

# **KLEEN-RITE**



## **BIKE WASH**

### **INSTALATION MANUAL**

In this manual, we discuss the process of installing the Bike Wash System. This manual will cover the following topics; checking for damage, plumbing and electrical connections.

Please follow these steps to insure proper install of the machine.

## **Damage Check**

Upon arrival, unload the system from the trailer/truck. USE LONG FORKS AND MAKE SURE TO COVER THE ENTIRE WIDTH OR DEPTH OF THE MACHINE WHILE USING A FORK LIFT OR A PALLET JACK. Unwrap the system from the plastic shrink wrap and check the system for any damage such as, dents, scratches or other damage. Make notes about it on the bill of lading and keep a copy for future reference.

## **Installation**

Once the damage check is done, the system has to be moved to the place of installation. Allow for clearance around the Bike Wash system for maneuverability and Service ability. Adjust the leveling mounts for proper horizontal and vertical alignment. Install bay equipment in its allotted location in the wash bays (Meter Box, Lift Switch, High Pressure Boom, Foam Brush Boom, and the Bike Stand per bay) then run the electrical and plumbing to the Pump and Tank stands.

## Electrical

### High Voltage (Requirements 208/240 3Phase 20 amp Per Bay)

\*Hydraulic Pump Motor See Motor name plate requirements.

Connect 3 phase for the VFD to the L1-L3 connectors Labeled Under the “Pump 20A three phase” in the control Box, You must Use a 20 amp circuit. Next connect the single phase for the Hydraulic pump to L1 and L2 under the “Hydraulic Pump 20A, single phase” Label also located in the control box. Connect Hydraulic Unit to the hydraulic pump controller. Reference the drawing number “KRSA00009-PHV” for wiring schematic.

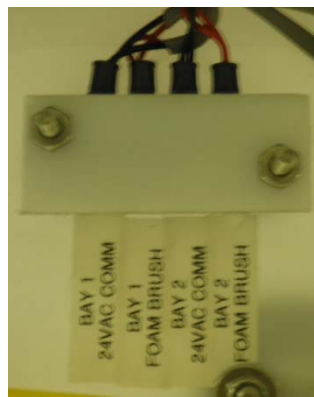


## Low Voltage DC

Connect the remote switch coming from the bay to the lift control terminals located in the control box. Do this for each bay. Connect the 24V+ from the remote switch to the 24V+ terminal in the control box. Connect the “Lower” wire from the remote switch to the “Lower” terminal. Repeat these steps for “Raise”. See drawing number KRSA00009-LV for wiring schematic.



Connect the foam brush terminal from the “Meter Box terminal strip” located in the control box, to the coordinating terminal on the back of the front panel on the tank stand.

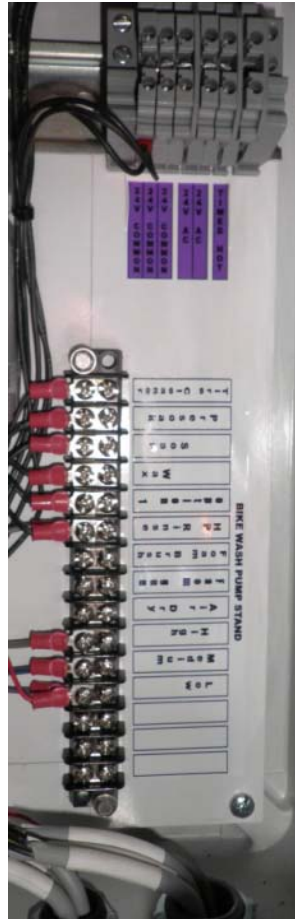


## Hydraulic Pump Solenoid Connections

The “Lower” solenoid on the hydraulic pump goes to the “24V-“and the “Lower” terminal in the Control Box. The “Raise” solenoid on the hydraulic pump goes to the “24V-“and “Pin 14” on the “Timed Hot” Relay within the control box.

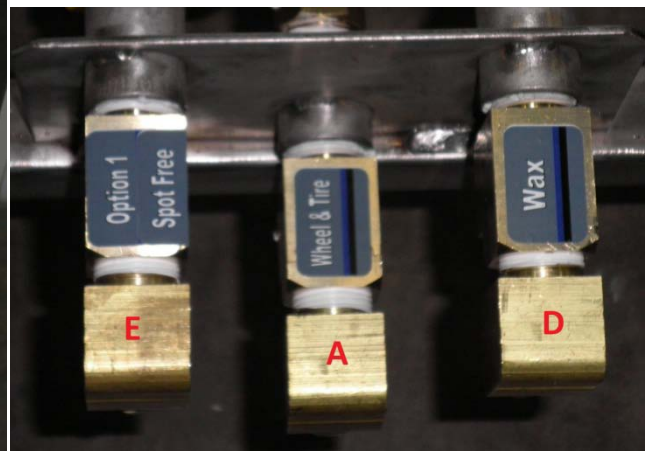
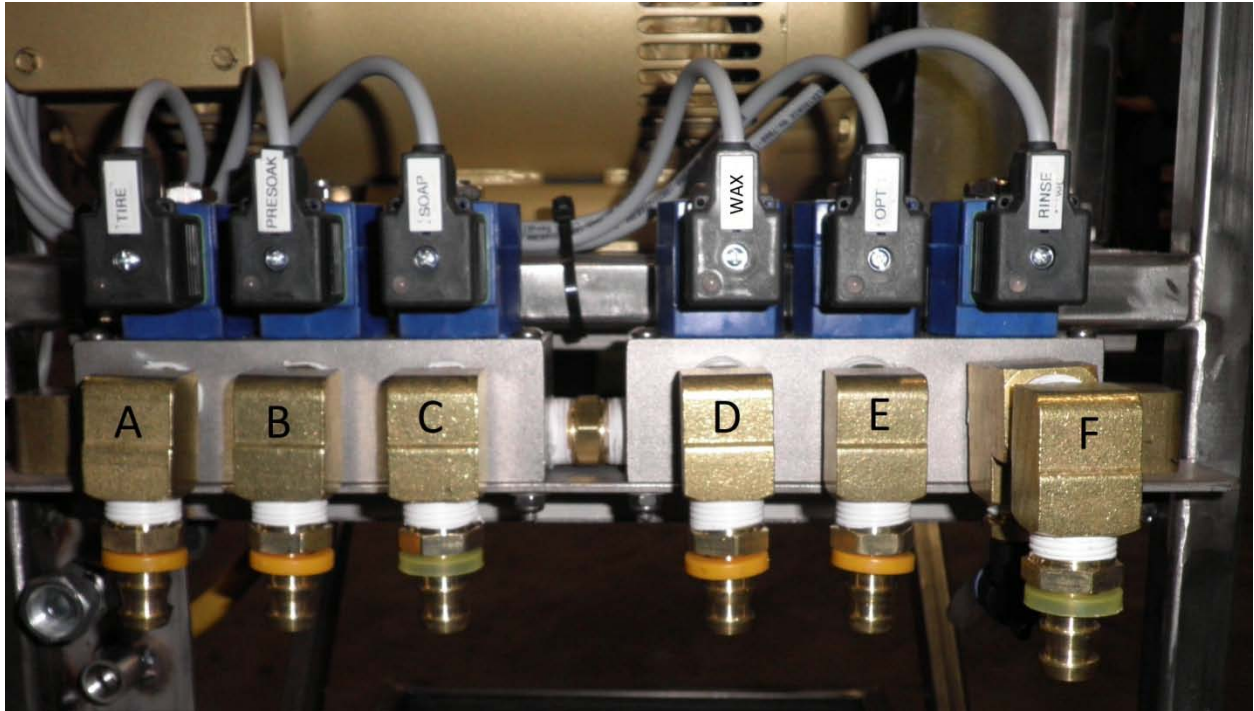


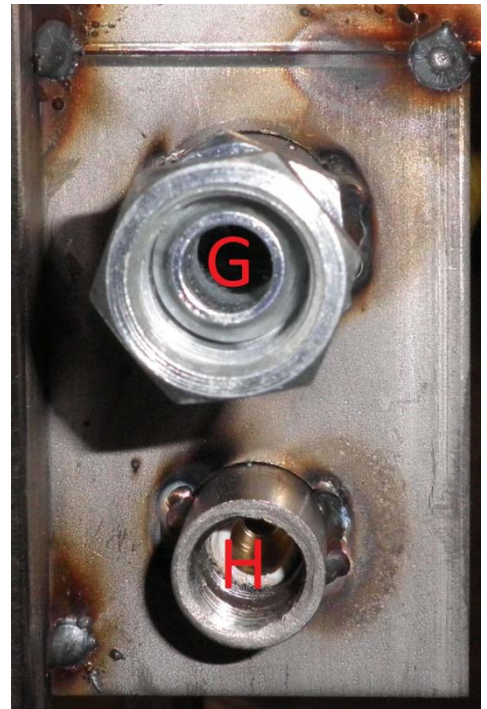
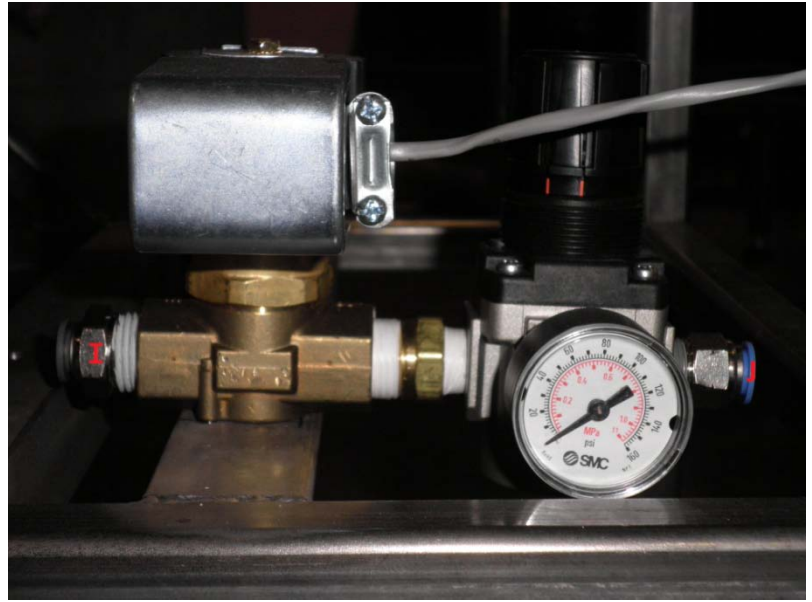
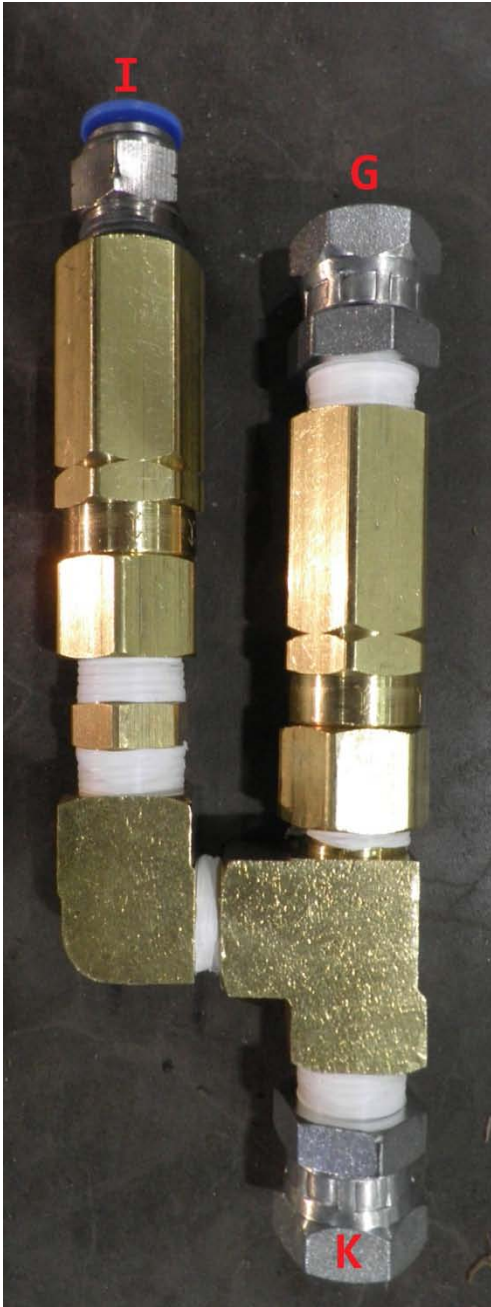
The Meter box wiring connects to the meter box terminal strip in the control box (see image below).



## Plumbing

Connect the Solenoid Block fittings to the coordinating fittings on the rear of the tank stand with Low Pressure Hose. (See images below)





G- High Pressure hose to "G" on Check Valve Assembly

H- Weep Water Input

I- Air Assist to "I" on Check Valve Assembly

J- Main Air Supply

K- High Pressure Output to Wand Boom in bay.





L- Foam Brush Product to Bay 1/Bay 2 Foam Brush connector on Tank Stand.

M- Air Assist to Bay 1/Bay 2 Air Assist connector on Tank Stand.

N- Connects to Foam Brush Boom in bay.

Connect "Main Air In" on Tank Stand to Air Supply. **(Air Supply Max 90 PSI, MIN 40 PSI)**



O- Cold Water Inlet

P- Hot Water Inlet

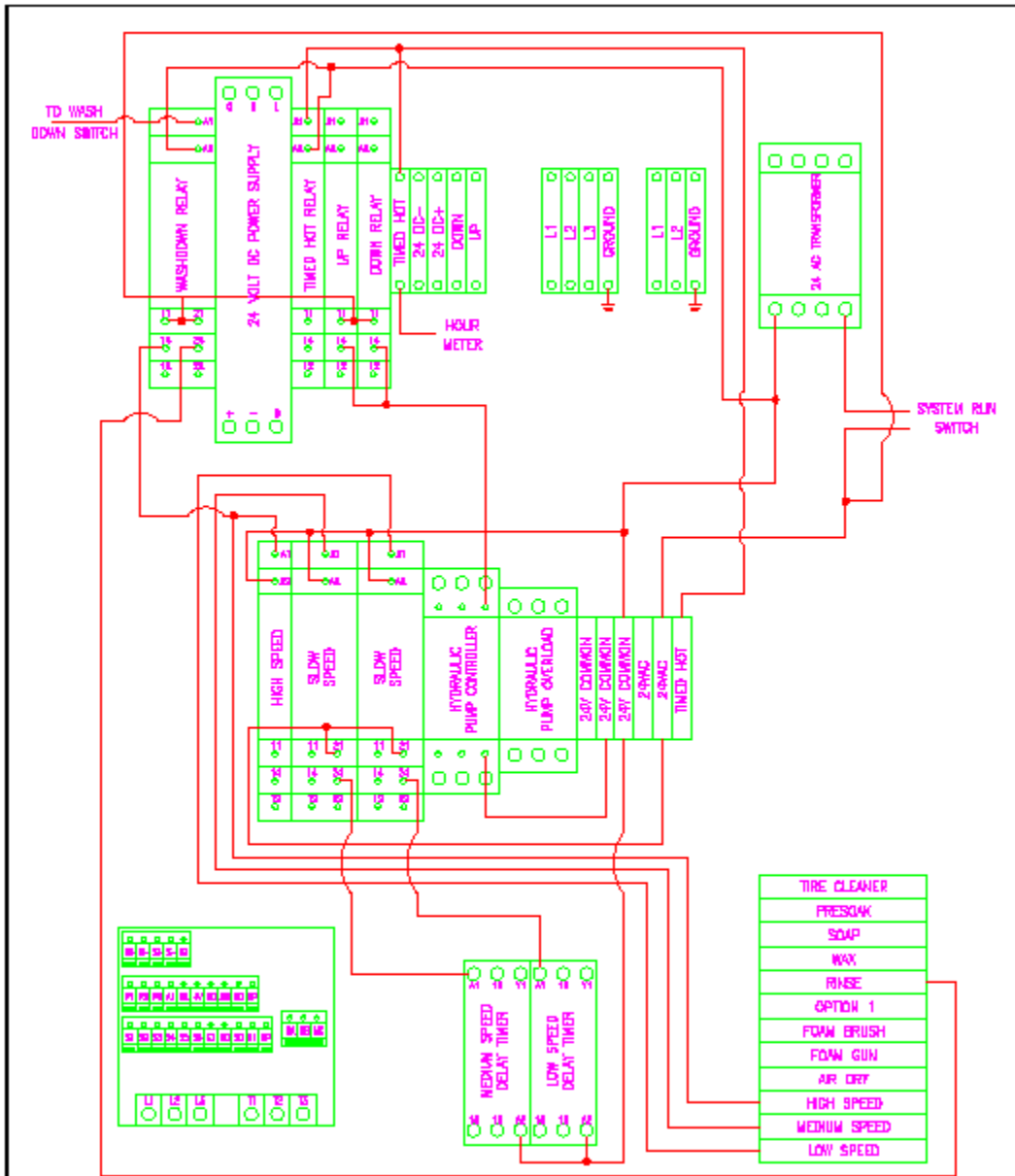
**Note: Inlet Supply water pressure Min 40 PSI, Max 60 PSI, 10-20 GPM**

## System Start Up

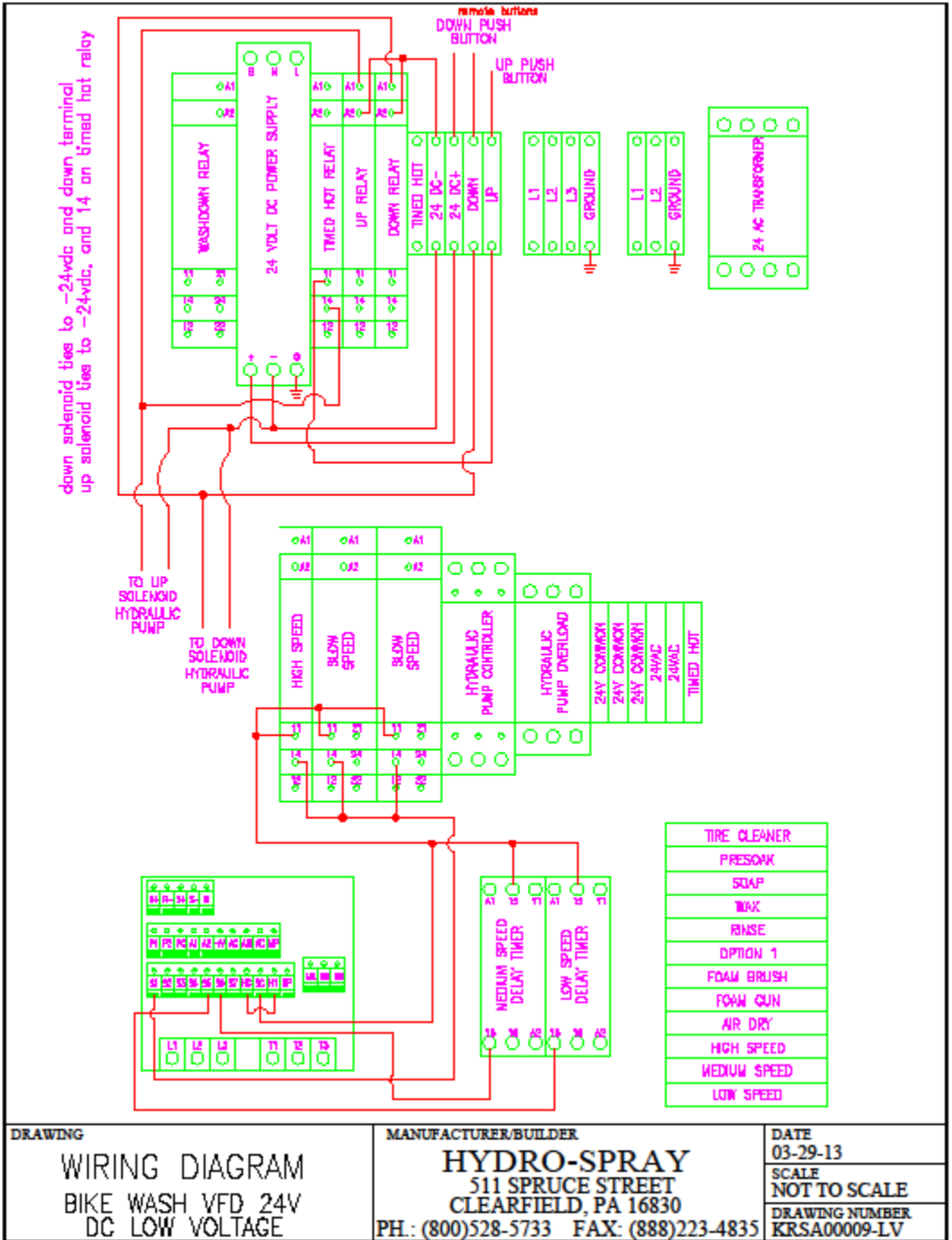
After wiring and hose installation is complete, you can start the system up. We recommend you follow the procedure outlined below.

- ◆ Turn water supply on and verify there are not any leaks present.
- ◆ Fill Product tanks with their coordinating Products. (Make sure ball valves are in the open position)
- ◆ Install wands but do not install the spray tips.
- ◆ Check power for correct voltage, and for any wild leg (if wild leg is present make sure that 120V circuits are not connected to this leg of power).
- ◆ If power check is OK, you may Power Up the system.
- ◆ Verify proper fluid level in Water Pump and Hydraulic Pump.
- ◆ Check proper operation of Hydraulic Pump Stand, (Raise is Up, Lower is Down) check for any hydraulic leaks.
- ◆ Turn wash down on. (Purge and Flush system) Turn wash down Off.
- ◆ Install wand nozzles.
- ◆ Insert Coin and Bills into the Meter Box and test all functions.
- ◆ During function test Purge and Flush the Foam Brush system.
- ◆ After testing is completed, check for the proper tension on the belts and for any visible leaks.

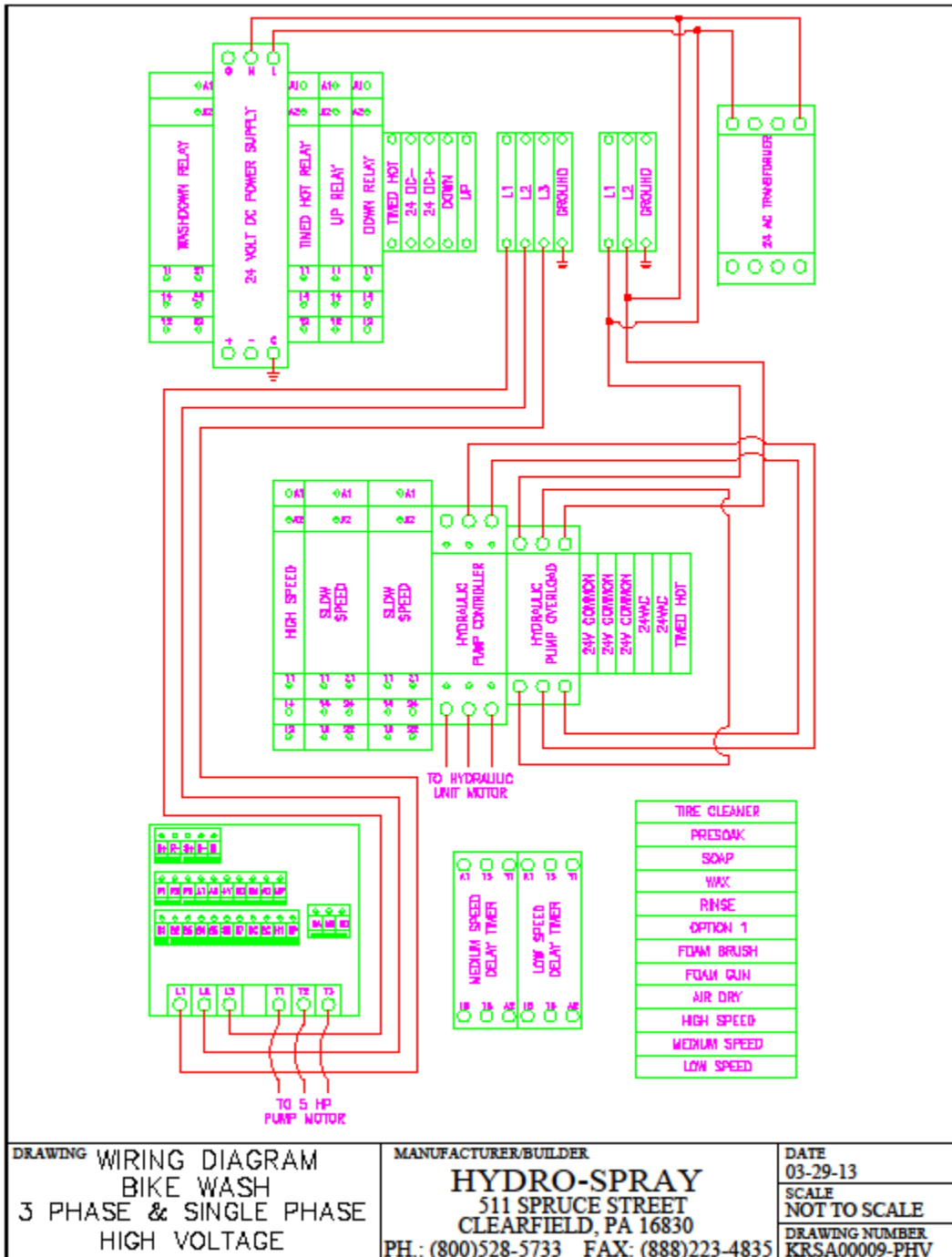


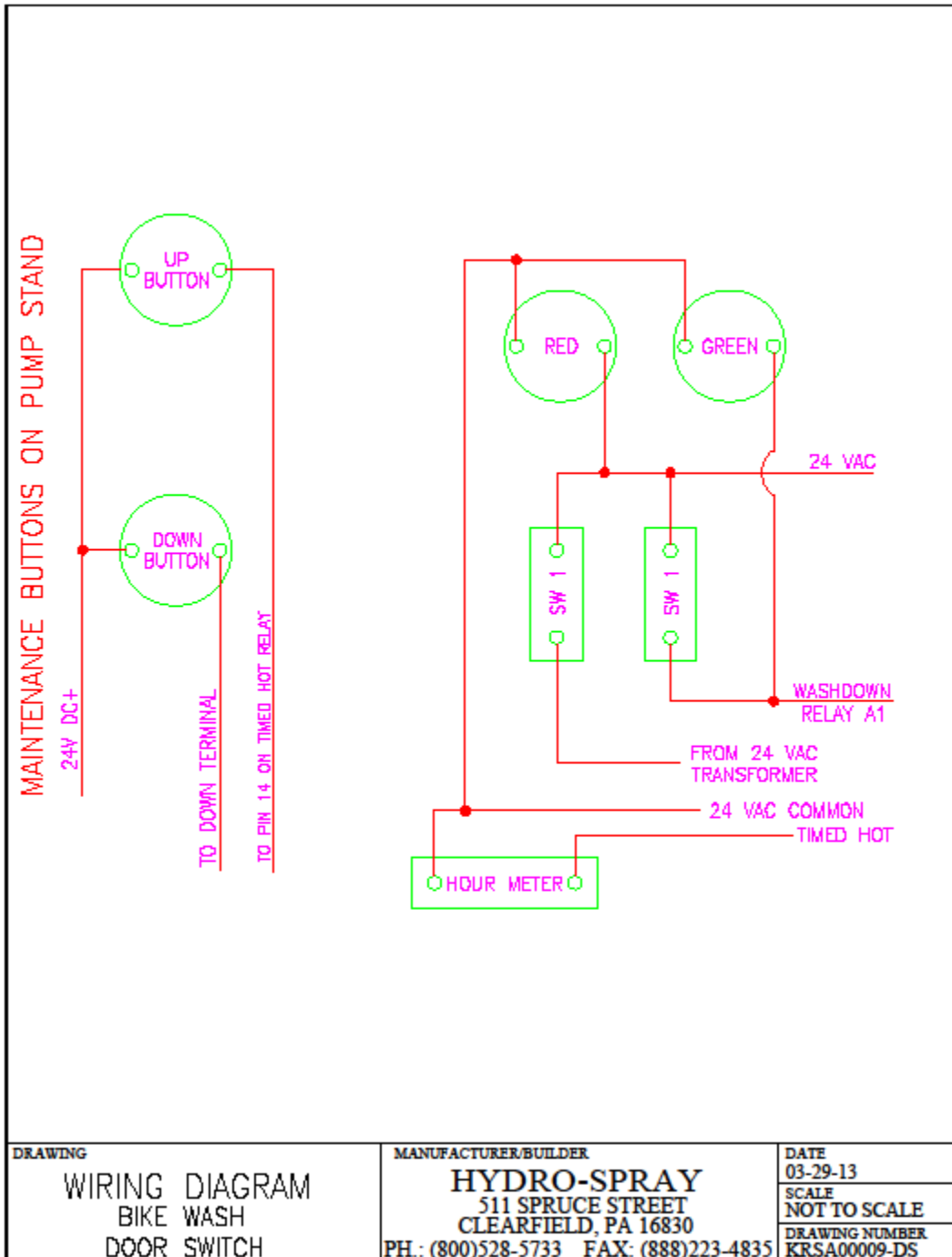


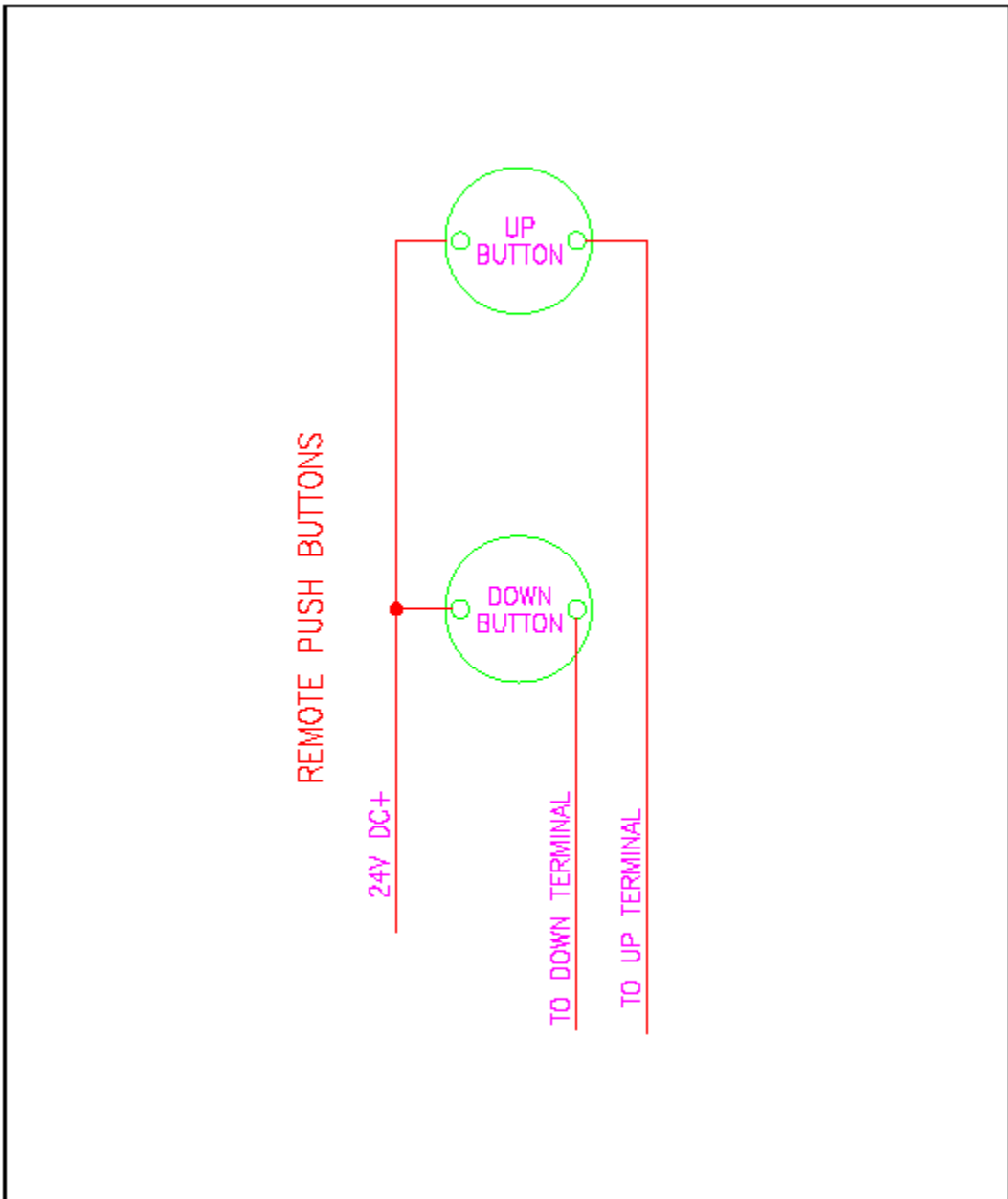
<p>DRAWING</p> <p><b>WIRING DIAGRAM</b> BIKE WASH 24V AC CONTROL</p>	<p>MANUFACTURER/BUILDER</p> <p><b>HYDRO-SPRAY</b> 511 SPRUCE STREET CLEARFIELD, PA 16830 PH.: (800)528-5733 FAX: (888)223-4835</p>	<p>DATE</p> <p>03-29-13</p> <p>SCALE</p> <p>NOT TO SCALE</p> <p>DRAWING NUMBER</p> <p>KRSA00009-ACC</p>
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DRAWING	MANUFACTURER/BUILDER	DATE
WIRING DIAGRAM	<b>HYDRO-SPRAY</b>	03-29-13
BIKE WASH VFD 24V	511 SPRUCE STREET	SCALE
DC LOW VOLTAGE	CLEARFIELD, PA 16830	NOT TO SCALE
	PH.: (800)528-5733 FAX: (888)223-4835	DRAWING NUMBER KRSA00009-LV







<b>DRAWING</b> WIRING DIAGRAM BIKE WASH REMOTE SWITCH	<b>MANUFACTURER/BUILDER</b> <b>HYDRO-SPRAY</b> 511 SPRUCE STREET CLEARFIELD, PA 16830 PH.: (800)528-5733 FAX: (888)223-4835	<b>DATE</b> 03-29-13
		<b>SCALE</b> NOT TO SCALE
		<b>DRAWING NUMBER</b> KRSA00009-RS