



## HYDRO TURN KIT INSTRUCTIONS

**PART# 4501-0844**

This is the Moose Hydro turn kit for the V-Plow and will replace your manual adjust rods. You will use the same hardware to bolt up the hydro units that you unbolted the manual adjust rods.



**Questions or Comments Call 320-964-1616**

**Monday thru Thursday 7:00 to 4:30 CST**

**INST2720PF**

The KYB hydraulic units have a built-in relief valve in case you are to hit a solid object with a large amount of force. The relief system will allow the hydro unit to retract to help prevent damage to the plow, machine or operator. This is not considered a safety system and is not guaranteed to prevent damage or bodily injury. If you do trip the relief valve on one of the units stop and back up and the unit should return to normal operation mode. **CAUTION** do not rely on this for hitting hard or frozen objects.

**NOTE:** If the unit was to stop operating you must not try to fix them. Remove and return to Product Fab. 1120 Holstein Dr. NE, Pine City, MN 55063. This units have a 1 year warranty and any attempt to fix or repair voids that warranty.

## WIRING UP THE UNITS

Take a good look at you UTV and figure out how the wiring harness is going to lay. You want enough black and red wire to make it to the battery and the plug-ins to make it to the hydro units. Once you have a lay out figured out you can start wiring up.

Disconnect the Battery.

Get harness laid into place and run the Battery (black and red) wires to the battery but do not hook up. Hooking the power up will be the last step.

On the plow unit you will remove the manual adjusting arms and replace them with the KYB hydro units. Use the same bolts you remove to bolt up the hydro units. NOTE: The motor end will attach to the center section of the V-Plow and the cylinder end will hook up to the blade, you may use some of the 5/8" washers to center the units when bolting up.

You can plug in the hydro units to the wiring harness and make sure they click into place for correct seal. CP1 is for the Left Blade and CP2 is for the Right Blade.

You will need to secure the relay bar in a safe location and you can secure in place with the zip ties. The relays do snap together so you can clip them apart if need to. Make sure you have enough wires on the hand control leads to make it to the glove box or some wear on the dash to hook up. You will need to drill a 1-1/2" hole to get the plug through the fire wall or dash on where you want the plug mount and then use the Connector mounting plate and center over the hole and use the 4 – #10 x 3/4" Self drilling screws to secure. The white plug will push in from the back side and snap in place. Now you can plug or unplug the hand controller when needed.

The green and yellow wire are for the winch operation. You can use the hand controller to raise and lower the winch if you like instead of the dash mounted switch. Read your winch manual to determine which leads go to the winch switch, Green wire should go to the wire that controls the IN from the winch switch and the yellow wire should go to the wire that controls the OUT ( If winch works in opposite of the buttons simple reverse the wires to correct) **DO NOT CONNECT THE GREEN AND YELLOW WIRES TO EITHER OF THE WIRES OR THE SOLENOID GOING TO THE WINCH MOTOR OR YOU WILL DAMAGE AND OVERLOAD THE HAND CONTROLLER, THEY MUST BE CONNECTED TO SOLENOID LEADS THAT GO TO THE WINCH THUMBSWITCH.**

Get the battery wires in place and then you can custom cut them and put on the 5/16" ring terminals and hook them to the battery (RED positive and BLACK negative) Zip tie any loose wires but do not zip tie tight or it may cause a hot spot.

The hand control independently controls the right and left blade movements as well as the up and down winch functions. Just press and hold the buttons down on what you want the blade to do.

The hand control may be mounted in a variety of ways. There are threaded bosses in the back of the control that can be used to mount a CB style clip or as an attachment point for a mounted base.

We recommend when not using to store the hand control in the glove box or someplace safe and dry.

The hand control is water resistant but not water proof and will not be warranted for water damage.

The hand control is not serviceable so do not try and take apart as this will void the warranty.

### TROUBLE SHOOTING

Hydro Units Don't move:

- 1 - Check battery connection and clean them if need be.
- 2 - Check the 3 amp in-line fuse
- 3 - Check the plug connections. You can hook straight to battery to hydro units or hook a battery charger and jump them to see if they are working. If units are working it can be bad relay or bad hand control.

Winch does not operate:

- 1 - Check the wiring. The green and yellow wire should be connected to the proper wires from the winch Switch. Depending on winch brand you may have 2 to 4 wires coming and going from the winch switch. Use a 12v test light on the wire to find the proper wires for in and out and once this is determined Connect the green and yellow wire to these respective wires.
- 2 - The winch circuit on the hand control maybe burnt out and you may have to replace the hand control.
- 3 - If the winch starts to operate when you plug in the hand control then the controller is most likely bad And needs to be replaced.

