

## 5 Light with Electric Pump and Handle

# Stazworks

W8234 CTY HWY J Merrilan, WI 54754  
(715) 333-RIMS (7467) [JOHN@STAZWORKS.COM](mailto:JOHN@STAZWORKS.COM)

## Rear Steer Wire Harness Install Directions

The wires in the harness are the same color code as the wires in the aluminum box. If your kit does not have the control box plugs pre-installed it is easiest to match the wires as you install the connector plugs. Just match the wires color to color. When inserting the pin into the connector you should hear/feel a click indicating the pin is properly installed. If you do not here the click, flip the pin over and try again. Once you figure out the proper way repeat for all remaining pins. On the face of the plug the white part should be extended past the black housing about a 1/8" to be able to insert the pins. If it is not, the pins will not click into place. After inserting the pins push the white piece in flush with the black housing to lock the pins in place. Most harnesses are shipped with control box plugs installed.

### Tail Harness, (TH)

There are only three wires to connect. The white and gray wires are for left and right at the valve. The black wire is a ground for the valve and ECU. Due to limitations on available pins at the connectors, the ECU is grounded through the valve assembly. Orange wire is to power the pump motor solenoid. This may be best to run through a small relay. If pump relay shorts out it can damage the circuit board. The prewired connectors at the end of the harness are for the sensor. The dark blue and dark green wire goes in the middle two switches. Plug only the two dark wires in at random side to side for now at the sensor. This is a simple trial and error procedure. If the axle does not return properly but rather goes to full lock under auto return the two switches are most likely backwards. The other two plugs control the outer two lights on the dash as well as the anti-stall. Have the center two switches figured out before putting the outer switch plugs on. Anti stall is when the valve shuts off at full stroke even when the joystick is telling it to keep turning.

It is important that the dark colored wires are on the middle switches and the light color wires are on the outer switches. Also, it is very important that the colors are in order as follows.

Light green, Dark Blue, Dark green, Light Blue

It does not matter if this is left to right or right to left.

### Main Harness, (MH)

Red wire = switched power,

Yellow wire = signal from the return switch (push button in the joystick handle)

Brown = signal from the return switch. This is referred to as "Auto Return Mode switch" This is one of the supplied 2 position toggle switches.

Orange = power to joystick

White = left or right signal from joystick

Gray = Left or right signal from joystick

### **Billet Joystick handle Wiring**

The small red and yellow wires are the return switch.

The orange, White and Gray wires are the Joystick.

All these wires will connect to the same color wire in the main harness.

The white and gray wires are the left and right. If needed these can be swapped to change the orientation of the joystick left and right. (white to gray and gray to white)

The red and brown wire from the harness should go to the "Auto Return Switch". One wire on each side of the switch. The red wire from the joystick can join the red wire at this switch as well. Also, from this red wire on this switch there should be a wire leading to the "master on/off" toggle switch. Some customers do not use this switch and go directly to a key on ignition source. From the other side of the master switch needs to be power fed from a key on power source. See the provided wire diagram for more details on this.

There is a 5-amp fuse as well as a spare fuse on the circuit board inside the control box. If you want to fuse the system before entering the control box, you should use a 5-amp fuse. You may want to increase the fuse size on the board to 7.5 amp so that the external fuse is always the first to blow.

### **Light Harness, (LH)**

Orange wire is signal to the center green light.

Dark blue and Dark green are for the Yellow/Amber lights on each side of the green light.

Light green and Light Blue are the outer red lights.

Black wire is a common ground for all the lights. This wire can also be chassis ground if the valve is not well grounded for the ECU.

It is recommended to ground this if convenient to ensure optimal ground of the ECU.

If the lights indicate backwards as in the left comes on when the right is supposed to be on swap this at the lights not at axle sensor.

Any input we can use to help improve this kit is greatly appreciated. Feel free to call John at 715-333-7467 with any comments, questions, or suggestions.

Thank you for your purchase.

John

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**Return switch signal**

**Return switch power**

**Joystick power**

**Joystick L/R**

**Joystick L/R**



