

# Hands free hand wash station



## Materials list

[USB rechargeable water pump](#) –1 option 1  
\$14

[USB rechargeable water pump](#) –1option 2  
\$14

[Foot Switch](#) –1 \$9

[Drain](#) –1 \$9

[Drain tube](#) -1 \$7

[Hardboard](#) 2' x 4'-4 \$15

[2' x 2' plywood](#) –1 \$5

[2" x 2" boards](#) -6 \$12

[1" x 6" x 6' board](#) -1 \$3

[Corner brace](#) –6 \$3

[Water jug](#) –1 \$6

[5 gallon Pail](#) –2 \$6

[Bowl Planter](#) –1 \$4

[Extension Cord](#) –1 \$3

[Crimp on wire connector](#) -1 \$2

[Here is a video of it working.](#)

Designed by: Randy Maile

1. Take pump and remove bottom screws



5. Place cord thru switch hole.



8. Reassemble the pump



2. Remove nut from switch



6. Remove ends from pump switch strip wires and twist together



9. Tape cord to pump to secure it



3. Remove and unplug switch



7. Solder wires together then cover with electrical tape



4. Cut extension cord in half strip both ends



**Pump option #1**

1. Take pump and remove bottom screws



2. Unplug switch from board



3. Remove plug from wires clip off black wire it is not needed. Strip the red wire



4. Cut extension cord in half strip both ends



5. Drill hole in cover near the top on the side. Be careful not to hit the screw support.



6. Insert the cord thru the hole. Twist one end with the red pump wire and solder together.



7. Solder the other wire to the open spot on the motor terminal.



8. Reassemble the pump

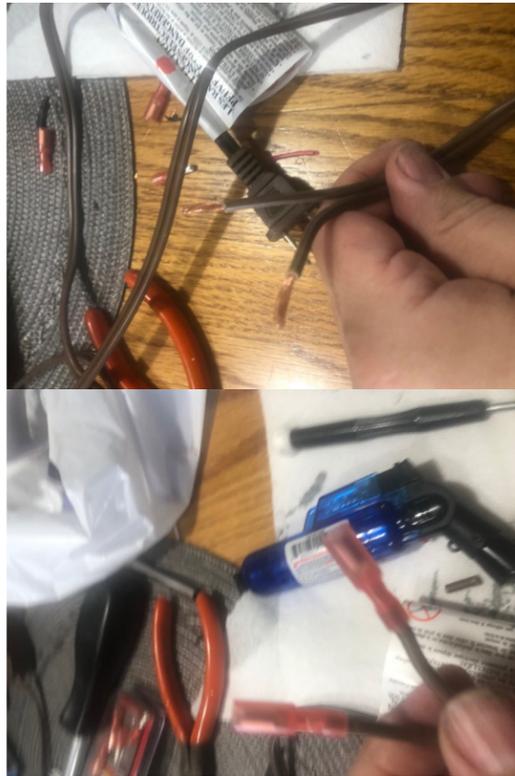
8. Tape cord to pump to secure it



**Pump option #2**

# Foot switch

1. take other end of extension cord crimp on female ends of crimp on wire connectors.



2. Take foot switch clip off black wire strip the red and white wires extra long.



3. fold over wires and crimp on male ends.



# Enclosure

Cut the following lengths from the 2" x 2"s save the drops

4- 33"  
8- 21"

Assemble the enclosure .  
Make 2 rectangles with 33" x 24" dimensions

Then screw them together to ma a box 33" high x 24"

Cut all of the hard board to 36" in length.

Attach it to 3 sides of the box.

Next attach the corner braces so that the other piece of hard board can slide in. 2 on the bottom and 2 on each side. Making sure there is enough room to slide it in and out easily.



Next screw the drops on the top as shown.



Stack the water jug on top of the pail put the 2' x 2' sheet of plywood on the top and trace around the top of the bottle.

Cut a hole in the plywood it's approximately 2 3/4"



Cut the 1 x 6 in to equal sections and screw to the bottom



Put the water bottle back on the pail and place the plywood sheet on top. Mount the pump. Be sure to run the wire thru the hole and place the bowl in position drill the hole for the bowl and mount the drain and bowl to the sheet.



As you can see I cut an extra hole for garbage. You can also mount a paper towel holder on it if you wish.

Cut the hose to length

