

SIMPLE FRONT BLADE LIFT by Rod Ritsema

I wanted a front blade for snow plowing and needed to come up with a way to lift it. I had ran across a site where somebody had mounted a ATV winch to his front bumper which required a lot of welding for the mount, and 12v (either a 12v conversion or mount an extra 12v battery).

Since I already has a stock lift system I wanted a way to use that.

This is what I came up with. For the lift I bought 4 pulleys, 2 flat mount and 2 swivel mount, and used some wire rope I had laying around.

My 8N already had the pins for the stabilizer arms so I mounted my blade arms there.



I had a front bumper so I used that for the cable mount. I just put a loop in the cable and pushed it through it hole and used a lynch pin for a quick disconnect.



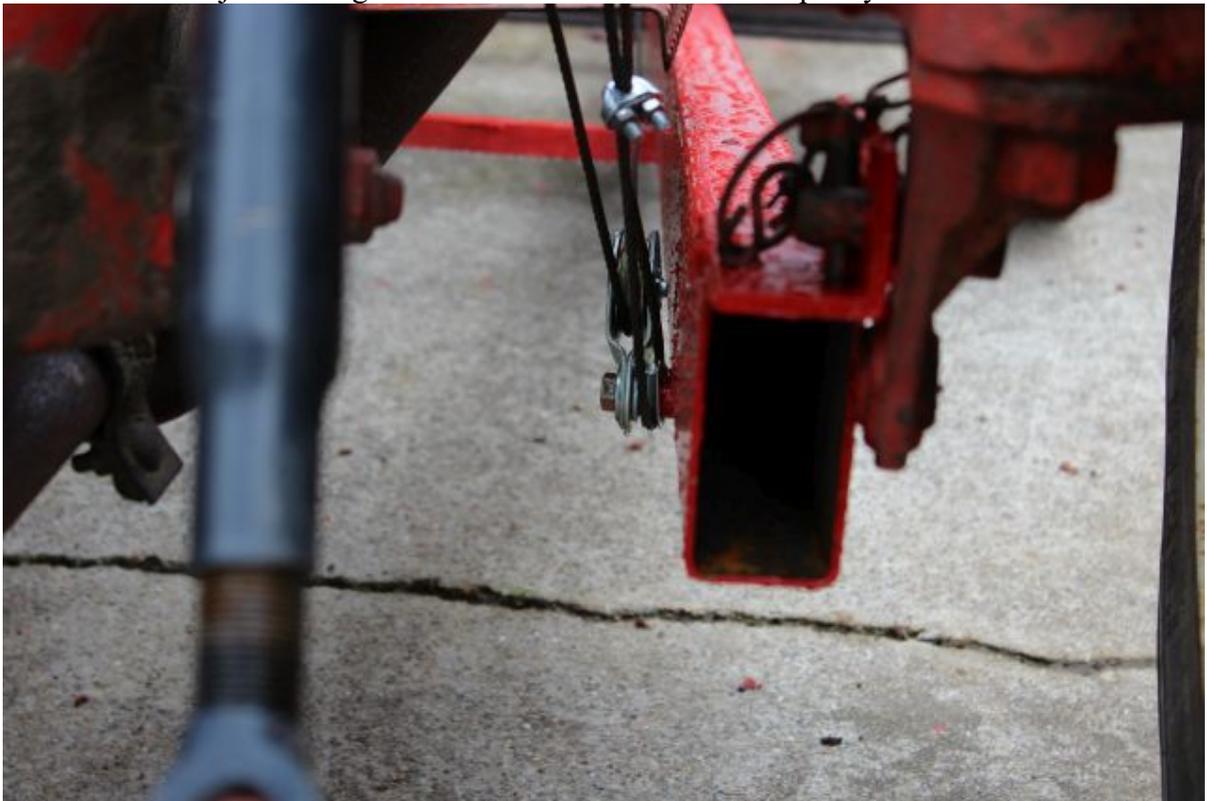
I took one of the swivel pulleys apart for the wheel. I drilled and tapped the holes for the bolts and added a nut to lock the bolt in place so the wheel would turn.



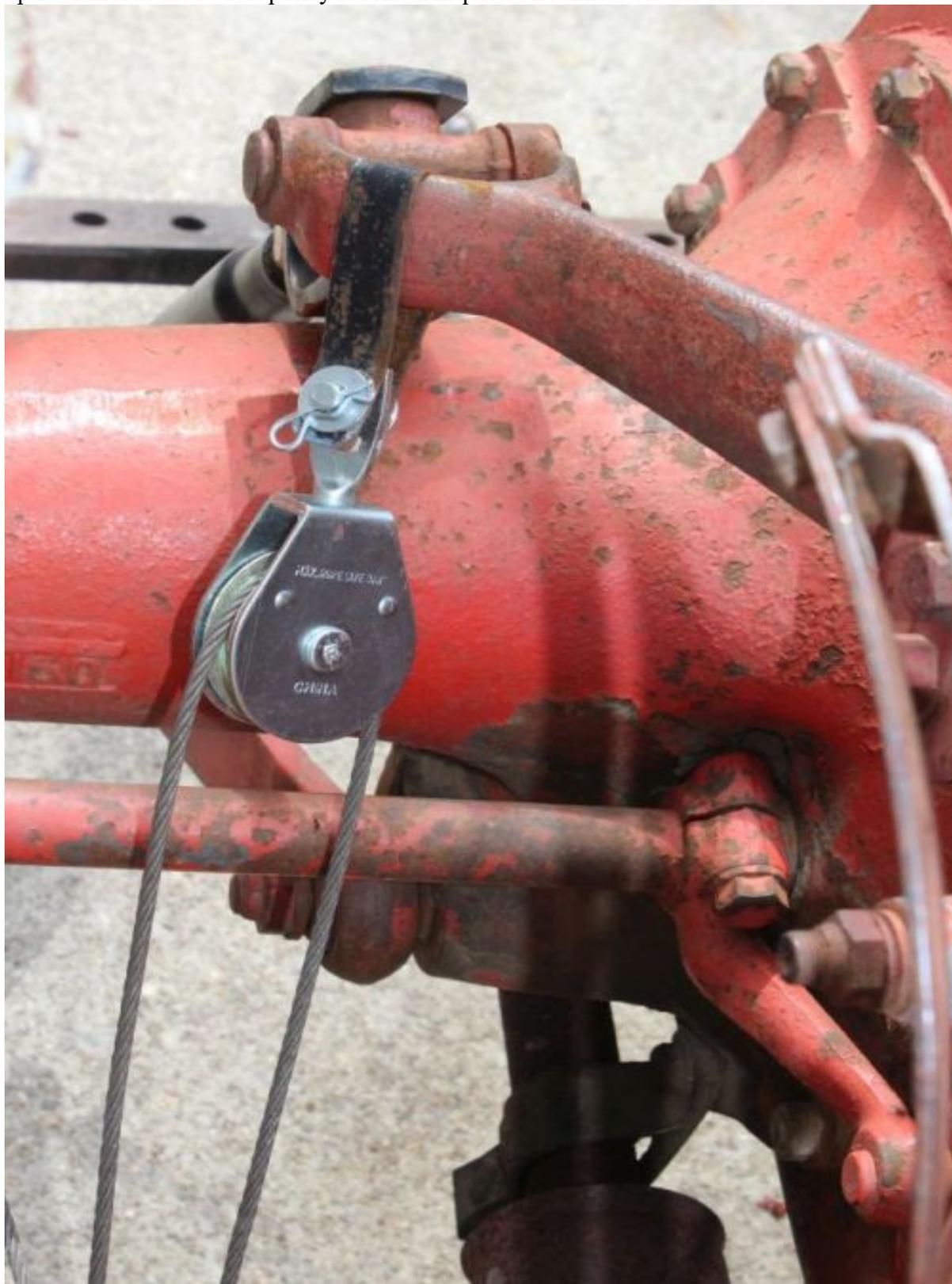
Here you can see the cross brace under the motor. This was a mistake, I should have angled it towards the front to triangulate it. Plus I need a long heavy bar in the back of the arms to bend them in enough to go onto the mounting pins.



I welded a piece of pipe to mount the cable end thimble and a pulley. It angles to the front a little and extends to the inside about 3/4 inch. I probably could have done without the thimble, and probably should have angled the inside end of it down to hold the pulley at a better angle for the cable but just leaving the lock-nut a little loose lets the pulley lean and it works fine.



I found a piece on banding steel that already had holes and used the pin from the pulley I took apart to mount the swivel pulley for another quick disconnect on this end.





I adjusted the cables so full up raises the blade arms up to the bottom of the bumper. I didn't have much more lift than that anyway.

I made sure that when I welded the pipe for the pulley and thimble that the cable would clear both the brake shaft and the floor board.

I have my bumper mounted with the long end down to better protect the bottom of my grill and this lifts the arms up to the bumper.

If you needed more lift and had the clearance, just change the back lower pulley out for a double pulley and take the cable end thru it and back up to the lift arm. That would double the lift range.

If you don't have a bumper just take the front cable end up to the axle.

This really works great, I can use the stock lift control, If I want to use the three point I can just hook a chain to the bumper to hold the front blade up or pull two pins for the cable and pull the arms off the back pins and it's off.