

HOW TO MAKE A KAYAK CART

Materials

1 1/2" PVC

- 1 – 1 1/2" PVC tubing 6 foot long
- 7 – 1 1/2" PVC "T" joiners
- 2 – 1 1/2" PVC end caps

5/8" Hardware

- 1 – 5/8" threaded rod 2 foot long
- 4 – 5/8" nut
- 2 – 5/8" lock washer

Misc

- 2 – pneumatic wheels
- 2 – tie-down straps

Pieces

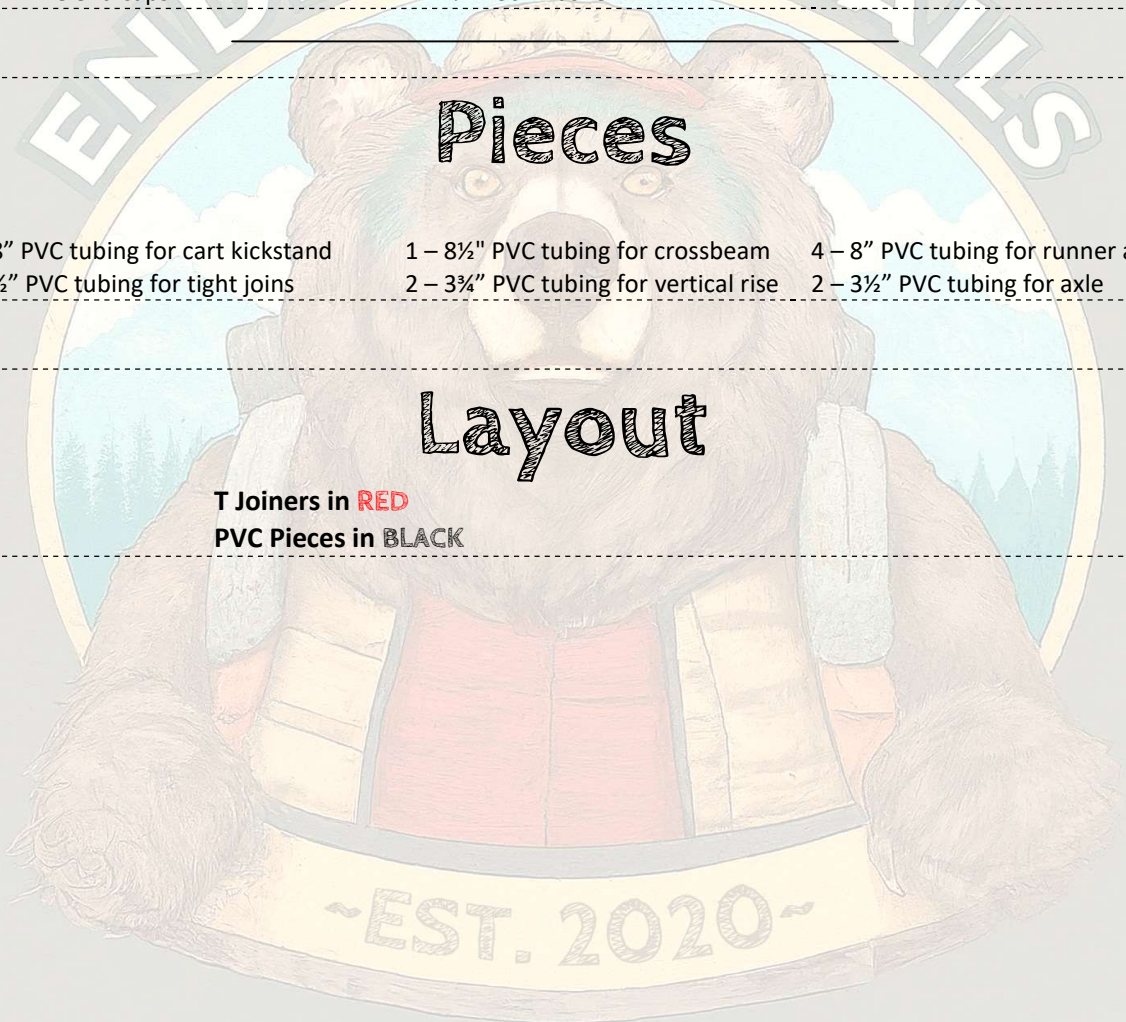
- 1 – 18" PVC tubing for cart kickstand
- 4 – 1 1/2" PVC tubing for tight joins

- 1 – 8 1/2" PVC tubing for crossbeam
- 2 – 3 3/4" PVC tubing for vertical rise

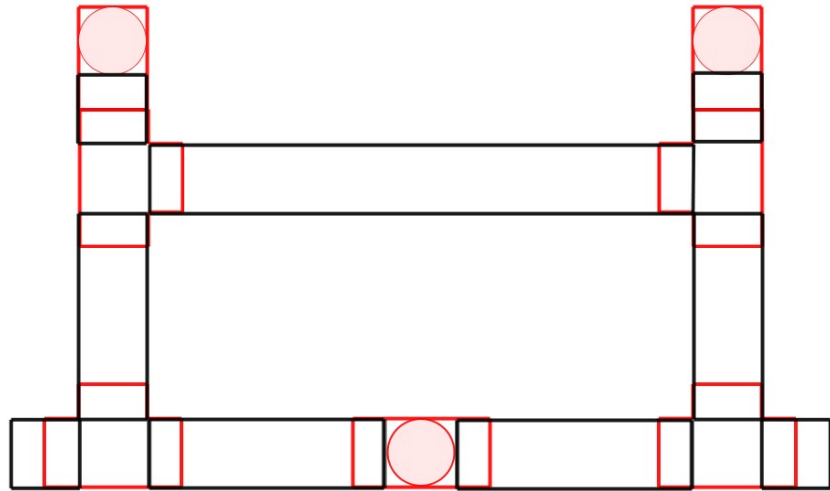
- 4 – 8" PVC tubing for runner arms
- 2 – 3 1/2" PVC tubing for axle

Layout

T Joiners in **RED**
PVC Pieces in **BLACK**



HOW TO MAKE A KAYAK CART



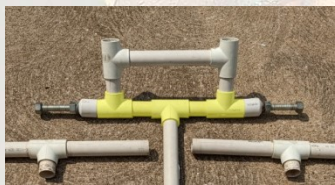
Find More By Endless Trails At: www.EndlessTrailsOnline.com

HOW TO MAKE A KAYAK CART

Steps

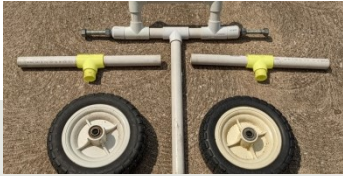
It is important to note I am using the measurements for my own boat and cart. You will want to adjust width to suit your own needs. These measurements will help you get an idea of how cut your PVC pieces to build your cart .

Image



1. Start by measuring your boat. If it has ridges or grooves underneath it, this is a great place to put the runners of your cart. Capture this measurement for use in determining the width of your cart.
2. Using the measurement in step 1, create your crossbeam. Remember, you are including the overall width of the crossbeam and T joiners on the ends to determine where your runners will line up on your boat. Factor that into your measurement. For me, my crossbeam was about $8\frac{1}{2}$ " long. Glue the crossbeam to the T joiners on the ends.
3. Next, you can cut the riser pieces that fit between the crossbeam and the axle. For me, these pieces were about $3\frac{3}{4}$ " long. Go ahead and glue these to the lower end of the T joiners on the ends of the crossbeam.
4. This step will be the trickiest. You are going to create the axle using 3 T joiners and 2 pieces of PVC of roughly equal length to one another with overall length equal to that of the structure you have already built. 2 T joiners will fit on the bottom end of the risers added in step 3 while the 3rd will be placed in between the two axle pieces you will be cutting. For me, these pieces were about $3\frac{1}{2}$ " in length. Once you have the final fitment, glue all these pieces together to your existing structure.
5. Next you will want to carefully drill holes in the center of the end caps. A $\frac{5}{8}$ " hole in the center of each will allow the threaded rod to pass through. Cut two tiny pieces of PVC to fit into the open ends of the T joiners at either end of the axle. They only need to be as long as necessary for placing the end caps next to the T joiners or roughly $1\frac{1}{2}$ " long. You will place the end caps on each of these joining them to the T joiners on either end of the axle. Glue these

HOW TO MAKE A KAYAK CART



in place as well.

6. Next, you can cut the small pieces for the runner supports. They only need to be as long as necessary for placing two T joiners next to each other or roughly 1½" long. Feel free to glue the small pieces to the T joiners. **Do NOT glue these assembled pieces to the existing structure!**
7. Next, you can take the last of your PVC and cut 4 pieces about 8" in length, each, and create the runners where your kayak will sit. Feel free to glue these into the T joiners at the top of the structure. The T joiners should NOT be glued at this point and will remain unglued for disassembly and storage. Using the remainder of your PVC, jam this into the T joiner in the middle of your axle. This will be your kickstand, for lack of a better word, which will hold your cart upright while you position your kayak!
8. Finally, send the threaded rod through the axle assembly using the holes drilled in step 6. If your axle rod is too long, wait to cut it until you have put the wheels and nuts on to check for fitment. You don't want to cut the threaded rod too short. Afterwards, put a locking washer and nut on each end of the axle against the caps, slide on the wheels, and put another nut on the ends to secure the wheels.