



2004 Spa Pre-Delivery Guide

The guide to making your new Cal Spa installation easy.

Duplication without written consent is strictly prohibited.
This Pre-Delivery Guide is for spas manufactured after May 19, 2003
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Due to continuous improvement programs, all models, operation, and/or specifications are subject to change without prior notice.
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SERVICE INFORMATION

In the event of needed service for your Cal Spa, please fill out the following information and keep it on hand.

Spa Model: _____

Cover Type: _____

Spa Serial Number: _____

Date Purchased: _____

Date Installed: _____

Authorized Dealer's Phone Number: _____

Authorized Dealer's Address: _____

Authorized Service Center Phone Number: _____

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 pool or a spa by children under 5 years of age. Your Cal Spas dealer can provide information on which permits may be required and how to obtain them prior to delivery of your new Cal Spa.



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Congratulations on the purchase of your new Cal Spa. Welcome to our family. You can feel confident knowing that you have purchased the most technologically advanced spas in the industry. With a little preparation and care, your Cal Spa will give you many years of enjoyment. This booklet has been designed to provide you with all the information needed to ensure a safe and easy delivery and installation.

Please read this entire booklet before you schedule the delivery of your new Cal Spa.

NOTE: For inground and ported spas, please refer to the Inground and Ported Spas Pre-Delivery Guide.

PLANNING THE BEST LOCATION FOR YOUR CAL SPA

Here are some of the things you will need to consider when considering where to place your new Cal Spa.

SAFETY FIRST

Do not place your Cal Spa within 10 feet of overhead power lines.

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

Consider Your Privacy

In a cold-weather climate, bare trees in winter won't provide much privacy. Think of your spas surrounding during all seasons to determine your best privacy options. Consider the view of your neighbors as well, when you plan the location of your new Cal Spa.

Allow for Service Access

Many people choose to install tile or custom wood around their spas. If you're installing your spa with custom decorative trim, remember to allow access for future service. Should you need service, a technician may need to remove the spas side panels, or access the spa from beneath. It is always best to design special installations so that the spa can still be moved, or lifted from the ground.

PREPARING A GOOD FOUNDATION

Your new Cal Spa needs a good, solid, and level foundation. The area that it sits on must be able to support the weight of the spa, the water in it and those who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress to the spas' shell.

NOTE: Damage caused by inadequate or improper foundation support is not covered by the warranty. It is the responsibility of the spa owner to provide a proper foundation for the spa.

Most cement slabs are pitched, or slanted, for run-off. Proper drainage will keep components dry from rain and wet weather. Make sure that if you plan to place your spa on any other surfaces, they too have the ability to drain water away from the spa.

If you are installing your spa indoors, pay close attention to the flooring beneath the tub. Always remember that a spa is filled with water. Choose flooring that won't be spoiled or ruined from water damage.

A spa filled with water is heavy. If you are installing your spa on an elevated wooden deck or other structure, it is advisable to consult a structural engineer or contractor to ensure the structure will support 150 lbs. per square foot

To properly identify the weight of your new Cal Spa when full, remember water weighs 8.33 lbs. per gallon. For example, an average 8' Atlantic spa holds approximately 500 gallons of water. Using this formula, you will find that the weight of the water alone is 4,165 Lbs. Combined with the dry weight of the spa you will note that this spa will weigh approximately 5,000 Lbs. when full of water.

NOTE: Colder climates may require footings and/or decking to be deep enough to prevent frost line damage. Your dealer has the knowledge of local environment needs and preparations to ensure easy installation and years of performance.

NOTE: It is strongly recommended that a qualified and licensed contractor prepare the foundation for your spa. There is a minimum **3" depth requirement** for a concrete pad.

GETTING YOUR NEW CAL SPA INTO YOUR YARD

Check the Dimensions of Your New Cal Spa

The Cal Spas Specification Chart lists your spas model and its dimension as it sits on the delivery cart. During delivery, the spa must remain on the delivery cart at all times. Compare the dimensions to the width of the gates, sidewalks, and doorways along the delivery route. 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.

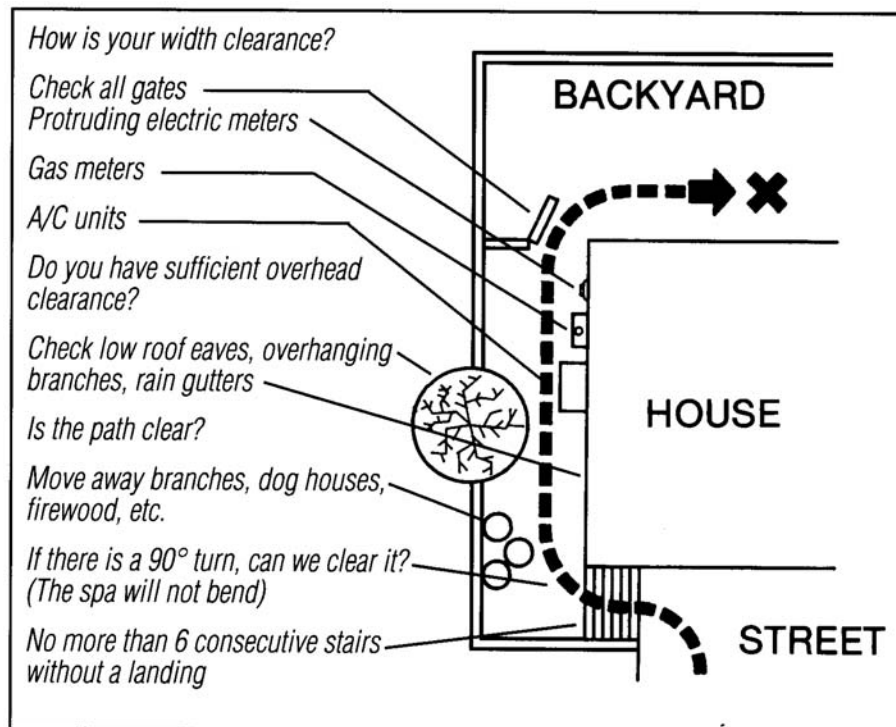
Plan the Delivery Route

Consider the following when planning your delivery route:

- Check the width of gates, doors and sidewalks to make sure your spa 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° turn, check the measurements at the turn to ensure the spa will fit.
- Are there protruding gas meters, water meters or A/C units on your home which will cause obstructions along 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 Cal Spas dealer prior to delivery to make adequate preparations.

Special Circumstances

The use of a crane for delivery and installation may become necessary if you are unable to provide an adequate delivery route. It is used primarily to avoid injury to your spa, your property or to delivery personnel. Your Cal Spas 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 generally **not included** in the standard delivery service.



ELECTRICAL REQUIREMENTS

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

Electrical Setup Before Delivery Of Your Spa

1. All 240V hot tubs must be permanently connected (hard-wired) to the power supply. 120V hot tubs may use a G.F.C.I. cord, plugged into a 20Amp grounded outlet. Supplying power to the spa which is not in accordance with these instructions will void both the independent testing agency listing and the manufacturer's warranty.
2. The power supplied to the spa must be on a dedicated circuit with no other appliances or lights sharing the power.
3. Determine the current, voltage, and wire size required for the spa configuration.
 - Wire size must be #6 AWG appropriate per NEC and/or local codes.
 - All wiring must be stranded copper to ensure adequate connections. We recommend THHN copper core wire.
 - **Do not use aluminum wire.**
4. The electrical supply for the spa must include a suitably 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 spas occupant but installed at least 5 feet (1.5m) from the hot tub water.
5. The electrical circuit for the spa must include a suitable ground fault circuit interrupter (GFCI) as required by NEC Article 680-42.
6. Never install the spas GFCI circuit breaker in the main electrical service panel. The GFCI must be located no closer than 5' and no further than 30' from the spa to ensure proper protection and operation.
7. Cal Spas only recommends the use of Square D or Siemens GFCI circuit breakers with both line and load control neutral leads. Use of any other GFCI circuit breakers may result in malfunction damage.

Acronym Legend

AWG - American Wire Gauge

ANSI - American National Standards Institute

THHN - Thermoplastic Insulated, Nylon Sheathed Heat, Moisture, Oil, Gasoline Resistant, 600V Copper Wire

NEC - National Electric Code

GFCI - Ground Fault Circuit Interrupter

NFPA - National Fire Protection Association

240V Electrical Installation

IMPORTANT: Proper grounding is extremely important. This spa is equipped with a current collector system. A pressure wire connector is provided to permit connection of a bonding wire between the spas and any metal within 5 feet of the hot tub. Bonding wire must be at least #8 AWG (8.4mm).

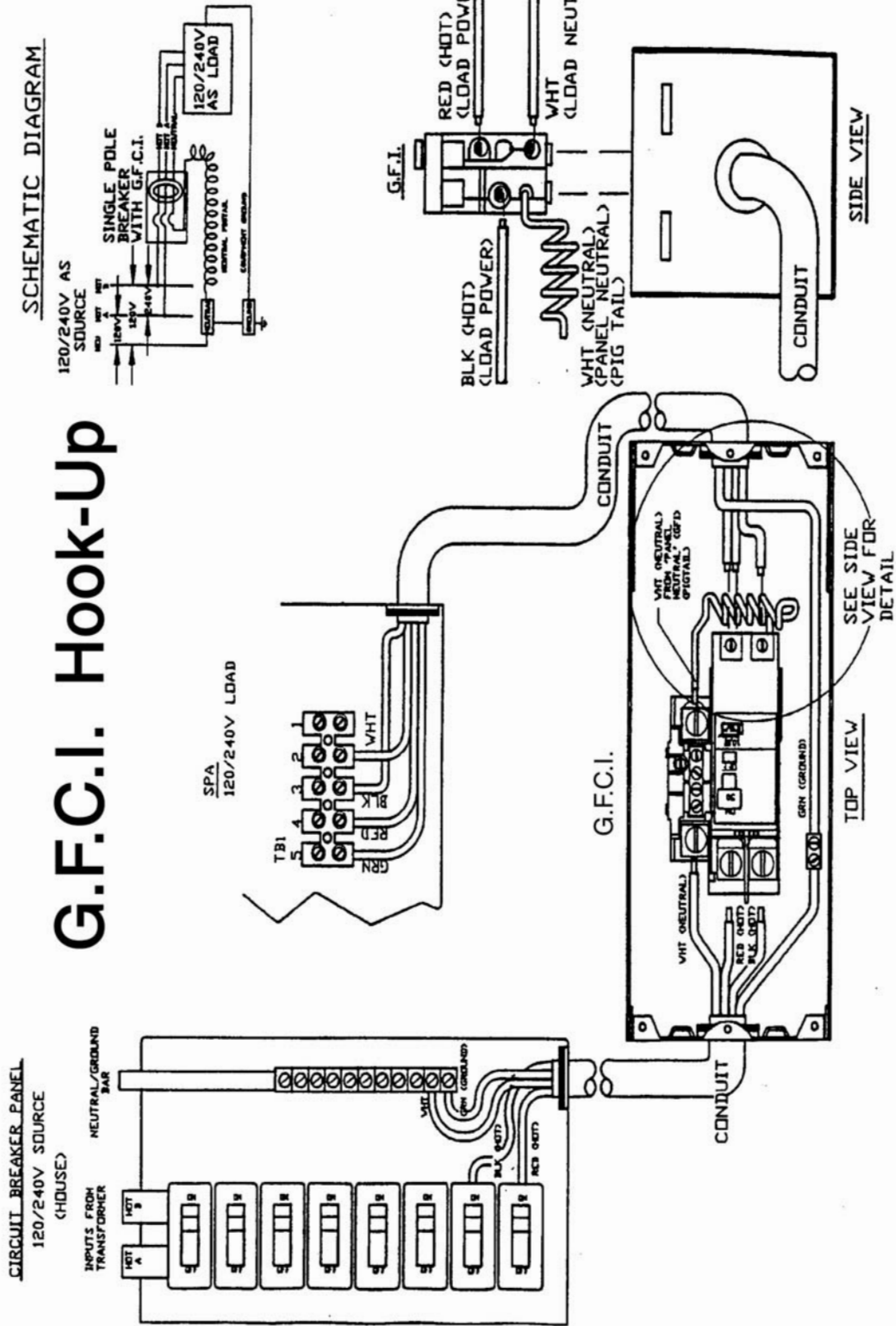
1. To gain access to the spas terminal strip. remove the cabinet panel on the front of the spa under the main topside control panel. After removing the cabinet panel, unscrew the door to the control box.
2. An inlet is provided to allow the power supply to enter the equipment area of the spa. Feed the cable or conduit through to the control box.
3. Install the cable with a connector through the large opening provided on the right side of the control box.
4. Connect wires, color to color, on the terminal strips and tighten securely.
5. Re-install the control box door and re-install the cabinet panel. Electrical installation is now complete.

120V Electrical Installation

IMPORTANT: Proper grounding is extremely important. This spa is equipped with a current collector system. A pressure wire connector is provided to permit connection of a bonding wire between the spas and any metal within 5 feet of the hot tub. Bonding wire must be at least #8 AWG (8.4mm).

1. To gain access to the spas terminal strip. remove the cabinet panel on the side of the spa under the control panel. After removing the cabinet panel, unscrew the door to the control box.
2. An inlet is provided to allow the power supply to enter the equipment area of the spa. Feed the cable or conduit through to the control box.
3. Install the cable with a connector through the large opening provided on the right side of the control box.
4. Connect wires, color to color, on the terminal strips and tighten securely.
5. Re-install the control box door and re-install the cabinet panel.
6. Only plug the GFCI into a dedicated 120V line with a 120V all-weather receptacle. Electrical installation is now complete.

G.F.C.I. Hook-Up



TECHNICAL SPECIFICATIONS

All sizes on this chart represent top-rail dimensions. Due to our continuous improvements, specifications, size and pricing are subject to change without prior notice.

<u>Model</u>	<u>Width</u>	<u>Length</u>	<u>Depth</u>	<u>Gallons</u>	<u>Dry Weight</u>	<u>Filled Weight</u>
V-100	78"	78"	36"	300	600 Lbs.	3099 Lbs.
V-200	77"	77"	31 1/2"	325	600 Lbs.	3307 Lbs.
V-300	77"	77"	31 1/2"	325	600 Lbs.	3307 Lbs.
V-400	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
V-500	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
V-600	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.
V-700	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
V-800	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.

<u>Model</u>	<u>Width</u>	<u>Length</u>	<u>Depth</u>	<u>Gallons</u>	<u>Dry Weight</u>	<u>Filled Weight</u>
J-501	66"	76"	32"	205	640 Lbs.	2348 Lbs.
J-502	76"	84"	33"	325	730 Lbs.	3437 Lbs.
J-503	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
J-504	84"	93"	39 1/2"	440	850 Lbs.	4515 Lbs.
J-505	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
J-506	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
J-507	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.
J-508	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.

<u>Model</u>	<u>Width</u>	<u>Length</u>	<u>Depth</u>	<u>Gallons</u>	<u>Dry Weight</u>	<u>Filled Weight</u>
Sierra	60"	72"	27"	195	350 Lbs.	1975 Lbs.
Sedona	77 1/2"	77 1/2"	36"	350	600 Lbs.	3516 Lbs.
Summit	77 1/2"	77 1/2"	36"	425	700 Lbs.	4240 Lbs.
Laguna	84"	84"	39 1/2"	425	700 Lbs.	4240 Lbs.
Shasta	84"	84"	39 1/2"	425	700 Lbs.	4240 Lbs.
Balboa	54"	78"	31"	125	350 Lbs.	4240 Lbs.
Kona	74"	84"	32"	300	600 Lbs.	3099 Lbs.
Vista	74"	84"	39 1/2"	375	600 Lbs.	3724 Lbs.
Pacifica	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
Tropical	84"	84"	39 1/2"	425	800 Lbs.	4340 Lbs.
Octagon	78"	78"	39 1/2"	300	700 Lbs.	3200 Lbs.
Hawaiian	77"	77"	31 1/2"	325	600 Lbs.	3307 Lbs.
Round	78"		36"	300	600 Lbs.	3099 Lbs.
Lounger	93 1/2"	93 1/2"	39 3/4"	450	900 Lbs.	4649 Lbs.

<u>Model</u>	<u>Width</u>	<u>Length</u>	<u>Depth</u>	<u>Gallons</u>	<u>Dry Weight</u>	<u>Filled Weight</u>
Atlantic	93"	93"	39 1/2"	450	800 Lbs.	4548 Lbs.
Cancun	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.
Malibu	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.
Bel Air	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.
Del Mar	96"	96"	39 1/2"	450	900 Lbs.	4649 Lbs.
Newporter	96"	130"	39"	800	1200 Lbs.	7864 Lbs.
El Grande	96"	135"	38 3/4"	900	1100 Lbs.	8597 Lbs.
Aqua	93"	93"	39 1/2"	450	900 Lbs.	4649 Lbs.
Echo	65 1/2"	84"	32"	125	535 Lbs.	1576 Lbs.
Champion	96"	174"	52 1/2"	1500	1500 Lbs.	13,995 Lbs.
Olympian	206"	96"	52 1/2"	2065	2100 Lbs.	19,001 Lbs.