a spa is not a 'cure-all' for people with diabetes. Studies have indicated, however, that sitting in a spa can help improve blood sugar levels, help promote weight loss, and improve sleep patterns in people suffering from Type 2 diabetes.

Time for Family and Friends

A spa provides access to all the therapeutic benefits listed above and more...why not share them with loved ones? The spa is a perfect place to relax with family members and catch up on what's on everyone's mind. The spa also serves as a nice environment when entertaining friends.

First Things First – Where to Locate The Spa

Choosing where to place the spa requires careful consideration.

The spa must be installed on a sturdy, flat surface. A concrete slab at least four inches thick is recommended. If the spa is going to be placed on a deck, it must have a load capacity of at least 90lbs per square foot. Consult a building inspector or a licensed contractor to find out whether or not the deck can withstand the added weight.

When properly installed, the spa base will rest flat on the supporting surface. Do not attempt to shim the spa or place in an otherwise unlevelled surface. Failure to place the spa on a level plane will cause the unit to distort, collapse, or crack. Any such damage caused by improper installation will not be covered under the warranty.

The surface design and material used to support the spa should meet local building regulations and should be verified before installing the spa.

Additionally, make sure the spa is accessible to service technicians. Leave at least a three foot open space for any side of the spa housing a pump.

Electrical Wiring

NOTE: ALL ELECTRICAL WORK MUST BE DONE BY A QUALIFIED ELECTRICIAN AND MEET THE NATIONAL ELECTRICAL CODE REQUIREMENTS. PLEASE HAVE THE ELECTRICIAN REFER TO THIS SECTION OF THE MANUAL BEFORE INSTALLING THE ELECTRICAL SERVICE. THE FOLLOWING GUIDELINES ARE NECESSARY FOR PROPER FUNCTIONALITY OF THE SPA.

The spa must be set up with a dedicated service. Use of extension cords is a safety hazard and can result in electrical damage that is not covered under the warranty.

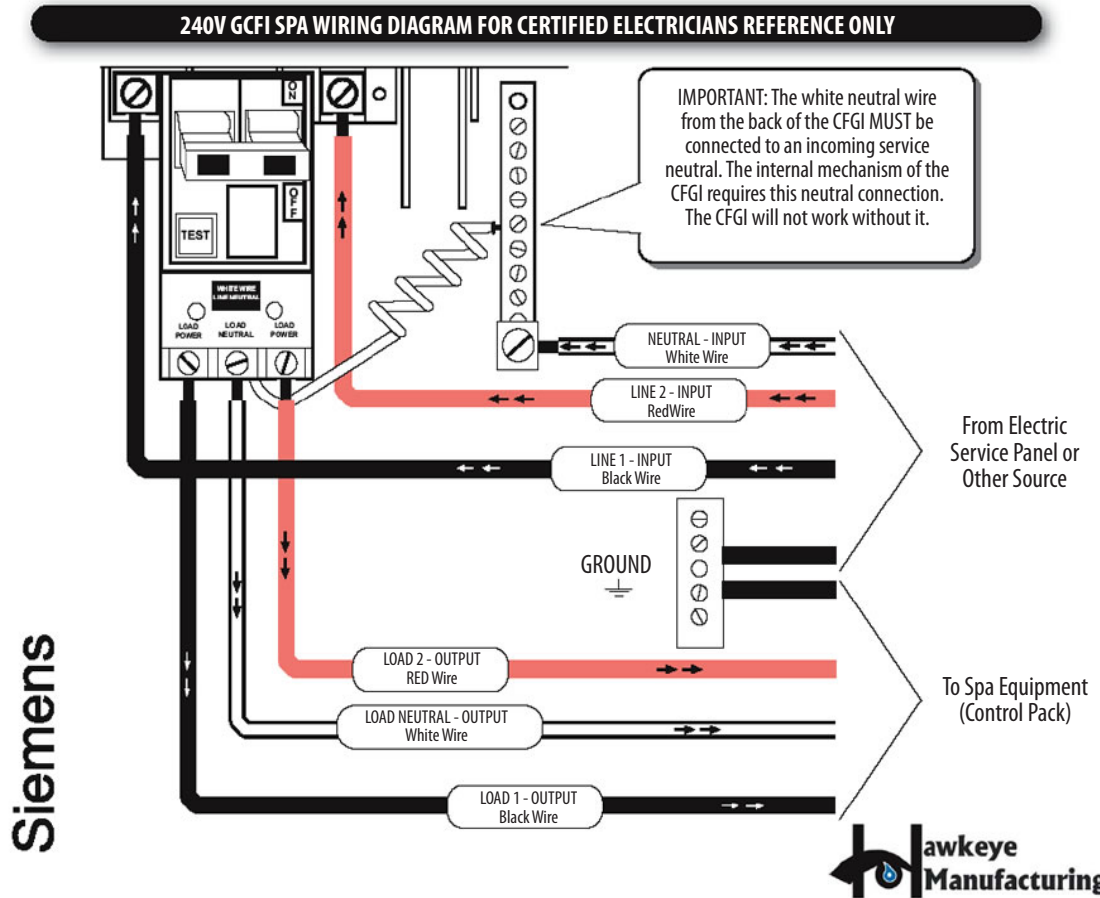
All 120V spas require a 20 AMP grounded (GFCI) outlet. All 240V spas require a 50 AMP grounded (GFCI) breaker unit and four wire conductors, unless otherwise noted.

The circuit breaker panel should be a minimum of five feet away from where the spa is to be located. Check with the local building official for additional code requirements.

Only copper wire may be used. Use of aluminum or other wire will void the warranty and may cause extensive damage to the equipment.

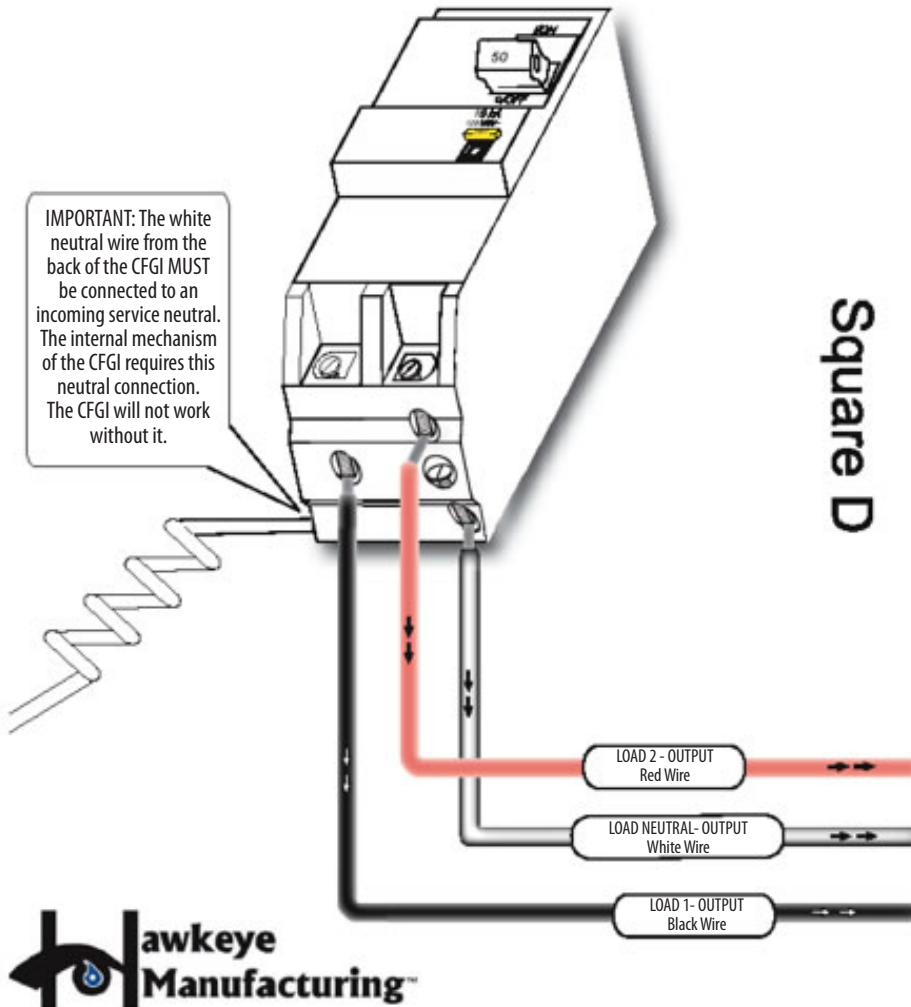
Please see the following two pages for common GFCI configurations. Please read all instructions enclosed in the GFCI package.

Electrical Wiring – Seimens Diagram



Electrical Wiring – Square D Diagram

240V GCFI SPA WIRING DIAGRAM FOR CERTIFIED ELECTRICIANS REFERENCE ONLY



Parts of the Spa – Overhead View



1. **Filter Assembly** – Varies, in most models it consists of the filter housing, filter, basket, and telescoping skimmer.
2. **Topside Control Unit** – Controls the temperature, light(s), mode, and filter settings
3. **Waterfall On/Off Valve** – Allows or restricts flow to the waterfall
4. **Footwell Light Lens** – Houses a large incandescent or LED light
5. **Jet** – Water release point for the pump(s)
6. **LED Light Lenses** – Houses individual LED accent lights
7. **Headrest (Pillow)** – Provides a cushioned surface
8. **Neck and Shoulder Jet On/Off Valve** – Allows or restricts flow to the neck and shoulder jets
9. **Floor Suction** – Water intake source for the pump(s)
10. **Drain Fitting** – Point through which the water can be drained
11. **TV Monitor** – On a hydraulic lift, the LCD TV raises when desired and can be tucked away when not in use

**** Many of these features are optional and will not necessarily be present on your spa ****

Parts of the Spa – Side View



1. **Waterfall** – Enhances visual and audible ambiance
2. **Kick Plate** – Base of spa
3. **Drain Release Valve** – Point of release when draining the spa
4. **Cabinet** – Made of mahogany or synthetic wood, the cabinet helps to insulate and protect the spa

**** Many of these features are optional and will not necessarily be present on your spa ****

Internal Components

Spa Pack – Monitors all the spa's functions, including the heater, pump(s), and filtration settings. Unscrew the lid to gain access to the electrical wiring connections, circuit board, fuses, and heater.

Part # 55370 or 54370-03



Pump – Propels water throughout the spa. The pump(s) can have either one or two speeds.

Part # 3721221-OD5A



Gate Valve - Used to cut off water flow to a section of the spa (i.e. a pump). These are used so service can be provided on particular components without having to drain the entire spa.

Part # 10249



Ozone Generator - Produces ozone, which helps to break down organic contaminants and maintain a sanitary spa.

Part # 54449



Circulation Pump - Runs constantly at a fixed low speed to circulate the spa's water.

Part # 73349



LED Controller - Processes the various color effects for the LED lights.

Part #701678 (Sloan) or 10643 (J&J)



**** Many of these features are optional and will not necessarily be present in your spa ****

Initial Operating Procedures

Filling the Spa

Please take the following precautionary measures before filling the spa:

- Make sure the electrical service is shut off at the breaker. This will prevent accidental damage to the pump(s) and heater.
- Remove the cabinet panel directly below the topside controls to access the equipment compartment. Make sure the pipe unions on either side of the pump(s) are tight (In colder months the pipe unions may be disconnected or loose during shipping to prevent freezing).
- The hose bib (located on the kick plate) should be pushed in to the closed position.

Okay, now the spa is ready to be filled. Place the garden hose down inside the filter housing.

On a dual-filter system, use the filter closest to the topside control panel. To access the filter housing, remove the telescoping assembly by turning it counterclockwise. Next, remove the pre-filtration basket and filter. Once these steps have been completed, feed the garden hose down into the filter housing and turn on the water. **If the spa is being filled with well water, we recommend using the hose filter attachment to reduce the water contaminants and help water's alkalinity such as dissolved minerals and metals found in some source waters.**

****** Filling the spa in this manner is important because it primes the pump(s) with water.

Priming the pump(s) decreases the likelihood of having air pockets form in the pump(s), causing them to be 'air-locked.' If this happens, no water can be pulled through the pump until the pocket of air is released.

Fill the spa until the water level is approximately one inch above the highest jet (excluding any small jets the spa may have that are designed for the neck and/or shoulders).

Once the spa has been filled to the appropriate level the power may be turned on.

System Initialization Sequence

The spa will enter into a program sequence when it first receives power. The system will perform a self-diagnostic sequence and flash random sequences of numbers on the topside display. This process will last approximately 30 seconds.

Next the spa will enter its Program Mode (the topside display will read 'Pr'). For the next two to five minutes the system will send commands to its various components to identify their presence and functionality. During this time it is normal to see and hear the pumps turn on and off.

Once the system has identified all of its components it will enter into its Calibration Mode (the topside display will read '- - F'). The spa's two temperature sensors will use this time to calibrate the water's current temperature. This process will last up to 15 minutes.

The System Initialization Sequence is complete when the sensors finish calibrating the water's temperature. The topside display will show the water's current temperature (i.e. 75F). The spa's System Settings can now be customized.

Configuring System Settings

Now is a good time to configure the system's mode and filtration cycle setting. The spa has three modes: **Standard, Economy, and Sleep**. Each mode represents different parameters for which the spa will heat the water. The spa also has five filtration cycle settings: two, four, six, eight, or continuous filtration. The filtration cycle settings indicate how long pump 1 will run for on low speed in a twelve hour period. For example, a six hour filtration cycle setting ('F6' or 'FIL6') means pump 1 of the spa will run on low speed for six out of every twelve hours.

Pump 1 can be switched to high speed during a filtration cycle but it cannot be turned off.

Please refer to Topside Control Operations Guide for information on what these settings represent and how to change them.

Hawkeye Manufacturing, Inc recommends setting the mode to Standard ('St' or 'Std') and the filtration setting to a two hour cycle ('F2' or 'FIL2') if the spa is being filled with treated municipal water, or setting the mode to Standard ('St' or 'Std') and the filtration setting to a four hour cycle ('F4' or 'FIL4') if the spa is being filled with well water.

Initial Chemical Treatment

It is a good idea to wait until the spa has heated to at least 90° F (32° C) before adding chemicals. Warmer water will dissolve granules more efficiently and allow chemicals to mix into the spa water better than cool water.

Once the water is up to temperature, the first step is to break down any organic contaminants with the ONEshock or similar type of sanitizing product. This process is commonly referred to as 'shocking' the spa water. Please follow the instructions listed on your sanitizing products to properly 'Shock' the water of your new spa.

The next step is to check the water's Chlorine, Alkalinity, and pH levels using an approved PH/water strip or kit. Follow the directions on the container and compare the colors. Extra chemicals treatments may be necessary if the water chemistry is out of balance (Please refer to Troubleshooting – Common Water Problems).

Voila! The spa is filled, the water has been heated and treated, and the topside control has been programmed to the correct settings. There is only one thing left that the spa needs to be complete – you!



Topside Control Operations Guide

Temperature Control (80°F – 104°F / 26°C – 40°C)

The last measured water temperature is constantly displayed. The water temperature displayed is current only when the pump has been running for at least two minutes.

To display the set temperature, press 'Warm' or 'Cool' once. To change the set temperature, press a temperature button again before the display stops flashing. Each press of 'Warm' or 'Cool' will adjust the set temperature.

After three seconds, the display will stop flashing and begin to display the current spa temperature.

Jets 1

Press 'Jets 1' to turn the first pump on or off and to shift between low and high speeds. The high speed turns off automatically after 15 minutes. The low speed turns off automatically after four hours. Low speed may run automatically at times – this is normal.

Jets 2/Jets 3 (If equipped)

Press the corresponding button once to turn the device on or off. The device will turn off automatically after 15 minutes.

Light

Press 'Light' to operate the spa lights. The spa lights will turn off automatically after four hours.

Mode

Mode is changed by pressing 'Warm' and then pressing 'Mode' if the topside control unit has a 'Mode' button. Otherwise, mode is changed by pressing 'Warm' and then pressing 'Light.'

- **Standard Mode (recommended)** – Maintains set temperature. 'Std' or 'St' will be displayed momentarily when spa is switched into Standard Mode.
- **Economy Mode** – Heats the spa to the set temperature only during filter cycles. 'Ecn' or 'Ec' will display when water temperature is not current, and will alternate with water temperature when the pump is running.
- **Sleep Mode** – Heats the spa to within 20°F / 10°C of the set temperature only during filter cycles. 'Slp' or 'SL' will display when water temperature is not current, and will alternate with water temperature when the pump is running.

Filter Cycle

The first preset filter cycle begins six minutes after the spa is energized. The second preset filter cycle begins twelve hours later. Filter duration is programmable for two, four, six, or eight hours or for continuous filtration (indicated by 'FILC' or 'FC').

To program the filter cycle, press 'Warm' and then press 'Jets 1.' Tap 'Warm' until display indicates desired filter cycle. Press 'Jets 1' to exit programming. **IMPORTANT:** The spa will remain in the current filter cycle for up to 24 hours before changing to the new filter cycle.



General Maintenance

Maintaining Clean and Balanced Water

The water chemistry of a spa must be maintained to assure its cleanliness. Failure to do so leads to unsanitary water, which is unpleasant and potentially dangerous to both the user(s) and the spa itself.

Maintaining the spa water's chemistry includes maintaining its chlorine (or bromine) levels, its total alkalinity, and its pH. Test the water on a weekly basis to assure that all three levels are adequate. Using a water softener such as SPAMonthly on a monthly basis is also recommended.

Hawkeye Manufacturing, Inc strongly recommends ONEshock for use with its spas as the primary means of sanitization. ONEshock is a sanitizer that has been pre-measured for our spas in dissolvable packets. Throw one packet in the spa for every 250 US gallons of water (if using the granular ONEshock formula, pour one tablespoon in the spa for every 250 US gallons). See **Spa Reference Guide** for information on the spa's water capacity. Most spa configurations necessitate an application of ONEshock **every two to three days**.

SPAMonthly is one of the most important chemicals for the spa water. It conditions the water to reduce irritation to the eyes and skin, reduces the chemical odor, and assists in stabilizing the water's alkalinity and pH. To apply, simply open a bottle and pour it in the spa water once a month.

The spa's water should not require frequent use of chemical treatments other than SPAMonthly and ONEshock to maintain adequate levels of alkalinity and pH. See **Troubleshooting – Common Water Problems** for the appropriate course of action should the spa water's alkalinity and/or pH need to be raised or lowered.

Maintaining the Water Level

It is normal for the spa to lose approximately one inch of water per week. The water loss is due to evaporation and run off from people exiting the spa. Please be mindful of this and add water as necessary. If the water level drops below the filter level then the pumps will draw in air. This will cause the pumps to 'air-lock' and can cause error codes that will prevent the heater from turning on.

Filter Maintenance and Replacement

Proper maintenance of the spa's filter is very important. The filter helps to clean the spa from algae, bacteria, hair, debris, and other solids that enter the spa. Failing to clean the filter will place an unnecessary strain on its respective pump. Additionally, a dirty filter will result in dirty water. Clean the filter at least once a month. Do not use a pressure washer.

To clean the filter:

1. Shut off power to the spa.
2. Fill a bucket with three gallons of water and pour in a capful of FILTERcleanser.
3. Remove the filter from the spa. Hold the filter at a 45° angle and spray it off with a garden hose.
4. Place the filter in the bucket filled with water and FILTERcleanser. Let the filter soak for two hours.
5. Remove the filter from the bucket. Again, hold the filter at a 45° angle and spray it off with a garden hose.
6. Re-insert the filter in the spa.

It is of equal importance that the spa filter be replaced periodically. The fibers in the filter loosen over time, allowing more particles to pass through them. A standard cartridge filter needs to be replaced every six months.

Cleaning the Plumbing

It is important to clean out the plumbing before draining the spa. The dirt, oils, and cleaning chemicals that cloud and foam up the water will remain in the spa's pipes – that is, unless they are cleaned out before the spa is drained. To do this, pour a bottle of PIPEcleanser into the spa and turn the jets on (If there is more than one 'Jets' option, turn them all on). After the jets have been running for 90 minutes they can be turned off and the spa can be drained.

Draining the Spa

The spa water's clarity and chemical balance becomes progressively more difficult to maintain as time passes. The spa water needs to be replaced at least every three months for this reason.

Always remember to shut off power at the breaker before draining the spa.

The most common way to drain the spa is with the drain valve. Looking at the spa from the front, the drain valve can be located on the kick plate on the right side. The steps for draining the spa through the 2 stage drain valve are as follows:

1. Before unscrewing the drain cap, pull it outwards.
2. Unscrew the drain cap to expose garden hose threads.
3. Thread the garden hose onto the outer threads.
4. Pull the garden hose outward to allow water to flow. Keep the garden hose in this position until the spa has drained completely.
5. Push the garden hose back in to close the valve.
6. Unthread the garden hose.
7. Thread the cap back on and push it in flush with the spa cabinet.

Another way to drain the spa is by means of reverse siphon. The steps for this method are as follows:

1. Place one end of the garden hose in the spa and connect the other end to a faucet.
2. Turn the faucet on to fill the garden hose with water.
3. Once the garden hose is full, turn off the water and disconnect it from the faucet. Be sure this end of the garden hose is at a lower elevation than the end in the spa.
4. The water will now drain out of the spa.

Cleaning the Spa Shell

Remember the oils, dirt, and cleaning chemicals that needed to be removed from the plumbing of the spa? Those same residues need to be cleaned from the surface of the spa's acrylic or plastic shell. Spray the Shell & Liner Cleaner generously on the acrylic or plastic and wipe off with a soft cloth. Clean the spa shell at least two times a year.

Cover Maintenance

The cover that comes with the spa is designed to withstand the elements if properly cared for. The spa cover should be cleaned three to four times a year. The first step in cleaning the spa cover is to spray it down with a hose. Next, spray Spa Cover Cleaner generously across the spa cover and wipe dry with a soft cloth.

While the spa cover is very sturdy, it is not meant to withstand excessive weight. Never stand on the cover. Remove snow or other items that accumulate on the cover promptly to avoid causing it to misshape or otherwise become damaged.

Panel Maintenance

The standard synthetic panels installed on most spas are weather resistant and non-porous. They are virtually maintenance free, only requiring the occasional rub-down with a wet cloth. Although less common, the spa also may come with stained real mahogany wood paneling. Real wood panels should be stained once a year to prevent rotting or other damage.

Preparing for Cold Weather

There are two options when preparing for a winter with freezing conditions: maintain it or drain it.

Maintain It – Maintaining the spa in the winter months is much the same as maintaining the spa the rest of the year. The only major addition is that the spa and GFCI needs to be checked on a daily basis to make sure it is receiving power. The spa is constantly monitoring the temperature of the water and will automatically activate the pump(s) and heating element if it registers freezing or near-freezing conditions. Drain the spa immediately if it loses power for an extended period of time. Otherwise, the pipe fittings in the spa will freeze and break. Consult the next paragraph for instructions on draining the spa.

Drain It – Follow the directions for cleaning the plumbing and draining the spa outlined in the ‘Draining the Spa’ section under General Maintenance. Once the spa is drained, re-fill it to foot well with fresh water and drain it again (No, this is not a joke. Remaining oils and residues will need to be flushed out or else they can cause damage to the pump(s) and heating element during the winter months). Next, use a shop vacuum to clear out any remaining water in the jet lines. To do this, remove the jet from the jet body. Place the shop vacuum up to the opening and blow out the remaining water. Follow this procedure with every jet line in the spa.

It is important to remember that snow gets quite heavy as it accumulates. Brush snow off of the spa cover as necessary.

Common Water Problems

Water is Out of Balance

Possible Cause	Solution	Preventative Maintenance
Well water, untreated municipal water, frequent usage	Test water and adjust as necessary using Alkalinity Increase, pH Up, and/or pH Down.	Maintain pH of 7.5 ± 0.3 and a total alkalinity of 80-120 ppm.

Excessive Foaming

Possible Cause	Solution	Preventative Maintenance
Accumulation of body oils, cosmetics, and detergents	Add de-foamer. Add one ONE-shock packet for every 250 US gallons.	Use ONEshock on a regular basis to oxidize organic compounds.

Cloudy Water

Possible Cause	Solution	Preventative Maintenance
Excessive organic contaminants	Add one ONEshock packet for every 250 US gallons.	Use ONEshock on a regular basis to oxidize organic compounds.
Water is out of balance	Test water and adjust as necessary using Alkalinity Increase, pH Up, and/or pH Down.	Maintain pH of 7.5 ± 0.3 and a total alkalinity of 80-120 ppm.
Accumulation of material that cannot be filtered	Use Clarifier.	Use Clarifier regularly or as needed.
Dirty or worn-out filter	Soak filter in bucket of water and FILTERcleanser. Replace if necessary.	Clean the filter(s) at least once a month. Replace filter(s) every six months.

Smelly Water

Possible Cause	Solution	Preventative Maintenance
Excessive organic contaminants	Add one ONEshock packet for every 250 US gallons.	Use ONEshock on a regular basis to oxidize organic compounds.

Skin/Eye Irritation

Possible Cause	Solution	Preventative Maintenance
Excessive chloramines or organic contaminants	Superchlorinate water. Add one ONEshock for every 150 US gallons.	Use ONEshock on a regular basis.
Excessive chlorine level	Dilute. Add more water to the spa.	Do not add more ONEshock than is necessary.
Water is out of balance	Test water and adjust as necessary using Alkalinity Increase, pH Up, and/or pH Down.	Maintain pH of 7.5 ± 0.3 and a total alkalinity of 80-120 ppm.
Dirty or worn-out filter	Soak filter in bucket of water and FILTERcleanser. Replace if necessary.	Clean the filter(s) at least once a month. Replace filter(s) every six months.

Stain or Scale on Acrylic

Possible Cause	Solution	Preventative Maintenance
Well water, high mineral content	Drain spa and spray Shell & Liner Cleaner generously on acrylic.	Use HOSEfilter attachment when filling the spa.

Frequent pH Fluctuation

Possible Cause	Solution	Preventative Maintenance
Total alkalinity is outside of range (80-120 ppm)	Test water and adjust as necessary using Alkalinity Increase, pH Up, and/or pH Down.	Maintain a total alkalinity of 80-120 ppm.

Brown Water

Possible Cause	Solution	Preventative Maintenance
Excessive mineral content	Add sequestering agent.	Use HOSEfilter attachment when filling the spa.



Troubleshooting – Air in the Pump

Air in the pump – pump is working but nothing is coming out of the jets

1. Press the 'Jets' button that corresponds with the airlocked pump repeatedly for 30 seconds.

If the pump is still airlocked

2. Locate the pump by turning it on and listening for its position.

3. Remove the panel(s) around the pump to gain access.

4. Make sure the air locked pump is off.

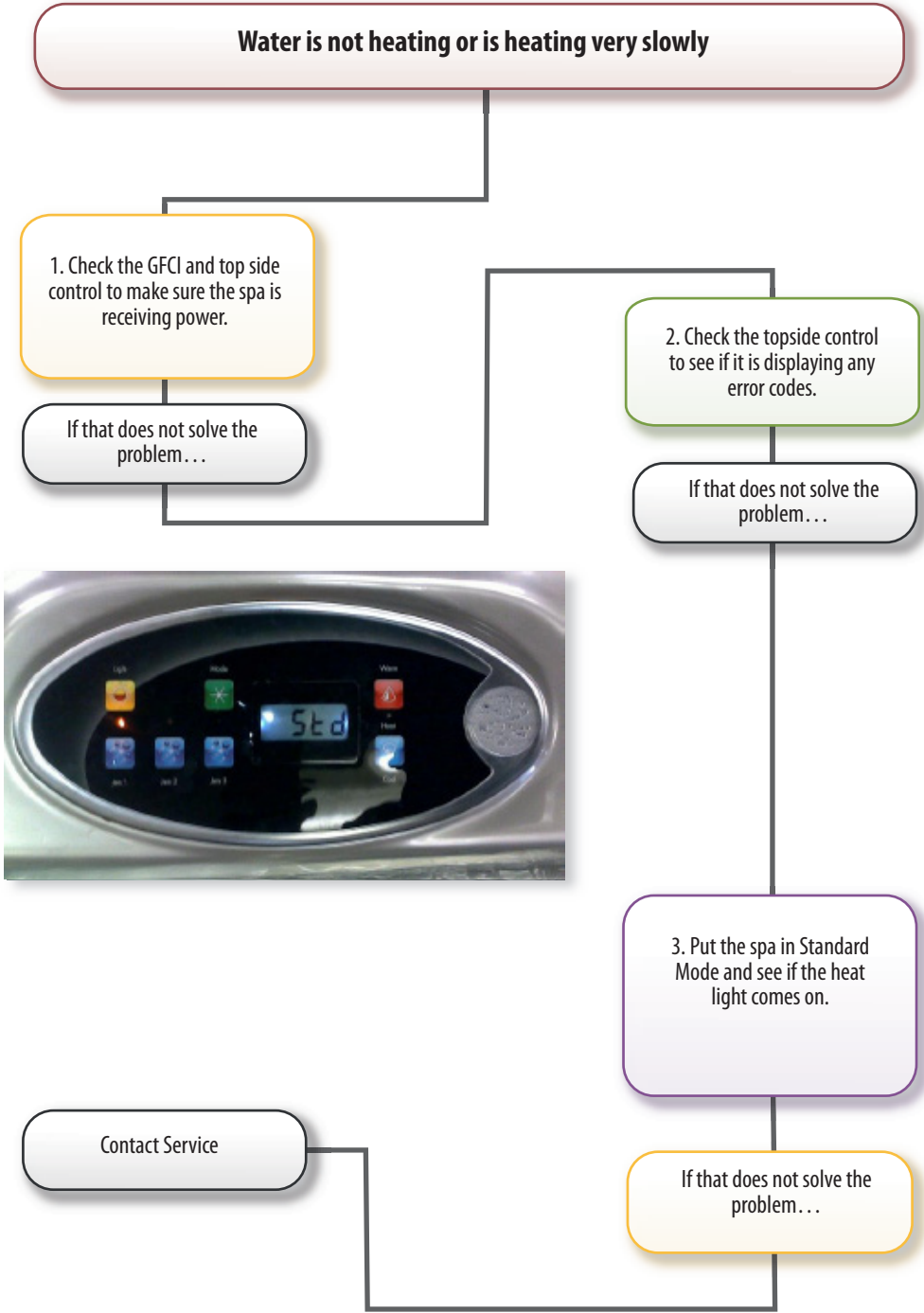
5. Locate and loosen one of the drain plugs until water begins to seep out. The pocket of air will be released momentarily.



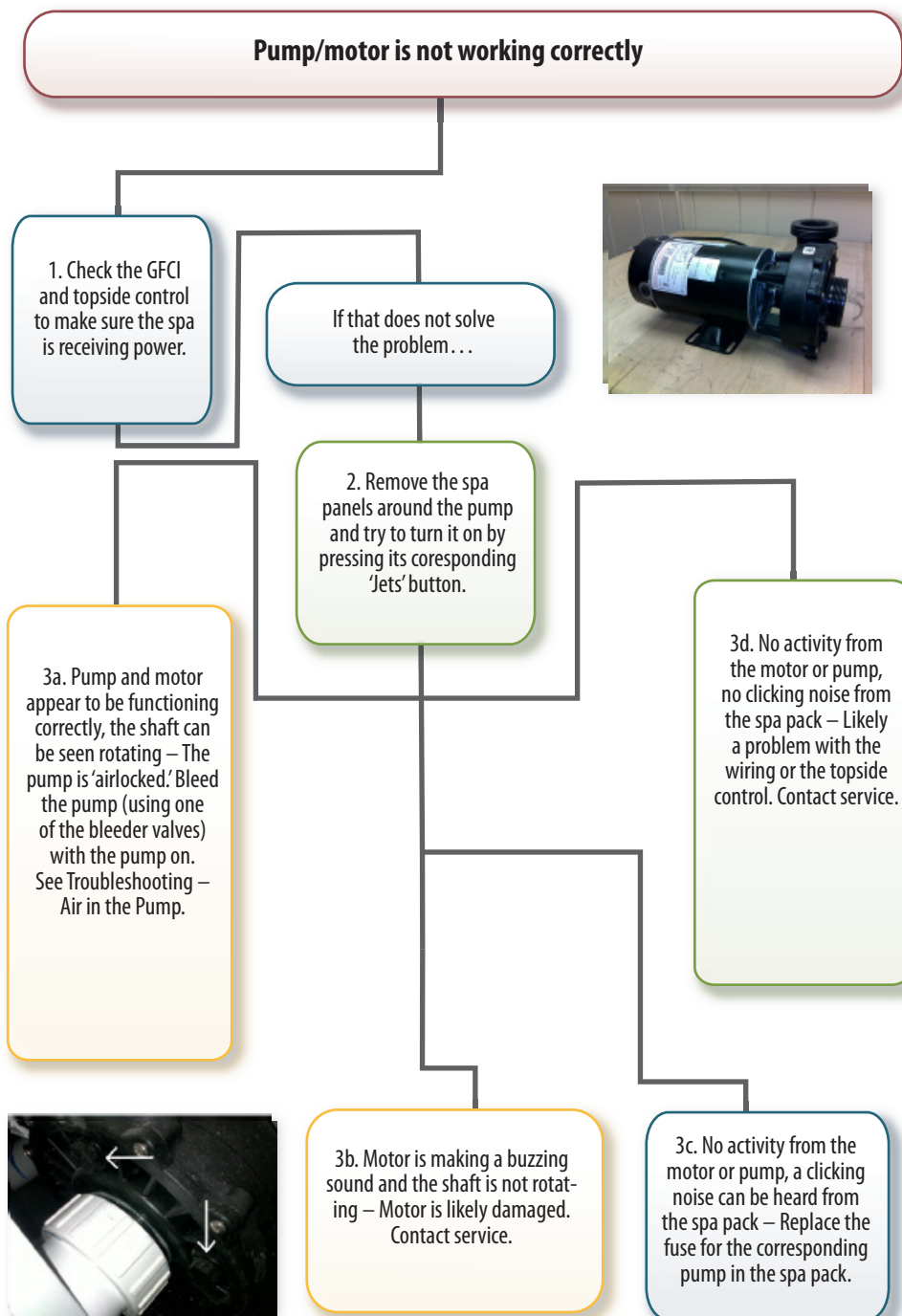
Drain Plug (above) - There are 3-4 drain plugs on each pump. They are plastic, hex-shaped, and 11/16 of an inch in diameter.

6. After 2-3 minutes, tighten the drain plug and re-attach the panels.

Troubleshooting – Water Not Heating or Heating Slowly



Troubleshooting – Pump/Motor is Not Working Correctly



Troubleshooting – Cannot Turn On/Off Valve or Diverter Valve

Cannot turn on/off valve or diverter valve

1. Remove gray cap. Wedge a flathead screwdriver or other flat object under the cap and pop it off.



2. Clean any debris or buildup that has accumulated on ridged underbody with a soft cloth.



3. Gently re-attach cap. Be sure not to push it back on too tight or it will likely get stuck again.



Troubleshooting – Water Temperature Higher Than Set Temperature

Water temperature is higher than the set temperature

1. Check the ambient temperature.
The water cannot be maintained
at a temperature lower than the
ambient temperature.



2. Check the spa's Filtration Cycle Setting. Running the spa on continuous filtration ('FC' or 'FILC') can create excessive heat in the internal components, thus rising the water temperature. Change the Filtration Cycle Setting to a two hour setting ('F2' of 'FIL2'). **Please note that the system requires up to 26 hours to process a change in the Filtration Cycle Settings.

If, after 24 hours, that does
not solve the problem...

3. Contact service.

Troubleshooting – Pump Will Not Turn Off

Pump will not turn off

1. Check to see if the spa has a circulation pump. Circulation pumps run 24 hours a day.



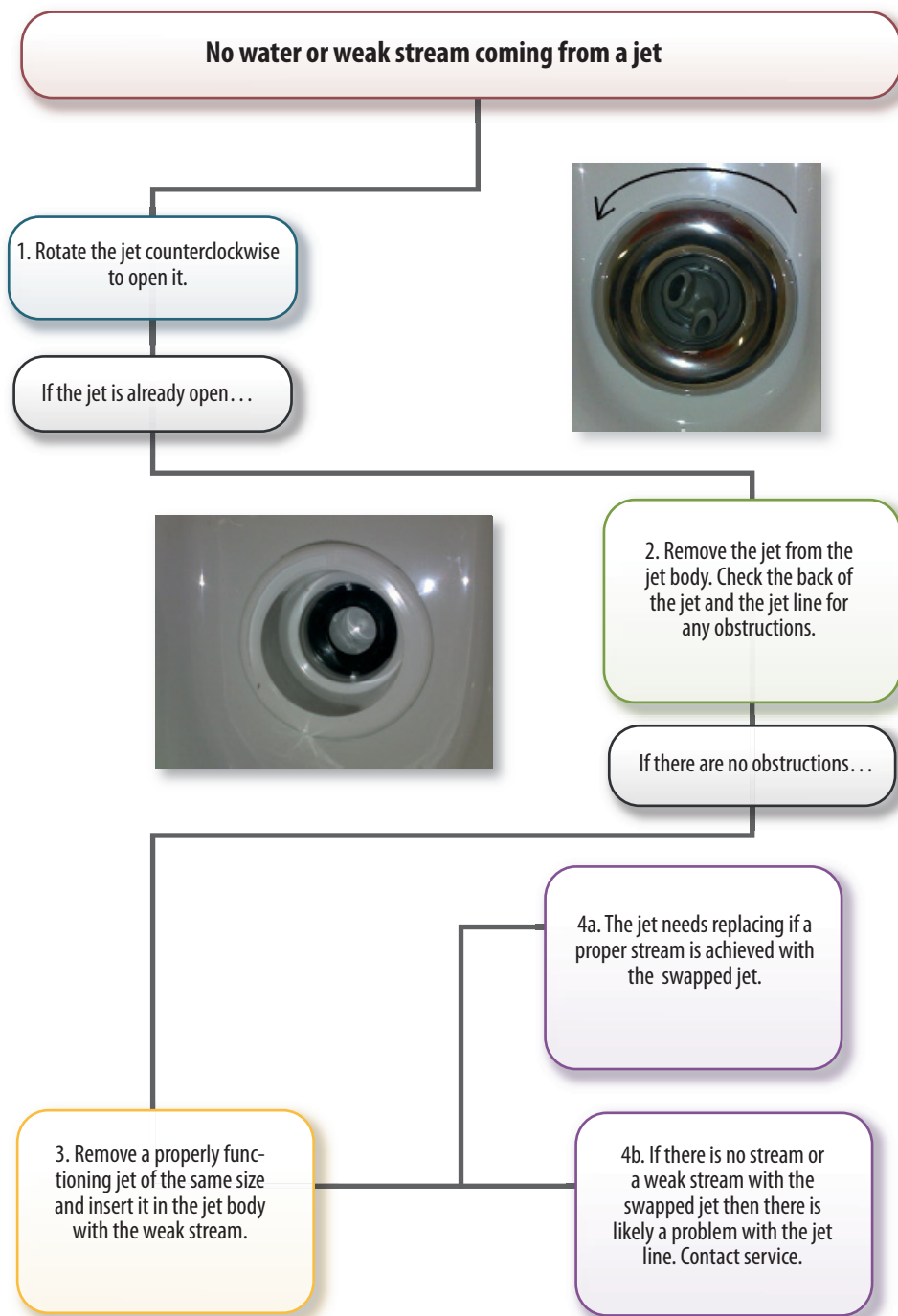
2. Check to see if the heat light is on. The pump will turn itself on temporarily if it needs to heat the water.

If the heat light is not on...

3. The spa is in a filtration cycle. Changing the Filtration Cycle Setting to a two hour setting ('F2' or 'FIL2') will cause the pump to be on less frequently.



Troubleshooting – No Water or Weak Stream Coming From Jet



Spa Reference Guide

Hawkeye Spas

Model	Dimensions (LxWxH in inches)	Water Capacity (In US Gallons)	Pumps	Dry Weight (lbs)	Filled Weight (lbs)
Ambassador	84 x 84 x 38	400	2	725	3950
Atlas	84 x 84 x 38	400	3 + circ.	725	3950
Catamaran	77 x 82 x 34	385	2	650	3800
Eclipse	56 x 81 x 34	225	1	450	2250
Enterprise	90 x 90 x 38	475	3	850	4300
Gemini	56 x 81 x 34	225	1 (110V)	375	2225
Genesis	76 x 81 x 38	385	1	650	3800
Jupiter	76 x 81 x 38	385	2	650	3800
Odyssey	81 x 76 x 38	385	2	650	3800
Potomac	83 x 83 x 39	475	1	775	4225
Rapture	78 diameter x 36	250	1 (110V)	245	2245
Retreat	43 x 92 Oval	150	1 (110V)	250	1500
Savannah	79 x 79 x 34	300	1 (110V)	400	2900
Schooner	82 x 76 x 38	385	1	650	3800
Serenity	78 x 78 x 36	250	1 (110V)	245	2245
Triton	76 x 81 x 38	385	1	600	3750
Venus	76 x 81 x 38	385	2	650	3800

Barefoot Spas

57BL	60 x 84 x 34	225	1 + circ.	450	2250
67FS	74 x 84 x 34	300	1	450	2900
67FSV	74 x 84 x 34	300	2	450	2900
77BL	84 x 84 x 38	425	2 + circ.	800	4000
77MR	84 x 84 x 38	425	2 + circ.	800	4000
88BL	93 x 93 x 40	525	3 + circ.	1000	5500
88MR	93 x 93 x 40	500	3 + circ.	900	5000
811	131 x 91 x 43	750	3 + circ.	1400	7400
Diplomat	93 x 93 x 40	500	2	900	5000
Millennium	84 x 84 x 40	425	2	750	3950
Omega	84 x 84 x 40	425	2	750	3950

Specifications subject to change

[illegible]