

# PRE-DELIVERY GUIDE 2008

How to make the delivery and installation of your new hot tub fast, easy, and trouble-free



WATER THAT MOVES YOU®

## Important Pre-Delivery Information

**Please read this booklet before your scheduled delivery day.**

Record your spa information below and then store this booklet in a place you can easily find it. If service is required, your dealer will ask for these details.

Spa Model \_\_\_\_\_  
Spa Serial Number \_\_\_\_\_  
Date Purchased \_\_\_\_\_  
Date Installed \_\_\_\_\_  
Spa Dealer's Name \_\_\_\_\_  
Spa Dealer's Phone # \_\_\_\_\_  
Spa Dealer's Address \_\_\_\_\_



### **To Keep Warranty Valid**

Consult your local state or city building ordinances to ensure installation is in accordance with local codes. The spa's warranty becomes void if these guidelines are not followed.

**Note** Most cities and counties 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 spa by children. Your Jacuzzi dealer can provide information on which permits may be required and how to obtain them prior to delivery of your spa.

**Note** The specifications published in the Spa Dimensions and Specifications section of this book are approximate. Always measure your spa before making critical design or delivery decisions.

## **Congratulations!**

You've purchased a Jacuzzi® spa, made to exacting ISO 9001 quality standards. With a little preparation and care, your spa will give you many years of enjoyment. This booklet has been designed to provide you with all the information you'll need to ensure a safe, speedy, and trouble-free spa delivery and installation.

### **Table of Contents**

#### **3 Planning the Best Location for Your Spa**

**3** Suggestions for Outdoor Spa Installation

**6** Suggestions for Indoor Spa Installation

#### **7 Planning to Move the Spa Into Your Yard**

#### **9 Electrical Tasks Before Spa Delivery**

**9** General Electrical System Considerations

**11** Power Configurations for Models J-210, J-220, J-315, J-325  
(North America, 60 Hz)

**12** Power Configurations for Models J-230, J-270, J-280  
(North America, 60 Hz)

**13** Power Configurations for Models J-335, J-345, J-355, J-365, J-375  
(North America, 60 Hz)

**14** Power Configurations for Models J-460, J-465, J-470, J-480  
(North America, 60 Hz)

#### **15 Electrical Tasks After Spa Delivery**

**16** Installing a 3-Wire 240 VAC Connection for Models J-230, J-270,  
J-280, J-335, J-345, J-355, J-365, J-375, J-460, J-465, J-470, J-480

**17** Installing a 3-Wire 120 VAC or 3-Wire 120/240 VAC Connection for  
Models J-210, J-220, J-315, J-325

## **18 Final Electrical Connections**

### **19 Connection Configuration #1**

240 VAC Connections for Models J-230, J-270, J-280, J-335, J-345, J-355, J-365, J-375, J-460, J-465, J-470, J-480 (North America 60 Hz)

### **20 Connection Configuration #2**

120 VAC Connections for Models J-210, J-220, J-315, J-325 (North America 60 Hz)

### **21 Connection Configuration #3**

240 VAC Connections for Models J-210, J-220, J-315, J-325 (North America 60 Hz)

## **22 Spa Dimensions and Specifications**

### **22 Useful Details About the Spa**

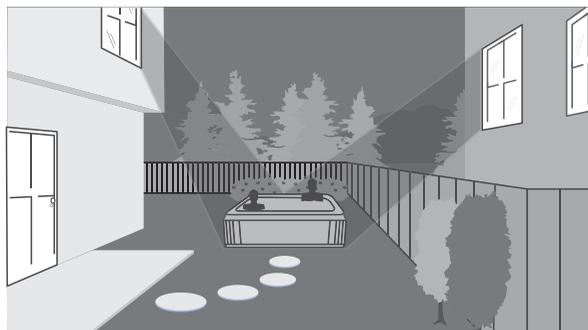
# Planning the Best Location for Your Spa

Now that you have purchased your hot tub, you need to decide where to install it. Do you want to install it outside or inside? There are many factors to take into consideration when making these location decisions. Answering the questions in this section can help you make the right choices.

## Suggestions for Outdoor Spa Installation

**Where should I install the spa?** When deciding where to place your spa, it should be:

- Moved away from overhead power lines. A minimum of 10 feet (3 meters) is suggested.
- Placed to face a view you enjoy. Do you have a special landscaped area in your yard that you find pleasant?
- Located in an area that gives you the best privacy options. Think of the spa's surroundings during all seasons when making your choice. During cold, winter weather, bare trees won't provide much privacy.
- Locate your spa in a sheltered location to protect yourself from the wind and harsh weather while bathing in your spa. This reduces the cost of spa operation and maintenance.



**Figure 1** Plan for privacy before the spa is delivered

---

Continued on next page

**Planning the Best Location for Your Spa, *Continued***

**What kind of foundation is available?**

Because of the combined weight of the spa, water, and bathers, it is extremely important that the base upon which the spa rests can uniformly support this weight without shifting or settling for the entire time the spa is in place. The base should be smooth, flat, and level.

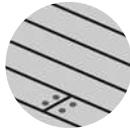
**Which is best?**

We suggest the following pads:



**Good**

Synthetic spa pads can be purchased from your Jacuzzi dealer. These pads can be placed on a smooth, flat, and level surface.



**Better**

Wood decking with a concrete foundation.



**Recommended**

Concrete pad (4 in. [10 cm] or thicker) We recommend a poured, reinforced concrete slab with a minimum thickness of 4 in. (10 cm).

When you install the foundation, be sure that water drains away from it. Placing the spa in a depression without provisions for proper drainage could cause rain or any water overflow to flood the equipment and create a wet condition in which the spa would sit.

**Note**

If the spa is placed on a surface which does not meet these requirements, damage to the skirt and/or the spa shell may result. Damage caused by an improper foundation is not covered under warranty. It is your responsibility to assure the integrity of the support at all times.

Continued on next page

## Planning the Best Location for Your Spa, *Continued*

**How will I use the spa?**

Consider how you intend to use your spa.

<b>If using the spa for ...</b>	<b>Then ...</b>
Family recreation	Leave plenty of room around the spa for activities and yard furniture.
Relaxation and therapy	Create a quiet and relaxing environment around the spa.

**Does the climate I live in make any difference to where I install my spa?**

When deciding the best place to install the spa, consider

<b>If your climate is ...</b>	<b>Then consider installing ...</b>
Cold and snowy in winter and warm in summer	The spa close to the back door or near the pool house for fast access to a warm room
Warm in winter and hot in summer	A patio cover or perhaps a gazebo to provide shade

**What about spa servicing?**

At some time, a service technician may need to access the spa's equipment from below or by removing the side access panels.

To make access easy, create an installation plan that includes the details for removing the spa's access panel to easily reach the spa's equipment and control panel. Depending upon your type of installation, keep in mind that the spa might sometime need to be moved or lifted from the ground.

**What other issues should I consider?**

When selecting the ideal outdoor location for your spa, consider these suggestions:

- Keep the pathway to your spa free of debris to prevent dirt and leaves from being tracked into the spa.
- Prevent leaves and bits of plants from dropping in the spa by keeping trees and shrubbery away from the spa.

---

Continued on next page

## Suggestions for Indoor Spa Installation

If you are installing your spa indoors, take into consideration your answers to the questions below.

### **What are the issues I need to think about when installing a spa indoors?**

When installing a spa indoors, it is extremely important to build into your plan a method of handling any excess water. Consider:

- How should water spills be handled?
- How many drains should be installed?
- What is the best flooring to install near the spa?
- If a leak occurs, can the floor handle the entire contents of the spa?
- Will the furniture and walls around my spa withstand and resist water and moisture?
- What provisions should I make for the ceiling and structures that may be below the spa.

### **What do I need to know about installing a spa on the second floor.**

If the spa is being installed on a second story or higher, consult a structural engineer to discuss the best way to support the spa. Special attention is needed to plan for a spa installed on a balcony or roof.

### **What about spa servicing?**

Most spa servicing is performed on the spa equipment that is located behind the panels of the spa. It is important to install the spa to allow easy access to the spa equipment.

### **How can I ventilate the spa area?**

When the spa is in use, considerable amounts of moisture/water are present. Over time, this moisture may cause mold and mildew and damage to certain surfaces and/or surroundings. Proper ventilation should be discussed with an engineer who understands the necessity of venting moist and heated air that is associated with chemical emissions.

### **What warranty considerations are important?**

Consult your local state or city building ordinances to ensure installation is in accordance with local codes. Any damage caused if you do not follow these guidelines voids the spa's warranty.

# Planning to Move the Spa Into Your Yard

Use the information below, in Figure 2, and in the Spa Dimensions and Specifications chart to plan the delivery of your spa into your yard. The Spa Dimensions and Specifications chart lists your spa model and its dimensions

## **Check your spa's dimensions**

Check the width of gates, doors, and sidewalks to make sure your spa will pass through unobstructed.

During delivery, the spa must remain on the delivery cart at all times. You may have to remove a gate or part of a fence to allow an unobstructed passageway to the installation location.

## **Plan the delivery route**

After referring to Figure 2, plan your spa's delivery route into your yard. Check off each item on the checklist below to verify your plans.

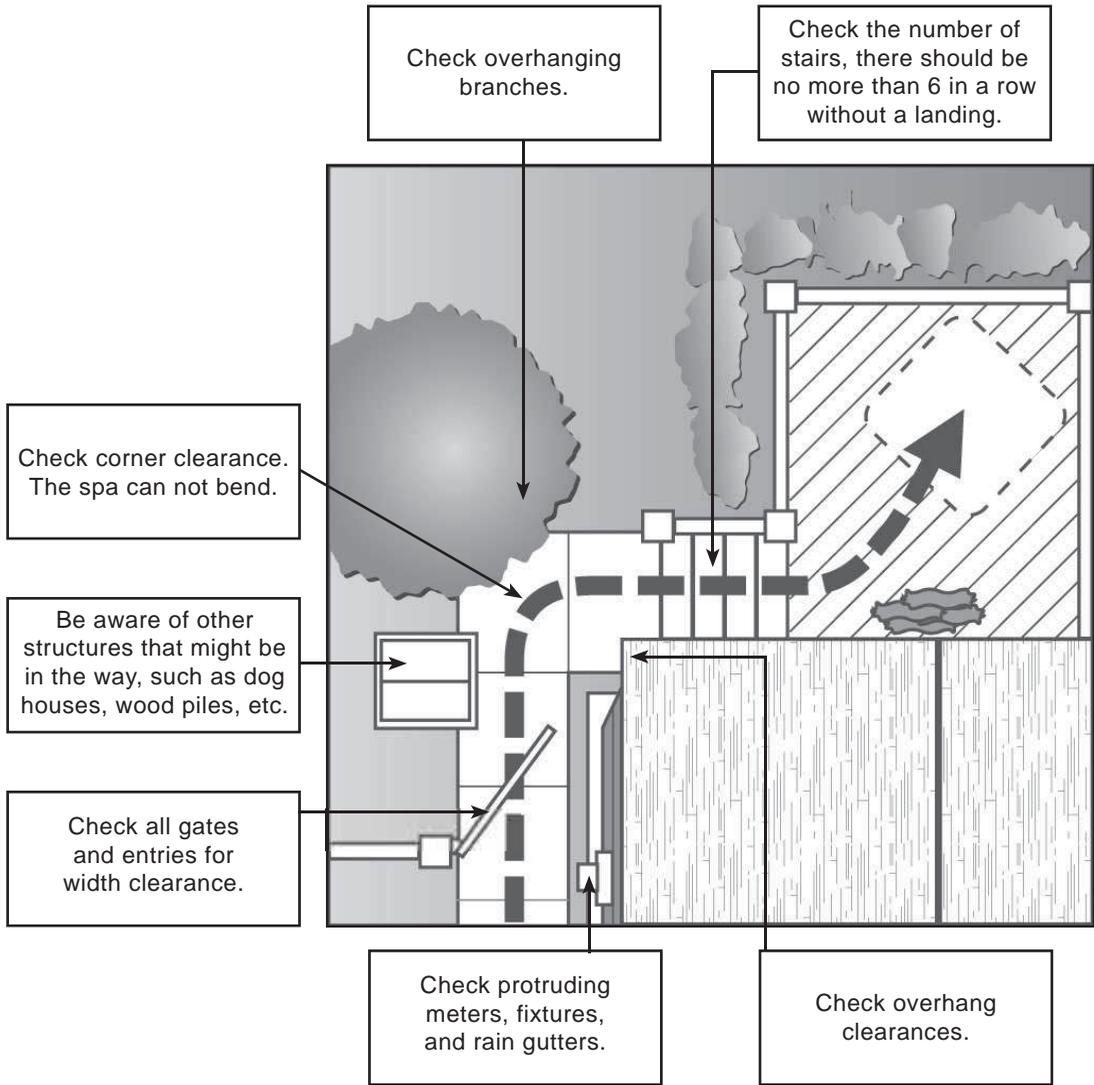
- If the delivery route requires a 90° turn, check the measurements at the turn to ensure the spa will fit.
- Are there protruding gas or water meters, or A/C units obstructing the delivery path to your yard?
- Are there low roof eaves, overhanging branches, or rain gutters that could be an obstruction to overhead clearance?
- Are there more than 6 consecutive stairs without a landing in your delivery route? If so, you must consult your Jacuzzi dealer prior to delivery to make adequate preparations.

## **Use a crane**

The use of a crane for delivery and installation is sometimes necessary. It is used primarily to avoid damage to your spa, your property, or to delivery personnel. Your authorized Jacuzzi dealer may be able to assist you with the arrangements. If your spa delivery requires the use of a crane, the cost of a crane is not included in standard delivery service.

---

Continued on next page



**Figure 2** Check for obstacles in the delivery route BEFORE receiving your new spa

# Electrical Tasks Before Spa Delivery

## General Electrical System Considerations

 **Before the installation of your spa begins, check with the local building department to ensure this installation conforms to local building codes.**

**Important** When installed in the United States, the electrical wiring of this spa 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 inspector.



Never use an extension cord of any kind. Using an unapproved extension cord can damage the spa equipment and void your warranty.

The Jacuzzi J-210, J-220, and J-315 North American models include a 10 foot GFCI cord for plug-in 120V operation. Connect this cord directly to a dedicated/grounded wall outlet. When a power cord over 10 ft. is required, the spas must be hard wired in accordance with state and local codes.

**Before the scheduled arrival of your spa it is necessary to set up the electrical components of the hot tub. Use the checklist below to prepare for the spa installation.**

- Prepare the electrical connection for your spa based on one of the configurations listed below. If necessary, refer to the Power Configuration tables for additional information by model.

If installing a spa that is ...	Then it must be ...
240 V (North America)	Hard wired to the power supply.
120V (USA only)	Plugged into a dedicated grounded outlet using the GFCI cord supplied with the spa.
120V (Canada)	Hard wired to the power supply per CSA standards.

Continued on next page

**Electrical Tasks Before Spa Delivery, *Continued***

 <b>To Keep Warranty Valid</b>	The manufacturer’s warranty becomes void if the spa’s electrical connections do not meet the specifications as stated in this document.
--	---

- Verify the power supplied to the spa is on a dedicated circuit with no other appliances or lights sharing the power.
- Verify the electrician has completed the tasks listed below before the spa is delivered. If necessary, find the information requested by looking in the Power Configuration tables.

Task Complete?	Tasks for the electrician		
○	Select the wire size based on NEC and/or local codes.  <table border="1" style="width: 100%; background-color: #f2f2f2;"> <tr> <td style="text-align: center; vertical-align: middle;"><b>Note</b></td> <td>                             If you use wire larger than #6 (10 mm<sup>2</sup>), add a junction box near the spa, and reduce the wire to short lengths of #6 (10 mm<sup>2</sup>) wire between the junction box and the spa.                         </td> </tr> </table>	<b>Note</b>	If you use wire larger than #6 (10 mm <sup>2</sup> ), add a junction box near the spa, and reduce the wire to short lengths of #6 (10 mm <sup>2</sup> ) wire between the junction box and the spa.
<b>Note</b>	If you use wire larger than #6 (10 mm <sup>2</sup> ), add a junction box near the spa, and reduce the wire to short lengths of #6 (10 mm <sup>2</sup> ) wire between the junction box and the spa.		
○	Determine the length of wire that is needed between the breaker box and the spa based on the wire size and the maximum current draw.		
○	Acquire enough copper wire with THHN insulation to ensure adequate connections. Do not use aluminum wire.		

- To comply with Section 422-20 of the National Electric Code, ANSI/NFPA 70, the electrical supply for the spa must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors. The means to disconnect the electricity must be readily accessible to the spa’s occupant, but installed at least 5 ft. (1.5 m) from the spa water. Check with local municipalities for additional code requirements.
- As required by NEC Article 680-42, the electrical circuit for the spa must include a suitable ground fault circuit interrupter (GFCI). We recommend Square-D or Cutler Hammer GFCI breakers. The appropriate wiring configuration for your spa appear elsewhere in this document.

Check the tables on the next few pages to match your hot tub model with one of the power configuration options.

**Important:** All of the alternative electrical configurations require a qualified technician to perform minor circuit board modifications. To avoid damage to the spa, do not activate 30 A or 40 A power to the spa until these modifications have been made. We recommend Square-D or Cutler Hammer circuit breakers.

## Power Configurations for Models J-210, J-220, J-315, J-325 (North America, 60 Hz)

This section describes the three power configuration choices (Standard 15 Amp, Alternate 30 Amp, or Alternate 40 Amp) for hot tub models J-210, J-220, J-315, and J-325.

**Note** Wire size must meet NEC recommendations and is determined by maximum current draw and length of run.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Config. #1</b></p>	<p><b>Standard 15 A Configuration</b> (factory setting)</p> <ul style="list-style-type: none"> <li>• 120 VAC/15 A 3-wire configuration (hot, neutral, and ground)</li> <li>• 1 kW heater output</li> <li>• Use either the 15 A GFCI power cord (supplied only for US models) or a 15 A single-pole GFCI circuit breaker (not supplied)</li> <li>• Maximum electrical current draw of 12 A</li> </ul>	<p>In this Standard 15 A configuration, the <b>heater does not operate</b> if the high-speed jets pump is activated.</p> <p>Place the spa within 10 ft (3 m) of a dedicated grounded, grounding-type electrical outlet so that the power cord supplied with the spa can be plugged directly into it.</p> <p>Use the power cord shipped from the factory. Using another power cord may cancel the warranty.</p> <p>If the spa is more than 10 ft (3 m) from an outlet, it must be hard wired to a 15 A single-pole GFCI breaker.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Config. #2</b></p>	<p><b>Alternate 30 A Configuration</b></p> <ul style="list-style-type: none"> <li>• 240 VAC/30 A 4-wire configuration (2 hots, neutral, and ground)</li> <li>• 4 kW heater output</li> <li>• 30 A dual-pole GFCI circuit breaker (not supplied)</li> <li>• Maximum electrical current draw of 21 A</li> </ul>	<p>If your home does not have 240 VAC/40 A power available, connect the spa to a 240 VAC/30 A power source. Then, have a qualified electrician modify the circuit board to match the power source.</p> <p>In this configuration, the heater yields the same rapid temperature rise as in the 40 A configuration. However, the heater does not operate at the same time the high-speed jets pump is operating.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Config. #3</b></p>	<p><b>Alternate 40 A Configuration</b></p> <ul style="list-style-type: none"> <li>• 240 VAC/40 A 4-wire configuration (2 hots, neutral, and ground)</li> <li>• 4 kW heater output</li> <li>• 40 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Maximum electrical current draw of 30 A</li> </ul>	<p>In the Alternate 40 A configuration, the heater does not operate at the same time the high-speed jets pump is operating. It is necessary to have a qualified electrician modify the circuit board.</p>

**Important:** All of the alternative electrical configurations require a qualified technician to perform minor circuit board modifications. To avoid damage to the spa, do not activate 30 A or 40 A power to the spa until these modifications have been made. We recommend Square-D or Cutler Hammer circuit breakers.

## Power Configurations for Models J-230, J-270, J-280 (North America, 60 Hz)

This section describes the three power configuration choices (Standard 50 Amp, Alternate 40 Amp, or Alternate 60 Amp) for hot tub models J-230, J-270, and J-280.

**Note** Wire size must meet NEC recommendations and is determined by maximum current draw and length of run.

<b>Config. #1</b>	<p><b>Standard 50 A Configuration</b> (factory setting)</p> <ul style="list-style-type: none"> <li>• 240 VAC/50 A 3-wire configuration (2 hots and ground)</li> <li>• 50 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Maximum electrical current draw of 36 A</li> </ul>	<p>In this Standard 50 A configuration, the heater does not operate if both high-speed jets pumps are running.</p> <p>Jets Pump 2 runs only in high speed.</p>
<b>Config. #2</b>	<p><b>Alternate 40 A Configuration</b> (For homes where 240 VAC/50 A or 240 VAC/60 A power is unavailable.)</p> <ul style="list-style-type: none"> <li>• 240 VAC/40 A 3-wire configuration (2 hots and ground)</li> <li>• 40 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Maximum electrical current draw of 26 A</li> </ul>	<p>If your home electrical service does not have 240 V/50 A power available, the spa may be connected to a 240 V/40 A power source after a qualified electrician makes a minor circuit board modification.</p> <p>In this configuration, the heater yields the same rapid temperature rise as in the 50 A configuration, but does not operate at the same time either of the jets pump is operating in high speed.</p> <p>Jets Pump 2 runs only in high speed.</p>
<b>Config. #3</b>	<p><b>Alternate 60 A Configuration</b></p> <ul style="list-style-type: none"> <li>• 240 VAC/60 A 3-wire configuration (2 hots and ground)</li> <li>• 60 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Maximum electrical current draw of 45 A</li> </ul>	<p><b>For use only with Models J-270 and J-280</b></p> <p>In the Alternate 60 A configuration, the heater operates while both jets pumps are running in high speed.</p> <p>Jets Pump 2 runs only in high speed.</p>

**Important:** All of the alternative electrical configurations require a qualified technician to perform minor circuit board modifications. To avoid damage to the spa, do not activate 30 A or 40 A power to the spa until these modifications have been made. We recommend Square-D or Cutler Hammer circuit breakers.

## Power Configurations for Models J-335, J-345, J-355, J-365, J-375 (North America, 60 Hz)

This section describes the three power configuration choices (Standard 50 Amp, Alternate 40 Amp, and Alternate 60 AMP) for hot tub models J-335, J-345, J-355, J-365.

**Note** Wire size must meet NEC recommendations and is determined by maximum current draw and length of run.

<b>Config. #1</b>	<p><b>Standard 50 A Configuration</b> (factory setting)</p> <ul style="list-style-type: none"> <li>• 240 VAC/50 A 3-wire configuration (2 hots and a ground)</li> <li>• 50 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Maximum electrical current draw of 36 A</li> </ul>	<p>In this Standard 50 A configuration, the heater does not run if both high-speed jets pumps are running. Jets Pump 2 runs only in high speed.</p>
<b>Config. #2</b>	<p><b>Alternate 40 A Configuration</b> (For homes where 240 VAC/50 A or 240 VAC/60 A power is unavailable.)</p> <ul style="list-style-type: none"> <li>• 240 VAC/40 A 3-wire configuration (2 hots and a ground)</li> <li>• 40 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Maximum electrical current draw of 26 A</li> </ul>	<p>If the home's electrical system does not have the full 240 VAC/60 A or 240 VAC/50 A power available, the spa may be connected to a 240 V./40 A power source after a qualified electrician makes a minor circuit board modification.</p> <p>In this configuration, the heater yields the same rapid temperature rise as in the 60 A or 50 A configuration, but does not run at the same time as either of the jets pumps is running at high speed.</p> <p>Jets Pump 2 runs only in high speed.</p>
<b>Config. #3</b>	<p><b>Alternate 60 A Configuration</b> (Optional setting for maximum heater performance.)</p> <ul style="list-style-type: none"> <li>• 240 VAC/60 A 3-wire configuration (2 hots and a ground)</li> <li>• 60 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Maximum electrical current draw of 45 A</li> </ul>	<p>If the home's electrical system has the full 240 V/60 A power available, the spa may be connected to a 240 V/60 A power source after a qualified electrician makes a minor circuit board modification.</p> <p>In this configuration, the heater operates while both jets pumps are running at high speed.</p> <p>Jets Pump 2 runs only in high speed.</p>

**Important:** All of the alternative electrical configurations require a qualified technician to perform minor circuit board modifications. To avoid damage to the spa, do not activate 30 A or 40 A power to the spa until these modifications have been made. We recommend Square-D or Cutler Hammer circuit breakers.

## Power Configurations for Models J-460, J-465, J-470, J-480 (North America, 60 Hz)

This section describes the three power configuration choices (Standard 50 Amp, Alternate 40 Amp, and Alternate 60 AMP) for hot tub models J-460, J-465, J-470, J-480.

**Note** Wire size must meet NEC recommendations and is determined by maximum current draw and length of run.

<p><b>Config. #1</b></p>	<p><b>Standard 50 A Configuration</b> (factory setting)</p> <ul style="list-style-type: none"> <li>• 240 VAC/50 A 3-wire configuration (2 hots and a ground)</li> <li>• 50 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Electrical current draw of 36 A</li> </ul>	<p>If the home's electrical system does not have 240 VAC/60 A, the spa may be connected to a 240 V/50 A power source after a qualified electrician makes a minor circuit board modification.</p> <p>In this Standard 50 A configuration, the heater yields the same rapid temperature rise as in 60 A operation, but will not operate while either jets pumps run.</p>
<p><b>Config. #2</b></p>	<p><b>Alternate 30 A Configuration</b> (For homes where 240 VAC/50 A or 240 VAC/60 A power is unavailable.)</p> <ul style="list-style-type: none"> <li>• 240 VAC/30 A 3-wire configuration (2 hots and a ground)</li> <li>• 30 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Electrical current draw of 23 A</li> </ul>	<p>If the home's electrical system does not have the full 240 VAC/50 A or 240 VAC/60 A power available, the spa may be connected to a 240 V/30 A power source after a qualified electrician makes a minor circuit board modification.</p> <p>In this configuration, the heater does not run while either of the jets pumps run.</p>
<p><b>Config. #3</b></p>	<p><b>Alternate 60 A Configuration</b> (Optional setting for maximum heater performance.)</p> <ul style="list-style-type: none"> <li>• 240 VAC/60 A 3-wire configuration (2 hots and a ground)</li> <li>• 60 A dual-pole GFCI circuit breaker (hard wired only)</li> <li>• Electrical current draw of 45 A</li> </ul>	<p>If the home's electrical system has the full 240 V/60 A power available, the spa may be connected to a 240 V/60 A power source after a qualified electrician makes a minor circuit board modification.</p> <p>In this configuration, the heater operates while both jets pumps are running. This may be preferable for owners of outdoor spas in cold climates because it will help their spas maintain water temperature during use.</p>

## Electrical Tasks After Spa Delivery

### Important safety information for all spa models

Proper grounding is extremely important. This spa is equipped with a Current Collector system. A pressure securing wire connector is provided on the outside of the load box to permit connection of a bonding wire between the spa and any metal within 5 ft. (1.5 m) of the spa. Bonding wire must be at least #8 AWG (8.4 mm<sup>2</sup>) solid copper wire.

After the spa is placed in the specified location, the electrician must perform the tasks listed below to complete the electrical installation. Give this information to the electrician when he begins to install your spa.

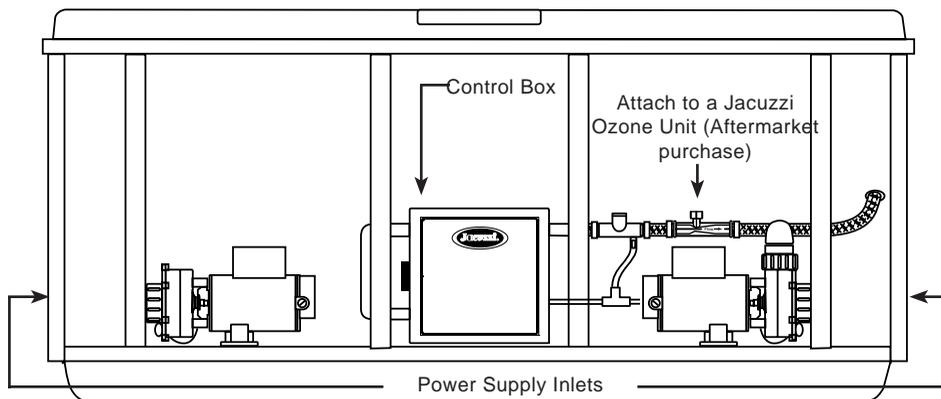
Task	Action
1	To gain access to the spa's power terminal strip, remove the spa cabinet panel on the side of the spa under the control panel (see Figure 3 on the next page).  After removing the spa cabinet panel, remove the four metal control box cover screws and metal control box cover.
2	Locate the power supply inlet (front of the spa near the base). Select the inlet you want to use, then feed the power cable through to the control box.
3	Insert the power cable through the large opening provided on the left-side of the metal control box.
4	Connect the wires, color to color, on the terminal strips and tighten securely.
5	To complete the electrical installation, secure the metal control box door by replacing its 4 screws, then re-install the spa cabinet panel under the control panel.

For specific electrical information about the spa model being installed, look through Figures 3 through 8 in this section.

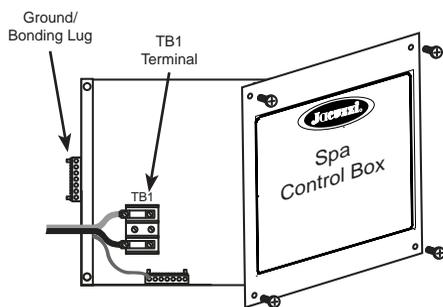
Continued on next page

## Installing a 3-Wire 240 VAC Connection for Models J-230, J-270, J-280, J-335, J-345, J-355, J-365, J-375, J-460, J-465, J-470, J-480

The electrician should look carefully through these diagrams to gather the required information about the electrical tasks for the installation of these spas.

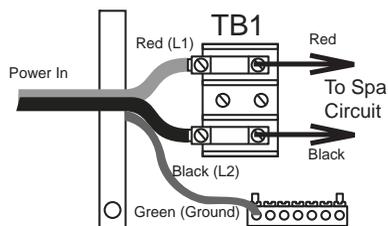


**Figure 3** Spa Equipment Compartment



**Figure 4** The Control Box for 3-wire, 240 VAC connection

The location of the TB1 terminal may vary between models.



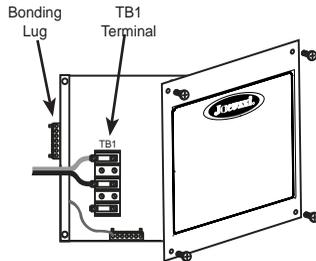
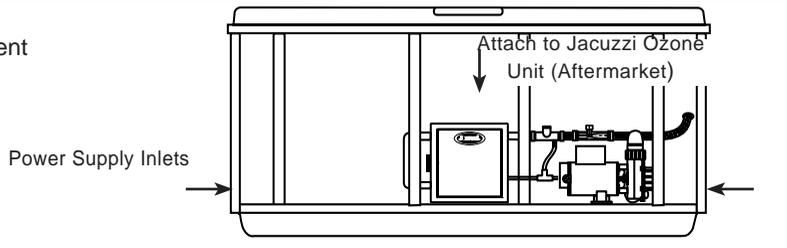
**Figure 5** 3-Wire, 240 VAC Connection for Models J-230, J-270, J-280, J-335, J-345, J-355, J-365, J-375, J-460, J-465, J-470, and J-480 (For hard-wired connections only)

Continued on next page

## Installing a 3-Wire 120 VAC or 3-Wire 120/240 VAC Connection for Models J-210, J-220, J-315, J-325

The electrician should look carefully through these diagrams to gather the required information about the electrical tasks for the installation of these spas.

**Figure 6** The Spa Equipment Compartment

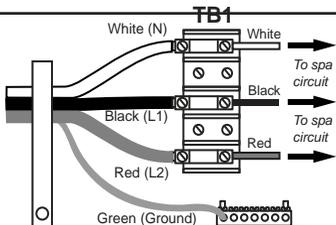
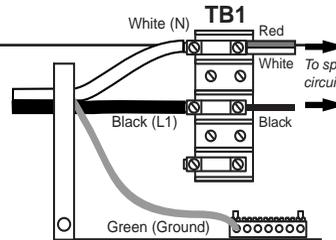


**Figure 6** The Control Box for Models J-210, J-220, J-315, and J-325

The 3-wire, 120 VAC connection is illustrated. The location of the TB1 terminal may vary between models.

**Figure 7** 3-wire, 120 VAC Connection for Models J-210, J-220, J-315, and J-325

Use the supplied CFGI cord for installations in the USA. Otherwise, hard wire a 3-wire connection.



**Figure 8** 3-wire, 240 VAC Connection for Models J-210, J-220, J-315, and J-325

For hard-wired connections, move the RED wire to terminal position #3 as shown.

## Final Electrical Connections

It is now time to make the final electrical connections to your spa. Various wiring diagrams appear on the next few pages. Each spa model has a slightly different configuration, so use the chart below to find the configuration for your spa.

<b>Configuration #</b>	<b>Details</b>
<b>1</b>	240 VAC Connections for Models J-230, J-270, J-280, J-335, J-345, J-355 J-365, J-460, J-465, J-470, J-480 (North America 60 Hz)
<b>2</b>	120 VAC Connections for Models J-210, J-220, J-315, J-325 (North America 60 Hz)
<b>3</b>	240 VAC Connections for Models J-210, J-220, J-315, J-325 (North America 60 Hz)

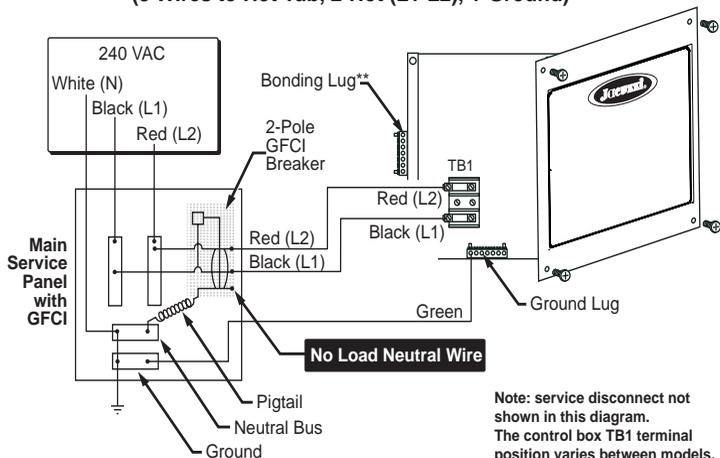
Ask your electrician to view the diagrams on the next few pages to ensure all connections are correct.

## Connection Configuration #1

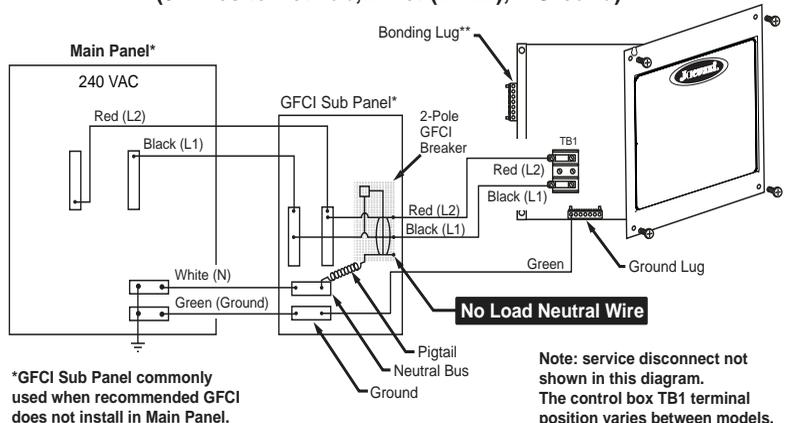
### 240 VAC Connections for Models J-230, J-270, J-280, J-335, J-345, J-355, J-365, J-375, J-460, J-465, J-470, J-480 (North America 60 Hz)

A pressure sensitive terminal block (bonding lug) is attached to the outside surface of the load box. This permits the connection of a bonding wire between this point and any metal equipment chassis, metal water pipe, or metal conduit within 5 ft (1.5 m) of the spa. The bonding wire must be at least #8 AWG (8.4 mm<sup>2</sup>) solid copper wire.

#### 2-Pole Circuit Breaker with 2-Wire Grounded Load Connection (3 Wires to Hot Tub, 2-Hot (L1-L2), 1-Ground)



#### Main Panel with Secondary GFCI Shut-Off Box Using a 2-Pole GFCI Breaker with 2-Wire Grounded Connection (3 Wires to Hot Tub, 2-Hot (L1-L2), 1-Ground)



## Connection Configuration #2

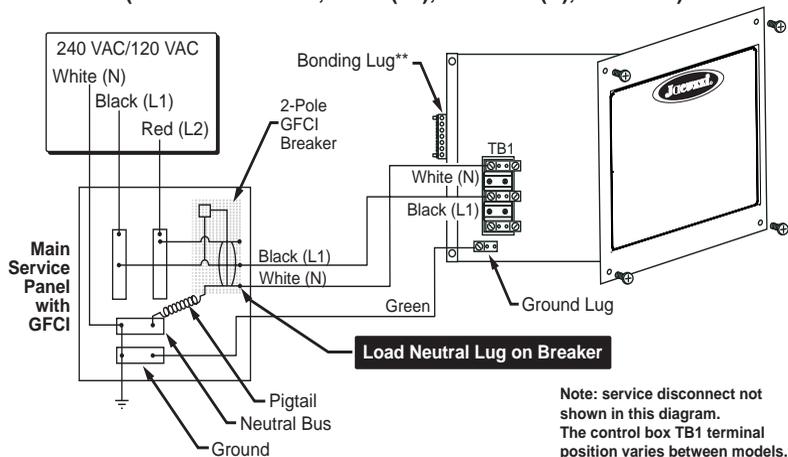
### 120 VAC Connections for Models J-210, J-220, J-315, J-325 (North America 60 Hz)

If the supplied 10 ft GFCI power cord (US only) cannot reach a dedicated, grounded wall outlet, it is necessary to install a 3-wire, hard-wired connection. These diagrams illustrate that configuration.

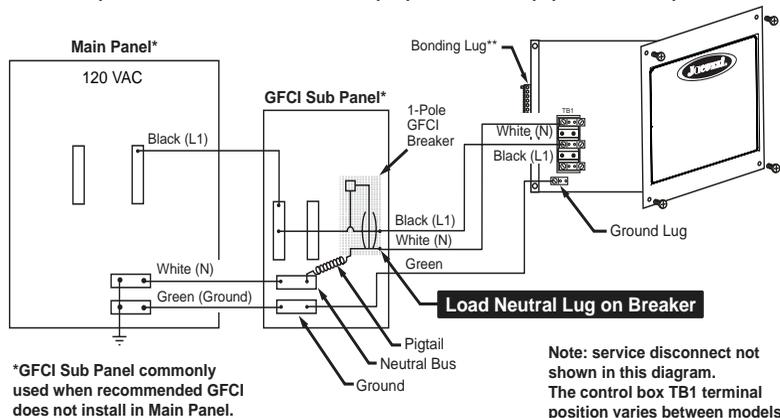
For enhanced heater performance the use of a 4-wire power connection is necessary.

A pressure sensitive terminal block (bonding lug) is attached to the outside surface of the load box. This permits the connection of a bonding wire between this point and any metal equipment chassis, metal water pipe, or metal conduit within 5 ft (1.5 m) of the spa. The bonding wire must be at least a #8 AWG (8.4 mm<sup>2</sup>) solid copper wire.

#### 2-Pole Circuit Breaker with 2-Wire Grounded Load Connection (3 Wires to Hot Tub, 1-Hot (L1), 1-Neutral (N), 1-Ground)



#### Main Panel with Secondary GFCI Shut-Off Box Using a 1-Pole GFCI Breaker with 2-Wire Grounded Load Connection (3 Wires to Hot Tub, 1-Hot (L1), 1-Neutral (N), 1-Ground)



\*GFCI Sub Panel commonly used when recommended GFCI does not install in Main Panel.

Note: service disconnect not shown in this diagram. The control box TB1 terminal position varies between models.

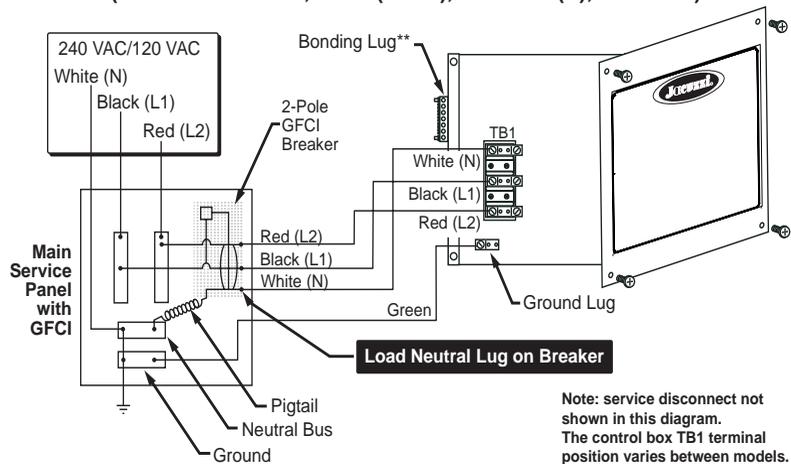
## Connection Configuration #3

### 240 VAC Connections for Models J-210, J-220, J-315, J-325

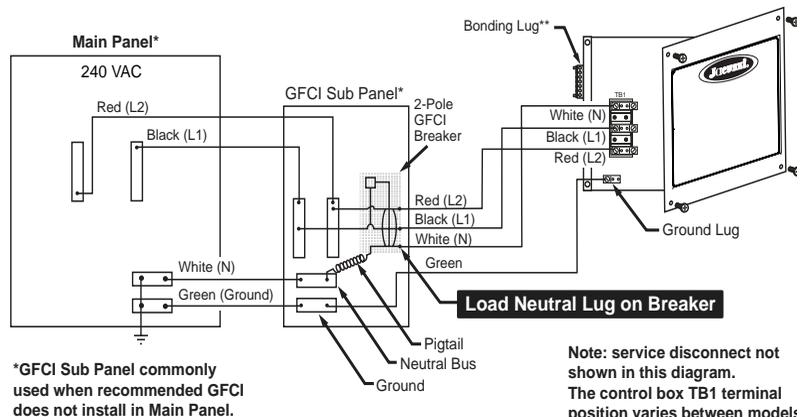
#### (North America 60 Hz)

A pressure sensitive terminal block (bonding lug) is attached to the outside surface of the load box. This permits the connection of a bonding wire between this point and any metal equipment chassis, metal water pipe, or metal conduit within 5 ft (1.5 m) of the spa. The bonding wire must be at least #8 AWG (8.4 mm<sup>2</sup>) solid copper wire.

#### 2-Pole Circuit Breaker with 3-Wire Grounded Load Connection (4 Wires to Hot Tub, 2-Hot (L1-L2), 1-Neutral (N), 1-Ground)



#### Main Panel with Secondary GFCI Shut-Off Box Using a 2-Pole GFCI Breaker with 3-Wire Grounded Load Connection (4 Wires to Hot Tub, 2-Hot (L1,L2), 1-Neutral (N), 1-Ground)



# Spa Dimensions and Specifications

## Useful Details About the Spa

The table below provides the spa dimensions and specifications that may be helpful when installing your spa. These specifications are approximate.

The filled weight specifications vary depending on the height of the spa's water. The filled weight is the weight of the spa (empty), plus the weight of the water at its maximum potential capacity (filled to the point of overflowing). The filled weight specifications do not include the weight of potential hot tub users who might be inside the hot tub. To ensure proper operation, the spa's water should always be above all the jets, and approximately one inch below all the pillows.

**NOTE** Always measure your spa before making critical design or delivery pathway decisions.

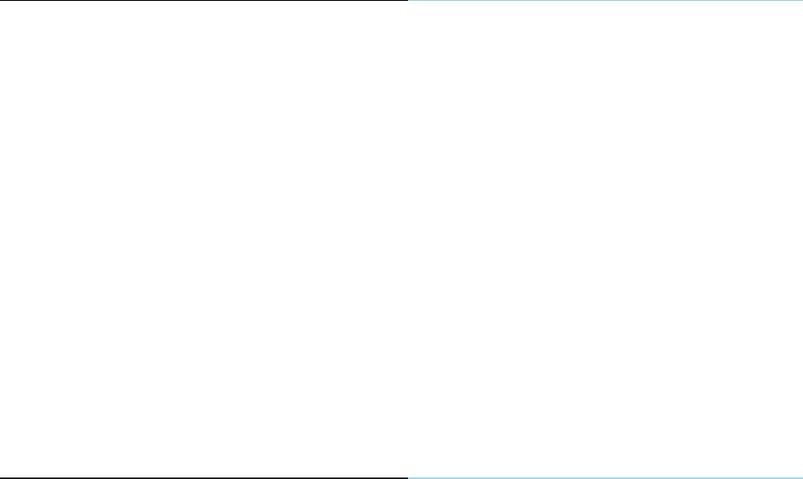
**NOTE** These specifications are subject to change without notice and are for reference only.

Model	Width	Length	Depth	Filled Weight	Min. Pad Size
J-480	94 in. (239 cm)	94 in. (239 cm)	39 in. (99 cm)	5707 lb. (2589 kg)	4 in. (102 mm)
J-470	91 in. (231 cm)	91 in. (231 cm)	39 in. (99 cm)	5385 lb. (2443 kg)	4 in. (102 mm)
J-465	88 in. (224 cm)	88 in. (224 cm)	39 in. (112 cm)	4821 lb. (2187 kg)	4 in. (102 mm)
J-460	89 in. (226 cm)	77 in. (196 cm)	34 in. (86 cm)	4163 lb. (1889 kg)	4 in. (102 mm)
J-375	91 in. (231 cm)	91 in. (231 cm)	38 in. (97 cm)	5633 lb. (2555 kg)	4 in. (102 mm)
J-365	91 in. (231 cm)	84 in. (213 cm)	38 in. (97 cm)	5060 lb. (2295 kg)	4 in. (102 mm)
J-355	91 in. (231 cm)	84 in. (213 cm)	38 in. (97 cm)	4929 lb. (2236 kg)	4 in. (102 mm)
J-345	84 in. (213 cm)	84 in. (213 cm)	36 in. (91 cm)	4644 lb. (2107 kg)	4 in. (102 mm)
J-335	84 in. (213 cm)	84 in. (213 cm)	36 in. (91 cm)	4592 lb. (2083 kg)	4 in. (102 mm)
J-325	76 in. (193 cm)	84 in. (213 cm)	34 in. (86 cm)	4183 lb. (1897 kg)	4 in. (102 mm)
J-315	76 in. (193 cm)	66 in. (168 cm)	32 in. (81 cm)	2787 lb. (1264 kg)	4 in. (102 mm)
J-280	91 in. (231 cm)	91 in. (231 cm)	37 in. (94 cm)	5311 lb. (2409 kg)	4 in. (102 mm)
J-270	91 in. (231 cm)	91 in. (231 cm)	37 in. (94 cm)	5236 lb. (2375 kg)	4 in. (102 mm)
J-230	84 in. (213 cm)	84 in. (213 cm)	36 in. (91 cm)	4316 lb. (1958 kg)	4 in. (102 mm)
J-220	84 in. (213 cm)	76 in. (193 cm)	36 in. (91 cm)	4065 lb. (1843 kg)	4 in. (102 mm)
J-210	78 in. (198 cm)	78 in. (198 cm)	36 in. (91 cm)	2987 lb. (1355 kg)	4 in. (102 mm)

**Notes:**

**Notes:**

Your Jacuzzi Hot Tubs Dealer is:



Hot Tubs

[www.jacuzzihottubs.com](http://www.jacuzzihottubs.com)  
14525 Monte Vista Avenue, Chino, CA 91710 / U.S.A.

P/N 2890-215T Rev A

©2008 USA, Jacuzzi Hot Tubs. All rights reserved.