

## **TITLE:** No Touch Foot Pump Hand Sanitizer Dispenser

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**DESCRIPTION:** Simple and inexpensive hand sanitizer dispenser activated by foot pedal. Parts can be purchased at a hardware store for under \$15 with simple and easy instructions. Kids and Adult sizes options as well as different size dispenser options. My daughter teaches 1st grade and wanted one for her classroom.

### **Completed Picture:**



**STEPS:**

1. Purchase Materials in MATERIAL LIST table below
2. Cut PVC to lengths in CUT LIST table below
3. Connect pieces by DIAGRAM below without PVC primer nor PVC glue
4. Drill (3/32" to 1/8") and screw bowl to hold hand sanitizer (if wobbly, add bowl lower support like heavy plastic, metal or thin wood or hot glue)
5. Make adjustments [see ADJUSTMENTS section] for specific hand sanitizer container and user height (Cut same length off J1 and J2 and possibly trim G1 and G2)
6. Re-connect pieces with PVC primer and glue by DIAGRAM below
7. Decorate as desired

**MATERIAL NEEDED:**

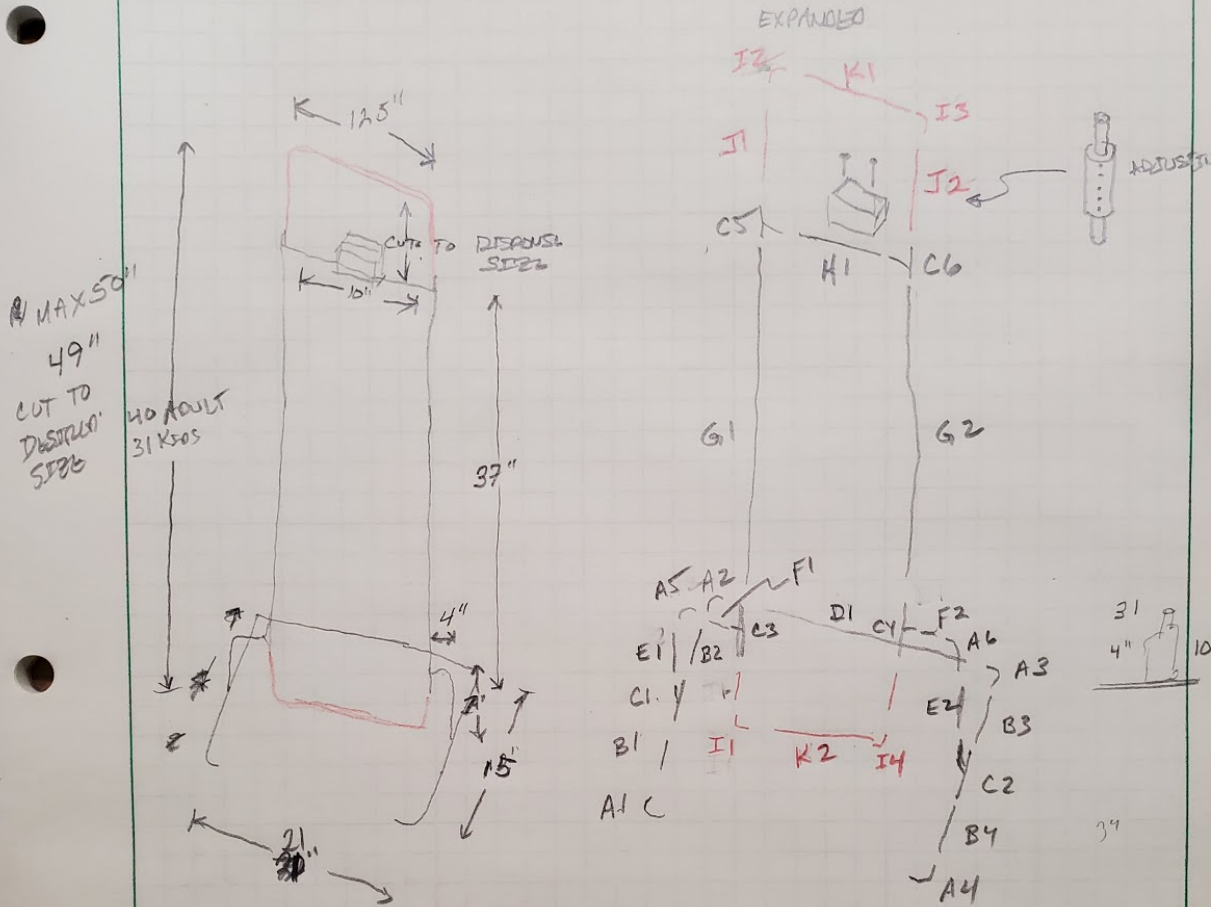
Material	Quantity	Unit Price	Total Price
1/2" PVC Schedule 40, 10ft	1	\$1.74	\$1.74
1/2" PVC Schedule 40, 90 degree elbow	4	\$0.16	\$0.64
1" PVC Schedule 40, 10ft	1	\$3.33	\$3.33
1" PVC Schedule 40, 90 degree elbow	4	\$0.43	\$1.72
1" PVC Schedule 40, Tee	6	\$1	\$3.90
Plastic bowl to hold hand sanitizer bottle	1	\$2	\$2.00
<b>Total</b>			<b>\$13.33</b>
<b>Optional Items</b>			
Spray Paint			
Decorative Duct tape			
Bowl lower support (heavy plastic, metal or wood)			
Sheet Metal screws (#10 x 1/2")		\$1.75 box	

**TOOLS NEEDED:**

1. PVC Cutter (hack saw, pipe cutter or real PVC Cutter)
2. Measuring Tape
3. PVC Primer & Glue (after adjustments with specific heights and hand sanitizer dispenser sizing)

**DIAGRAM (Need to clean up):**

# No Touch Foot Hand Sanitizer Dispenser



MAX 50"  
49"  
CUT TO  
DISTANCE  
5826

40 ADULT  
31 K505

- \* LENGTH OF PIPE (NOT ELBONS/TEE)
- \* MAY SUPPORT (HEAVY PLASTER / WOOD UNDER OR IN PLASTER CONTAIN
- \* CONTAIN TAP / FOAM /
- \* TOP TAP / FOAM

Diagram Label	Material Source	Length (in)	Quantity	Total Length (in)
A1..A6	1" PVC Schedule 40, 90 degree elbow		6	
B1..B4	1" PVC Schedule 40, 10ft	5	4	20
C1..C6	1" PVC Schedule 40, Tee		6	
D1	1" PVC Schedule 40, 10ft	18	1	18
E1..E2	1" PVC Schedule 40, 10ft	6	2	12
F1..F2	1" PVC Schedule 40, 10ft	2.5	2	5
G1..G2	1" PVC Schedule 40, 10ft [Kids size = 18in]	27	2	54
H1	1" PVC Schedule 40, 10ft	10	1	10
I1..I4	1/2" PVC Schedule 40, 90 degree elbow		4	
J1..J2	1/2" PVC Schedule 40, 10ft [Kids size = 38in]	48	2	96
K1..K2	1/2" PVC Schedule 40, 10ft	10.25	2	20.5

#### ADJUSTMENTS:

1. If the bowl being used to hold the hand sanitizer seems wobbly, adding extra hard plastic, thin wood or metal can add support
2. If the hand sanitizer has extra room inside the bowl to move around, it can be secured with foam on the sides or double sided tape on the bottom. The hand sanitizer can move a little, but works better when snug inside the bowl.
3. After all pieces are connected without PVC primer nor PVC glue and the bowl holding the hand sanitizer is mounted, adjust the length of J1 and J2 such that there is about 1in between the floor and K2 when the top K1 is touching the top of the hand sanitizer. This is about the range of movement of the hand sanitizer pump.
4. If a shorter variant is desired, G1, G2, J1, and J2 can be shortened by the same amounts (like 10in for kids size)

#### PICTURES:





