

# ELECTRICAL REQUIREMENTS

## SELECTING THE VOLTAGE FOR YOUR SPA

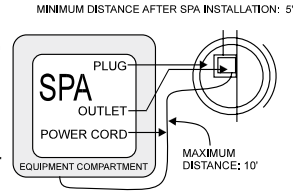
The TX operates on 115 volts 15 amp and the SX operates on 115 volts 20 amp 60 Hz. Both the SX and TX can also be converted to either 115 volt 30 amp or 230 volt 50 amp. The Tempo®, Relay® and Rhythm® models require a dedicated 230 volt power supply. When the TX or SX spas are connected to 115 volts 15/20 amp, the heater will provide approximately 1000 watts of heat only when the pump is operating in LOW speed and the thermostat is calling for heat. When the TX or SX spas are connected to 115 volts 30 amp, the heater will provide approximately 1000 watts of heat when the pump is operating in LOW or HIGH speed and the thermostat is calling for heat. When the TX or SX are connected to 230 volts 50 amps, the heater will provide approximately 4000 watts of heat when the pump is operating in LOW or HIGH speed and the thermostat is calling for heat.

All electrical connections must be made in accordance with the wiring information contained in the electrical control box or on the back of the field wiring access panel of the equipment module.

## STANDARD, CORD-CONNECTED 115 VOLT 15 OR 20 AMP CONFIGURATION

For your safety, if you are having an electrician install an electric outlet for the spa it should be no closer than 5 feet (152.4cm) and no further than 10 feet (304.8cm) from the spa. [Reference National Electrical Code 680 - 6a(1) and 680 - 41a.]

One GFCI is used in the cord-connected 15 or 20 amp configuration. The GFCI module is located at the end of the power cord. To test the GFCI, simply press the TEST button. The GFCI should trip to the “off” position, disconnecting power to the spa. To reset the GFCI, press the RESET button. The GFCI should reset, and power should be restored to the spa. If the GFCI does not function in this way, unplug the cord and contact an authorized Hot Spot® spa service technician.



**NOTE:** Consult your local code authority to determine if an electrical outlet with a cover is required for your installation. If it is, a suitable outlet cover may be purchased from your authorized Hot Spot dealer.

## 115 VOLT 20 AMP ELECTRICAL REQUIREMENTS

The SX spa model must be connected to a 115 volt, 20 amp grounded circuit. The equipment pack requires a MINIMUM of 104 volts under load. A dedicated circuit is required; the term “dedicated” means the electrical circuit is not being used for any other high-load electrical items (patio lights, appliances, garage circuits, etc.). If the spa is connected to a non-dedicated circuit, overloading will result in “nuisance tripping” of the internal fuses or of the breaker switch at the house electrical breaker panel.

The circuit must be properly wired; that is, it must have the following:

- Standard (cord-connected) 115 volt 20 amp (SX model) – A minimum 20 amp GFCI circuit breaker in the house panel, #12 AWG or larger wire (including the ground wire) and the correct polarity throughout the circuit.

In addition to the dedicated 20 amp, 115 volt GFCI protected circuit, your spa requires a 20 amp single receptacle. This receptacle, which contains an outdoor-rated, weather-resistant receptacle cover plate, will be provided to you. The single receptacle and cover plate should be installed by your electrician prior to the delivery of your spa.

A pressure wire connector is provided on the exterior surface of the spa’s electrical control box, located inside the equipment compartment. This is to permit the connection of a bonding ground wire between this point and any metal equipment, enclosures, pipe or conduit within five feet of the spa (if needed to comply with local building code requirements). The bonding wire must be at least a #8 AWG copper wire.

### NEVER CONNECT THE SPA TO AN EXTENSION CORD!

Each SX spa comes equipped with approximately 15 feet of usable power cord (this is the maximum length allowed by regulatory standards and the National Electric Code). The power cord is stored for shipping inside the spa. To

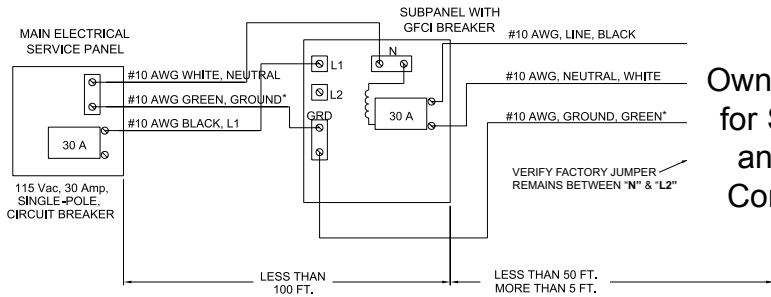
remove the power cord, open the equipment compartment and locate the cord. Carefully pull the cord out of the equipment compartment to the desired length.

**NOTE:** Canadian regulations prevent SX or TX spas to come with a power cord, and are require to be wired directly to the power source. Use Canadian Electrical Codes for electrical installation.

## 115 VOLT 30 AMP CONVERSION (SX & TX SPA MODELS)

To ensure you will have an opportunity to use your spa soon after delivery, it is very important that the required electrical service has been installed. Unless otherwise stipulated by your dealer, **THIS IS YOUR RESPONSIBILITY.**

**IMPORTANT:** All electrical circuits must be installed by a qualified, licensed electrician.



See  
Owner's Manual  
for Spa Wiring  
and Jumper  
Configuration

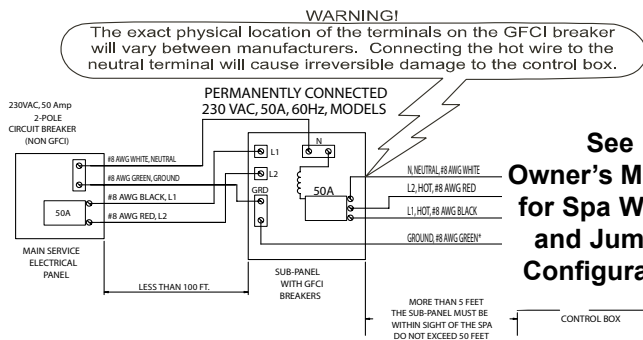
## 230 VOLT INSTALLATION (TEMPO®, RELAY® & RHYTHM® AND OPTIONAL FOR SX & TX CONVERTED SPA MODELS)

Your spa contains a control box designed to operate at 230V, 60Hz. Installation of a 50 amp, dedicated circuit is required for Tempo, Relay & Rhythm spas and optional for SX & TX spas. The control box must be hard wired directly to a subpanel protected by a Ground Fault Circuit Interrupter (GFCI). The subpanel containing GFCI breakers is included with the Tempo, Relay & Rhythm spa models only. Purchase the subpanel from you dealer for SX and TX models when converting to 230 volts.

**IMPORTANT NOTE:** All electrical connections to the control box must be accomplished by a qualified electrician in accordance with the National Electrical Code and in accordance with any local electrical codes in effect at the time and place of installation.

All electrical connections must be made in accordance with the wiring information contained in this manual and on the back of the field wiring access panel of the control box. A licensed electrician should install a four-wire electrical service (two line voltages, one neutral, one ground) from the main electrical service panel to the subpanel.

Your electrician should mount the subpanel in the vicinity of the spa but it should not be closer than five (5) feet from the spa water edge (NEC 680-38 to 41-A-3).



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