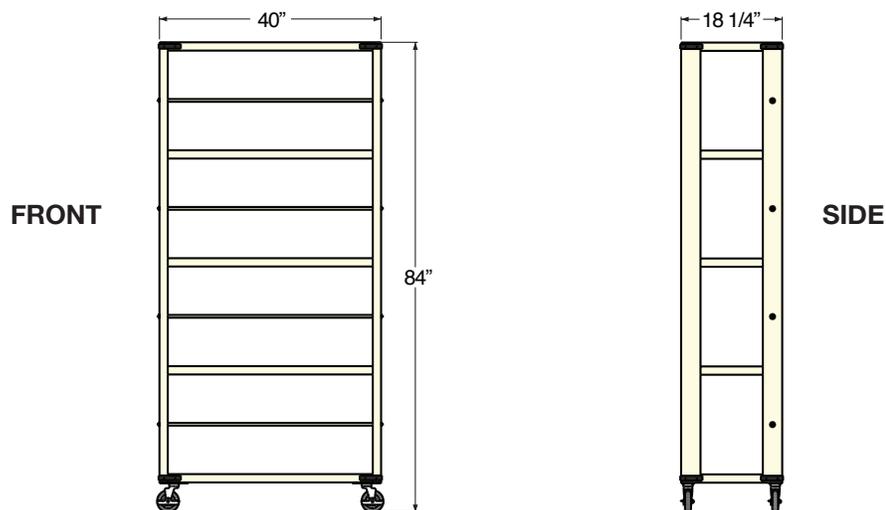




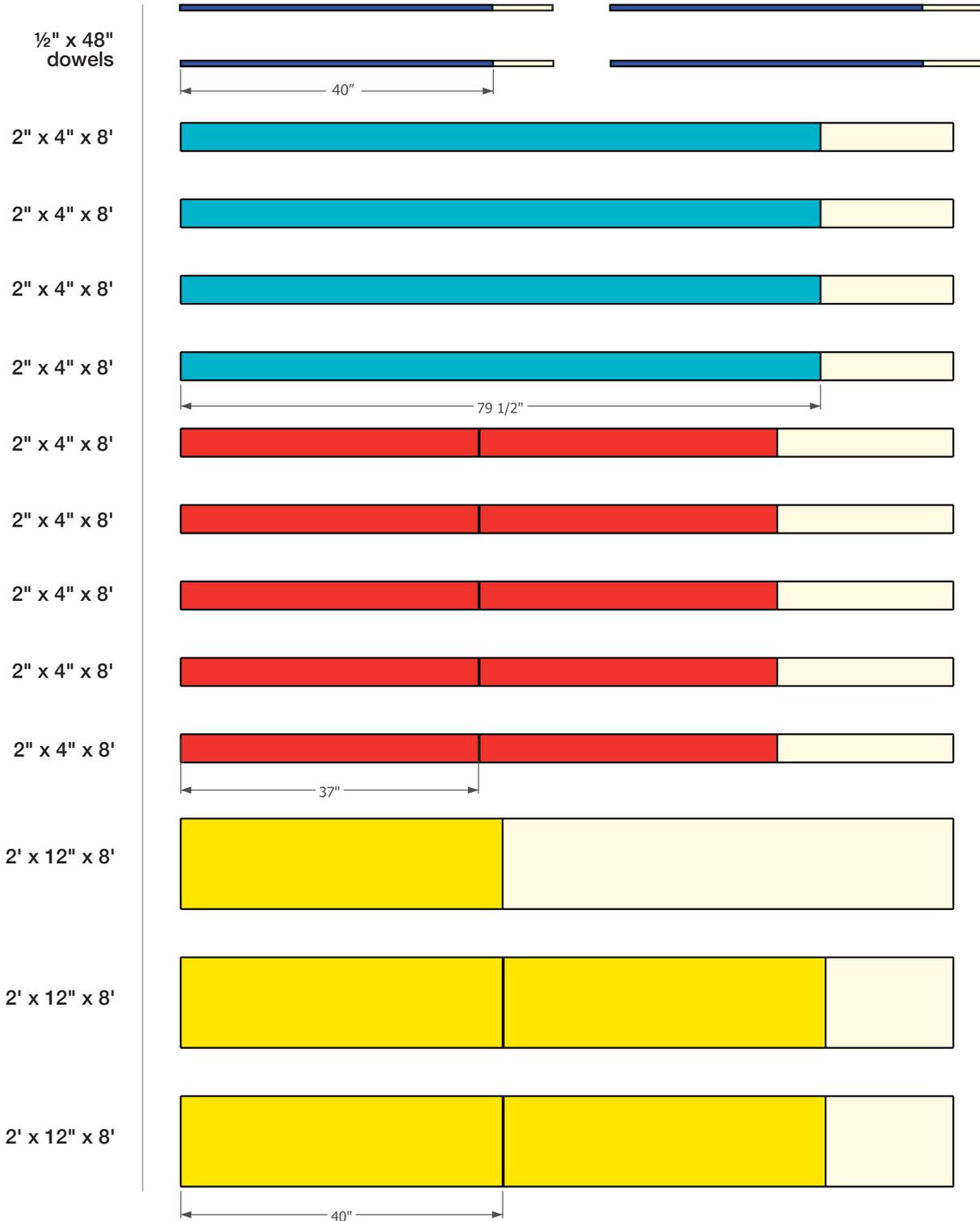
# Rustic Bookcase Tower

*T*his bookcase tower adds an industrial look to any room. With loads of storage space and built to hold it all, it even has 4" casters for easy mobility. You can easily finish this project in a day.



Make sure you read through the instructions carefully and take notice of any special construction notes prior to making any cuts. And always practice safe DIY'ing. Have fun!

### CUT LIST



## MATERIALS LIST

Material	Qty
2" X 12" X 8' pine board	3
2" x 4" x 8' pine board	9
1/2" x 48" dowels	4

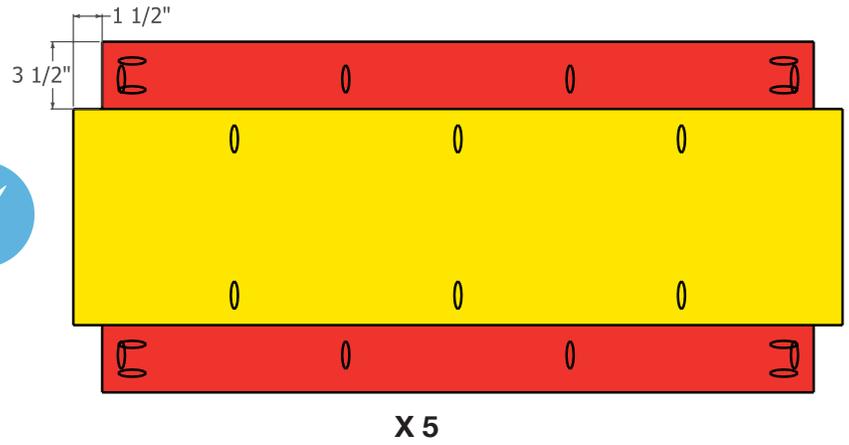
Material	Qty
2-1/2" pocket screws	
4" casters	4
5/16 x 1" lag screws	8
5/16 flat washers	8
4" flat corner brace	4
wood glue	
black spray paint (optional)	

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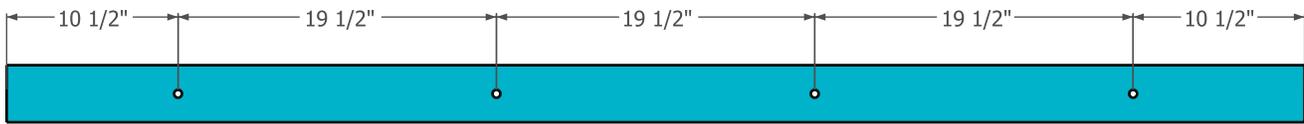
## NOTES



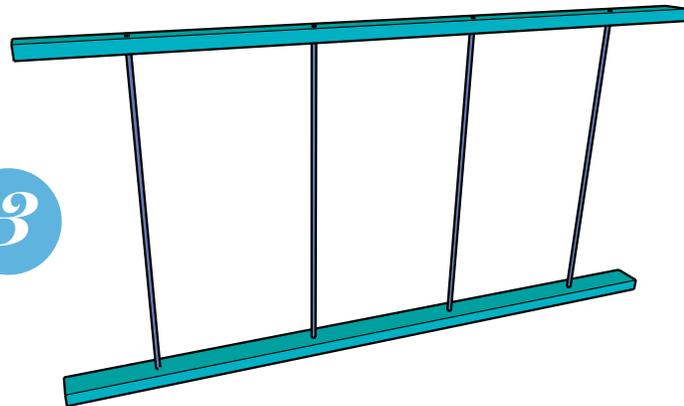
1



2



3



1.

After you have all the 2x4s and 2x12s cut to length you can assemble all the shelves. Line up 2-2x4s and 1-2x12 as shown in the illustration above. Drill for 2-1/2" pocket screws as shown, don't forget the ones on the ends of the 2x4s that will be used later to attach the shelves to the legs. Attach the boards with wood glue and pocket screws.

2.

Next you will drill holes for the decorative dowels. In order to have the holes for both back legs to line up you will clamp the legs together, making sure all edges are flush. Mark for holes using the illustration above.

Put a piece of tape on the outside of each 2x4 and mark one of the ends with a B for the bottom. You will use these for reference when assembling the tower to make sure you line up the holes correctly.

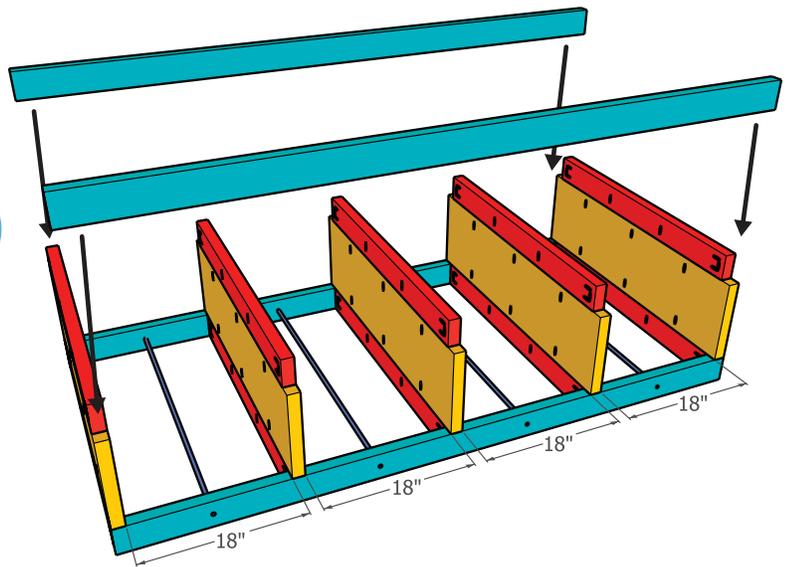
Drill the holes for the dowels with a 1/2" drill bit. Once you have drilled all the way through, and while the drill is still on, rock the drill in and out and back and forth SLIGHTLY. This will make your opening slightly larger and make pushing your dowels through easier.

3.

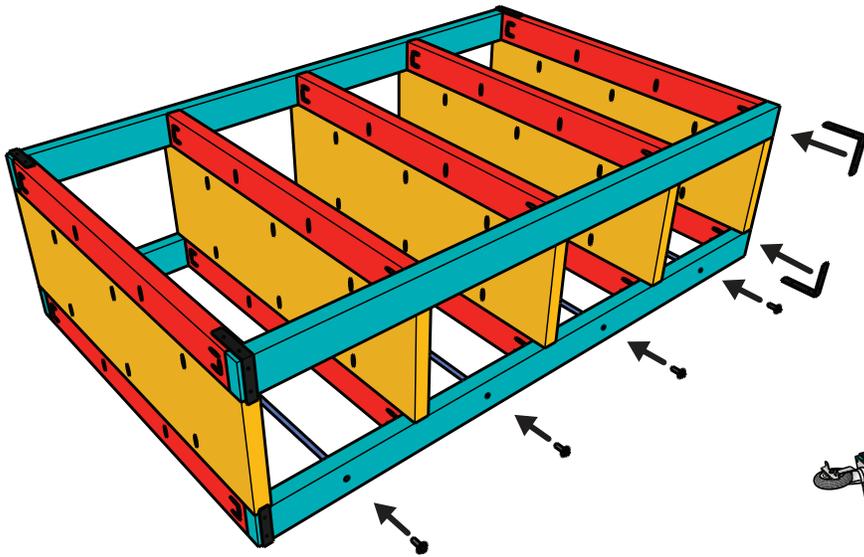
When assembling the back leg assembly lay one of your 2x4s on a flat surface with the side with the tape facing down and the B end to the left. Glue and push a dowel into each hole. Hold a scrap piece of wood over each dowel and gently hammer the dowel until it is flush with the other side of the 2x4. Now take your second 2x4 and with the tape side up and the B end to the left set it on top of the dowels. Put a dab of glue on each end and start the dowels with your hand until the top 2x4 is slightly snug. Then using the scrap wood and the hammer gently hit the 2x4 down onto the dowels until they are flush with the top side of the top 2x4. You will want to tap a few times at each dowel then move to the next. And keep going around to each a little at a time. Be patient, it may take a bit.



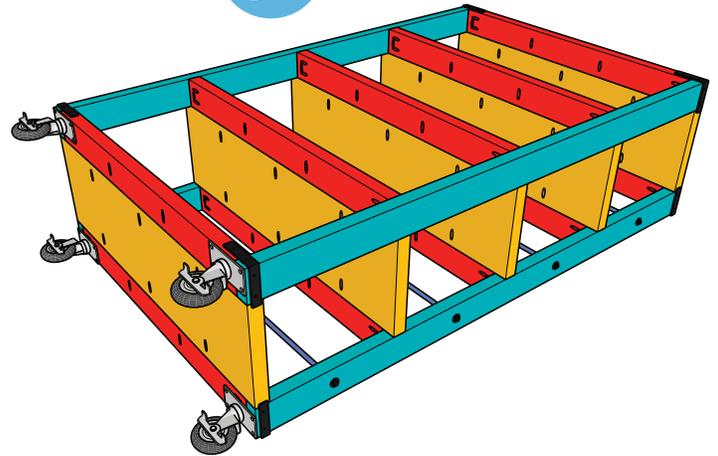
4



5



6



4.

Lay the back leg assembly on a flat surface to attach the shelves. Use the illustration above for shelf spacing. Orient all the shelves so that the pocket screws face downward. Using the pocket screw holes you drilled in Step 1, and making sure the outside edges are flush, attach the shelves with wood glue and 2-½" pocket screws.

Now lay the remaining legs in place and attach with wood glue and 2-½" pocket screws

5.

To give this bookcase an industrial feel, paint the corner braces, the lag screws and washers black and let dry thoroughly. Attach the corner braces at the top and bottom, centered on the shelf. For the lag screws, drill pilot holes into the end of where the dowels are with a drill bit slightly smaller than 5/16. These bolts are decorative so they don't need to grip into much wood at all. Screw a bolt with a washer into each end of the where the dowels are

6.

Finally attach your casters to the bottom.