

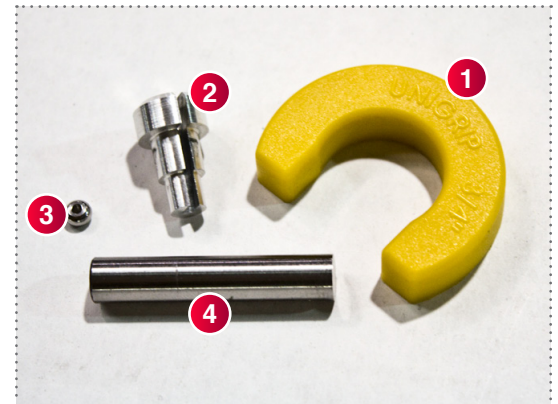


Length Adjustment Kit Instructions

The EarthStraw Length Adjustment Kit (ESLA-001) will allow you to reduce the length of your system in the field so that it may be fitted to the well of your choice. It comes with a discharge tee disassembly tool, a machined aluminum stop, a stainless steel bead, a hardened pin to use for flaring the stainless steel sucker wire, and instructions to guide you. Shortening the system is easy and takes only a few minutes. It requires a sharp utility knife, wire cutters, a hammer, vice grips and a small tube of super glue.

What Comes with this Kit

- 1 Discharge tee release tool
- 2 Machined aluminum stop
- 3 Stainless steel bead
- 4 A hardened pin for flaring the wire
- 5 Instructions



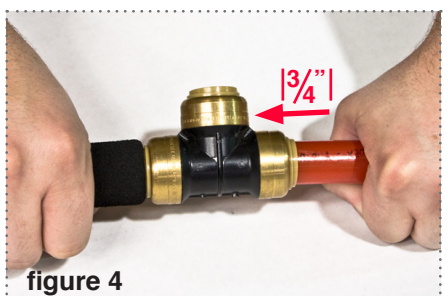
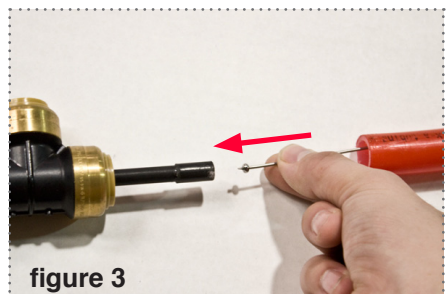
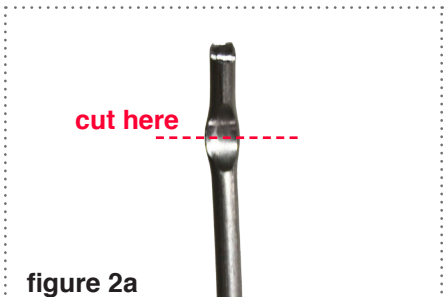
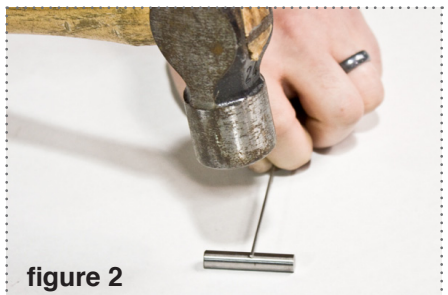
Additional Items for Installation

- 1 Sharp utility knife
- 2 Pair of wire cutters
- 3 Pair of vice-grips
- 4 Hammer
- 5 Small tube of super glue
- 6 Roll of tape



Reducing System Length

The EarthStraw Length Adjustment Kit (ESLA-001) comes with a hardened pin to use as an anvil for flaring the stainless steel wire, a small stainless steel bead, and a machined aluminum stop. If the Earthstraw is already assembled, use the EarthStraw Tee-Release (ESTR-075) to detach the red pump pipe from the discharge tee (**figure 1**), so that the entire pump rod assembly may be removed, including the discharge tee and pump-handle.



- step 1** With the system laid straight on the ground, measure from the open end of the red pipe (where the wire extends), and mark the length of pipe to be removed.
- step 2** Being careful not to nick or otherwise damage the wire inside, use the sharp utility knife to cut the red pipe off squarely at your mark, and slide it off the wire.
- step 3** Push the wire into the pump until it comes to a stop, and carefully use the wire cutters to cut it off 8" longer than the open end of the shortened red pipe.
- step 4** Placing tape on the wire 3-5 inches from the newly cut end creates a stop to keep the bead from sliding down the wire during assembly. Slide the small stainless steel bead over the end of the wire until it stops at the tape.
- step 5** Lay the hardened pin from your kit down on a solid surface such as concrete, a large vise, or the ball hitch on your vehicle. Hold the end of the stainless wire over the pin and strike it fairly hard directly over the pin to create a flare in the wire (**figure 2**).
- step 6** Cut the excess wire off at the center (which is the widest part) of the flare. Slide the bead up against the flare and tape the bead in place temporarily.
- step 7** Insert the beaded wire up through the narrow end of the long black pump rod as shown (**figure 3**). Insert the black rod all the way into the red pump body until the beaded-wire comes through the threaded end. Firmly push the red pipe into the bottom of the discharge tee about $\frac{3}{4}$ " or until fully engaged (**figure 4**).

Reducing System Length (*continued*)

step
8

Remove the tape. Below the bead, place the stainless steel wire into the side-slot of the machined aluminum stop (**figure 5**). Crimp the small end of the stop around the wire until the gap closes at least half way and the wire is securely captured (**figure 6**).

step
9

Push/cinch everything toward the bead until the beaded end is fully recessed into the head of the aluminum stop. Check to ensure that the wire flare DOES NOT extend out of the head of the stop. Trim or grind the end of the wire slightly if needed.

step
10

Drop a small amount of super glue into the slot and over the beaded end to further hold everything in place. After allowing the adhesive to cure, insert the wire and stop, into the pump rod until seated (**shown in figure 7**). By hand, screw the double grip handle in place to secure the aluminum stop. Do not over-tighten.



figure 3



figure 4



figure 5