

# Mobile Bar Cart

By **Oak Hill Millworks**

Difficulty

Moderate

Make this rolling beverage cart in time for hosting holiday parties. Use a hardwood like walnut or use select pine and a walnut stain to get that expensive look without breaking the bank.



# Tools

## Kreg Tools



[Kreg® Pocket-Hole Jig 720PRO](#)



[Adaptive Cutting System Master Kit](#)



[Zinc Pocket-Hole Screws](#)

## Other Tools

Drill

Impact Driver

Miter saw

Clamps

Mallet

Brad nailer (optional)

# Materials

## Wood Products

**3** Boards , 1x2x8

**2** Boards , 1x3x8

**2** Boards , 1x6x8

## Hardware & Supplies

**1** Box Of 1 ¼" Kreg Pocket Hole Screws (See Tools List)

**1** Safety Glasses / Personal Protective Equipment

**1** Oil Or Finish Of Choice

**1** Measuring Tape

**1** Combination Square

**1** Brass Tube Rail

**1** Solid Brass Rod

# Cut List & Parts

- 4 Upright Legs - A , 1x2x36
- 6 Cross Supports- B , 1x2x18
- 4 Long Side Of Tray- C , 1x3x24
- 4 Short Side Of Tray- D , 1x3x16.5
- 6 Bottom Panel Of Tray Components\*\* - E , 1x6x22.5

# Directions

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## Step one

Cut all your components to size, not including your bottom panel 1x6's. Cut those about an inch longer so that any movement that occurs during the glue up can be trimmed off and squared up. More on that in Step 2.

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## 2

### Step two

Glue Up your 1x6 components in two panels of 3 boards each.

Try to align them but remember, you cut these boards longer so that any shifting during this glue/clamp up could be accounted

for. Spread glue evenly between boards and clamp snugly, but do not over tighten the clamps. Make sure to push down before tightening fully in order to keep the boards flat. In a few hours when they can be removed from the clamps, you can use the Kreg ACS or any other circular saw system with a straight edge to trim one edge of your panel, measure 22.5" from the freshly squared off edge, and trim the other edge to make it the final dimension of 16.5"x22.5".

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### 3

#### Step three

Drill pocket holes using the Kreg 720PRO into (4) of the (6) 1x2x18 cross support pieces. This is how we will create our framework supporting the entire bar cart. You should drill 2 close pocket holes on both ends of 4 cross supports giving you a total of 16 pocket holes. The two extra cross supports do not need pocket holes and are meant to be used as blocking underneath the lower cross support for the attaching of wheels.

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**4****Step four**

Combine a blank 1x2x18 cross support with one that has pocket holes. Do this twice. I glued mine back-to-back and clamped them together. This gave me the thickness I needed to drill holes for wheels to be attached later. After more research, there are other wheel options that could be screwed directly into the 1x2 rather than having to drill a hole and insert a stem. Regardless of the wheel you choose, the extra 1x2 for support isn't a bad idea.



**5****Step five**

Install wheels of your choice

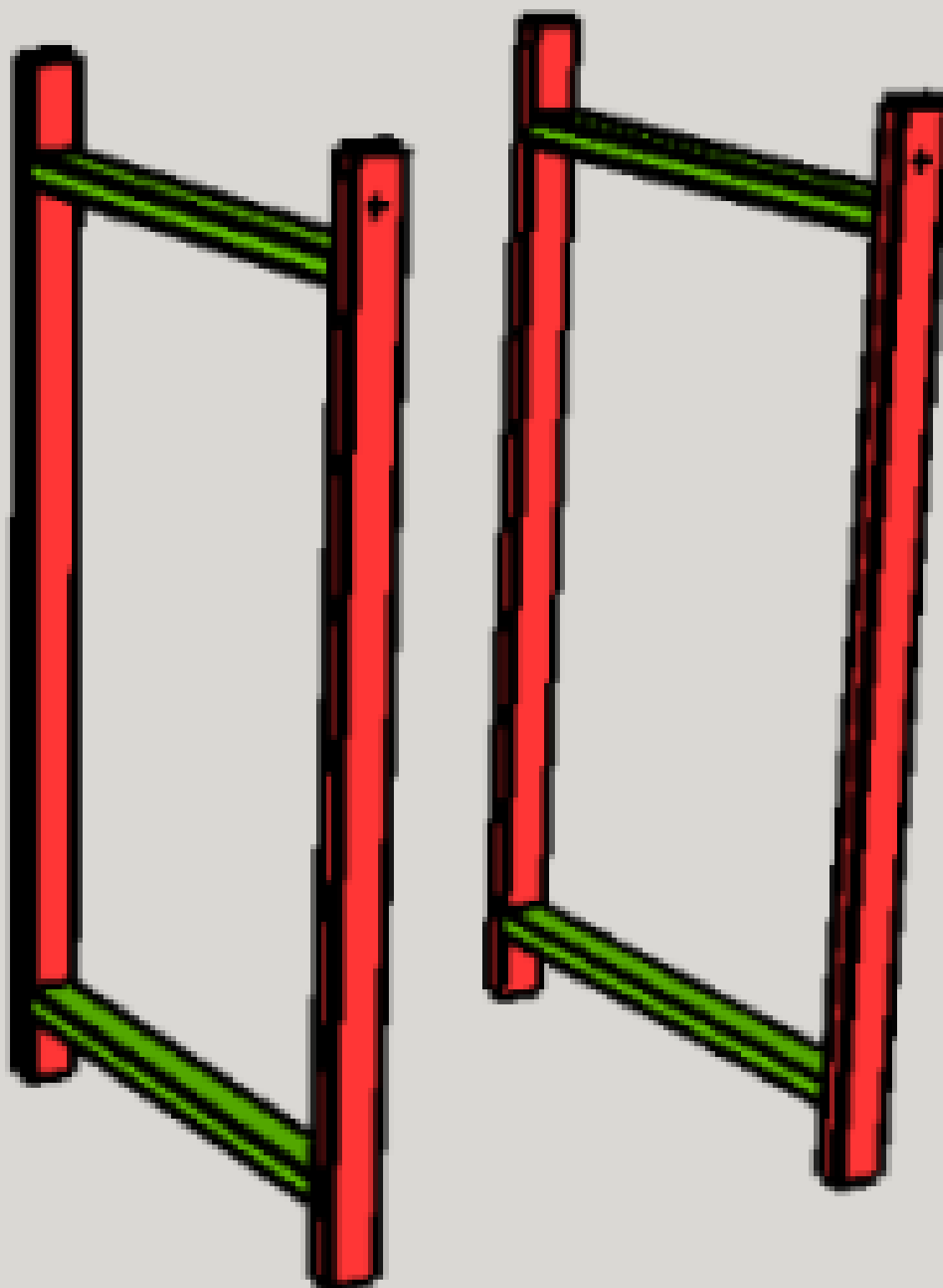
according to the instructions provided by wheel manufacturer to the bottom of the two lower cross supports after they come out of clamps. Try to keep the wheels as far out as possible to aid in proper balance.

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## 6

**Step six**

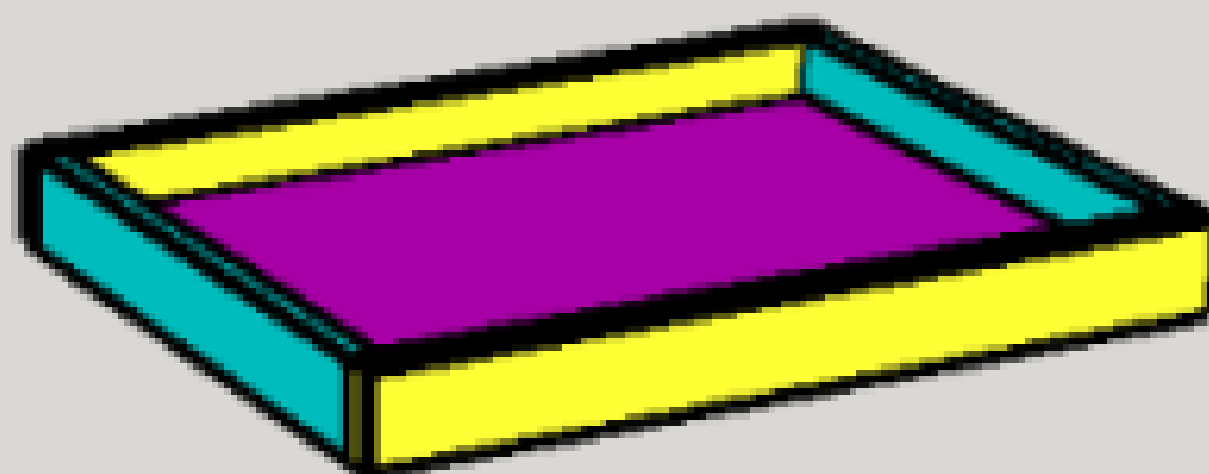
Attach the 1x2x18 cross supports to the 1x2x36 pieces with glue and 1 1/4" pocket hole screws. The tray is 2.5" tall and I wanted the upright legs to have a 1/4" reveal above the tray so my upper cross support was about 2.75" from the top. On the bottom portion, I installed my cross supports with wheels so that the antiqued brass wheel was visible but the attached portion was hidden behind the 1x2 upright. This is also the time when, if you are choosing to add the brass tube accent rail, you would need to mark and drill 3/8" holes into your upright legs so those can be inserted prior to attaching your cross supports as it will be much easier to insert them at this time.



7

**Step seven**

Assemble your two trays. The 1x3x24 long sides go on first. You can use glue and clamps or brad nail it to keep working. These will overhang the tray by  $\frac{3}{4}$ " on each side to allow for the 1x3x16.5 short sides to be attached in between.



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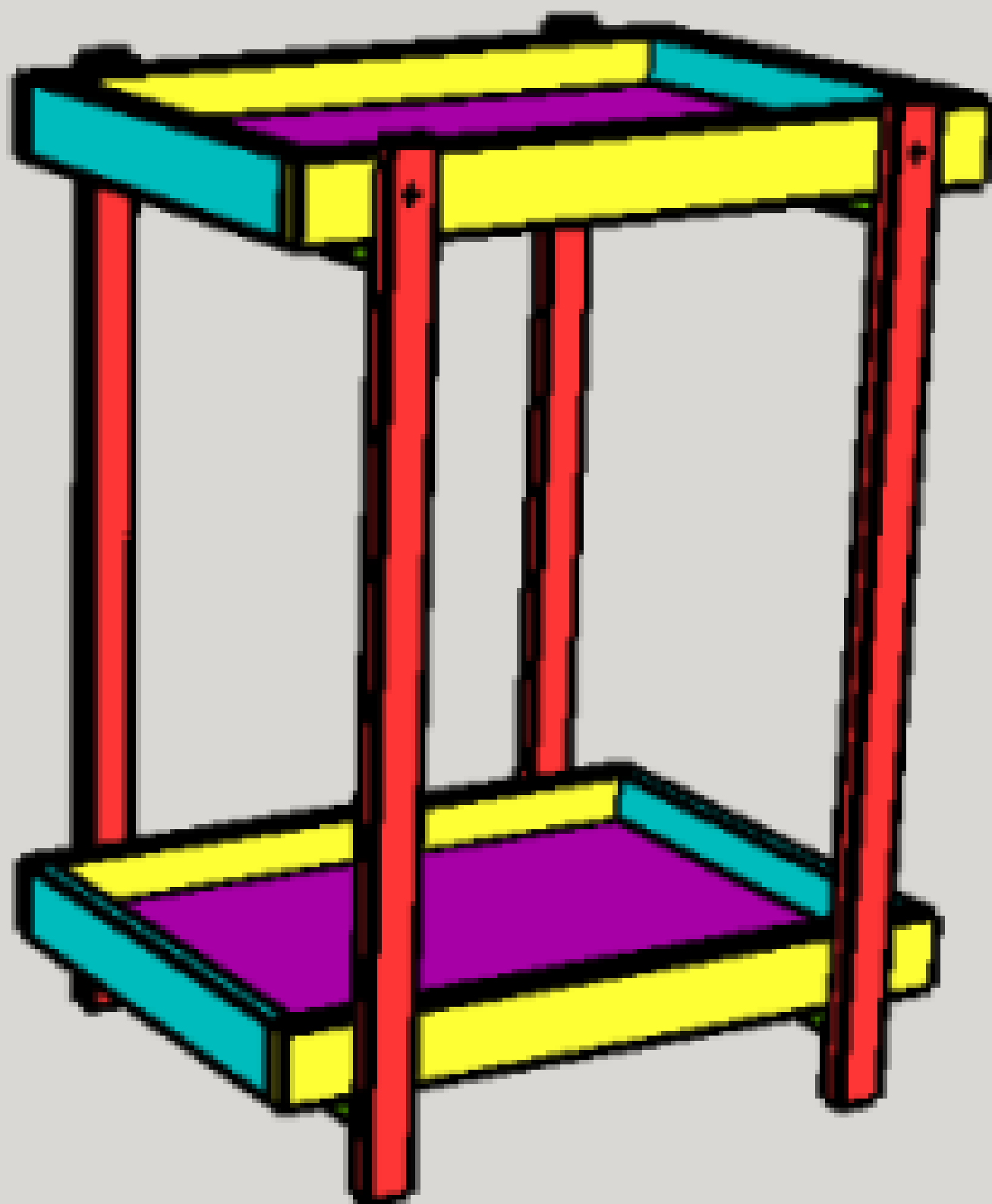
**Step eight**

Put it all together! Grab a friend for this part - you'll need the extra set of hands. After the glue is fully cured, it's time to place the trays atop the cross supports and join them together. These will fit snug and will need to be tapped into place with a scrap piece of wood and a mallet. I fastened mine to the cross supports from below with 1  $\frac{1}{4}$ " pocket hole screws.

## 9

**Step nine**

Secure the top tray to the upright legs with a through-dowel. This is necessary to avoid a left-to-right pivot point being formed. There are multiple ways to do this. I drilled a 3/8" hole through both and super glued solid brass rod inside. Another option would be to simply pre-drill a hole and countersink a screw, being sure to not pass through the side of the tray, and then plug the hole.



**10****Step ten**

Finish the bar cart with the sealant of your choice. I used a wipe on tung oil but a number of options would work! Make sure to take a picture in front of your build and tag @oakhillmillworks and @kregjig on Instagram so we can see!

