PVC Handwashing Stations

LAST UPDATED 4/5/2020

Based off of VIDEO & DESIGN by Circo Innovations Inc:

https://www.youtube.com/watch?v=H93WF5NIWaM&feature=youtu.be

Guide by Sacramento Solidarity for Unhoused Populations, Sacramento Homeless Union, and the Willow Clinic (2020)





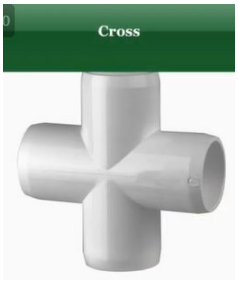
*Note: In our picture, the **front opening of the sink** is constructed in a different panel than in the video. This variation does not matter.

TOOLS

- ❑ PVC pipe cutter or saw
- ❑ Sharpie & Ruler
- ❑ Power drill with ¾" screw bit
- ❑ Scissors or Xacto knife (cut hole in bucket)

MATERIALS **all PVC pipes and fittings are 1" diameter**

- ❑ 23 sections of PVC pipe cut to 14"
- ❑ 7 sections of PVC pipe cut to 1.5"
- ❑ 1 section of corrugated drain pipe 1" diameter cut roughly to 12"
- ❑ Wire (connect foot pedal to faucet)

 **x1**	 **x2**	 **x4**	 **x4**	 **x3**
 **x2**	 **x1**	 **x10**	 **X1 Snap Clamp** (securing trash bag)	 **x1 Snap Tap (foot pedal)**
 **x20 (variable)** #8 x ¾” self-drilling screws (finish does not matter)	 **x1 water faucet**	 **x1 FloTool Super QuickFill Funnel** (filter screen included)	 **x2 five-gallon buckets** with lids (at least one bucket higher than 14”) *For the dirty bucket, get a lid with hole for the drain pipe	 **x1 36” bungee cord, knotted twice in a Figure 8** (holds top bucket to the frame)

STEP ONE

Attach 4 14” pipes to the **cross piece** to make the base of your sink.



STEP TWO

Add a **Slip T** to each pipe. Stand a 14” pipe on each piece.

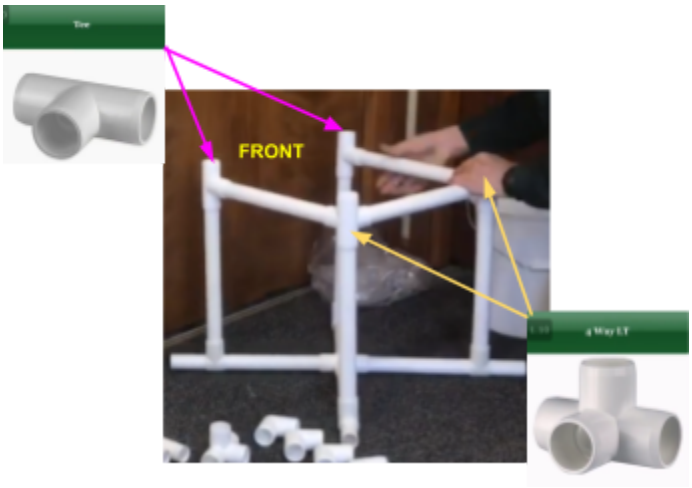




STEP THREE

Identify the front of your sink. Add **Tees** to the 2 pipes closest to you (the front). Add **4 Way fittings** to the 2 pipes farthest from you (the back).

Connect fittings using 3 14” pipes. This will leave the front open.



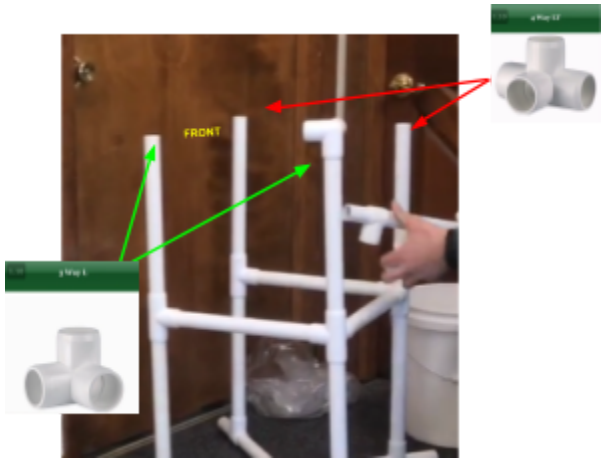
STEP FOUR

Stand 4 14” pipes on this level.



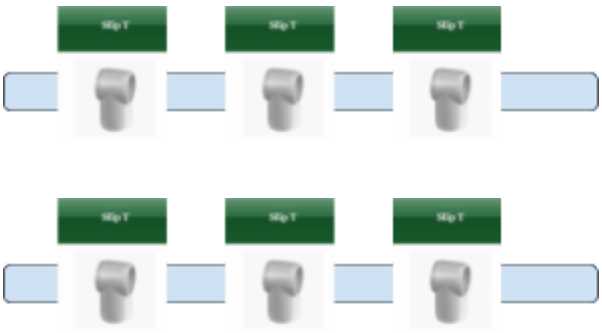
STEP FIVE

Add **3 Way Fittings** to the right 2 pipes. Add **4 Way Fittings** to the left 2 pipes.



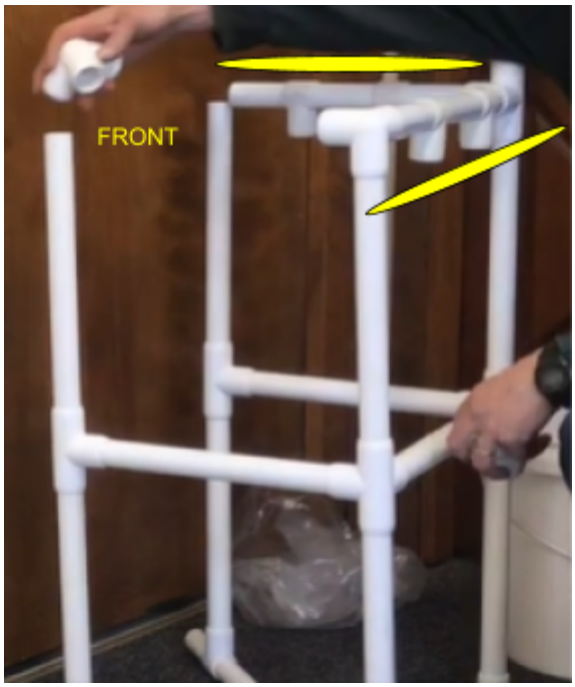
STEP SIX

Add **3 Slip T's** to each of two 14" PVC pipes..



STEP SEVEN

Use these pipes to create the **left wall and back wall** of the sink.



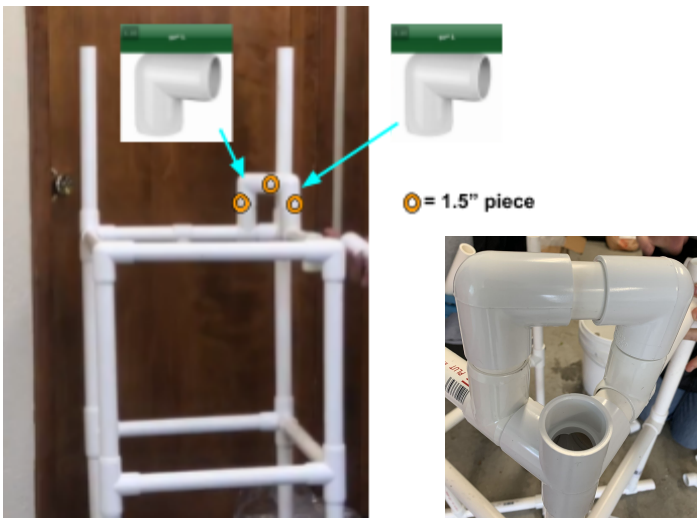
STEP EIGHT

Finish boxing in the top level. Add a standing 14" pipe to the **back left corner** where the clean bucket will rest. Add a standing 14" pipe to the **front left corner** for the paper towels.



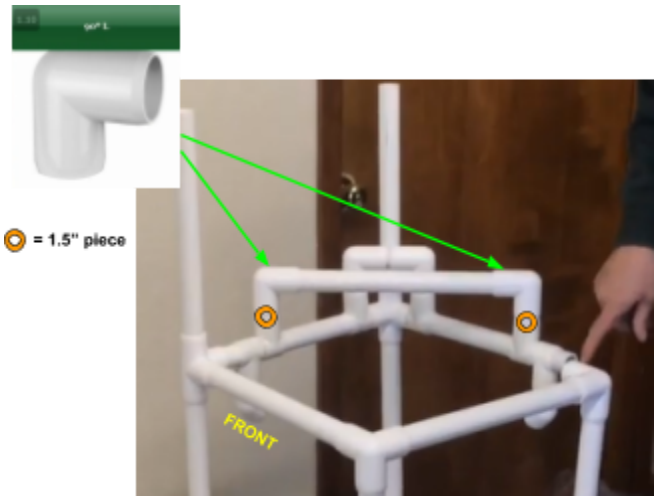
STEP NINE

Use 3 1.5” pieces and 2 elbows to construct the **back arch.** Secure arch in the backmost corner of **Slip T’s** you threaded earlier.



STEP TEN

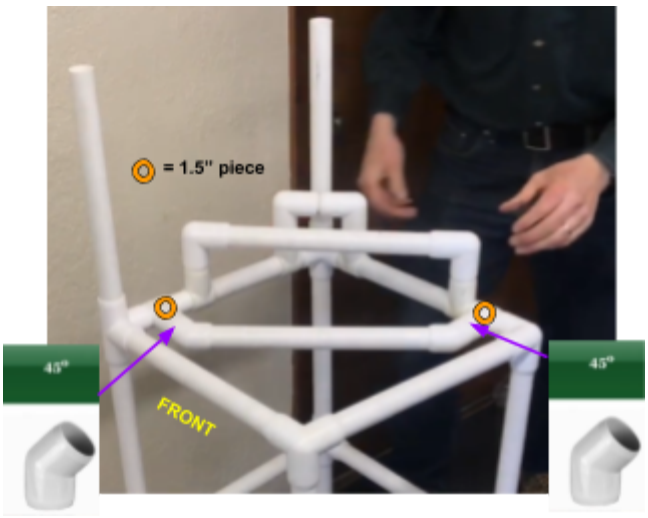
Use 2 1.5” pieces, 2 elbows, and 1 14” pipe to construct the **middle arch.**



STEP ELEVEN

Use 2 1.5” pieces, 2 **45-degree Fittings**, and a 14” pipe to construct the **front arch.** The arch should be inverted down, allowing the sink to rest there.





STEP TWELVE

Drill a small hole in the bottom left corner of the **foot pedal** and screw it to a pipe near the front of the sink. Tie a wire to it.

EDIT: Unlike the video, our team installed the pedal one pipe clockwise.



STEP THIRTEEN

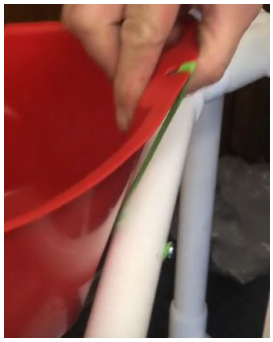
Use self-drilling screws to r**einforce every joint**, as many as you want.



STEP FOURTEEN

Secure the drain-pipe between funnel and dirty bucket with water-resistant tape. Use 2 screws and the rubber band to secure the funnel.





STEP FIFTEEN

Drill a **hole in the clean bucket** big enough for your faucet.

Drill a tiny **hole in the faucet handle**. Tie a wire between the faucet and the foot pedal.



STEP SIXTEEN

Secure the clean bucket to the frame using a **bungee cord.,** knotted twice in a Figure 8 (start at 0:20). Add a **cap Top** to the pipe behind it (optional).

