

JW-03 Frame-Mount Backhoe Removal



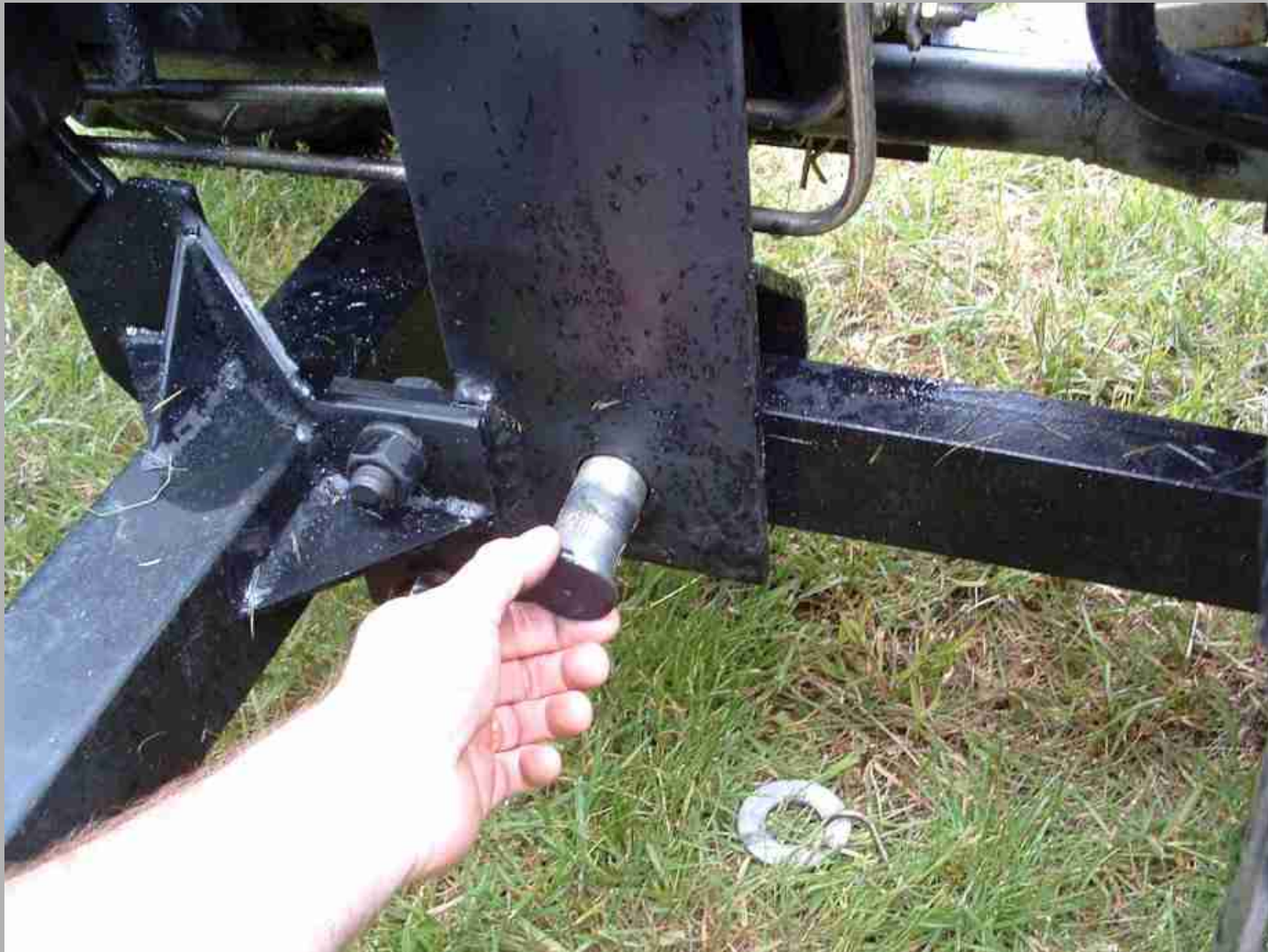
Step 1:

Position the BH on level ground as shown here. The BH Center of gravity is behind the boom pivot, so it will set like this all by itself like a tripod using outriggers and bucket.



Step 2:

Using the outrigger and bucket curl control, lift the BH to take the strain off of the rear support plate bolts then remove the bolts using the 24MM wrench and socket. You may have to play with the controls a bit, but once they are right, you will be able to pull the bolts right out using your fingertips.



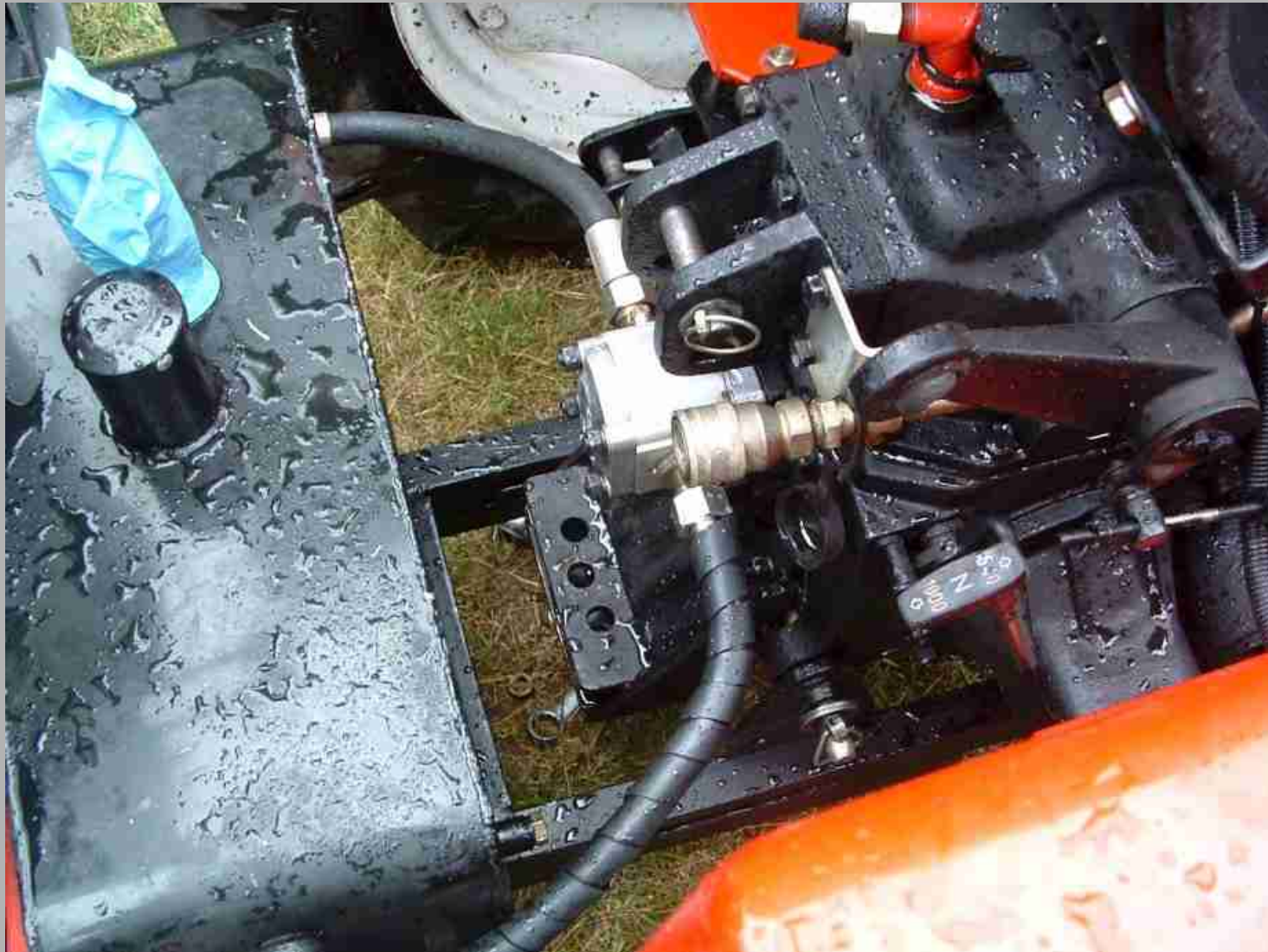
Step 3

Again playing with the outrigger and bucket curl control, you can remove the strain on the front frame retaining pins, remove their pin and washer and remove them from the frame. Maybe I got lucky, but I had these loose enough to pull with my fingers by the third try at the controls.



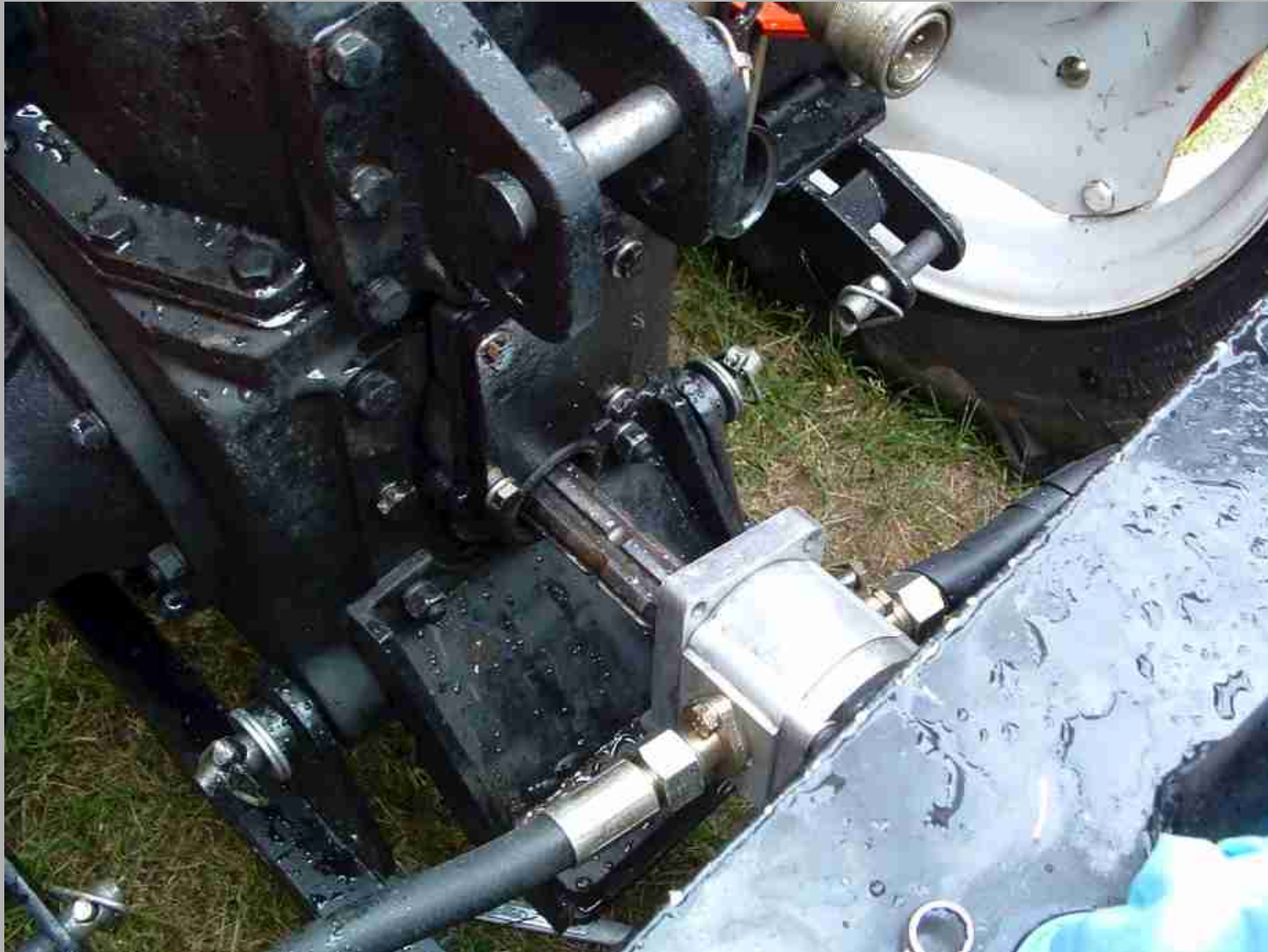
Step 4

Once the rear plate bolts and forward pins are out, lower the whole frame down onto blocks. You don't have a lot of hose slack to play with, but it has to be low enough so the frame can clear the front and rear attach points. I found that 2 cinder blocks on their sides were just about the right height.



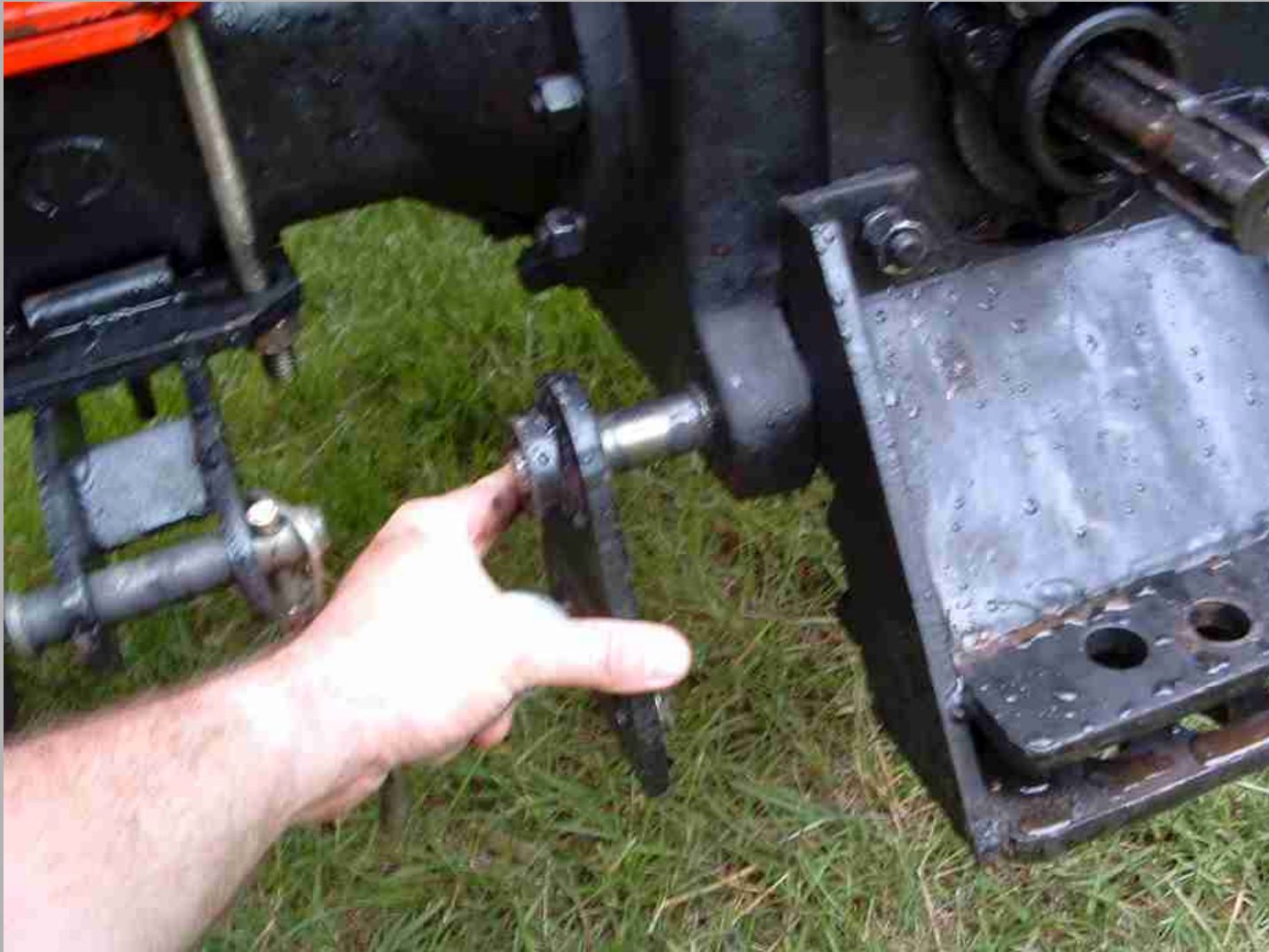
Step 5

Using the loader bucket edge on the ground, I dumped the bucket a little and pulled the tractor forward about 3". That is about all the distance you can go with the available slack in the hoses, but it makes it a little easier to get to the 4 bolts that hold on the pump. I shut off the engine and removed the pump.



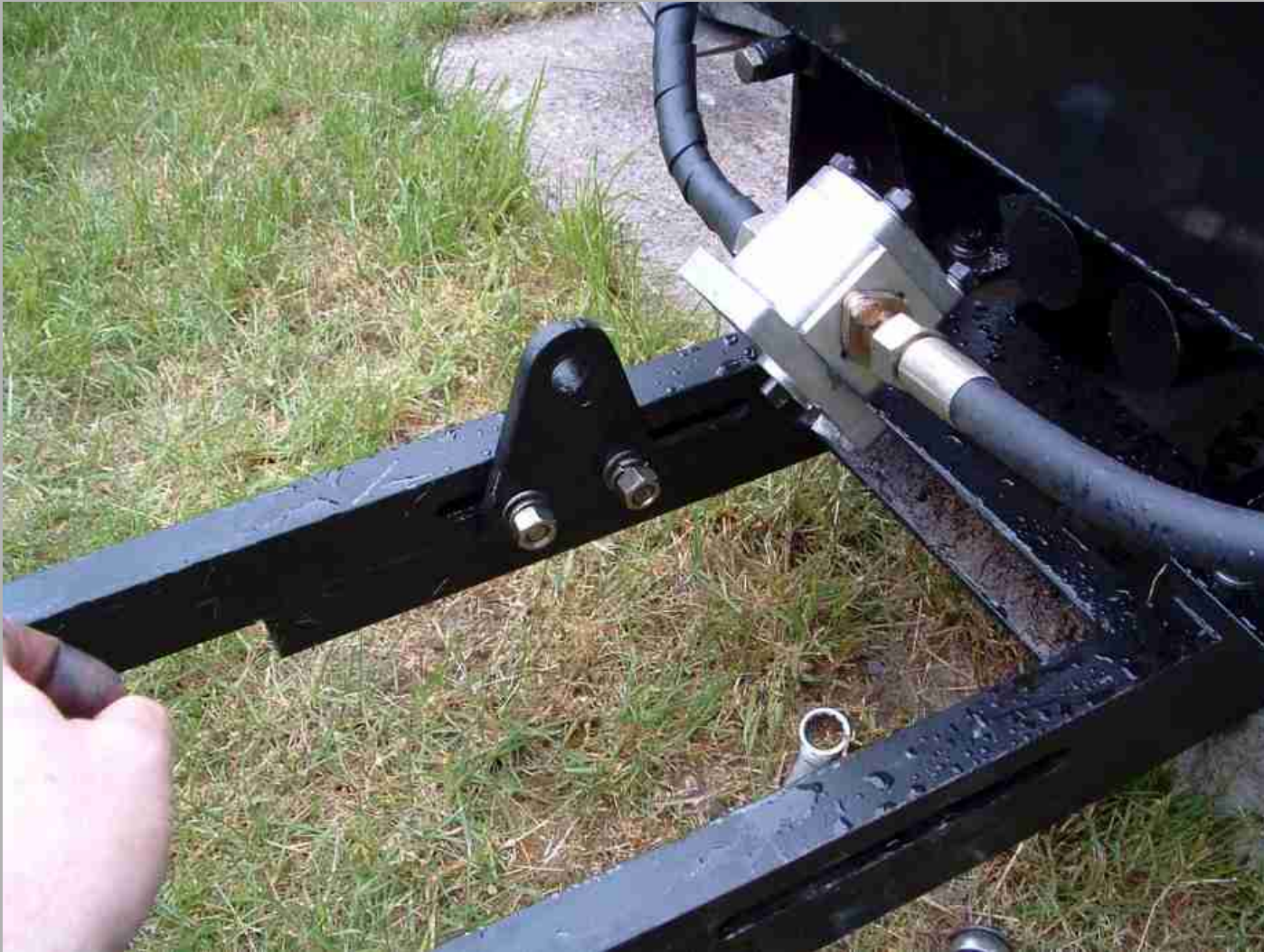
Step 6

After the pump was off, I replaced the original cover plate that was on the tractor using the same gasket. Moving the tractor forward also allows the pump to be slid down between the PTO shaft and the BH reservoir and it hangs by it's hoses.



Step 7

Restart the tractor and pull it forward a few feet so it is clear of the backhoe frame. Remove the locking pins and slide the rear support plates off of the forward 3PH pins and replace the locking pins in their holes.



Step 8

Replace the rear support plates on to the frame and loosely re-assemble the hardware. Re-install the forward frame pins into their holes on the BH frame so all the hardware is there for next time.



Done.

There she sets. Chinese cylinders and valves being what they are, I expect things to possibly leak down a little. Note that the frame is pretty much parallel to the ground. Since the CG is behind the pivots, I would expect that the bucket might try and curl a little and the front of the frame may come up. IF it shifts too much, a jack may be needed under the boom pivot to lift the rear and lower those front frame arms so you can back back over the frame for re-installation. Re-installation of the backhoe will take a little longer, as the alignment of the holes is a little more tricky to get the bolts and pins to go in. It is not the exact opposite of removal as you won't place the rear plates on the tractor until after the pump is connected, and the front pins are installed. The installation of the front pins will help you to properly position the rear plates.