



IMPORTANT INFORMATION

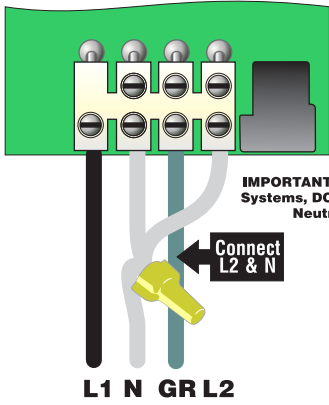
PLEASE READ CAREFULLY BEFORE INSTALLATION



HYDRO-QUIP SOLID-STATE CONTROL SYSTEMS

INCOMING POWER CONNECTION

OPTION 1



IMPORTANT - 3-Wire 240V Systems, DO NOT Connect Neutral Wire

Connect L2 & N

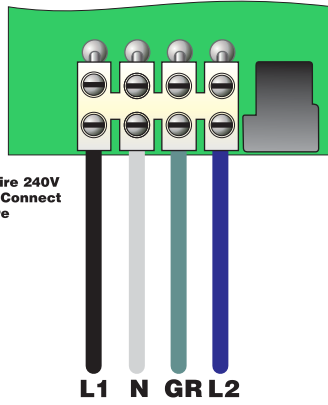
L1 N GR L2

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.

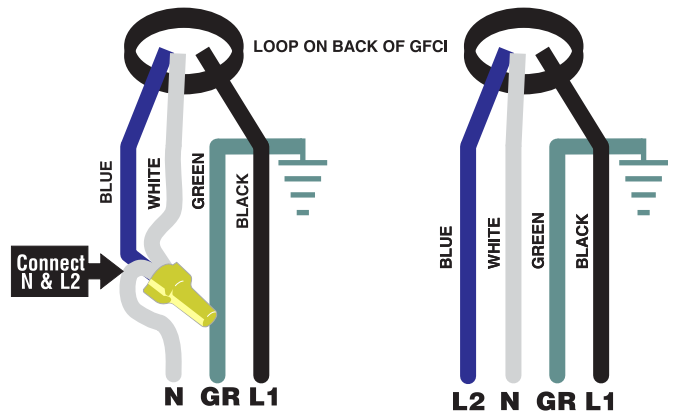
OPTION 2



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.

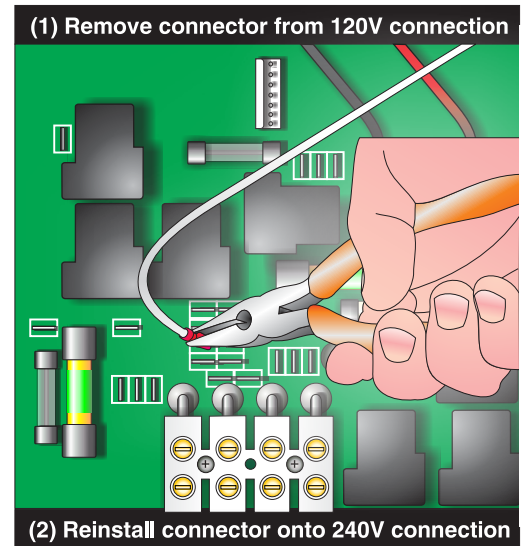
COMPONENT CONVERSION

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 (shown in parenthesis on the wiring diagram). 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



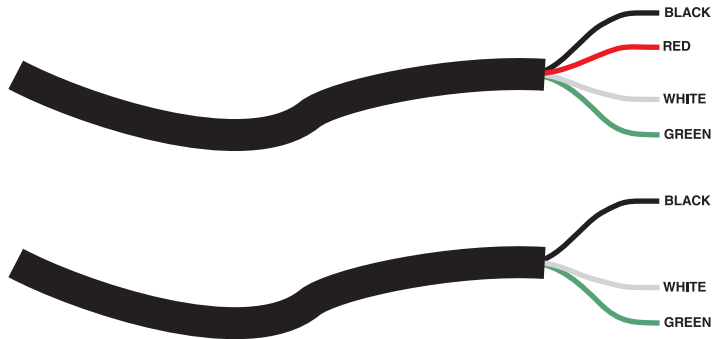
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HYDRO-QUIP SOLID-STATE CONTROL SYSTEMS

PUMP & ACCESSORY CORD CONNECTION



HYDRO-QUIP 2-SPEED PUMP CORD CONFIGURATION

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

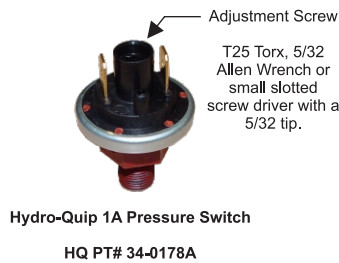
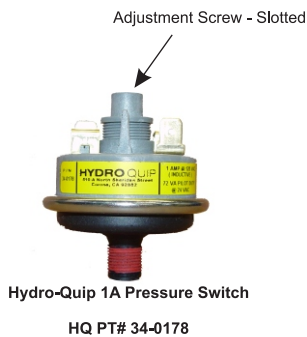
Black = High Speed
Red = Low Speed
White = Common
Green = Ground

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



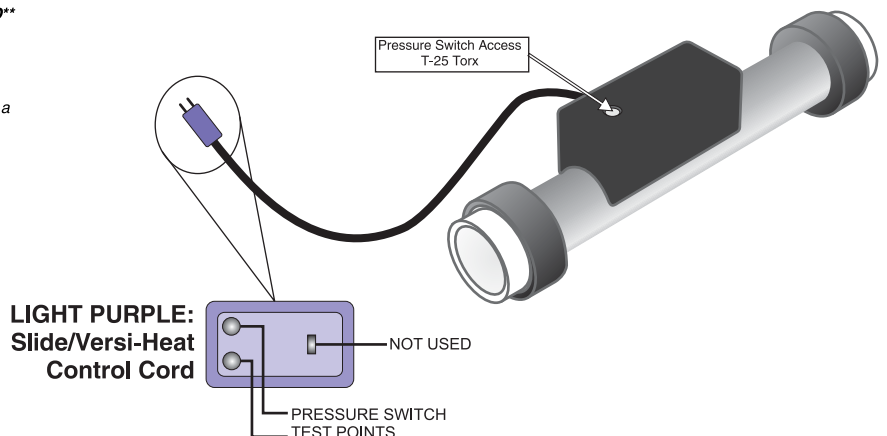
- 1) With power to system turned OFF, locate the pressure switch that is screwed into the stainless steel heater housing.
- 2) Place an Ohmmeter across the pressure switch terminals to verify an OPEN circuit. If the switch is closed at this point rotate the adjustment screw clock-wise until the switch 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

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

- 1) With power to system turned OFF, unplug the Lt. Purple colored Heater Control cord.
- 2) Place an Ohmmeter across the pressure switch test points on the cord to verify a 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 test points to verify a 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.