

# Electrician Wiring Guide

Hot Spring® Hot Spot® Collection

East Texas Hot Tub Company

Tyler & Longview, Texas

(903) 561-7727 • easttexashottub.com

## Model Overview — Know Your Configuration

Model	Ships As	Convertible to 230V?	Electrician Needed?
Relay	230V / 50A hardwired	N/A — ships as 230V	Yes
Rhythm	230V / 50A hardwired	N/A — ships as 230V	Yes
Pace	115V / 20A plug-in	Yes	Only if converting to 230V
Stride	115V / 20A plug-in	Yes	Only if converting to 230V
SX	115V / 20A plug-in	Yes	Only if converting to 230V
TX	115V / 15A plug-in	Yes	Only if converting to 230V

## Section A: 115V Plug-In Models (Pace, Stride, SX, TX)

These models arrive ready to plug in. No hardwiring needed unless converting to 230V.

Specification	Requirement
Voltage	<b>115V</b> , single phase, 60 Hz
Circuit breaker	<b>20 amp</b> (Pace, Stride, SX) or <b>15 amp</b> (TX) — GFCI-protected
Circuit type	<b>Dedicated</b> — no other appliances or lights on this circuit
Wire gauge	<b>#12 AWG</b> copper minimum (including ground)
Outlet	15 or 20 amp single receptacle with <b>outdoor-rated weatherproof cover</b>
Outlet distance from spa	<b>No closer than 5 feet, no farther than 10 feet</b>
Power cord	~15 feet included (UL maximum length)
GFCI location	<b>Built into the power cord</b> (inline GFCI with TEST/RESET buttons)

### ⚠ 115V LIMITATIONS

- **Never use an extension cord.** It voids the warranty and creates a shock/fire hazard.
- At 115V, the heater operates at only **1,000 watts**.
- The heater and jet pump **cannot run simultaneously** — when jets are on, the heater shuts off.
- This means **slower heat-up times** and temperature drop during use.

## Section B: 230V Hardwired Models (Relay & Rhythm)

Also applies to Pace, Stride, SX, and TX **after conversion to 230V**.

### Main Electrical Panel

Specification	Requirement
Voltage	<b>230 VAC</b> , single phase, 60 Hz

Main breaker	<b>50 amp, 2-pole, NON-GFCI</b>
Circuit type	Dedicated — no other loads on this circuit

### Wire Sizes — Main Panel to Subpanel

For wire runs **under 100 feet**. Longer runs require larger gauge wire.

Wire	Gauge (AWG)	Color
Line 1 (L1)	<b>#8 AWG</b> copper	<b>Blue</b>
Line 2 (L2)	<b>#8 AWG</b> copper	<b>Red</b>
Neutral	<b>#8 AWG</b> copper	White
Ground	<b>#10 AWG</b> copper	<b>Green</b>

**ALL WIRING MUST BE COPPER.** Aluminum wire is not permitted.

### Subpanel Placement

Requirement	Detail
Minimum distance from spa	<b>5 feet</b> from water's edge
Maximum distance from spa	<b>50 feet</b>
Line of sight	Must be visible from the spa — <b>required by NEC</b>

## Subpanel — Dual GFCI Breaker Configuration

The subpanel is **included with Relay & Rhythm**. For Pace, Stride, SX, and TX converting to 230V, the subpanel must be purchased from East Texas Hot Tub.

Breaker	Wire	Gauge	Color	Connects to
30A GFCI (Heater)	L1	#10 AWG	Blue	TB-1 Terminal 1
	L2	#10 AWG	Red	TB-1 Terminal 3
	Neutral	#10 AWG	White	Load neutral on 30A breaker
20A GFCI (Pump/Controls)	L1	#12 AWG	Blue	TB-1 Terminal 2
	L2	#12 AWG	Red	TB-1 Terminal 4
Ground	Ground	#10 AWG	Green	GRD terminal

### ⚠ CRITICAL WARNINGS

- The **white neutral wire** MUST connect to the **load neutral terminal on the GFCI breaker** — NOT the neutral bus bar.
- **Connecting a hot wire to the neutral terminal will cause IRREVERSIBLE DAMAGE** to the control box. Terminal positions vary by GFCI breaker manufacturer — verify before connecting.
- Do not remove or bypass GFCI breakers — voids warranty.
- **Fill the spa with water BEFORE turning on power.**

## 230V Conversion (Pace, Stride, SX & TX)

Converting from 115V to 230V requires **both** an authorized Hot Spring service technician AND a licensed electrician. The conversion involves internal control box wiring changes — **improper conversion voids the warranty**.

**Benefits of 230V conversion:** Heater output jumps from 1,000W to **4,000W**. Heater and jet pump can run simultaneously. Dramatically faster heat-up times and consistent temperature during use.

## Control Box Connections

Access the IQ 2020 control box via the **3/4" threaded opening** on the side of the spa. Use **3/4" liquid-tight flex conduit**. Terminal block (TB-1) uses **cage-clamp connectors** — strip wire 1/2 inch.

## Bonding Requirements (NEC Article 680)

- Minimum **#8 AWG solid copper bonding conductor** to all metal within 5 feet of the spa (ladders, water pipes, metal equipment, conduit, reinforced concrete rebar).
- Bonding terminal (pressure wire connector) is on the outside of the control box.
- No electrical appliances within 5 feet of the spa.

## GFCI Testing

### 230V (Subpanel GFCI Breakers)

1. Press **TEST** on each GFCI breaker — it should click to OFF.
2. Wait **30 seconds**, push fully OFF, then back to ON.

### 115V (Cord-Connected GFCI)

1. Press **TEST** on the inline GFCI — spa should stop, indicator goes out.
2. Wait **30 seconds**, press **RESET** — power should restore.
3. If it doesn't work correctly, disconnect and contact East Texas Hot Tub.

### Quick Reference — 115V vs. 230V

Feature	115V	230V
Heater output	1,000W	<b>4,000W</b>
Heat + jets simultaneously	No	<b>Yes</b>
Main breaker	15A or 20A	50A (2-pole, non-GFCI)
Subpanel breakers	N/A	20A GFCI + 30A GFCI
Connection type	Plug-in cord (~15 ft)	Hardwired
Outlet/subpanel distance	5–10 feet	5–50 feet

### Permit & Inspection

Most Texas cities/counties require an electrical permit for new 230V circuits. Check with your local building department.

**Questions?** Call East Texas Hot Tub at **(903) 561-7727** or email [tuckerg@ilovemyspa.com](mailto:tuckerg@ilovemyspa.com). We can recommend licensed electricians in the Tyler and Longview area.

This guide is provided as a reference for licensed electricians. Always refer to the spa's owner's manual and the National Electrical Code for complete requirements.

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