

# How to Build a DIY Double X Bench



# Materials

- 4 2" x 4" x 8' boards
- 1 2" x 3" x 8' board
- 8 2 1/2" pocket hole screws
- 32 2 1/2" or 3" screws
- wood glue
- miter saw
- drill
- countersink bit

- sandpaper
- stain/paint
- vaseline optional
- paint brush

## Tools

- corner cat sander
- measuring tape
- Kreg pocket hole jig

# Cut List

- 4 1 1/2" x 3 1/2" x 15 1/2" with 15 deg miter cut on both ends (2x4)
- 1 1 1/2" x 3 1/2" x 27" (2x4)
- 4 1 1/2" x 3 1/2" x 42" (2x4)
- 1 1 1/2" x 3 1/2" x 34 1/2" (2x4)
- 2 1 1/2" x 3 1/2" x 13" (2x4)
- 2 1 1/2" x 2 1/2" x 9" (2x3)
- 4 1 1/2" x 2 1/2" x 16 1/4" with 45 deg miter cut on both ends (2x3)

Cut all of the pieces for the bench, see the cut diagram for visual reference.



# **Cut Diagram**



#### Step 1

Drill pocket holes for  $1 \frac{1}{2}$  material in both ends of the 34  $\frac{1}{2}$  and 27 boards.

Measure and mark the center of the 13" and 9" pieces, also mark the center of both ends of the 34 1/2" and 27" pieces. Using wood glue and 2 1/2" pocket hole screws, attach the center of the 9" pieces to the ends of the 34 1/2" piece. Repeat for the center of the 13" pieces and the 27" piece.





#### Step 2



Measure and mark 1/2" in from each 13" piece end. The legs will inset 1/2" in from each 13" piece end.

Use the countersink bit and pre-drill countersink holes for screws to attach the legs to the 13'' pieces. Use either 2 1/2'' or 3'' screws to attach the legs to the 13'' pieces. (Note: the legs won't fit perfectly onto the 13'' pieces; overhang the same amount on each leg.)





Turn the leg assembly upside down and mark 2" down on each leg end. Pre-drill countersink holes in the outsides of the legs. Attach the 9" pieces between the legs using 2 1/2" or 3" screws.



## Step 3

Measure and mark the center line for the length and width on the 34 1/2" piece. Mark 3/4" on both sides of the length center line mark. Repeat the same marks on the 27" piece.





Slide 2 of the 16 1/4" X pieces in between the top and bottom supports, trim the 16 1/4" pieces if necessary. Line up the ends of the X pieces with the 3/4" marks and the center line mark between them. Drill countersink holes in the 34 1/2" and 27" pieces, attach each X piece with a 2 1/2" or 3" screw.



Flip the bench over, slide the other  $2 - 16 \frac{1}{4}$ " X pieces in between the top and bottom supports, trim the  $16 \frac{1}{4}$ " pieces if necessary. Line up the ends of the X pieces with the 3/4" marks and the center line mark between them. Drill countersink holes in the  $34 \frac{1}{2}$ " and 27" pieces, attach each X piece with a  $2 \frac{1}{2}$ " or 3" screw.





#### Step 4

Measure over about 6" from the 42" board ends, pre-drill countersink holes to attach the top pieces to the base.

|       | - | -6" | •       | /- Top boards     |                            | - | -6"         |
|-------|---|-----|---------|-------------------|----------------------------|---|-------------|
| 2x4 — |   |     | 0       |                   |                            | 0 | 314         |
|       |   |     | O Drill | countersink holes |                            | ٩ |             |
|       |   |     | 0       |                   | Drill countersink holes —/ | 0 |             |
|       |   |     | 0       |                   |                            | 0 | A Tool Belt |
| I.    | - |     |         |                   | 42"                        |   |             |

The top will overhang 1/2" from the 13" pieces on the side and about 4" from the ends. Attach the top boards to the base with 2 1/2" screws.

