



# IMPORTANT INFORMATION

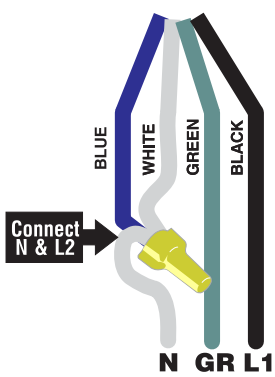
## PLEASE READ CAREFULLY BEFORE INSTALLATION



### HYDRO-QUIP MECHANICAL CONTROL SYSTEMS

## INCOMING POWER CONNECTION

### OPTION 1

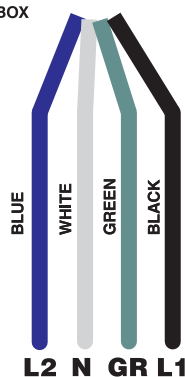


120-VOLT ELECTRICAL SERVICE REQUIREMENTS:

Line 1, Neutral and Ground.

Note: For 120V operation Neutral & Line 2 MUST be connected for system to operate properly.

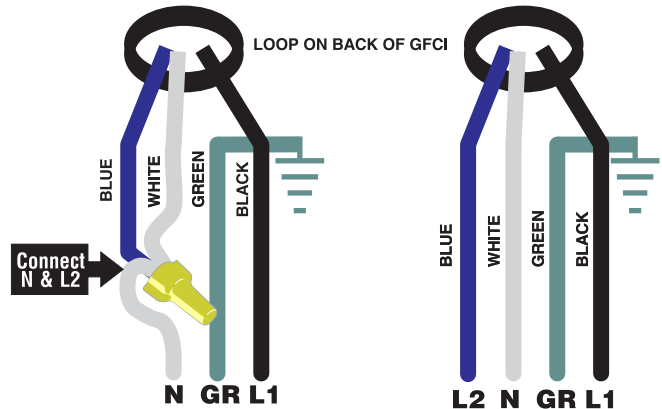
### OPTION 2



240-VOLT ELECTRICAL SERVICE REQUIREMENTS:

Line 1, Line 2, Neutral and Ground.

### HIGH CURRENT GFCI INSTALLED



120 & 240-VOLT ELECTRICAL SERVICE REQUIREMENTS:

240V: Line 1, Line 2, Neutral and Ground.  
120V: Line 1, Neutral and Ground

Note: For 120V operation Neutral & Line 2 MUST be connected for system to operate properly.

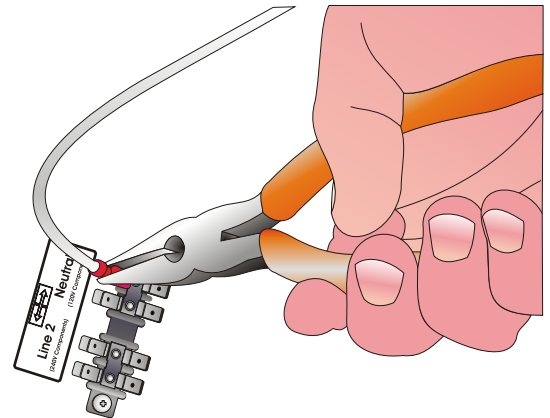
## COMPONENT CONVERSION

The control system has been configured for 120V operation at the factory. This is to prevent accidental damage to equipment. A 240V component connected momentarily to a 120V power supply will not be damaged. A 120V component connected to a 240V power supply can be damaged immediately. For this reason Hydro-Quip cannot be held responsible for damage caused due to mis-wire.

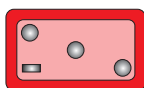
### !! IMPORTANT !! All Circuits are Universal

Below are illustrations and instructions for converting the universal circuits of your control. Colored connectors are utilized to help identify each circuit. Simply locate the colored connector on the Neutral (white) wire from each components receptacle. Using the wiring diagram provided with each control (located inside the hinged cover), remove the Neutral connector from its 120V / Neutral position and reconnect to the 240V / Line 2 connection. Once accomplished the conversion is complete. Repeat these steps as required for each 240V component.

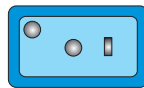
CIRCUIT	COLOR	CIRCUIT	COLOR
PUMP 1	RED	OZONE	YELLOW
PUMP 2	VIOLET	CIRC. PUMP	BROWN
BLOWER	BLUE		



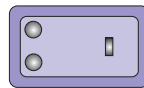
## RECEPTACLE & CORD IDENTIFICATION



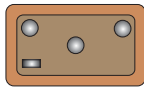
RED:  
Pump 1 / 2-Speed



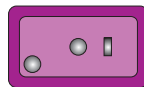
BLUE:  
Circ. Pump



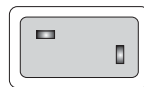
LIGHT PURPLE:  
Switched Accessory/Slide/Versi Heat Control



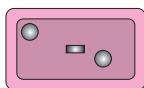
BROWN:  
Pump 2 / 2-Speed



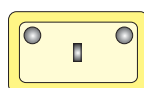
PURPLE:  
Air Blower / 1-Speed



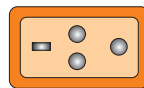
WHITE:  
12V Light or Fireman's Switch



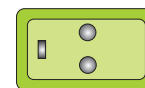
PINK:  
Pump 1 or 2 / 1-Speed



YELLOW:  
Ozone



ORANGE:  
Fiber Optic



GREEN:  
Hot Auxiliary Circuit



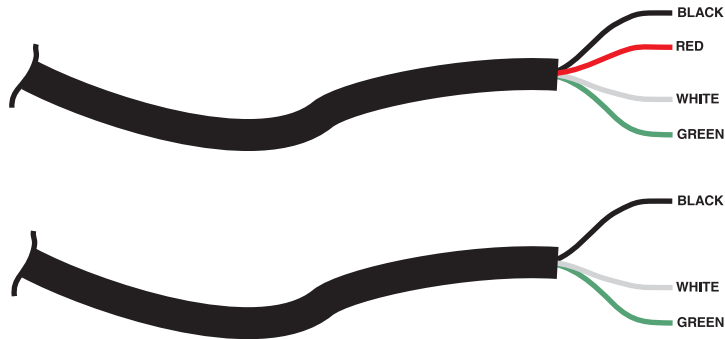
# IMPORTANT INFORMATION

## PLEASE READ CAREFULLY BEFORE INSTALLATION



### HYDRO-QUIP MECHANICAL CONTROL SYSTEMS

## PUMP & ACCESSORY CORD CONNECTION



#### HYDRO-QUIP 2-SPEED PUMP CORD CONFIGURATION

Hydroquip utilizes the following wiring configuration for our Two-Speed pump circuits:

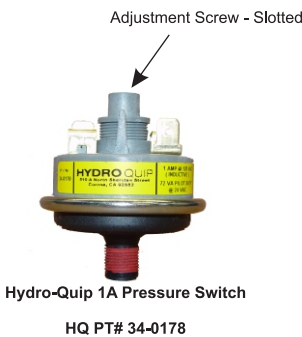
**Black = High Speed**  
**Red = Low Speed**  
**White = Common**  
**Green = Ground**

#### HYDRO-QUIP ACCESSORY CORD CONFIGURATION

Hydroquip utilizes the following wiring configuration for our accessory and single speed pump circuits:

**Black = Hot/Line**  
**White = Common**  
**Green = Ground**

## MOUNTED HEATER PRESSURE SWITCH ADJUSTMENT



- 1) With power to system turned OFF, locate the pressure switch that is screwed into the stainless steel heater housing.
- 2) Place an Ohmmeter across the pressure switch terminals to verify an OPEN circuit. If the switch is closed at this point rotate the adjustment screw clock-wise until the switch reads OPEN.
- 3) Turn power to the system ON and activate the low-speed pump.
- 4) Place an Ohmmeter across the pressure switch terminals to verify an CLOSED circuit.
- 5) If switch is not closed rotate the pressure switch adjustment screw counter-clockwise until the Ohmmeter indicates a CLOSED circuit.
- 6) Now test for proper operation of the system with the pump running and with the pump off, no error codes should be present in either instance.

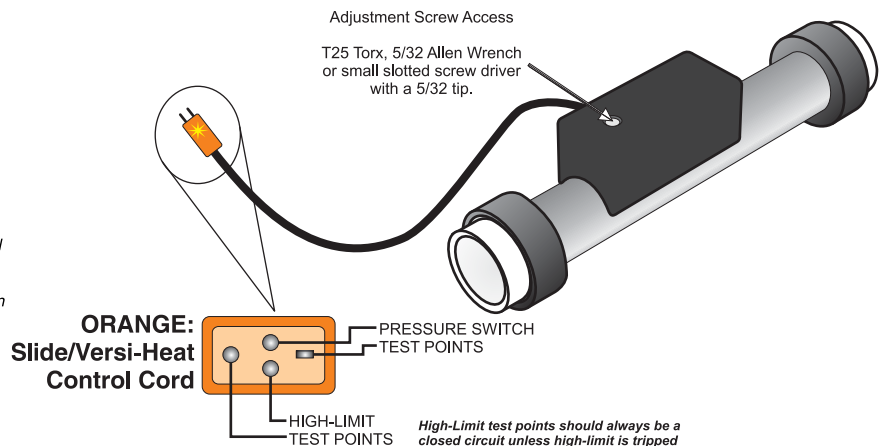
**IMPORTANT:** After any pressure switch adjustment, it is important to test the control by turning on the pump low speed and heater. While operating, unplug the pump, the heater must turn off. If the heater stays on, plug the pump back in and readjust the pressure switch to achieve proper operation.

## SLIDE/VERSI-HEAT PRESSURE SWITCH ADJUSTMENT

**Note:** If the Orange cord is lit and the pump will not activate this is an indication of a tripped high-limit. Remove power from the control system or unplug the Orange cord and allow the heater to cool, the high-limit will automatically reset once the temperature of the heater housing drops below 100°F.

**\*\*FOR ALL TESTS & ADJUSTMENTS UNPLUG THE "HEATER POWER" CORD\*\***

- 1) With power to system turned ON and the pump turned OFF, observe the Orange Heater Control cord plug. The plug should be lit, if it is not lit proceed to Step #2.
- 2) With power to system turned ON and the pump turned OFF rotate the pressure switch adjustment screw clock-wise just until the cord lights up.
- 3) Now use the timer to activate the pump (push the teeth outward). Observe the Orange cord, it should not be lit and the heater indicator on the front of the control system should be lit.
- 4) Now test for proper operation of the system. Activate the pump with the timer then unplug the pump (RED plug) while the pump is running, the Orange cord should light almost immediately indicating that the pressure switch opened properly. If it does not operate as described plug the pump back in and repeat step #1 until proper operation is observed.



**IMPORTANT:** After any pressure switch adjustment, it is important to test the control by turning on the pump low speed and heater. While operating, unplug the pump, the heater light on the front of the control system must turn off. If the heater light stays on, plug the pump back in and readjust the pressure switch to achieve proper operation.