



Repair a Broken Foot Pump

Fix your leaky bicycle pump by repairing a damaged hose. The repair was fun and easy, and cost nothing but a little time.

Written By: gordonhamachi



INTRODUCTION

It's pretty easy to repair high quality bicycle pumps. They tend to have hoses that screw onto the pump body. You can easily replace the entire hose, or simply cut off the damaged part of the hose, reinsert some plastic parts, and screw the hose back on.

Less expensive pumps are more of a challenge to repair. The hose is crimped on to the pump body with a metal band that is not meant to be reused. I thought the repair might be difficult, but it turned out to be fairly easy.



TOOLS:

- [Utility Scissors](#) (1)
 - [Small flathead screwdriver or other prying device](#) (1)
-

Step 1 — Remove the gauge and hose



- Unscrew the gauge from the pump. This isn't strictly necessary, but it makes the pump easier to work on.
- Use scissors to cut off the damaged part of the hose.
- If you are lucky, the good part of the hose is long enough to reuse. In the worst case you may need to get a new pump hose.

Step 2 — Remove the metal collar from the hose



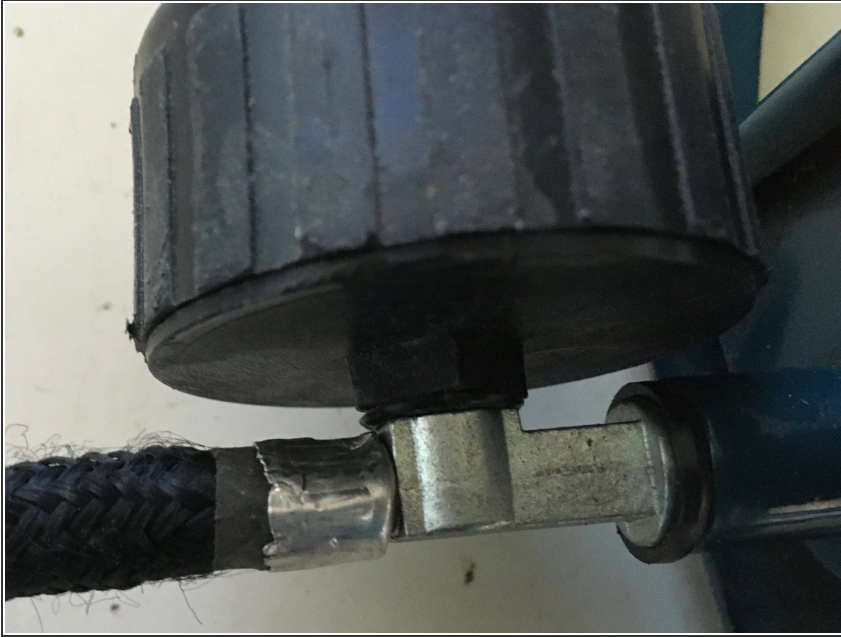
- This hose is held on to the pump with a crimped metal collar. By carefully prying up the crimped indentations with a small screwdriver, you can pull the hose out of the collar, preserving the collar for future use.
- The jagged edges on the end of the pump body help to secure the hose. The crimped metal collar adds additional security when pumping at high pressure.
- After removing the crimped metal collar, use small pliers to smooth out the crimp marks so the collar slides easily onto the end of the hose.

Step 3 — Reattach the hose to the pump body



- Put the metal collar back onto the trimmed end of the hose.
- Push the free end of the hose onto the conical, stepped end of the hose.
- Crimp the metal collar down to secure the hose. I used a small hose clamp to smash the metal collar in place. If you destroyed your metal collar or want the extra security, leave the hose clamp in place when you are done. I chose to remove the hose clamp to use for other projects.

Step 4 — Reattach the pressure gauge



- You are almost done. Reattach the pressure gauge by screwing it back onto the pump body.
- Test the pump. Hold your thumb over the end of the pump head and step on the pump handle. The pressure gauge should rise and hold steady, and you should hear no hiss of escaping air.
- If all is well, you are done. If air is escaping from the crimped hose end, be less cheap and permanently install the hose clamp.