

Power Installation

For 4-wire 240V power installations the incoming Line-1, Line-2, and Neutral wires will need to be connected to the correspondingly labeled power lugs on the circuit board. The ground wire will need to be connected to the ground lug fastened to the aluminum frame right next to the board.

For 3-wire 240V power installations the incoming Line-1 and Line-2 wires will need to be connected to the correspondingly labeled power lugs on the circuit board. The incoming Line-2 will also need to be brought to the Neutral power lug. The ground wire will need to be connected to the ground lug fastened to the aluminum frame right next to the board.

For 120V power installations the 240V transformer will need to be swapped out with it's 120V equivalent. The incoming Line-1 and Neutral wires will need to be connected to the correspondingly labeled power lugs on the circuit board. The incoming Neutral will also need to be brought to the Line-2 power lug on the circuit board.

Equipment Connection

The Circulation Pump receptacle is for circulation pumps (< 2Amps) only.

C5 controls uses the red wire for low-speed operation of Pump-1 and Pump-2, and the black wire for hi-speed. Connecting a single speed pump as Pump-1 for both operating the jets and heating/filtration is not recommended, but if you must use a single speed pump for both, you must connect the red and black wires of the pump cable together up to the high speed terminal on the back of the pump's motor to both operate jets and heat/filter.

If you are connecting an air blower or third pump to the Auxiliary receptacle, then if there is a two speed Pump-2 it must be wired for single speed (no red wire) operation at the back of the motor.

The Pump-1 and Pump-2 receptacles are pre-wired for 240V. The Ozone, Circulation Pump, Auxiliary, and Audio receptacles are all pre-wired for 120V (As well as the gas heater pilot receptacle if applicable.).

These receptacles are all dyed different colors, and have white wires striped with their respective receptacle's color. To change the voltage of a receptacle simply move it's correspondingly color striped white wire at the power lugs from Neutral to Line 2 to convert to 240V, or from Line 2 to Neutral to convert to 120V.

For more information, reference the Installation and Service Manual. If you are qualified and licensed service provider, contact United Spas, Inc. or visit the web site at unitedspas.com to obtain a copy.

UNITED SPAS

C5 Series

Quick Installation Reference & Wiring Diagram



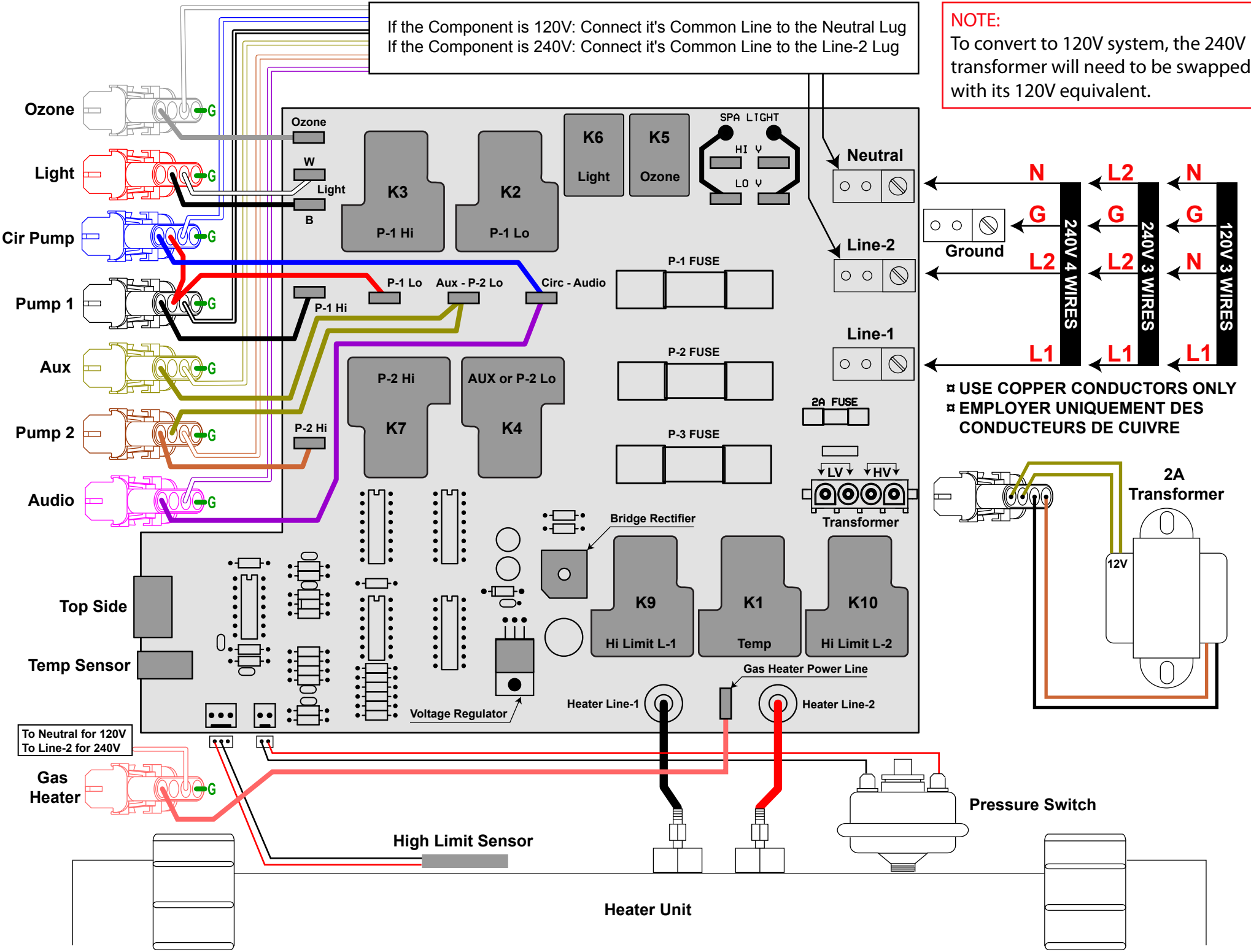
This reference card is provided solely to aid qualified spa service technicians in installing United Spas controls!

United Spas control systems have absolutely no end user serviceable parts. United Spas does not authorize attempts by the spa owner/user to install or repair/service any United Spas products.

Please contact your dealer or a locally licensed service center for installation and technical support.

If the Component is 120V: Connect it's Common Line to the Neutral Lug
 If the Component is 240V: Connect it's Common Line to the Line-2 Lug

NOTE:
 To convert to 120V system, the 240V transformer will need to be swapped with its 120V equivalent.



⚠ USE COPPER CONDUCTORS ONLY
 ⚠ EMPLOYER UNIQUEMENT DES CONDUCTEURS DE CUIVRE

To Neutral for 120V
 To Line-2 for 240V

Heater Unit

2A Transformer

12V

Pressure Switch

High Limit Sensor

Heater Line-1

Heater Line-2

Gas Heater Power Line

Bridge Rectifier

Transformer

2A FUSE

P-3 FUSE

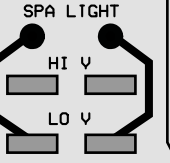
P-2 FUSE

P-1 FUSE

Line-1

Line-2

Neutral



K6 Light

K5 Ozone

K3 P-1 Hi

K2 P-1 Lo

Ozone W

Light B

P-2 Hi

K7

AUX or P-2 Lo

K4

P-1 Lo

Aux - P-2 Lo

Circ - Audio

Top Side

Temp Sensor

Voltage Regulator

Gas Heater

High Limit Sensor

Heater Unit

Pressure Switch

Ozone

Light

Cir Pump

Pump 1

Aux

Pump 2

Audio

Top Side

Temp Sensor

Gas Heater

