

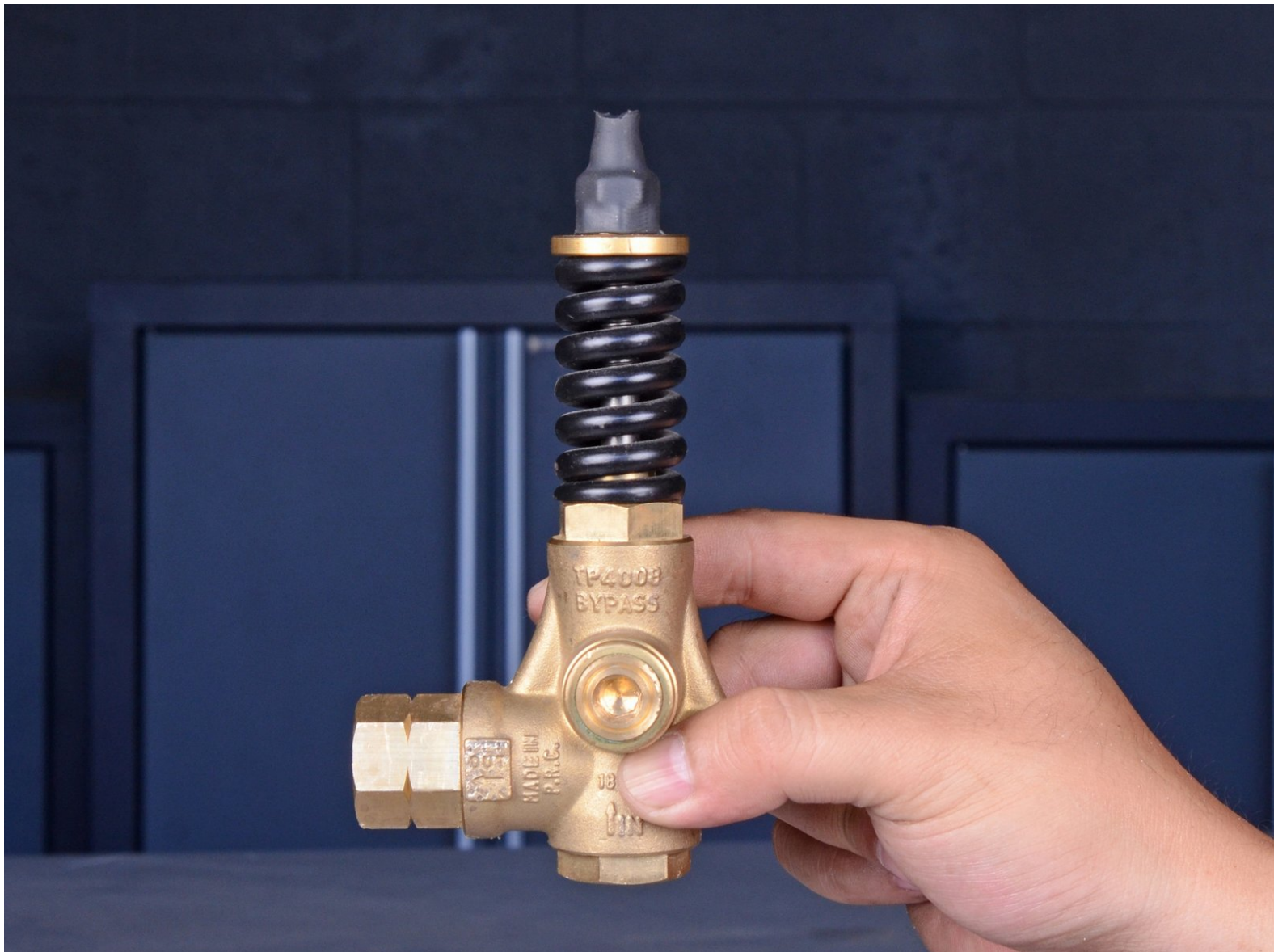


# MiTM Pressure Washers CA2703HDHB1 2017

## Unloader Replacement

Remove and replace the unloader assembly for the MiTM gas pressure washer.

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## INTRODUCTION

This guide will show you how to remove and replace the unloader assembly for the Mi-T-M gas pressure washer. You will need to disconnect many tight pipe fittings in order to disconnect the unloader.

You will need something that is 3" tall to place underneath the pump assembly. This can be a wooden block, brick, etc. This will help brace the pump while you work on removing the fittings.

The following tools are optional, but can help with disassembly:

- 1/4" socket
- 1/2" wrench
- 11/16" wrench
- 3/4" wrench
- 15/16" wrench
- 1" wrench



### TOOLS:

- [Adjustable Wrench](#) (1)
- [Adjustable Wrench, large](#) (1)  
*Jaws open over 1"*
- [Flathead Screwdriver](#) (1)
- [Wooden Block—3"](#) (1)
- [Large Vise](#) (1)
- [8mm Hex Key](#) (1)
- [Teflon tape](#) (1)



### PARTS:


- [Mi-T-M Unloader 8-0656](#) (1)

## Step 1 — Determine the unloader assembly



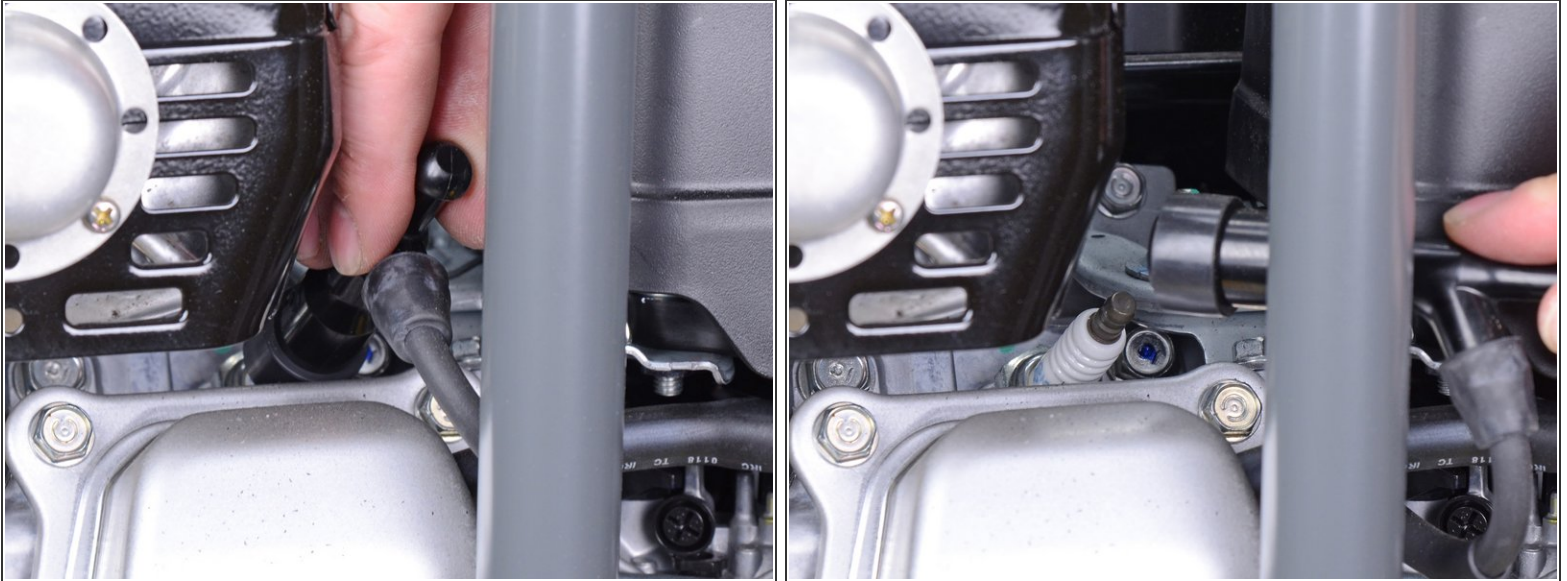
- **There are two versions of the unloader assembly:**


- First image—earlier pressure washers feature an all-in-one assembly (part 8-0631) that's easy to replace, but gave users the ability to break the pump.
- Second image—later models use a tamper-proof, harder to remove unloader (part 8-0656), connected by a series of pipe fittings.

 This guide is written for the tamper-proof unloader assembly.

- If you need to remove an all-in-one style unloader, use a large adjustable wrench to unscrew the two large Banjo bolts. This will disconnect the unloader from the pump assembly.

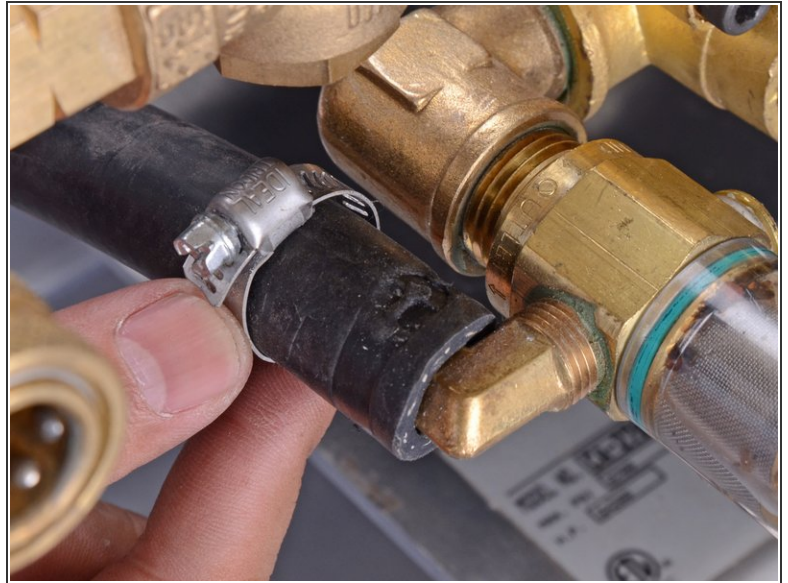
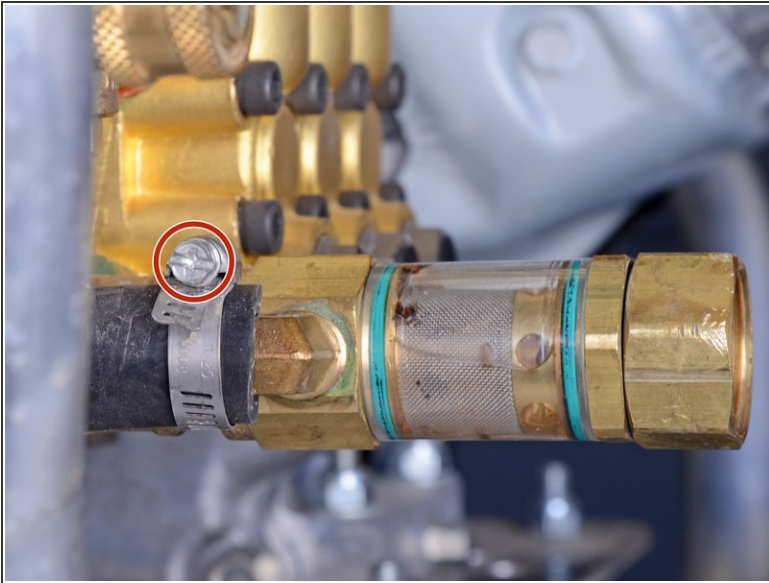
## Step 2



-  Before you begin, be sure that the engine is powered off and is cool to the touch.
- Grab the plastic housing at the end of the spark plug wire.
  - Pull firmly to disconnect the wire from the spark plug.

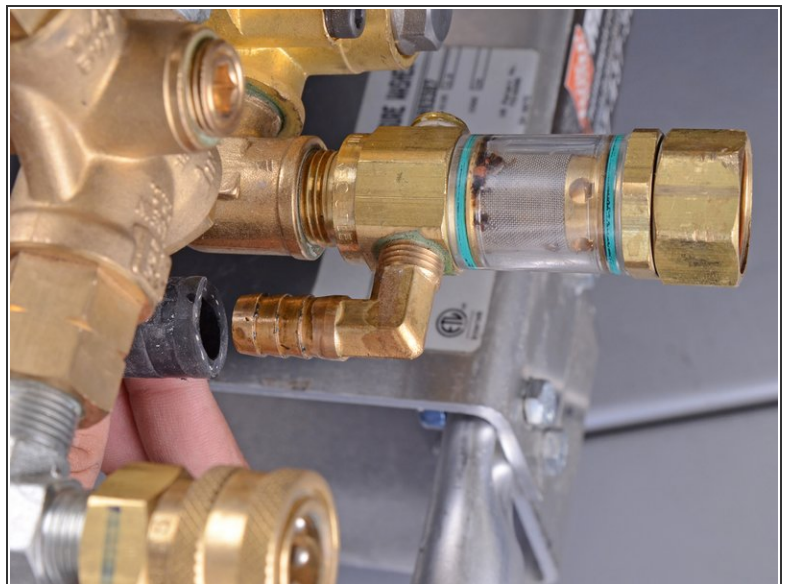
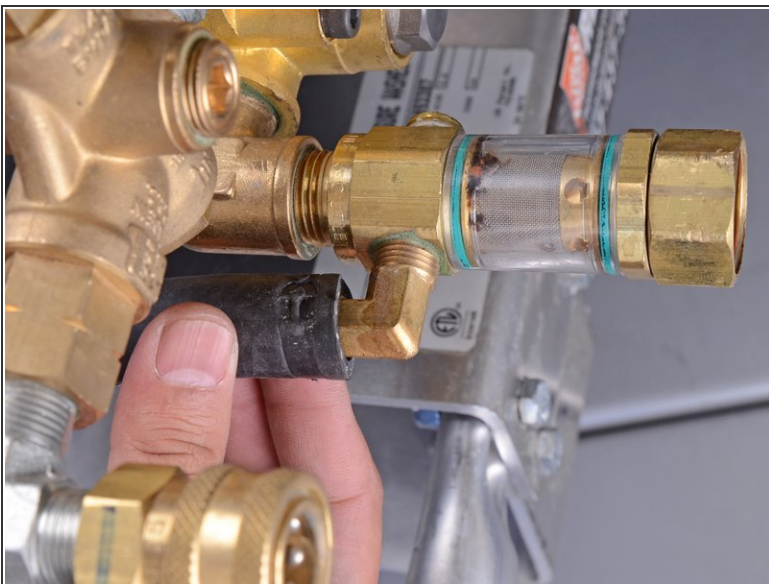


### Step 3 — Loosen the hose clamp



- Use a 1/4" socket or a large flathead screwdriver to loosen the hose clamp near the inlet filter.
- Slide the hose clamp away from the end of the hose.

### Step 4 — Disconnect the return hose



- Wiggle the hose and pull it off of the brass nipple.

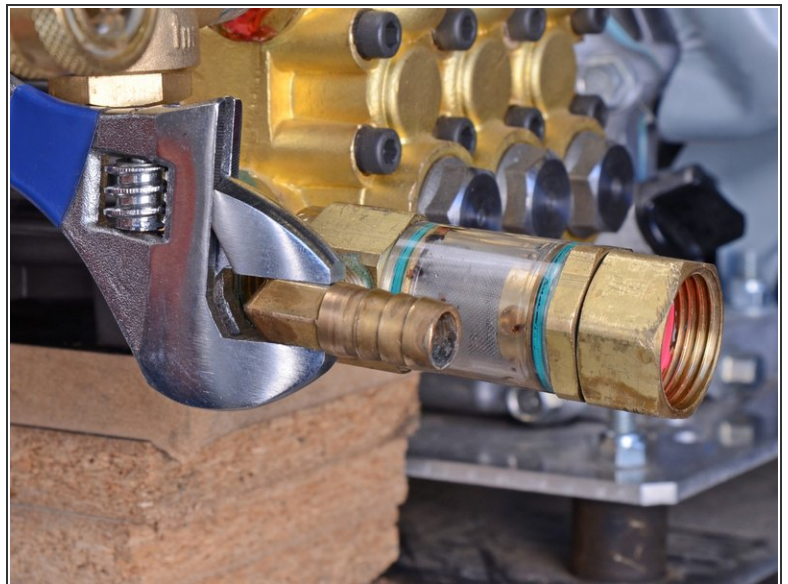
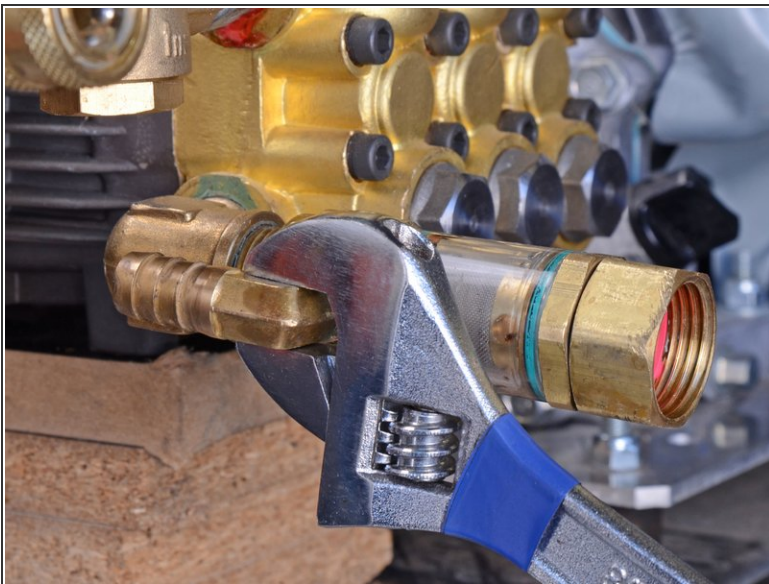


## Step 5 — Position the support block



- Slide a 3" tall block underneath the pump assembly to help support the pump.

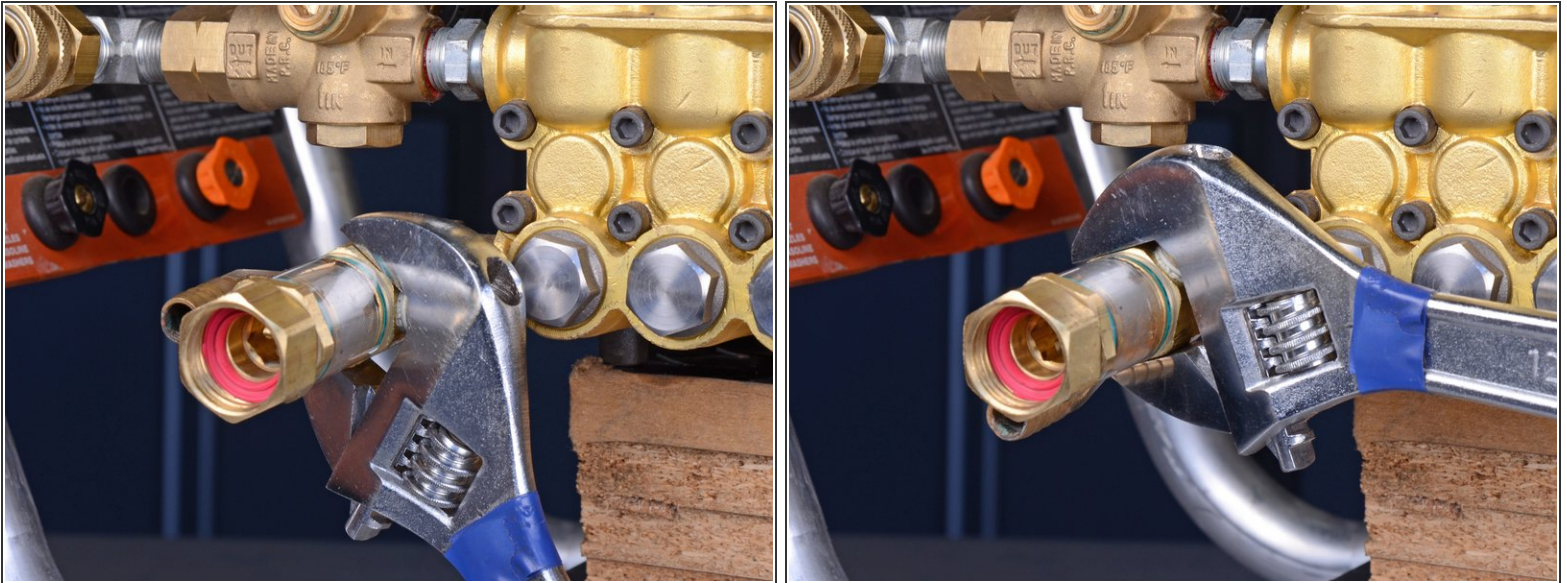
## Step 6 — Re-position the return elbow



- Use a 1/2" or adjustable wrench to loosen and twist the return elbow **half a turn**, so that it faces the opposite direction.
  - ⓘ This will allow the fitting to clear the pump edge without being removed.

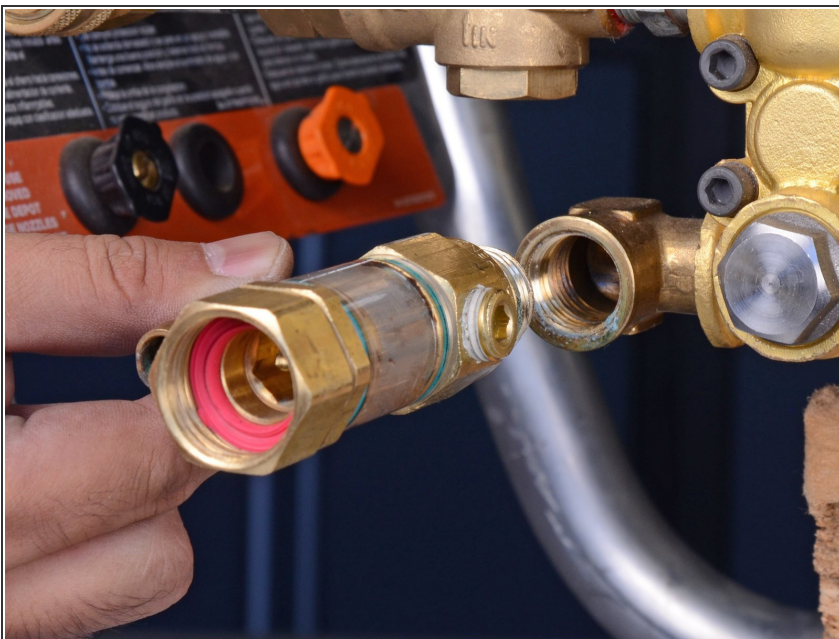


## Step 7 — Loosen the filter



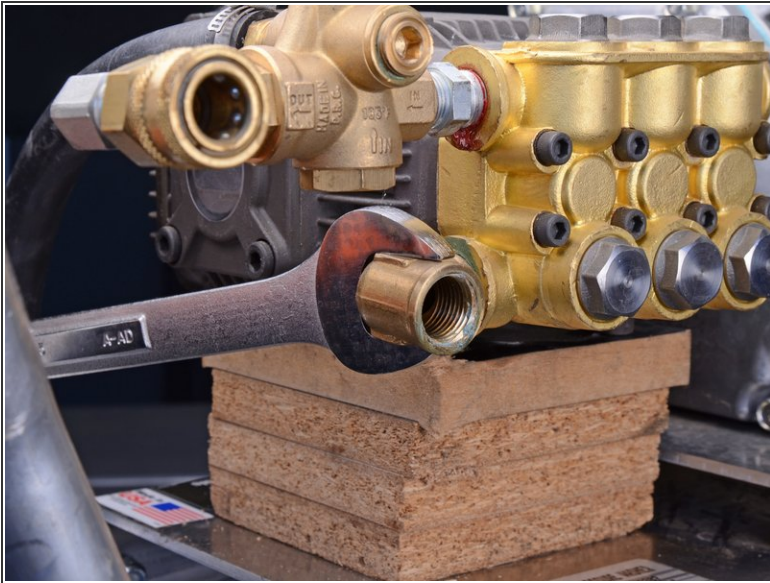
- Use a large adjustable wrench to loosen and unscrew the filter.

## Step 8 — Remove the filter



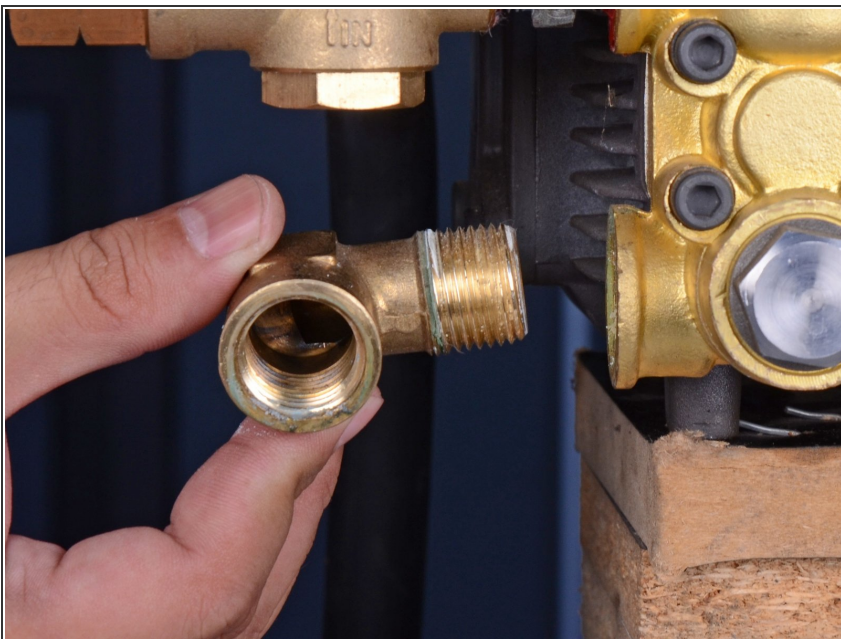
- Remove the filter with the return elbow attached.

## Step 9 — Loosen the input elbow



- Use a 1" or large adjustable wrench to loosen and unscrew the pump input elbow.

## Step 10 — Remove the input elbow



- Remove the input elbow fitting.



## Step 11 — Loosen the output assembly



- Use a 3/4" or adjustable wrench to loosen and disconnect the coupling from the pump assembly.

## Step 12 — Remove the output assembly



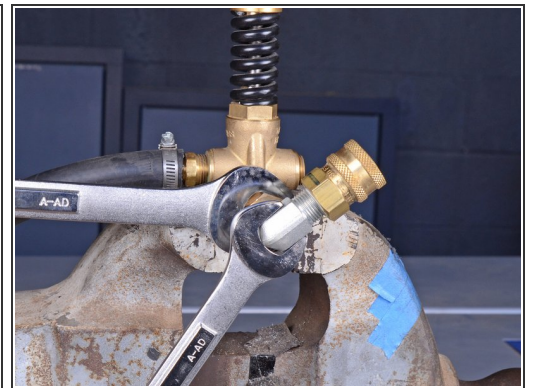
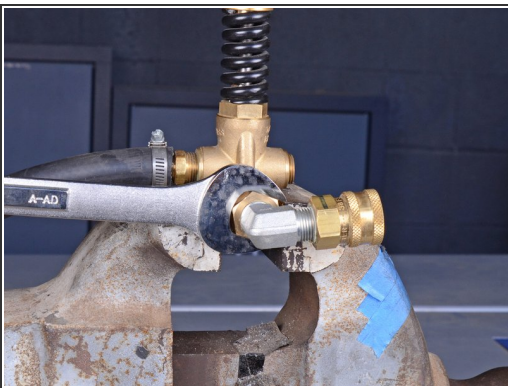
- Remove the output assembly.

## Step 13 — Clamp the output assembly



- ① You will need to remove the remaining fittings from the output assembly in order to replace the unloader.
- Secure the output assembly in a large vise.

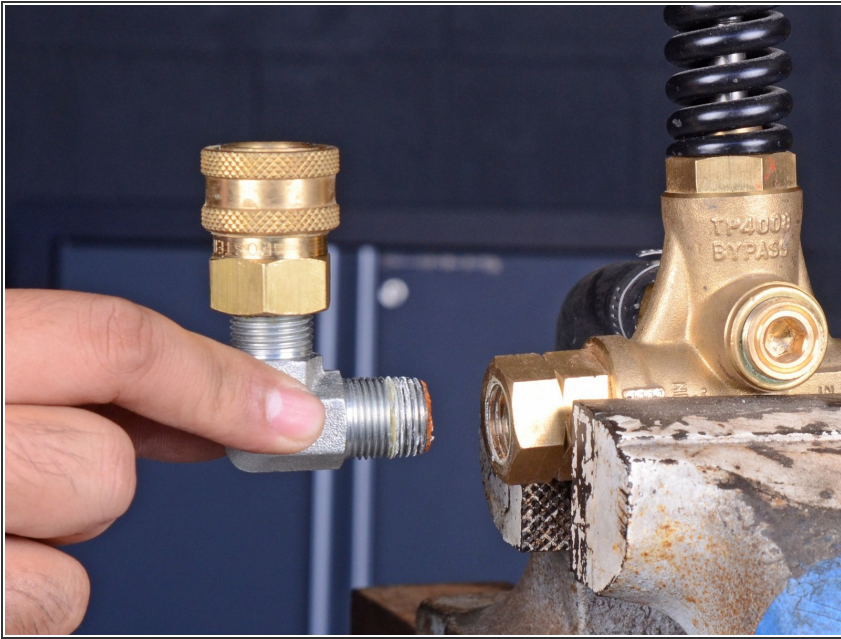
## Step 14 — Loosen the output elbow



- Hold the outlet fitting in place with a 15/16" or large adjustable wrench.
- Use a 3/4" or adjustable wrench to loosen and unscrew the output elbow from the outlet fitting.

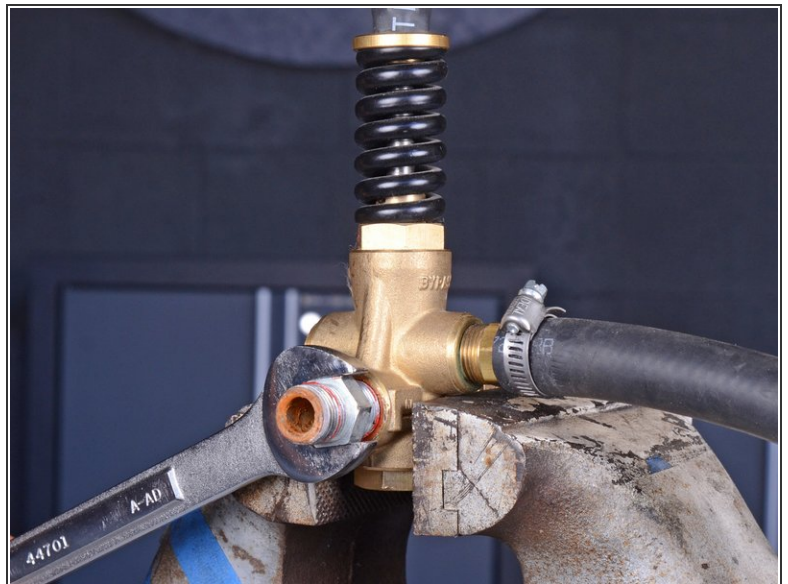
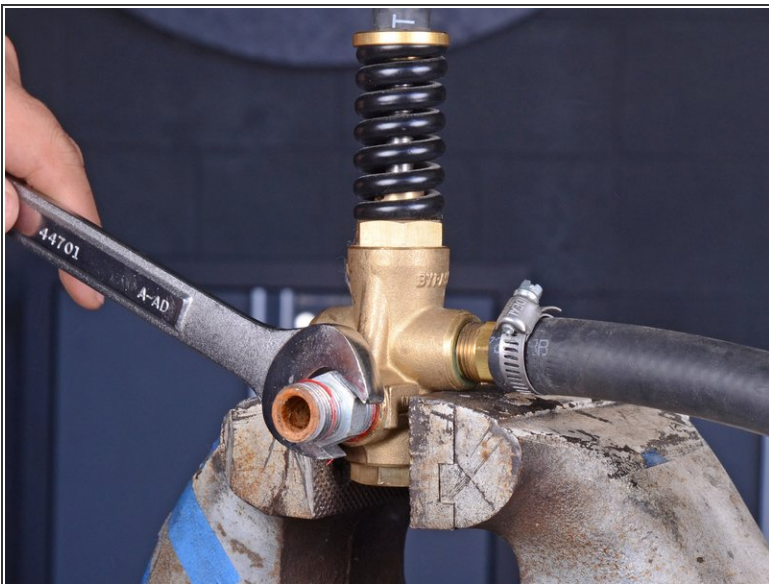


## Step 15



- Remove the output elbow with the quick-connect socket attached to it.

## Step 16 — Loosen the coupling nipple



- Use a 3/4" or adjustable wrench to loosen and unscrew the coupling nipple from the unloader.

## Step 17 — Remove the coupling nipple



- Remove the coupling nipple.

## Step 18 — Loosen the return hose nipple



- Use a 11/16" or adjustable wrench to loosen and unscrew the return hose nipple from the unloader.
- ⓘ You do not need to disconnect the hose from the nipple.



## Step 19 — Remove the return hose



- Remove the return hose nipple with the hose attached.

## Step 20 — Check for plug placement



- Only the unloader assembly remains.
- Compare the original unloader with the replacement part. The replacement part may have a plug installed in the wrong port.
- Use an 8 mm (5/16" OK) hex key to remove and re-install the plug into the correct port.

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

When you re-connect the fittings, clean off the old thread sealant and apply new thread sealant (tape or pipe dope).