

Pre-Delivery Guide

United States and Canada



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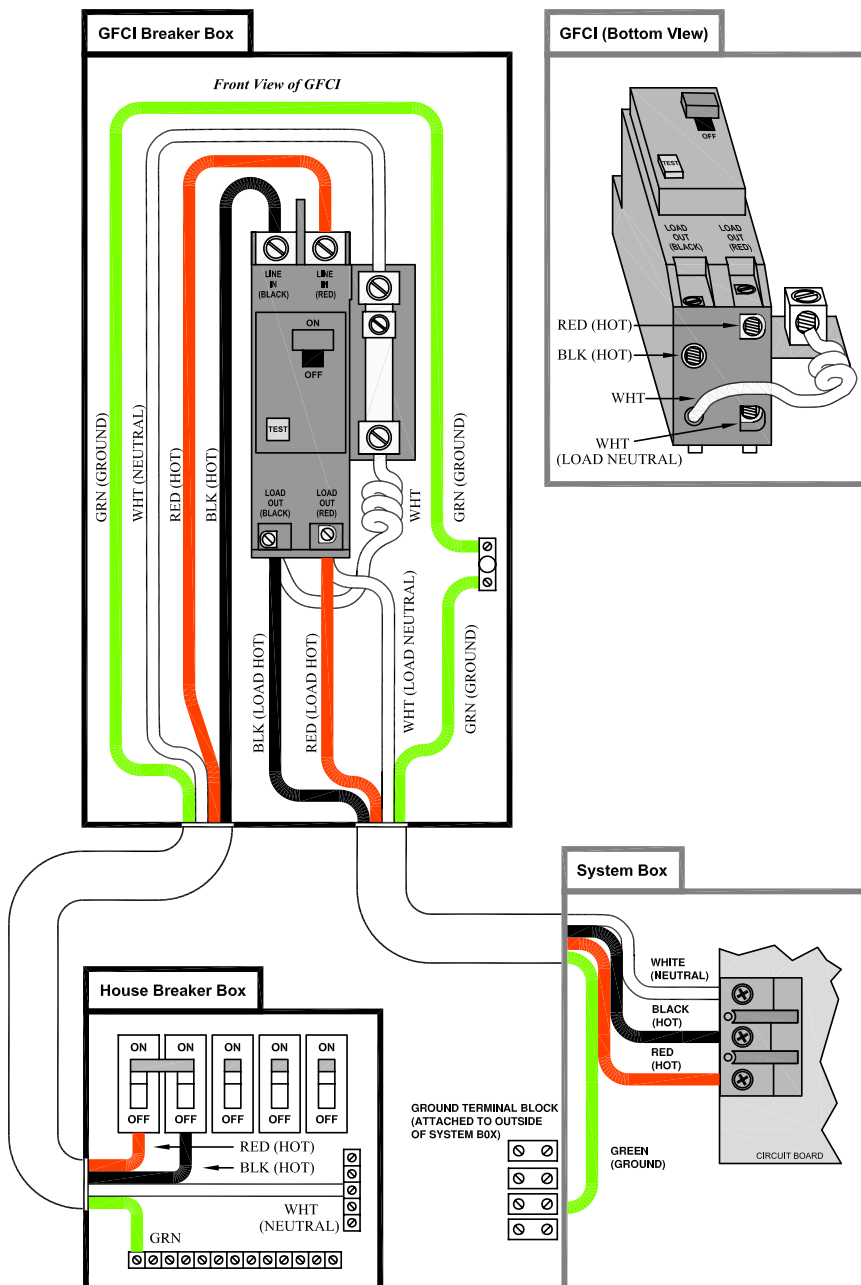
General Electrical Information



Electrical Requirements



Professional installation of the spas 240v electrical system is mandatory for both the safe operation of the spa, and for warranty coverage. Failure to properly install an independent 240 volt 50 amp GFCI may lead to dangerous risks such as electrical shock, electrical fires, damage to the spa or property, and the risk of possible injury or death of persons inside of or within the perimeter of a improperly installed spa.



Mandatory Wiring Requirements

- 6 Gauge Copper Wiring for All Wires for Spas Within 100 Feet of the House Breaker Box.
- 50 Amp GFCI Breaker Certified for Use in USA & Canada.
- Use Proper Colored Wiring, the Installation Must Match the Diagram.
- This GFCI is Wired to an Independent Circuit From the House Breaker Box, With No other Electrical Loads.

Additional Information

- Aluminum wire must not be used in this installation
- 4 gauge wire is recommended if the circuit is longer than 100 feet.
- Failure to properly follow any mentioned mandatory requirements will void the warranty of your spa, American Spas is not liable for any damages (physical or monetary), injury, or fire damage from improperly installed spas. It is the responsibility of the spa owner, to comply with all specified electrical requirements within this owners manual.

NEO Wiring Diagram



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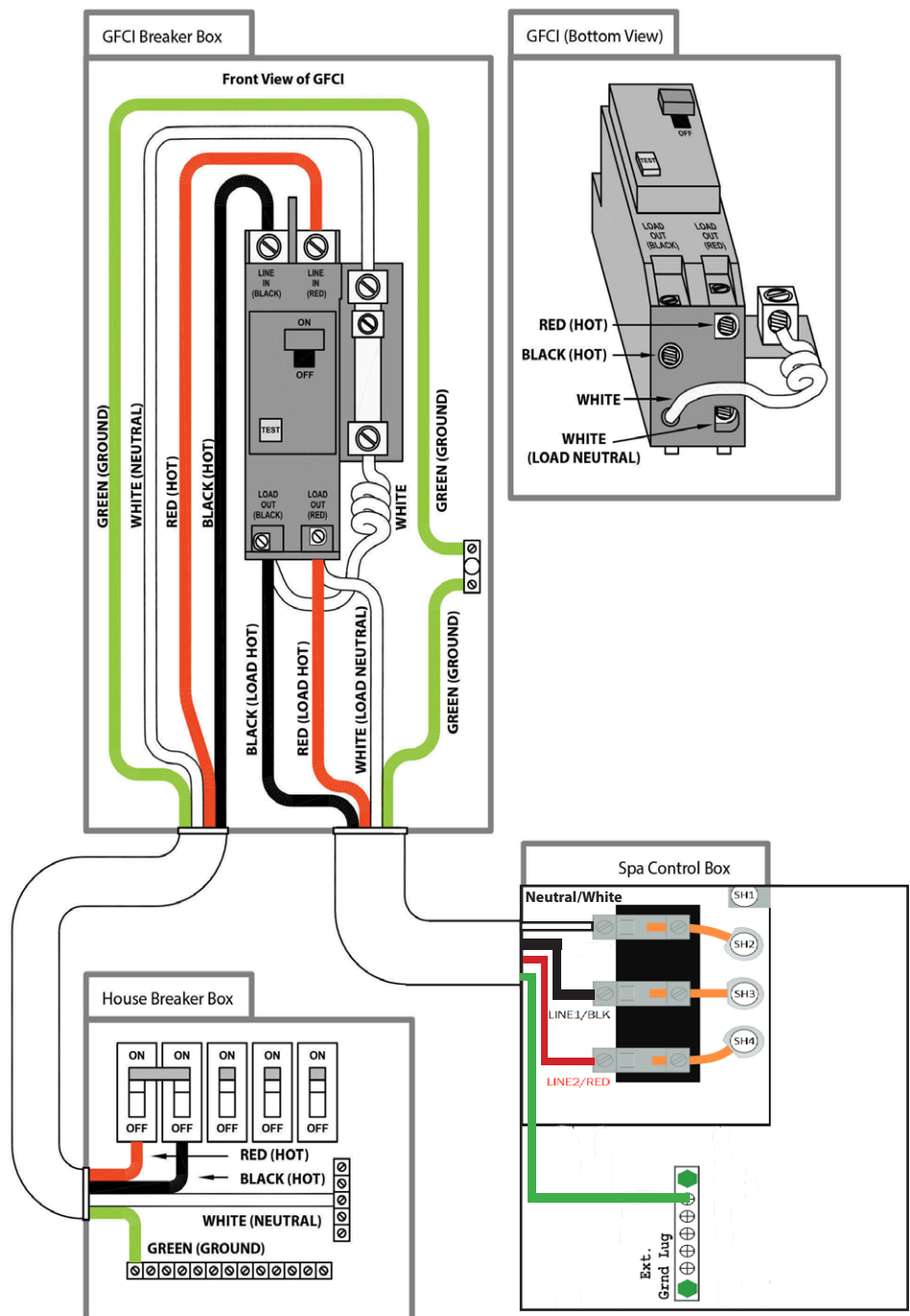


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Due to continuous improvement programs, all models, operation, and/or specifications are subject to change **without prior notice.**

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Contact Information

For customer service please contact LMS directly and inform them you are an American Spa customer. Have your spa serial number ready for our customer service team assist you.

LMS Customer Service Department
1462 East Ninth Street
Pomona, CA 91766

Toll Free: 1-800-225-7727
Fax: 1-909-629-3890

Preparing for Your New Portable Spa

Pre-Delivery Checklist

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 property to prevent unsupervised access to the property by children. Your dealer can provide information on which permits may be required and how to obtain them prior to the delivery of your spa.

Before Delivery	
	Plan your delivery route
	Choose a suitable location for the spa
	Lay a 5 - 8 cm concrete slab
	Install dedicated electrical supply
After Delivery	
	Place spa on slab
	Connect electrical components

Planning the Best Location

Safety First

Do not place your spa within 10 feet (3 m) of overhead power lines.

Consider How You Will Use Your Spa

How you intend to use your spa will help you determine where you should position it. For example, will you use your spa for recreational or therapeutic purposes? If your spa is mainly used for family recreation, be sure to leave plenty of room around it for activity. If you will use it for relaxation and therapy, you will probably want to create a specific mood around it.

Plan for Your Environment

If you live in a region where it snows in the winter or rains frequently, place the spa near a house entry. By doing this, you will have a place to change clothes and not be uncomfortable.

Consider Your Privacy

In a cold-weather climate, bare trees won't provide much privacy. Think of your spa's surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors as well when you plan the location of your spa.

Provide a View with Your Spa

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

Keep Your Spa Clean

In planning your spa's location, consider a location where the path to and from the house can be kept clean and free of debris.

Prevent dirt and contaminants from being tracked into your spa by placing a foot mat at the spa's entrance where the bathers can clean their feet before entering your spa.

Allow for Service Access

Make sure the spa is positioned so that access to the equipment compartment and all side panels will not be blocked.

Many people choose to install a decorative structure around their spa. If you are installing your spa with any type of structure on the outside, such as a gazebo, remember to allow access for service. It is always best to design special installations so that the spa can still be moved, or lifted off the ground.

Preparing a Good Foundation

Your spa needs a solid and level foundation. The area that it sits on must be able to support the weight of the spa, with water and the occupants who use it. If the foundation is inadequate, it may shift or settle after the spa is in place, causing stress that could DAMAGE YOUR SPA SHELL AND FINISH.

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.

Place the spa on an elevated 3 to 4" / 30 cm concrete slab. Pavers, gravel, brick, sand, timbers or dirt foundations are **not** adequate to support the spa.

We strongly recommend that a qualified, licensed contractor prepare the foundation for your spa.

If you are installing the spa indoors, pay close attention to the flooring beneath it. Choose flooring that will not be damaged or stained.

If you are installing your spa on an elevated wood deck or other structure, it is highly recommended that you consult a structural engineer or contractor to ensure the structure will support the weight of 150 pounds per square foot (732 kg / m²).

To properly identify the weight of your new spa when full, remember water weighs 8.33 lbs. per gallon, or 1 kg per liter. For example, an average 8' spa holds approximately 500 gallons, or 1892 liters, of water. Using this formula, you will find that the weight of the water alone is 4,165 lbs, or 1892 kg. Combined with the dry weight of the spa you will note that this spa will weigh approximately 5,000 lbs, or 2267 kg, when full of water.



Important: See pages 4 and 6 for planning the stub-up location before the foundation is laid.

Clearance for Service Access

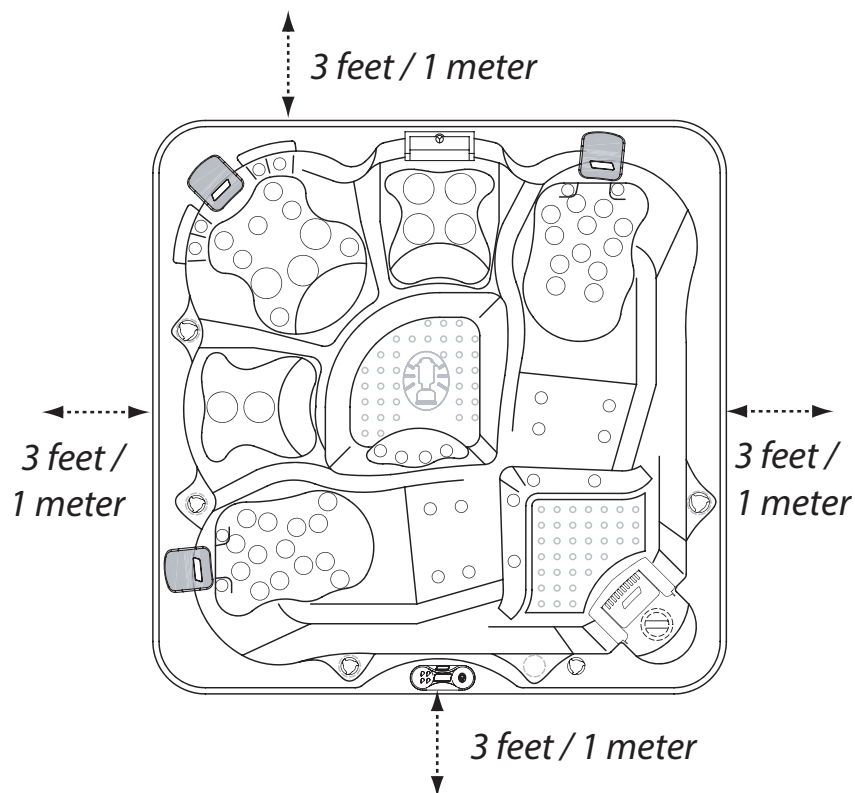
While you are planning where to locate your spa, you need to determine how much access you will need for service.

All spa models require a minimum of three feet / one meter access to all sides of the spa for potential service. For this reason, the spa should never be placed in a manner where any side is permanently blocked. Examples include placing the spa against a building, structural posts or columns, or a fence.

Spa models require access to all sides in case they need service or repair. See the figure below.

If you are planning to enclose or surround your spa with a deck, make sure there is easy access for service or repair.

Spas require clearance on all sides of the spa.



Electrical Service Stub-up

The location of the electrical service cable is a decision each spa owner needs to decide. Running the electrical cable lay on top of the slab is visually unappealing and can present a trip hazard.

Most spa owners prefer to bury electrical conduit before the slab is laid and run the cable up through the slab. The location of the conduit in the concrete slab is called the stub-up.

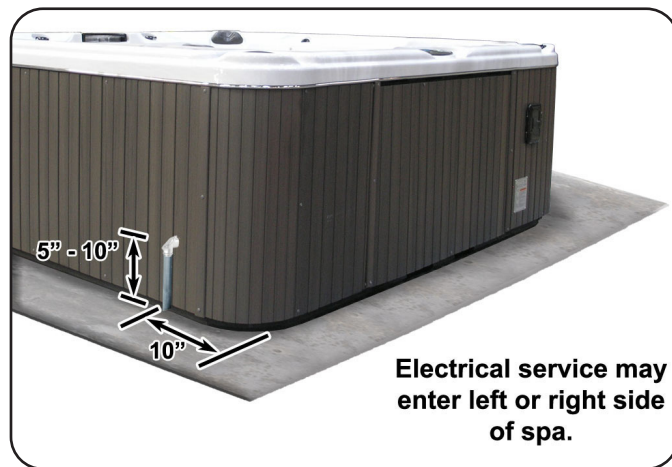
You will need to have a contractor lay down a concrete slab before the spa is delivered (as described on page 2). The stub-up needs to be located directly next to the cabinet as shown in the figures below.

The spa installer or electrician will need to drill a hole in the spa cabinet approximately 5" to 10" up from the concrete slab. This will be where the conduit will enter the spa equipment area.

Use rigid pipe and a metal elbow outside the spa. You can use flex pipe inside the equipment area to run the electrical wire from the elbow to the control box.

Square Spas

The stub-up for should be approximately 10" back from the front of the spa and no higher than 10" above the concrete slab. It can be placed on either the left or right side of the spa.



Getting the Spa Into Your Yard

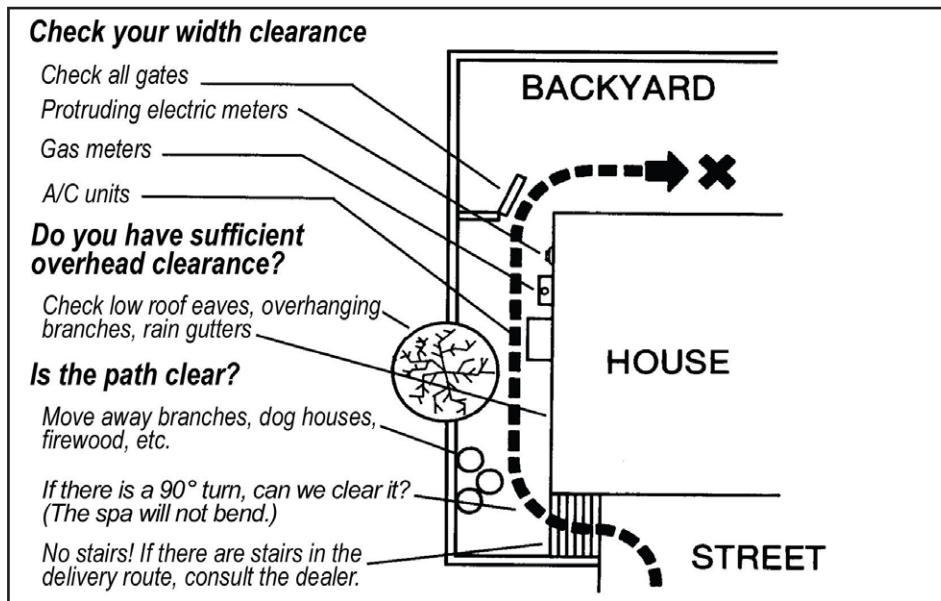
Check the Dimensions of Your New Spa

The specification chart on page 11 lists your spa's 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.
- Are there low roof eaves, overhanging branches or rain gutters that could be an obstruction to overhead clearance?
- 8' spas need at least 42" wide gate and 9' height 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 stairs in your delivery route? If so, you must consult your spa 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 spa 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

240V Electrical Installation

All 240V spas must be permanently connected (hard wired) to the power supply. See the wiring diagrams starting on page 8.

These instructions describe the only acceptable electrical wiring procedure. Spas wired in any other way will void your warranty and may result in serious injury.

When installed in the United States, the electrical wiring of this spa must meet the requirements of NEC 70 and any applicable local, state, and federal codes.

The electrical circuit must be installed by an electrical contractor and approved by a local building or electrical inspector.

Failure to comply with state and local codes

may result in fire or personal injury and will be the sole responsibility of the spa owner.

The power supplied to the spa must be on a dedicated GFCI protected circuit as required by NEC 70 with no other appliances or lights sharing the power.

Use copper wire with THHN insulation. Do not use aluminum wire.

Use the table below and on the next page to determine your GFCI and wiring requirements.

Wires that run over 100 feet must increase wire gauge to the next lower number. For example: A normal 50 amp GFCI with four #6 AWG copper wires that run over 100 feet would require you to go to four #4 AWG copper wires.

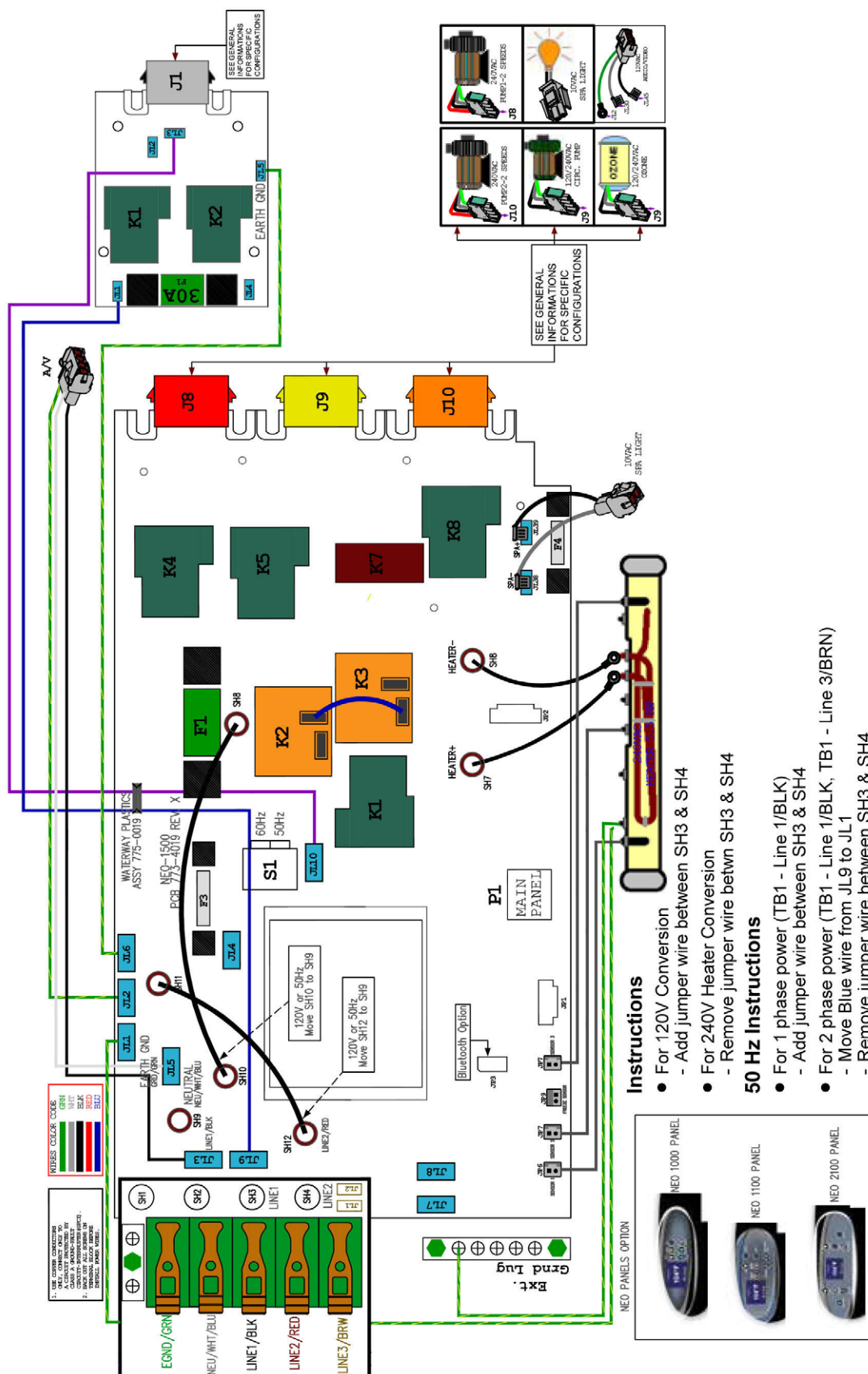
GFCI Test

Test the GFCI plug prior to first use and periodically when the spa is powered. To test the GFCI plug version, follow these instructions. (Spa should already be plugged in and operational.)

1. Press the TEST button on the GFCI. The GFCI will trip and the spa will stop operating.
2. Press the RESET button on the GFCI. The GFCI will reset and the spa will turn back on.

The spa is now safe to use.

Additional NEO Information



Spa Technical Specifications

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

Imperial Units

Model	Width (Inches)	Length (Inches)	Height (Inches)	Capacity (Gallons)	Dry Weight (Pounds)	Filled Weight (Pounds)
AM-745L	84	84	36	425	800	4340
AM-745B	84	84	36	425	800	4340
AM-730LS	84	84	36	425	800	4340
AM-730BS	84	84	36	425	800	4340
AM-7100L	84	84	36	425	800	4340
AM-7100B	84	84	36	425	800	4340
AM-740B	84	84	36	425	800	4340
AM-740L	84	84	36	425	800	4340
AM-756L	84	84	36	425	800	4340
AM-756B	84	84	36	425	800	4340

Metric Units

Model	Width (cm)	Length (cm)	Height (cm)	Capacity (liters)	Dry Weight (kg)	Filled Weight (kg)
AM-511RS1	99	round9	2	13361	59	1293
AM-628TS1	83	183	92	492	2727	64
AM-630LS2	13	188	92	12752	72	1545
AM-730LS2	13	213	92	16093	63	1969
AM-730BS2	13	213	92	16093	63	1969
AM-418B	121	218	83	757	2189	73
AM-420B	121	218	83	757	2189	73
AM-885L	213	236	91	17033	63	2109
AM-534L	163	213	91	855	2431	100
AM-637L	188	213	91	12873	36	1622
AM-756L	213	213	91	16093	63	1969
AM-756B	213	213	91	16093	63	1969
AM-885L	213	236	91	17034	08	2109



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