



# Toro Log Splitters 22618HD 2019 Cylinder and Wedge Assembly Replacement

Guide to remove and replace the cylinder and cutting wedge assembly on the Toro Log Splitter 22618HD 2019 / LS-922.

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## INTRODUCTION

This guide shows how to remove and replace the cylinder and cutting wedge assembly on the Toro Log Splitter 22618HD 2019 / LS-922.

For the amount of hydraulic fluid lost during this procedure, refill the hydraulic fluid tank.

### TOOLS:

- [3/4" Socket](#) (1)
- [Impact Wrench](#) (1)
- [3/8" Breaker Bar](#) (1)

#### *Optional*

- [3/4" Wrench](#) (1)
- [Bucket](#) (1)
- [Shop Towels or Rags](#) (1)
- [Adjustable Wrench](#) (1)
- [Wood Block](#) (1)
- [Wood Shims](#) (1)
- [Leather Work Gloves](#) (1)

### PARTS:

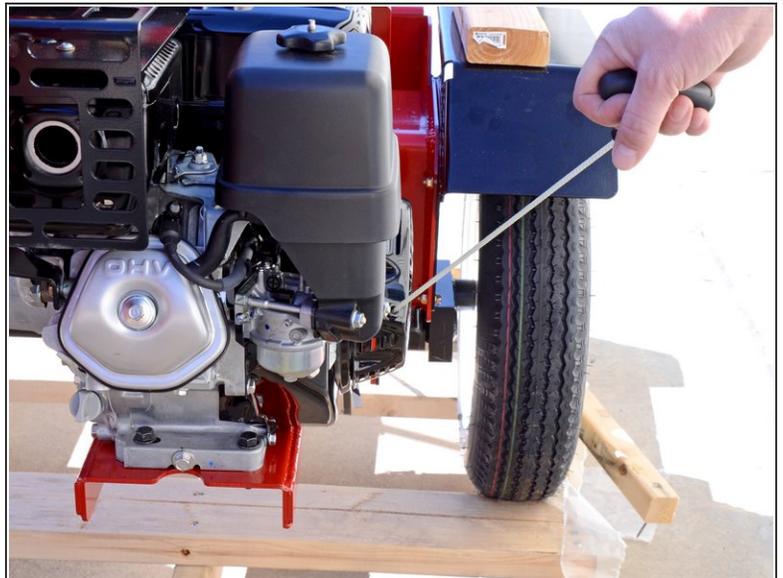
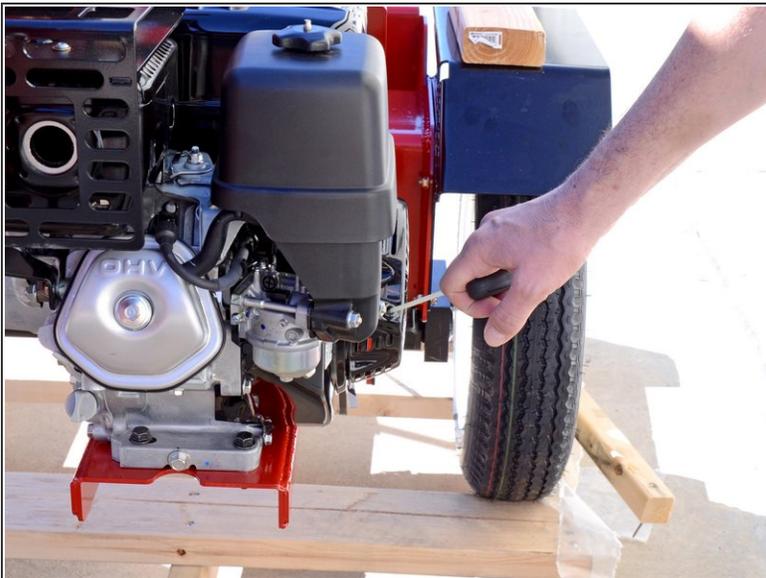
- [Toro Cylinder-Hyd 136-4562](#) (1)
- [Toro Wedge Asm 137-0569-03](#) (1)
- [Toro Bar-Slide, Lh 120-1804-03](#) (1)
- [Toro Bar-Slide, Rh 120-1809-03](#) (1)
- [Toro Screw-Hf 3234-40](#) (12)
- [Toro Nut-Lock 99-5107](#) (12)
- [Toro Pin-Hair 3290-256](#) (2)
- [Toro Pin-Pivot 120-1420](#) (1)

## Step 1 — Start the motor



- Flip the red engine ON/OFF switch to the **ON** position.

## Step 2



 Follow the device's detailed operating and safety procedures before starting the device.

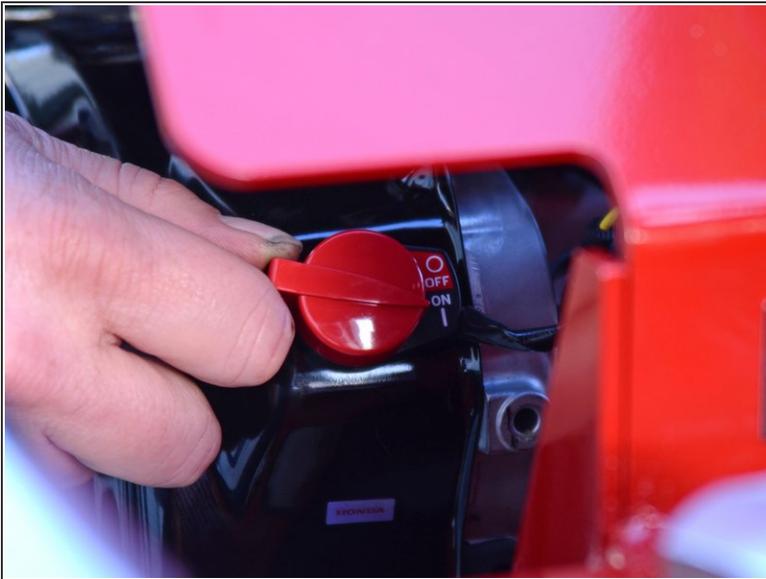
- Pull the motor's pull-start cable to start the motor.

### Step 3 — Extend the cutting wedge



- Push the control valve lever towards the rear of the device to extend the piston and advance the cutting wedge.

### Step 4



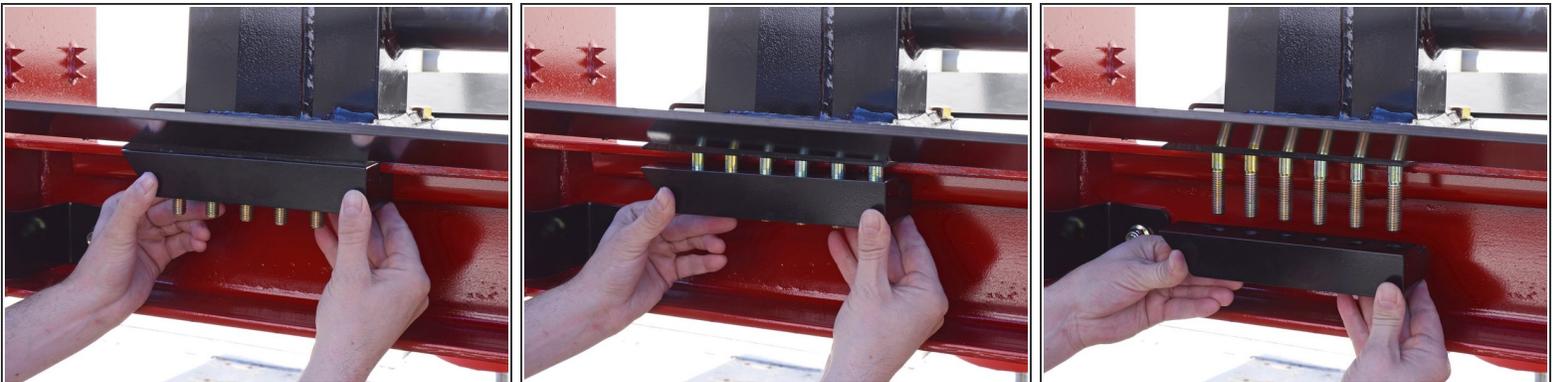
- Flip the red engine ON/OFF switch to the **OFF** position.

## Step 5 — Remove the slide bars



- Use an impact wrench with a 3/4 inch socket to loosen the twelve bolts and twelve nuts securing the slide bars to the underside of the cutting wedge.
- ⓘ If an impact wrench struggles to remove these bolts, a breaker bar may be necessary.

## Step 6



- Remove the left slide bar.

## Step 7



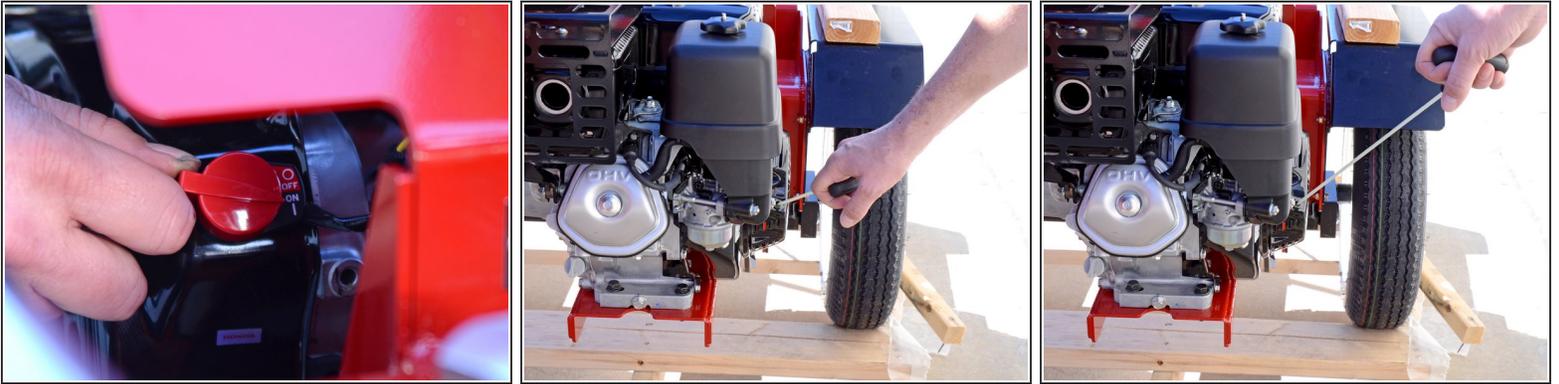
- Remove the right slide bar.

## Step 8



- Remove all twelve 3/4 inch bolts from the cutting wedge.

## Step 9 — Restart the motor



- Flip the red engine ON/OFF switch to the **ON** position.
- Pull the motor's pull-start cable to start the motor.

## Step 10 — Retract the cutting wedge



- Use the control valve lever to retract the cutting wedge until it is seated underneath the dislodger bracket.
- ⓘ Retracting the cutting head reduces the amount of hydraulic fluid inside the cylinder, resulting in less spillage.

## Step 11 — Prepare for spills



- ⓘ Residual hydraulic fluid will be trapped in the hoses connected to the cylinder, and will drip out during the following procedure.
- Place a bucket underneath the device, below the cylinder to catch any hydraulic fluid drips.
- ⓘ Have rags handy to stop drips and clean up affected areas.

## Step 12 — Remove the hydraulic connections



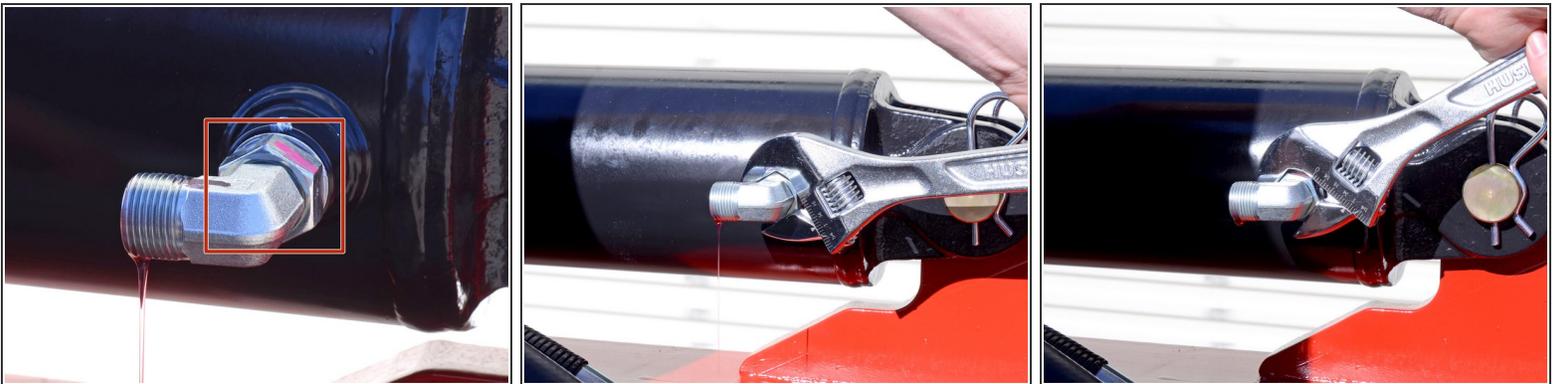
- Use an adjustable wrench to loosen the nut securing the piston extension hose to the L-fitting on the side of the cylinder.

## Step 13



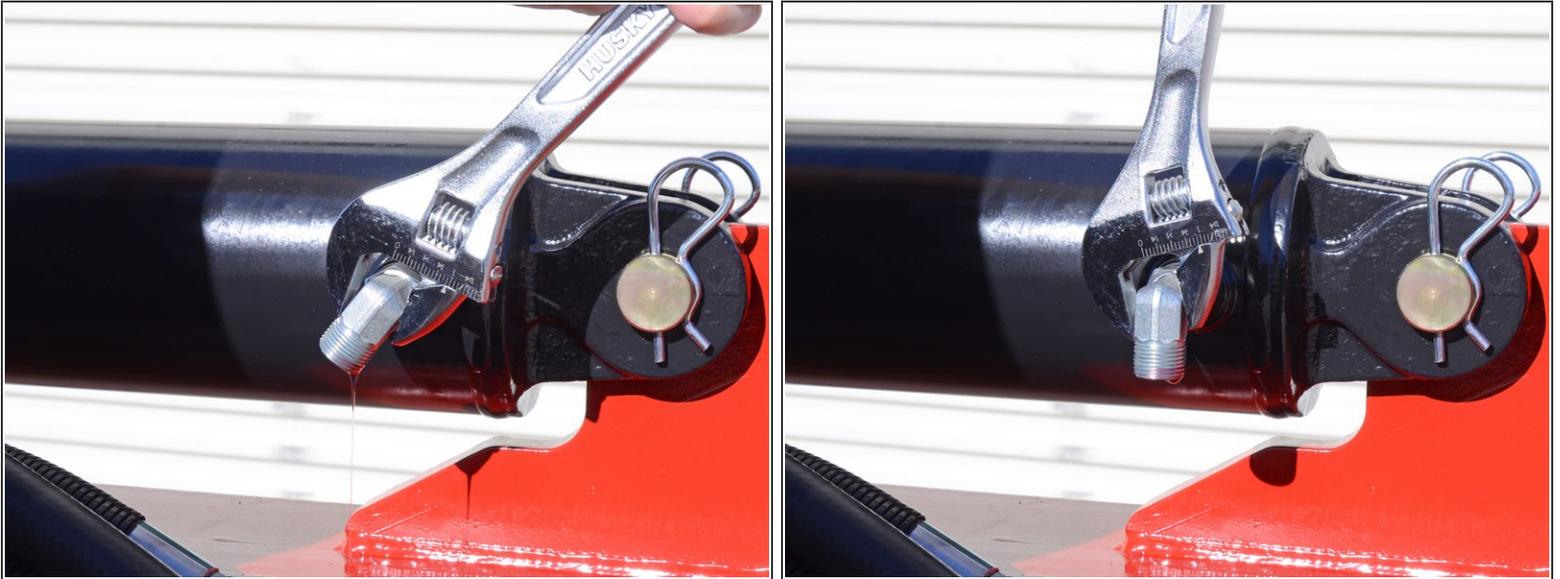
- Remove the piston extension hose from the L-fitting.
- ⓘ This hose will have excess hydraulic fluid, so tilt it down towards the catch bucket and let the fluid drain out.

## Step 14



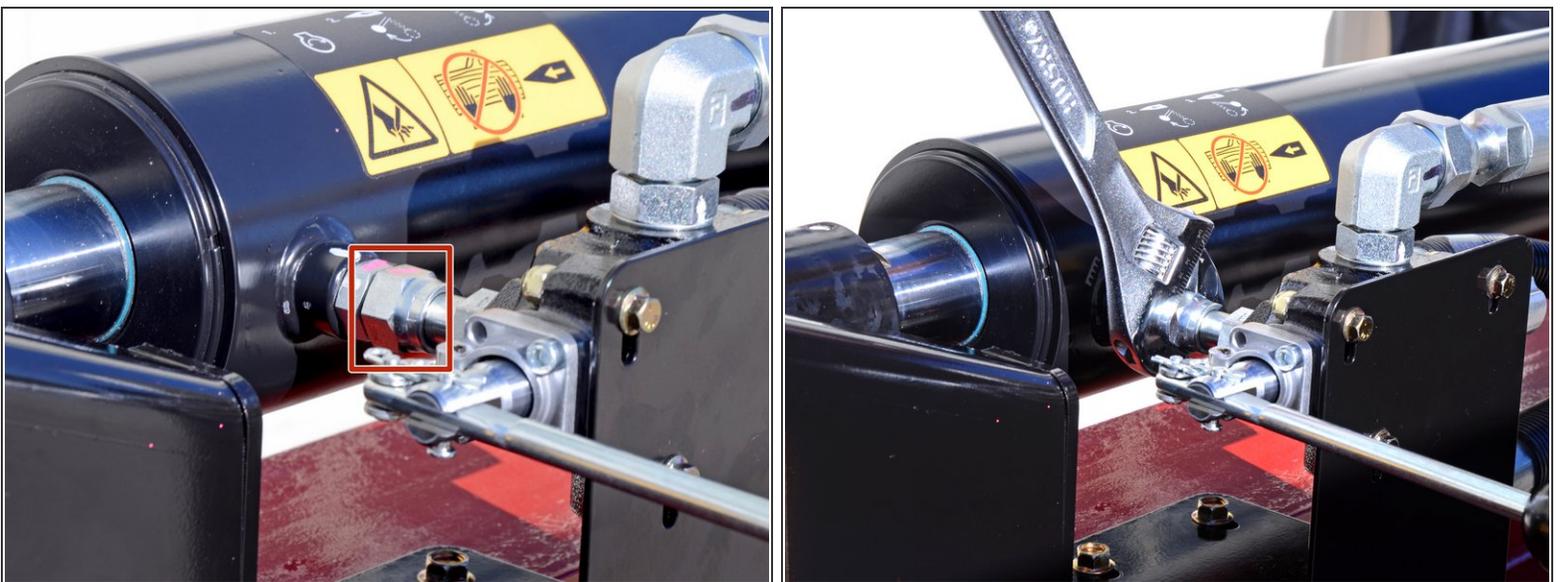
- Use an adjustable wrench to loosen the nut securing the L-fitting to the side of the cylinder.

## Step 15



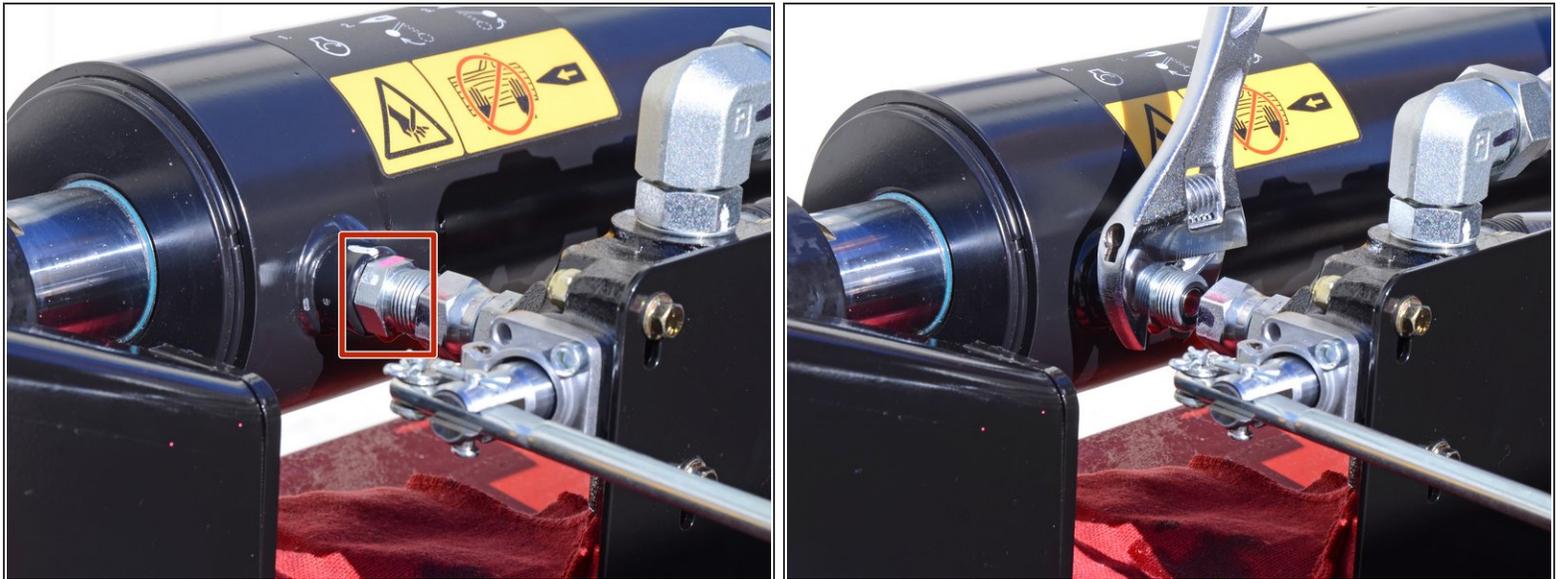
- Use an adjustable wrench on the L-fitting itself to rotate it to a vertical position with the opening facing down.
- ⓘ This allows excess hydraulic fluid to drip out. Keep a bucket underneath the device to catch drips.

## Step 16



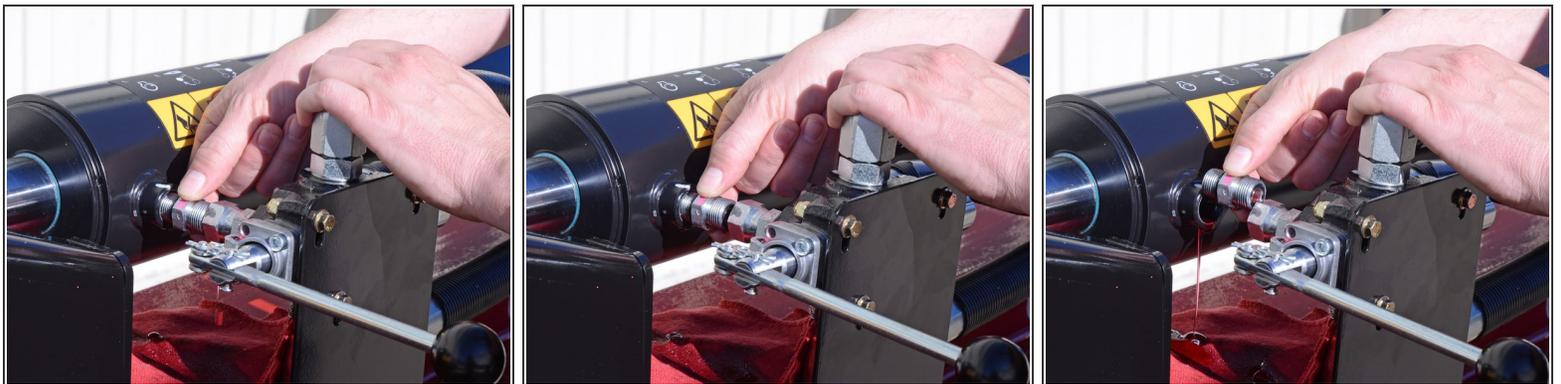
- Use an adjustable wrench to loosen the nut securing the control valve to the fitting on the cylinder.

## Step 17



- Use an adjustable wrench to loosen the fitting on the cylinder.

## Step 18



- Slightly bend the control valve assembly away from the device to create a gap large enough for the fitting to clear.
- Remove the fitting.

## Step 19 — Shim the cylinder



- Shim the cylinder with wood blocks to keep it at its resting height, parallel to the frame.

## Step 20 — Remove the pivot pin



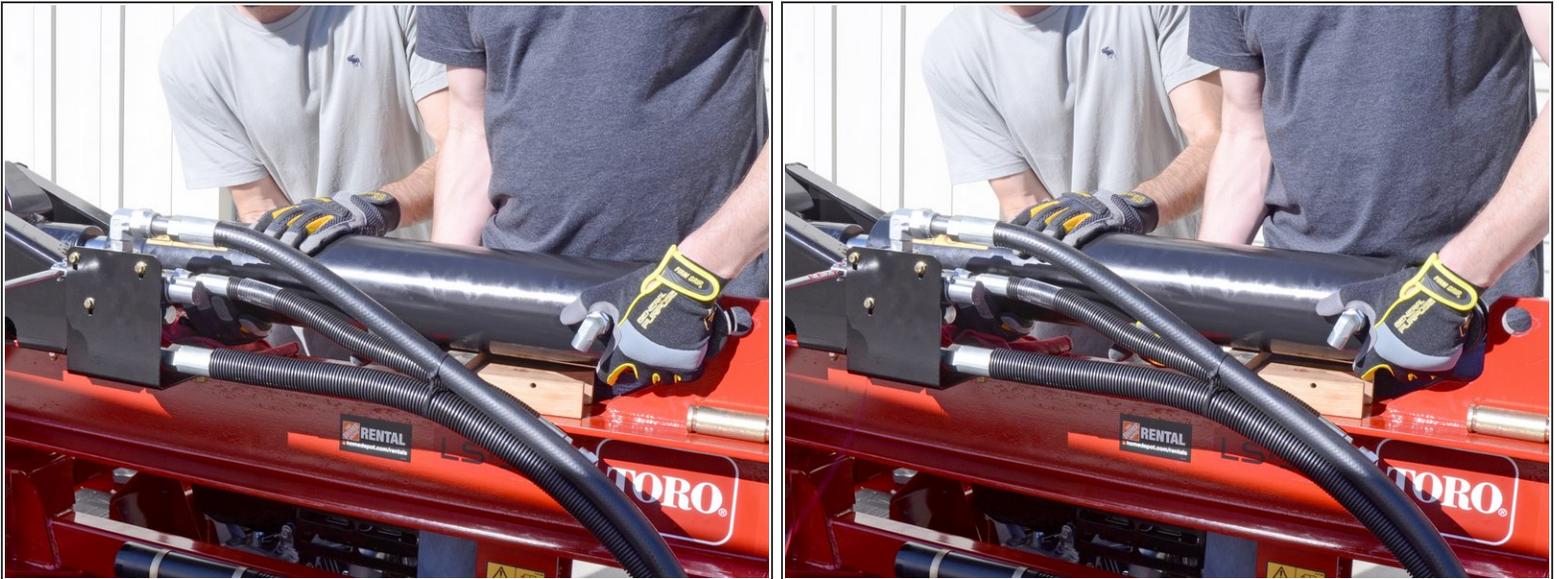
- Pull to remove the two cotter pins securing the large pivot pin.

## Step 21



- Remove the pivot pin.
- ⓘ The cylinder should now be resting on the wood shims.

## Step 22 — Shift and rotate the cylinder and wedge assembly



- ⓘ The following steps require two people.
- ⚠ The cylinder and wedge assembly is extremely heavy, so use caution.
- Shift the cylinder and wedge assembly towards the rear of the device, until it clears the central pin hole.

## Step 23



- Rotate the cylinder until the L-fitting is vertical.

## Step 24 — Remove the cylinder and wedge assembly



- Support the cylinder and push the assembly towards the rear of the device until it clears the dislodger bracket.

## Step 25



- Remove the cylinder and wedge assembly.

To reassemble your device, follow these instructions in reverse order.

For the amount of hydraulic fluid lost during this procedure, **refill the hydraulic fluid tank.**