

Challenger 44 Playset

ASSEMBLY MANUAL



Thank you for your Patiova Playset Purchase.

We are excited for the great times and memories you will share while enjoying your new Patiova playset.

Let's get started on the assembly!!

This manual is designed to simplify the assembly process with step-by-step instructions and pictures to help along the way.

We recommend you have carpenter experience or hire a carpenter to assemble your playset to ensure safety when complete.

We are confident that you will be happy with the ease of the assembly process.

Tools Required

- Hammer or Rubber Mallet
- Wrench & Socket Set
- Drill and Drill Bits
- Impact Driver
- Tape Measure
- Step Ladder
- Level

Tools Included

- #2 Square Drive Bit
- T30 Star Drive Bit
- $\frac{5}{32}$ Hex Drive Bit

Parts List

Tower	
Type	Quantity
108" 4x4 Post	4
48" 2x8	2
45 3/16" 2x8	2
48" 2x6	2
45 3/16" 2x6	2
48" 2x4	2
45 3/16" 2x4	4
45 1/4" 2x4 Floor Joists	2
59" 2x4	2
2x4 Braces	4
2x6 Braces	4
4x4 Braces	8
Floorboards	8
Poly Slats	

Swing Frame	
2x6 Swing Beam	1
4x4 Legs	2
2x6 Brace	1
2x4 Brace	1
Support Brackets	2

Tarp Roof	
33" 2x4	2
48" 2x4	1
Half Moon Pieces	2
Tarp Roof	1

Wood Roof	
Roof Side Panels	2
Sunburst Piece	2

Lemonade Stand	
45 1/4" 2x4 Floor Joists	2
Floorboards	8
45 3/16" 1x6's	8
47 1/4" 1x6's	4
21 3/4" 1x6's	4
22 1/2" 2x4	1
14" 2x4	1
38 1/2" 2x4	3
Top Trim Pieces	3
Shelf 1x6's	2
Shelf 2x4 Supports	2
Shelf 2x4 Braces	2

Hardware



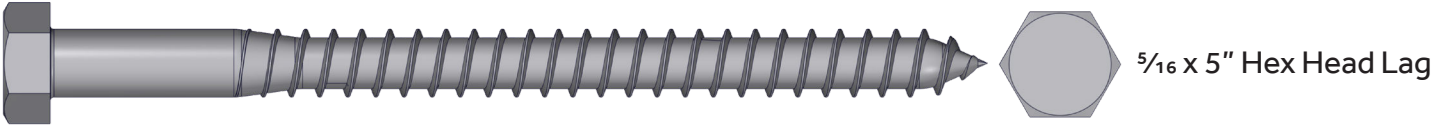
5/16 x 6" Bolt



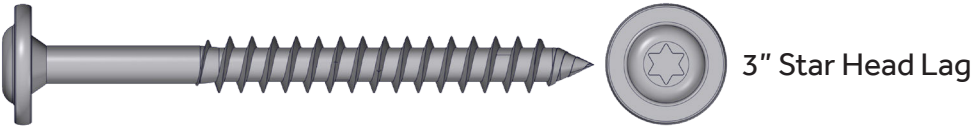
5/16 x 4 1/2" Bolt



5/16 x 4" Bolt



5/16 x 5" Hex Head Lag



3" Star Head Lag



3" Wood Screw



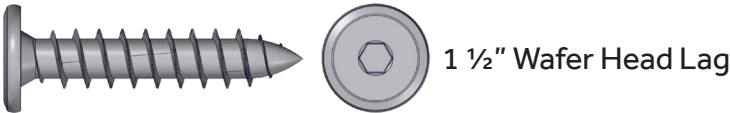
2 1/2" Wood Screw



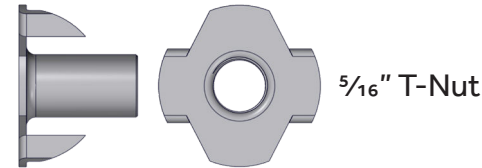
1 3/4" Washer Head Screw



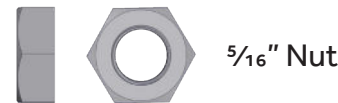
1 1/2" Poly Screw



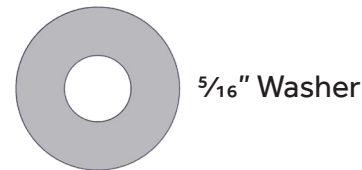
1 1/2" Wafer Head Lag



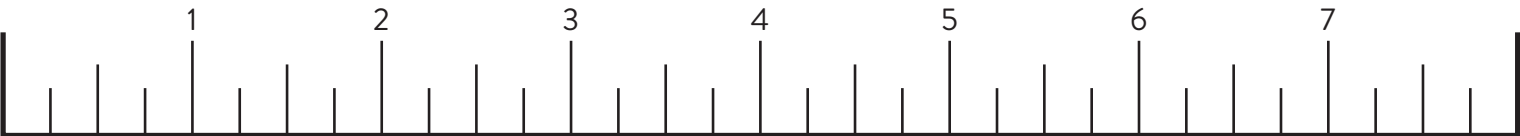
5/16" T-Nut

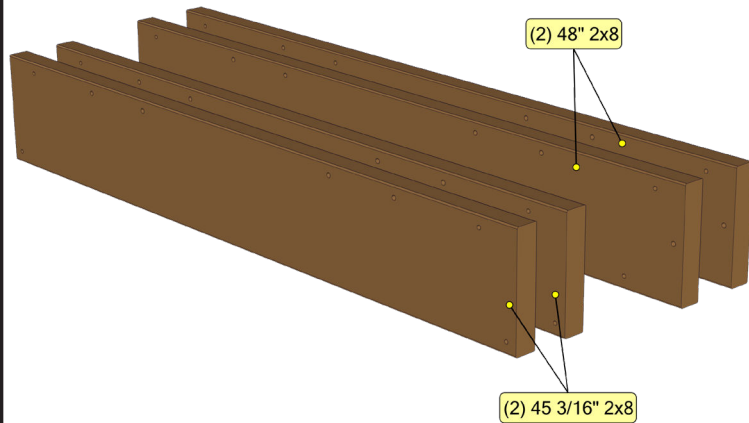


5/16" Nut



5/16" Washer



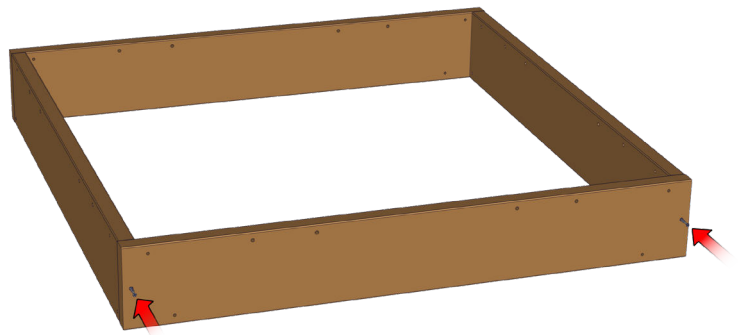


Step 1.

Begin the assembly by locating two 48\" 2x8's and two 45 3/16\" 2x8's.

These will be pre-drilled for the bottom of the tower.

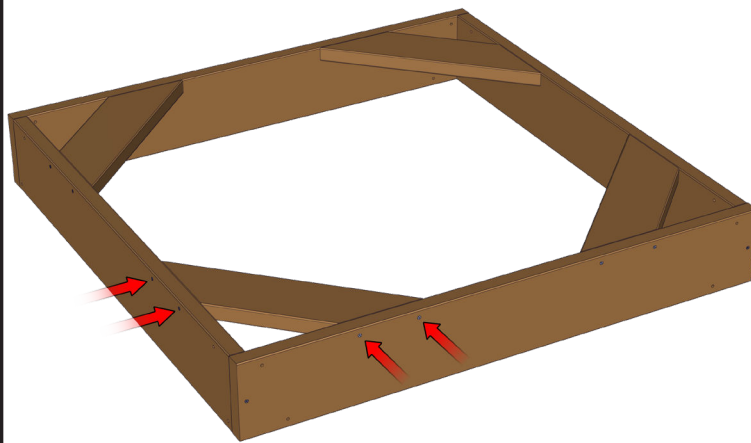
Note: If your playset has a Lemonade Stand, these will be 2x4's instead of 2x8's.



Step 2.

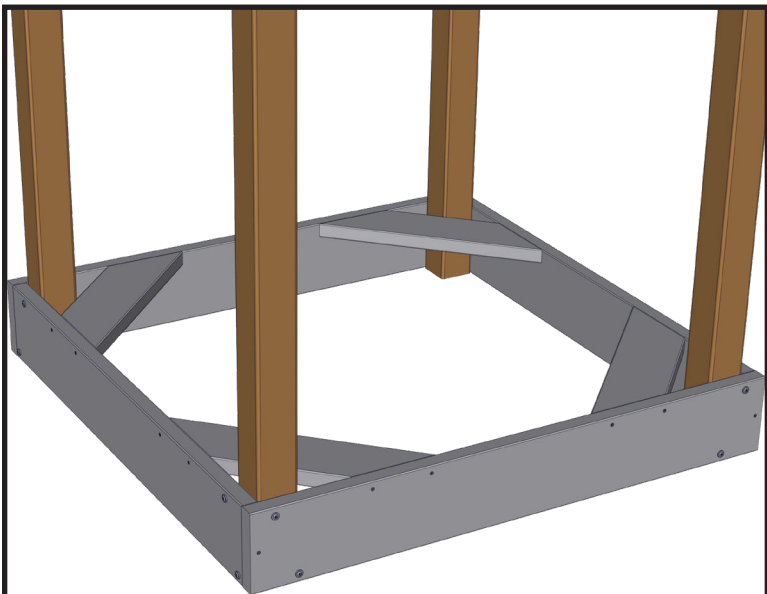
Place the 2x8's in a square with the 45 3/16\" 2x8's on the inside and the 48\" 2x8's on the outside.

Fasten the 2x8's together using four 3\" wood screws through the 48\" 2x8's.



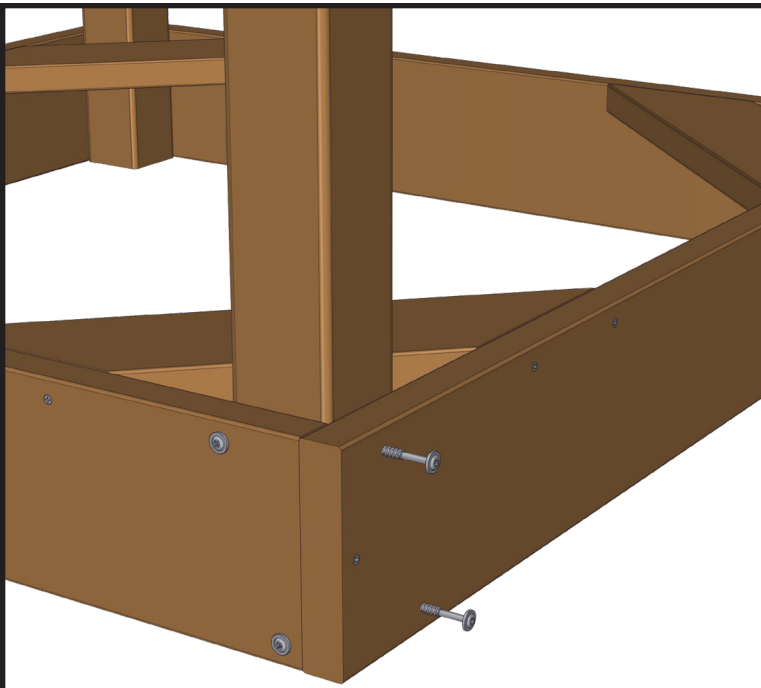
Step 3.

Locate four 2x6 braces and place one at each corner. Fasten these with four 2 1/2\" wood screws per brace.

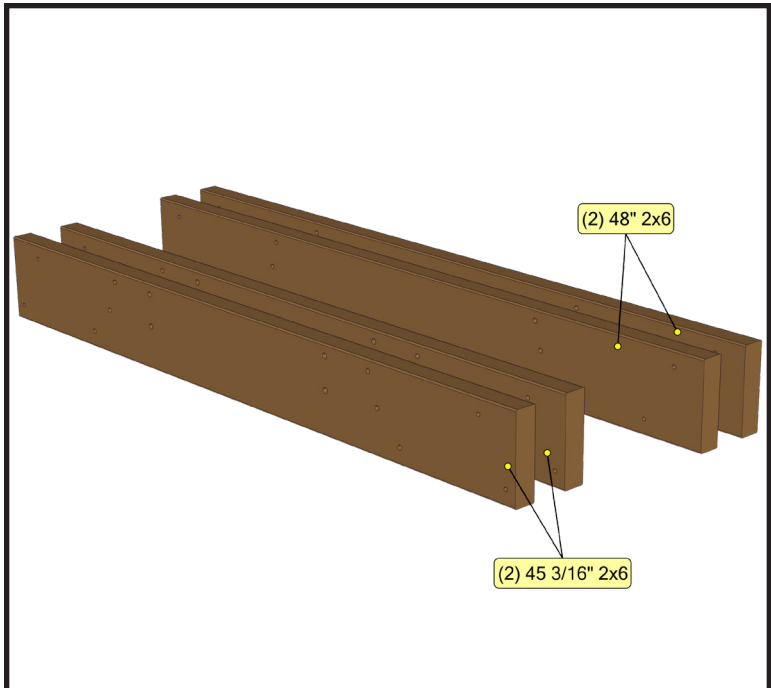


Step 4.

Place a 4x4 post in each corner as shown in the illustration.



Step 5.
Fasten the 4x4 posts using four 3" star head lags for each post.



Step 6.
Locate these 2x6's for the floor of the tower.



Step 7.
Place the 43 7/16" 2x6's on the tower making sure they are on the same side as the ones below.

Place the included deck spacers between the 2x6's and 2x8's to position them then fasten the 2x6's with 3" star head lags.



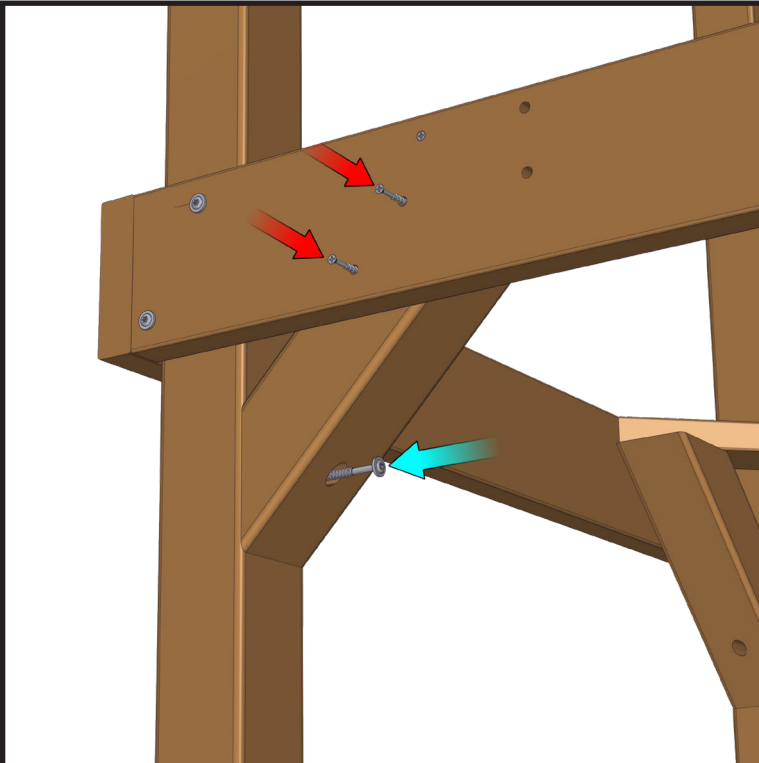
Step 8.
Place the two 48" 2x6's on either side and fasten them using the same lags.



Step 9.
Place a 2x4 corner brace in each corner and fasten them with 3" wood screws.



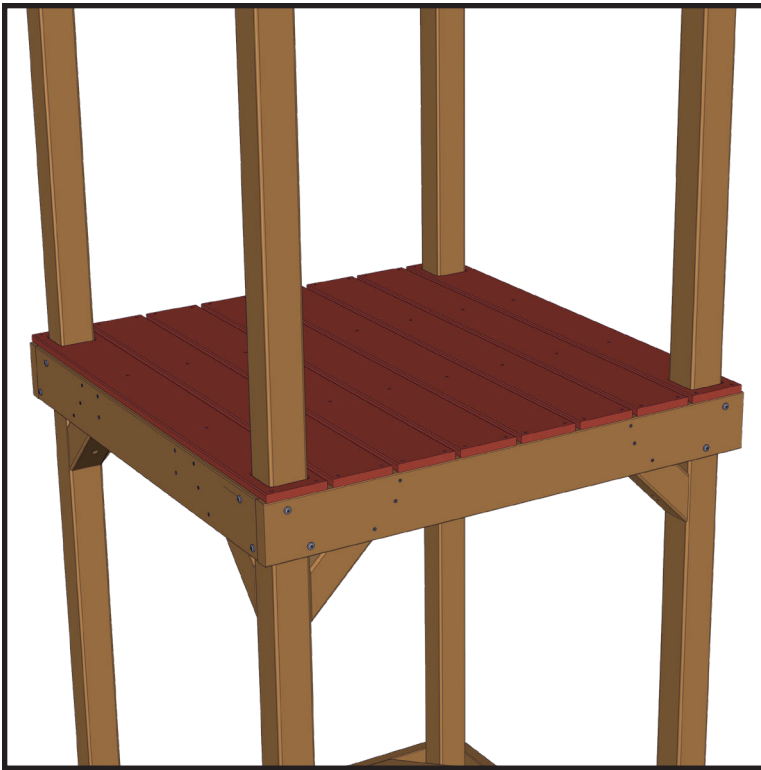
Step 10.
Locate the 4x4 corner braces and place two in each corner. Keep them up against the 2x4 corner brace with the pre-drilled holes facing down.



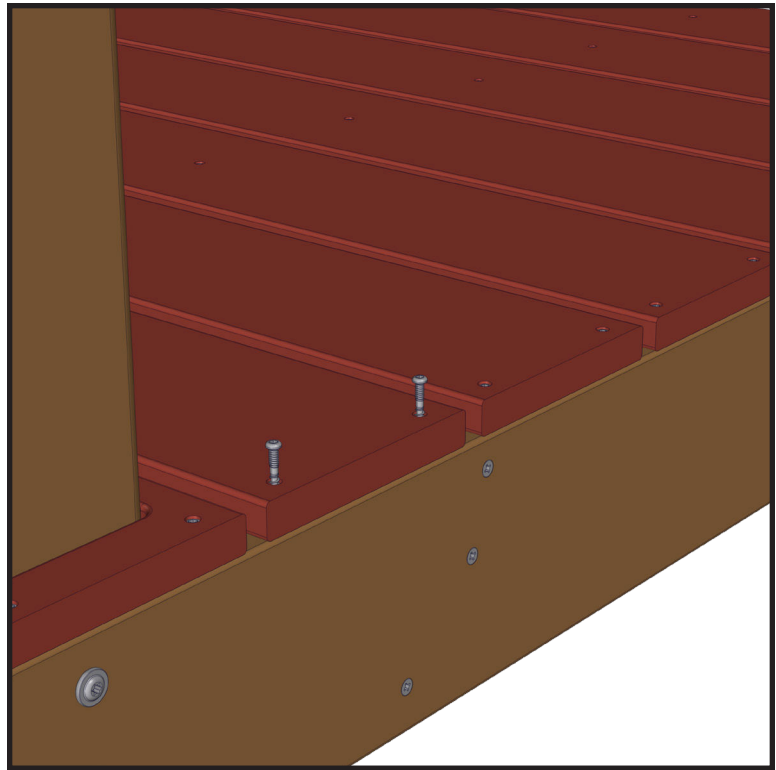
Step 11.
Fasten the 4x4 corner braces using **two 3" wood screws** through the 2x6 and **one 3" star head lag** through the pre-drilled hole.



Step 12.
Place two 45 1/4" 2x4 floor joists in position and fasten them with 3" wood screws through the pre-drilled holes.



Step 13.
Place the floorboards in position over the 4x4 posts then space them out properly.



Step 14.
Fasten the floorboards using 1 1/2" poly screws through the pre-drilled holes.

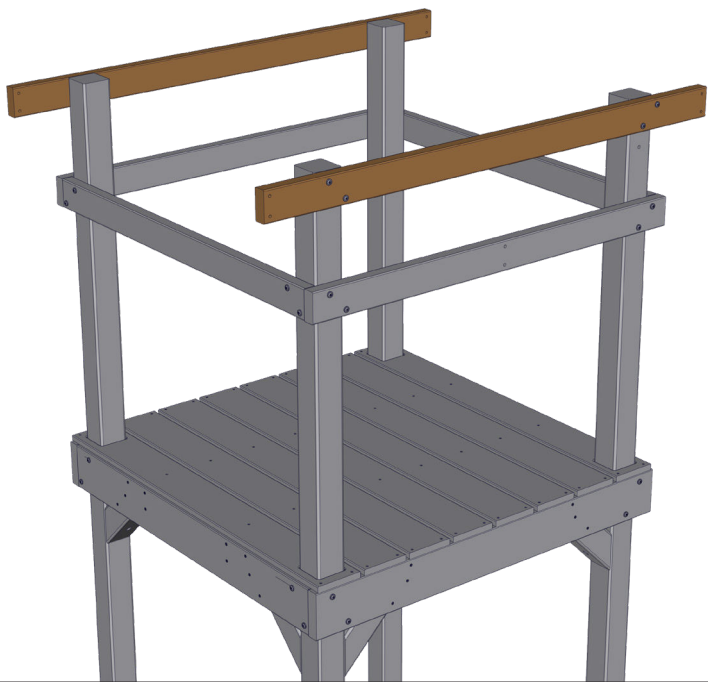


Step 15.
Locate the railing 2x4's then place the two 45 3/16" 2x4's in place as shown.

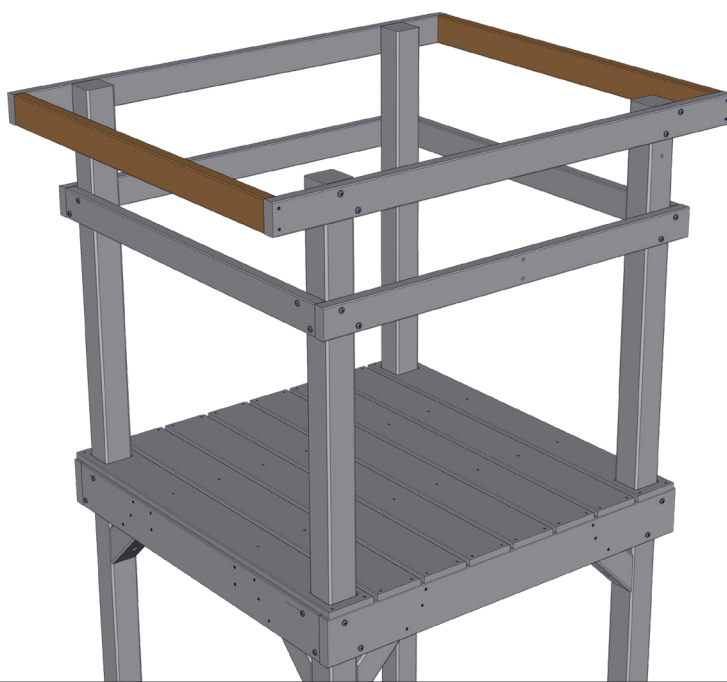
Place the railing spacers between the floorboards and the 2x4's then fasten the 2x4's with 3" star head lags.



Step 16.
Place the two 48" 2x4's on either side and fasten them using the same lags.



Step 17.
Place two 59" 2x4's on either side of the tower, keep these up flush with the ends of the 4x4's then fasten them with 3" star head lags.



Step 18.
Place a 45 $\frac{3}{16}$ " 2x4 inside each end of the 59" 2x4's then fasten them with 3" wood screws.



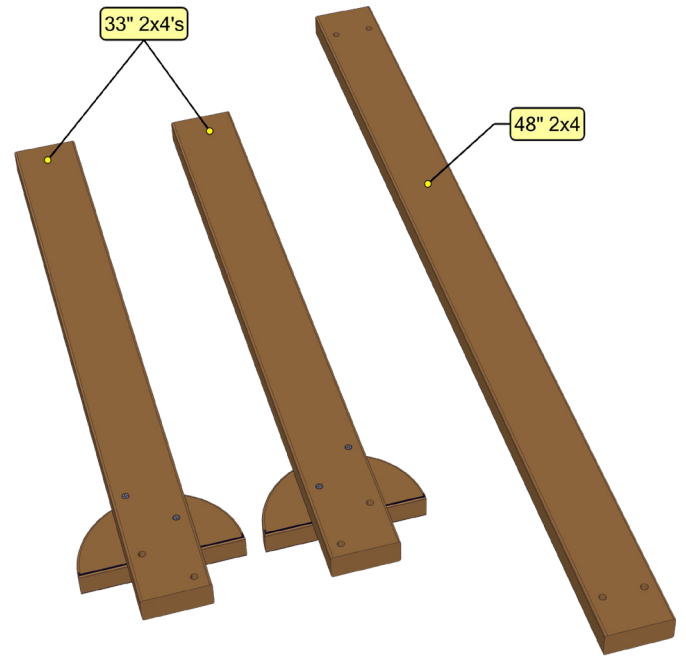
Step 19.
Locate the poly slats and place them in position on the tower. Use the included slat spacer to position them and fasten them with 1 $\frac{3}{4}$ " washer head screws.

Note: If your playset has wood slats instead poly, fasten them with 1 $\frac{1}{2}$ " wood screws.



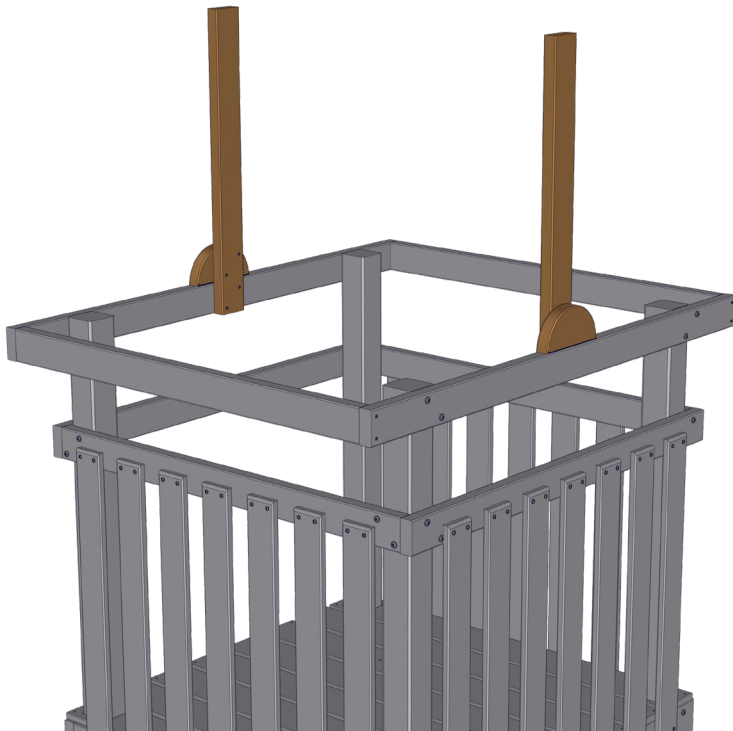
Step 20.
Fill in the other sides with the poly slats. One side will be left open for the accessories.

Tarp Roof



Step 1.

Locate these pieces to begin the tarp roof assembly.



Step 2.

Place the two 33" 2x4's on either side of the tower with the half moon pieces facing out then fasten them with 2 ½" wood screws.



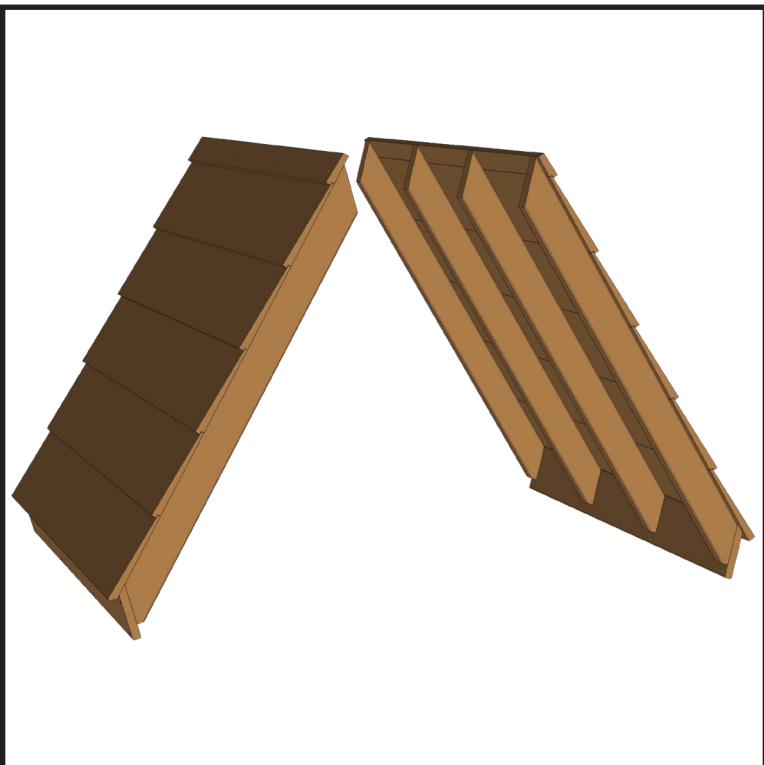
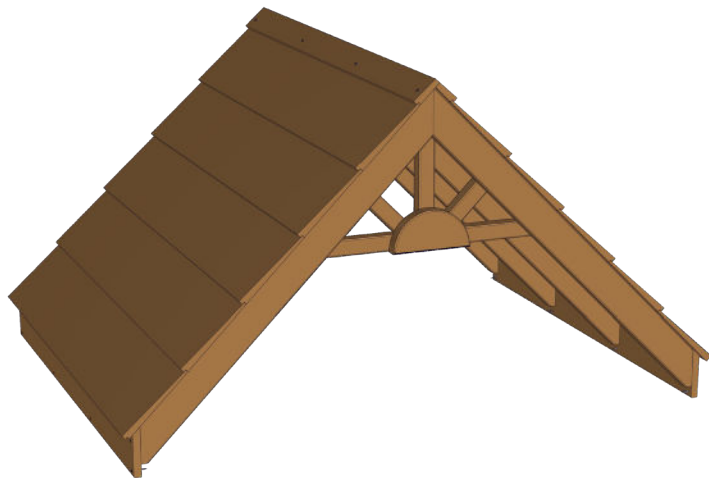
Step 3.

Place the 48" 2x4 on top of the 33" 2x4's and fasten it with 3" wood screws.

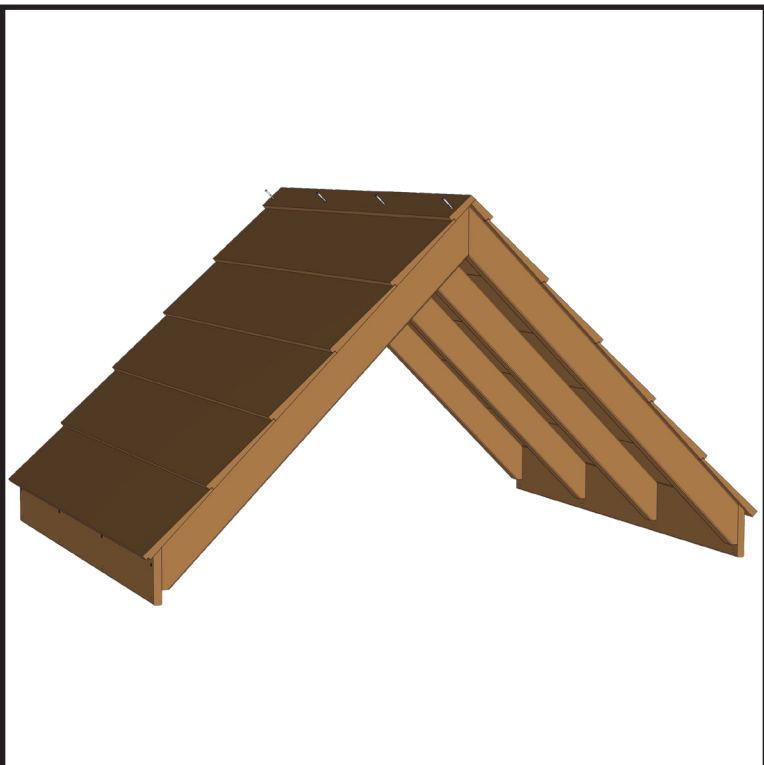


Step 4.
Place the tarp roof over the roof frame then stretch it out and fasten it with 1 ¾" washer head screws.

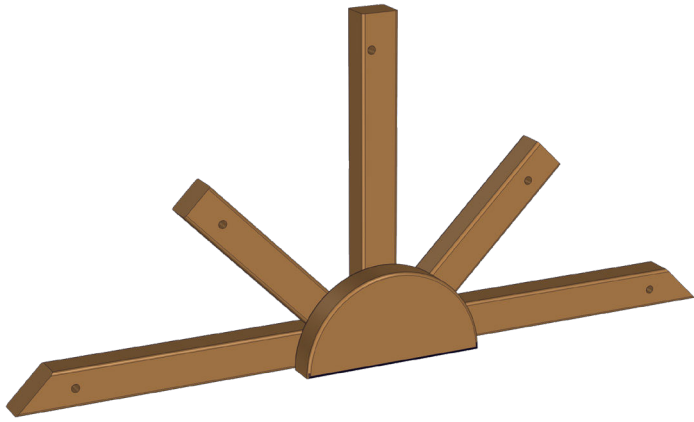
Wood Roof



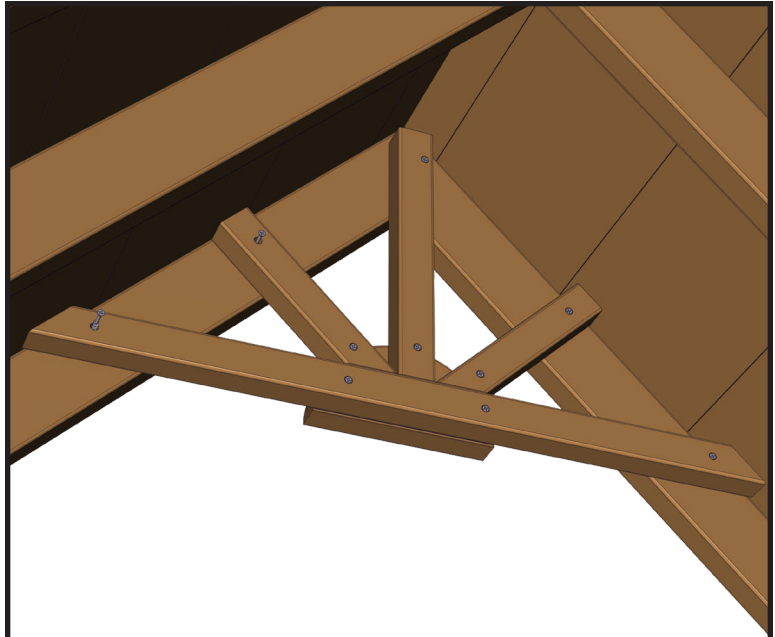
Step 1.
Locate the two side panels.



Step 2.
Place the panels together then fasten the tops together using 3" wood screws.



Step 3.
Locate the sunburst pieces.



Step 4.
Place the sunburst pieces on the inside of the wood roof and fasten them with 2 1/2" wood screws.

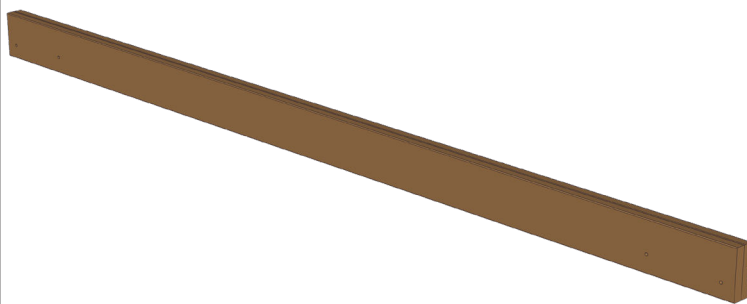


Step 5.
Place the wood roof on the tower as shown then fasten both sides with 1 1/2" wood screws.



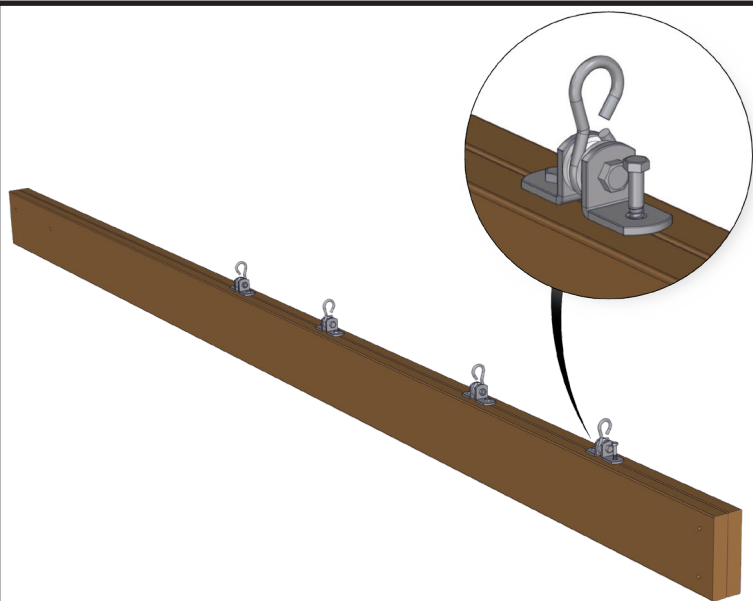
Completed Wood Roof

Swing Frame



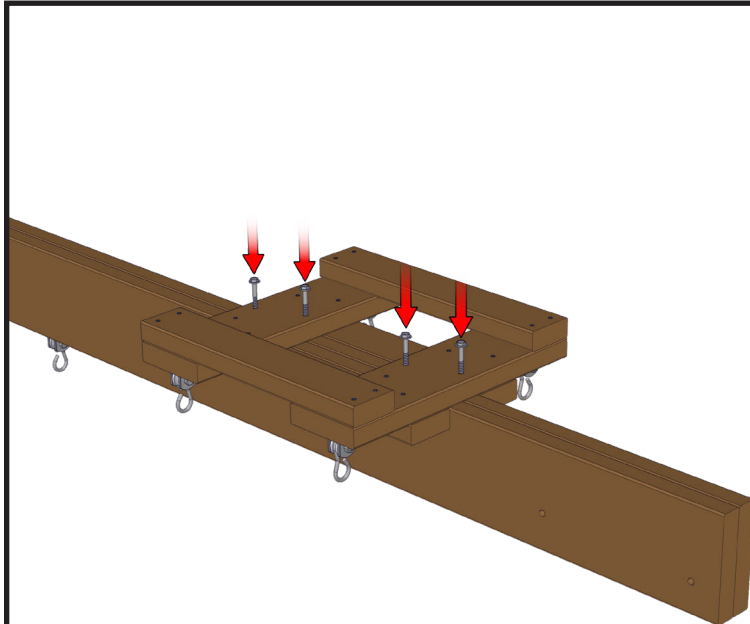
Step 1.

Locate the swing beam and place it on the ground with the pre-drilled bearing holes facing up.



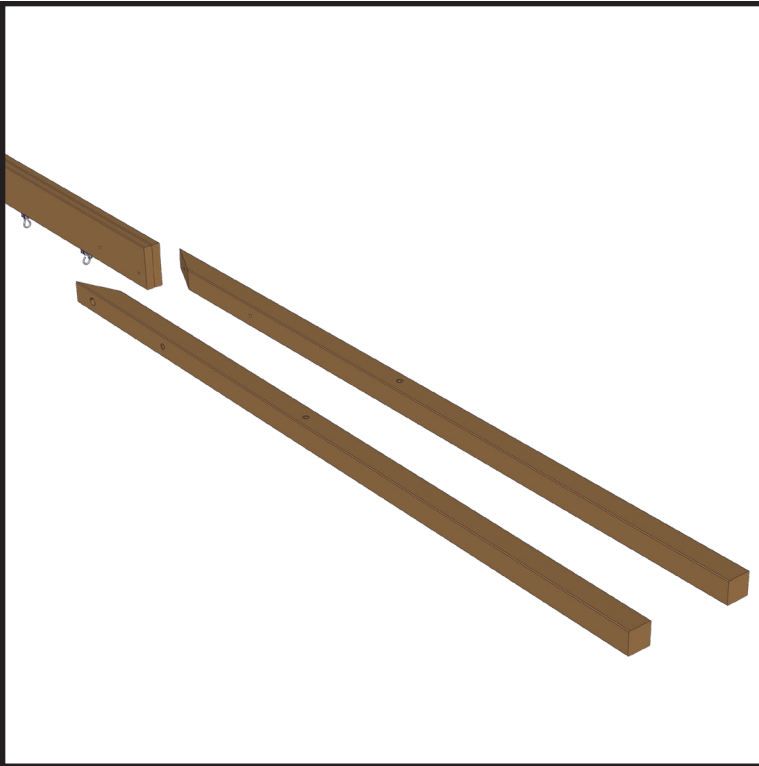
Step 2.

Fasten the swing bearings to the swing beam with the included lags in the pre-drilled holes.

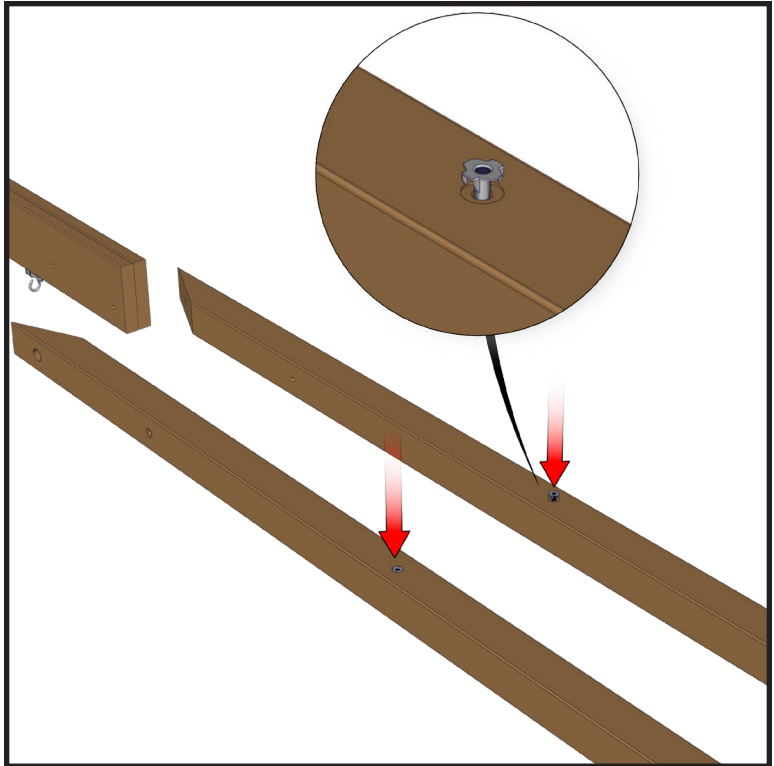


Step 3.

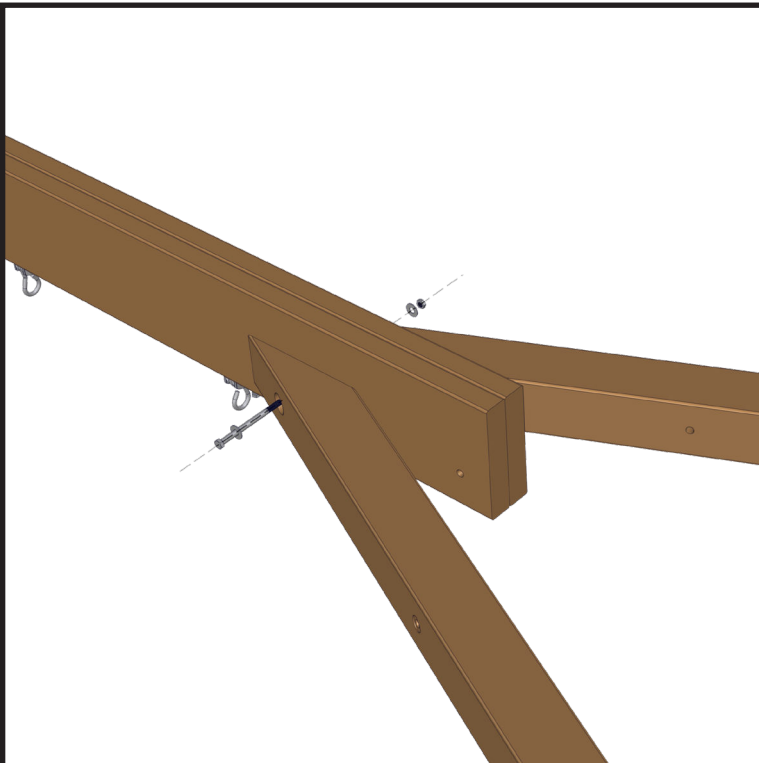
If your playset has a glider, place the glider bracket on the swing beam and fasten it with four washer head lags.



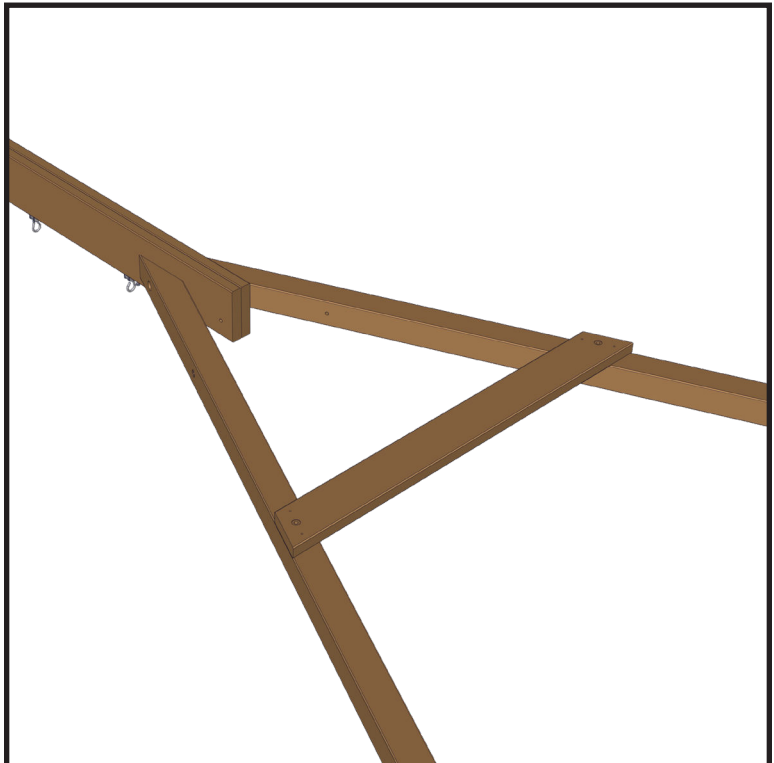
Step 4.
Place two 4x4 posts at the end of the swing beam.



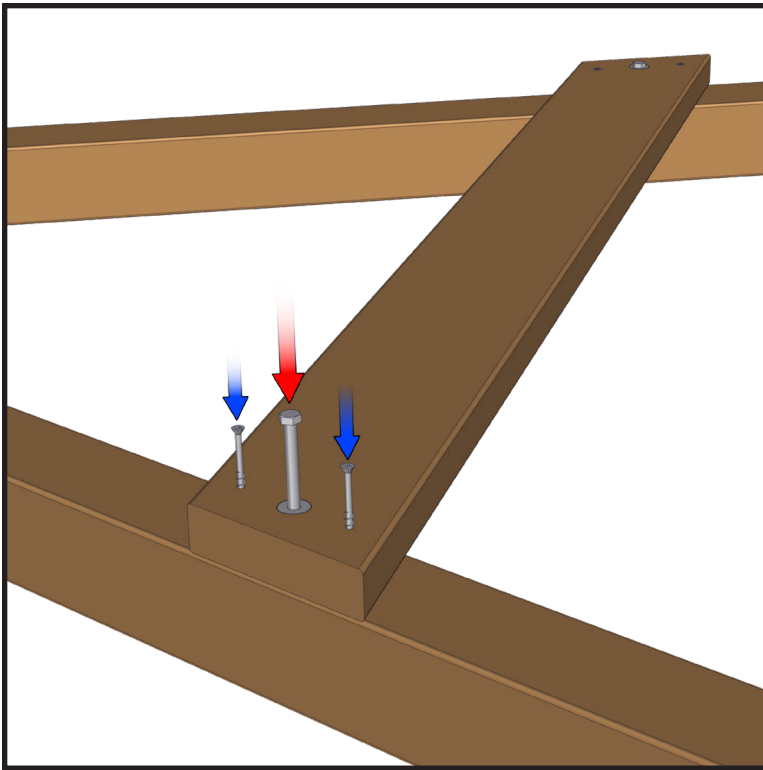
Step 5.
Place a T-Nut in each pre-drilled hole on the 4x4 posts.
Use a hammer to set them in the wood.



Step 6.
Flip the posts over so the T-Nuts are on the bottom then line them up with the pre-drilled holes in the swing beam.
Fasten the 4x4's to the swing beam using a 6" bolt, washers and a nut.
Do not tighten this bolt yet.

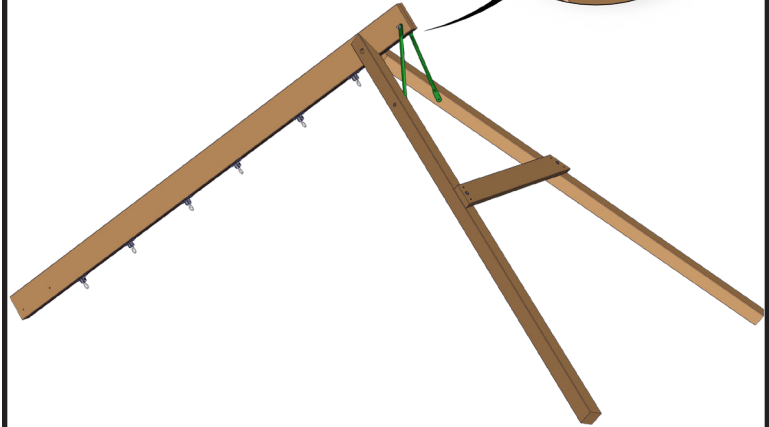
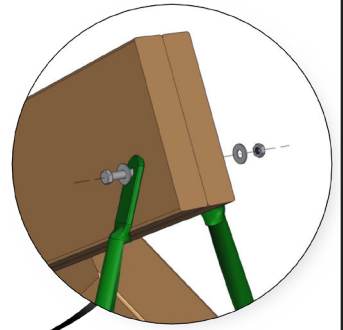
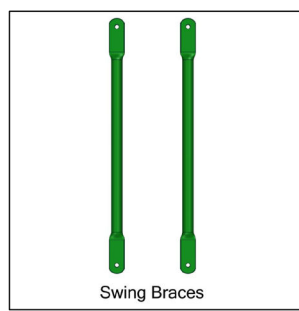


Step 7.
Place the 2x6 end piece on the posts.
Position the 2x6 so the pre-drilled holes on the posts and the 2x6 line up.



Step 8.

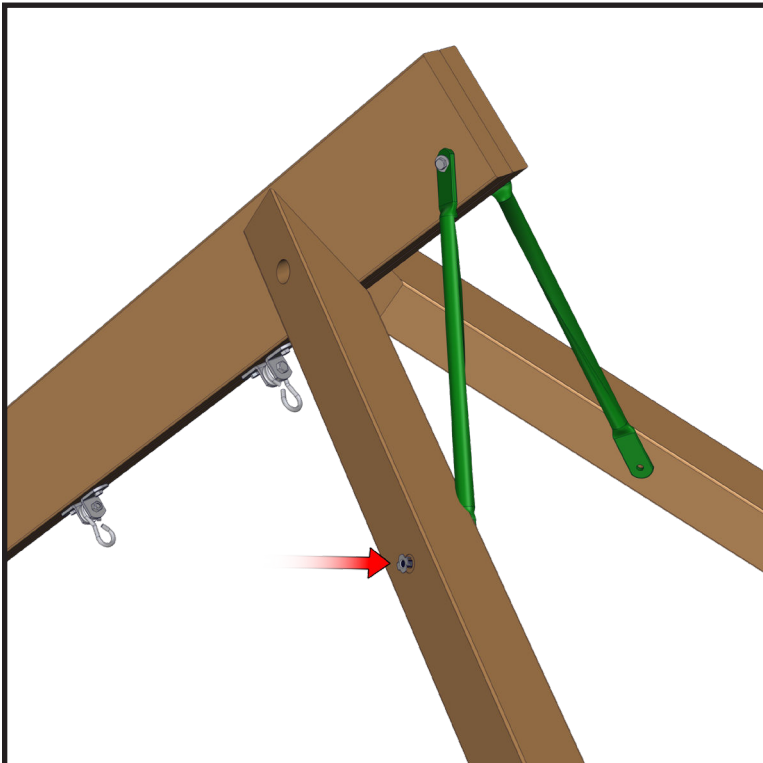
Fasten the 2x6 to the posts using a **4 ½" bolt and washer**. Thread the bolt into the T-Nut below then use a ½" wrench or socket to tighten it. Finish fastening the 2x6 with a **3" wood screw** on either side of the bolt.



Step 9.

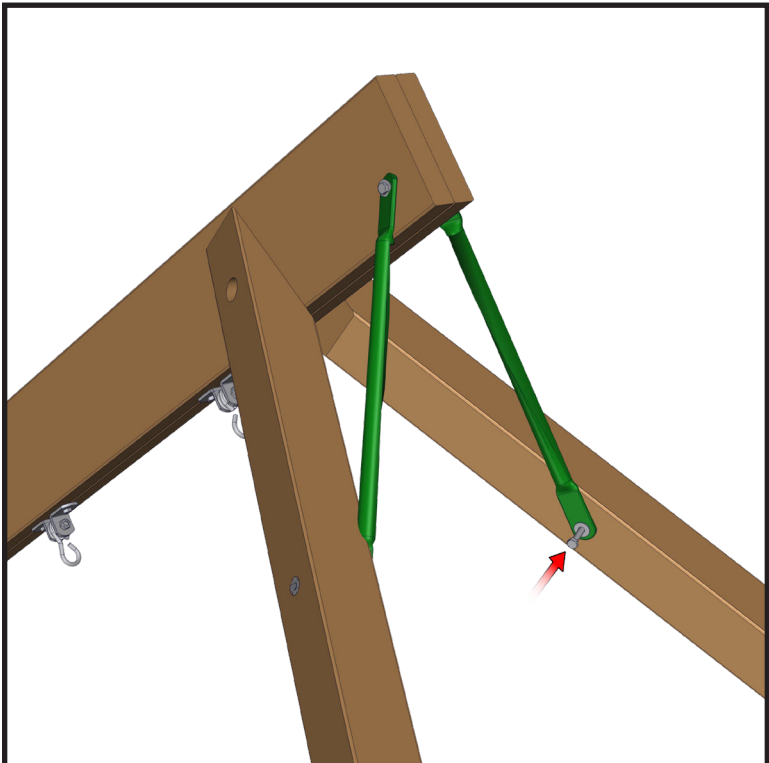
Raise the end of the swing frame up and move the 4x4 legs down into place.

Then place two swing braces on the end of the swing beam. Fasten the swing braces using a 4" bolt, washer and a nut.



Step 10.

Place a T-Nut in the pre-drilled hole on the outside of each 4x4 post then use a hammer to set them into the wood.

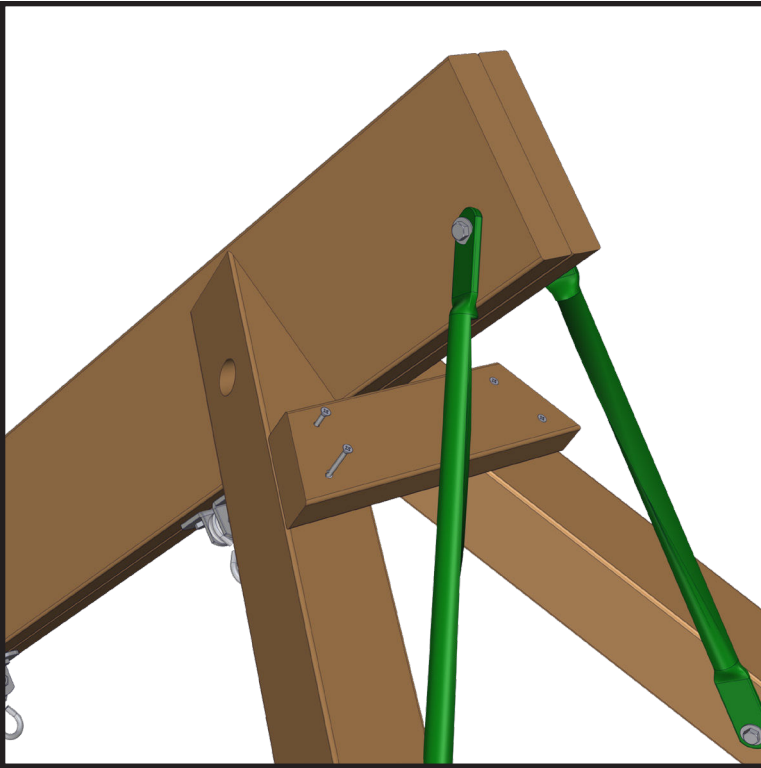


Step 11.

Fasten the swing braces to the 4x4 posts using a 3 ½" bolt and washer in the pre-drilled holes.

The swing braces will need to be bent slightly using a rubber mallet.

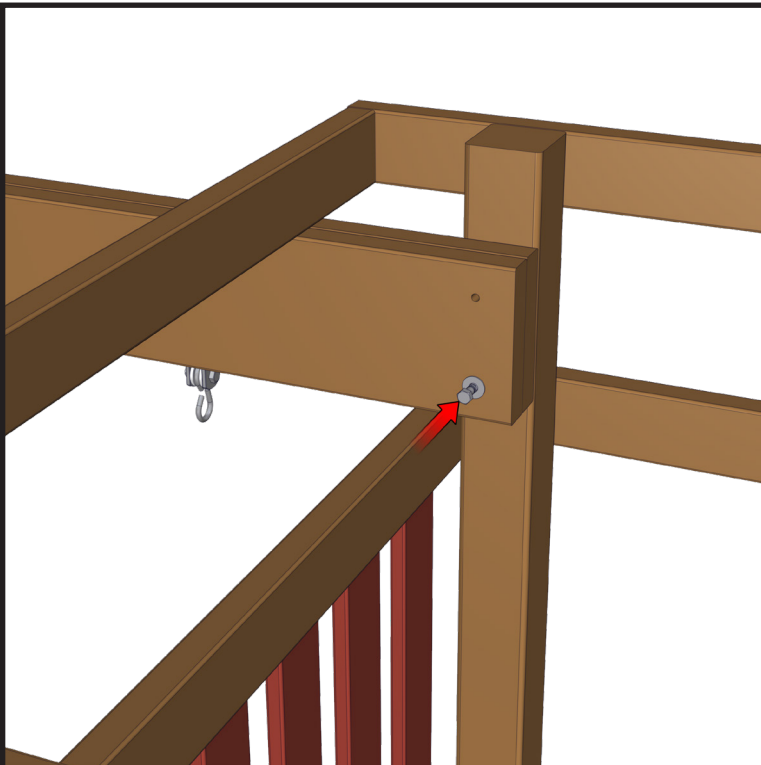
After this step tighten all the bolts on the swing frame.



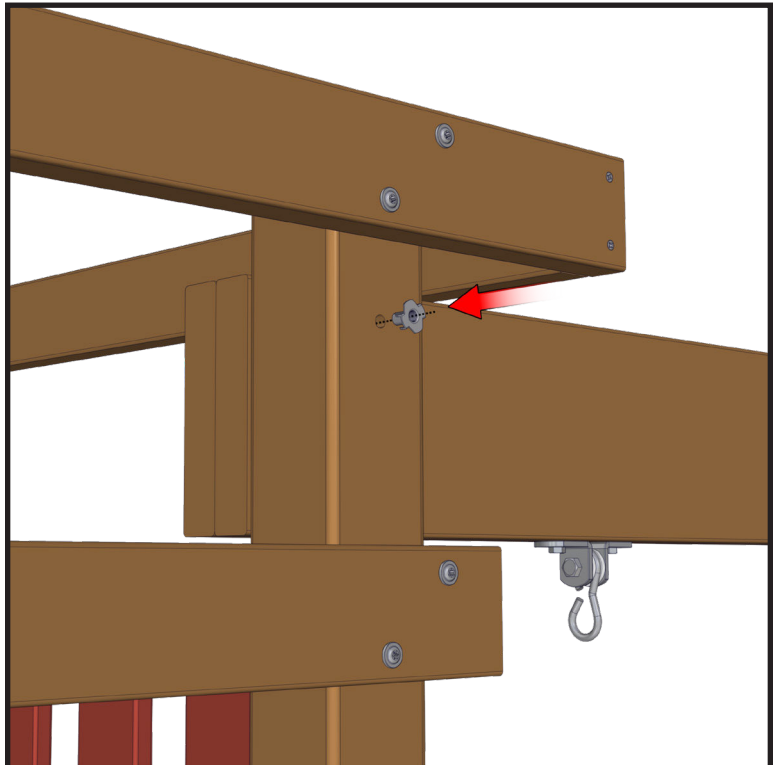
Step 12.
Place the 2x4 end piece on the 4x4 posts and line it up with the posts.
Fasten it with 3" wood screws.



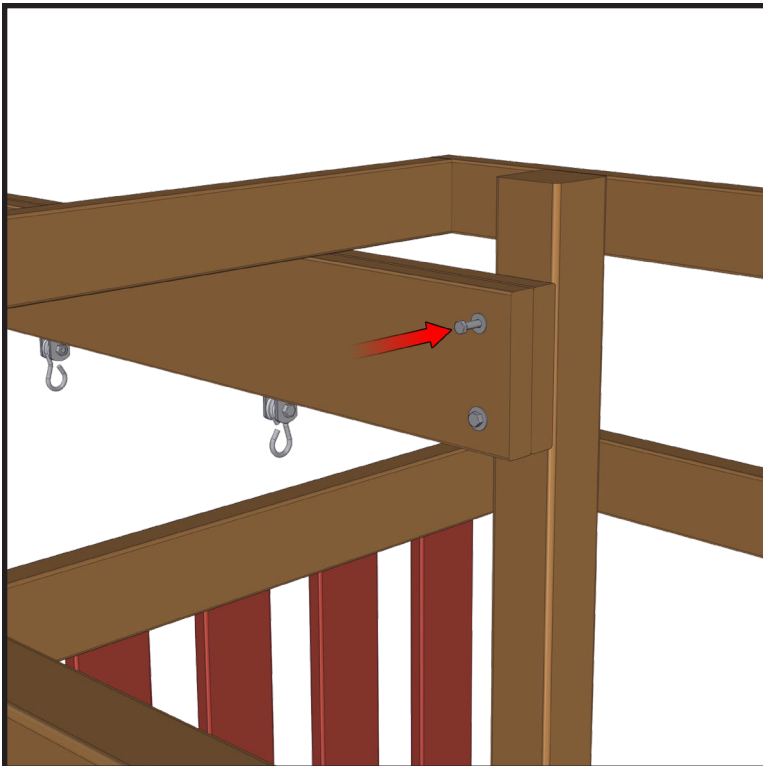
Step 13.
Lift the swing frame up and place it on the tower next to one of the 4x4 posts.



Step 14.
Fasten the swing beam to the 4x4 post using a hex head lag and washer through the pre-drilled hole in the swing beam.



Step 15.
Drill a hole through the 4x4 post and swing beam using a $\frac{7}{16}$ " drill bit.
Place a T-Nut in the hole and set it with a hammer.



Step 16.
Fasten the swing beam to the post using a 6" bolt and washer through the hole.



Step 17.
Attach the rest of the swings to the swing bearings to finish the swing frame.

Accessories



Support 2x4
Place a 2x4 support on the front of the tower and fasten it with 3" wood screws.
Leave a 19 1/4" space between the 2x4 and one of the 4x4's.



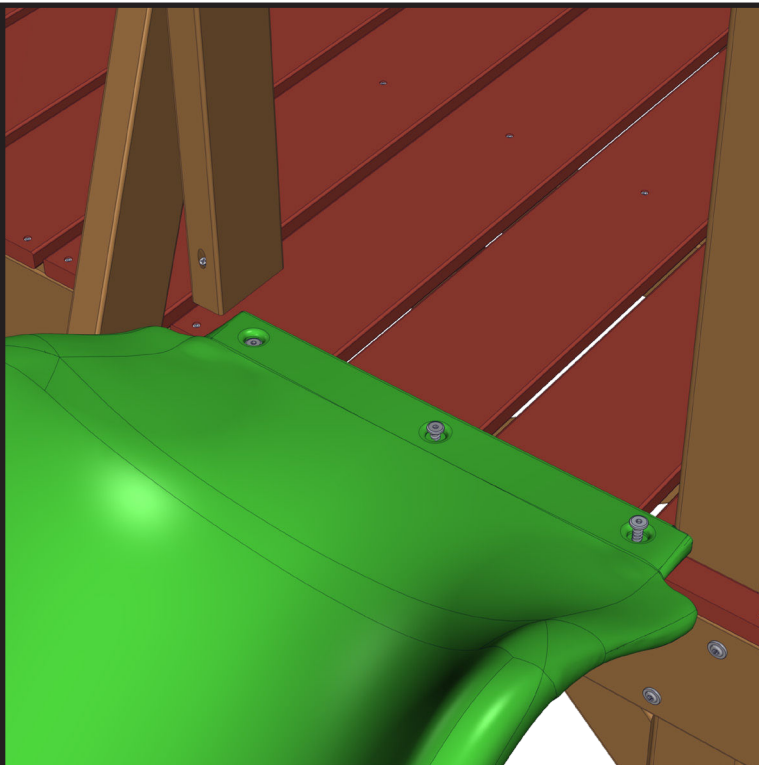
Wood Ladder

Place the wood ladder in the space between the support 2x4 and the 4x4.
Fasten it with 3" wood screws.



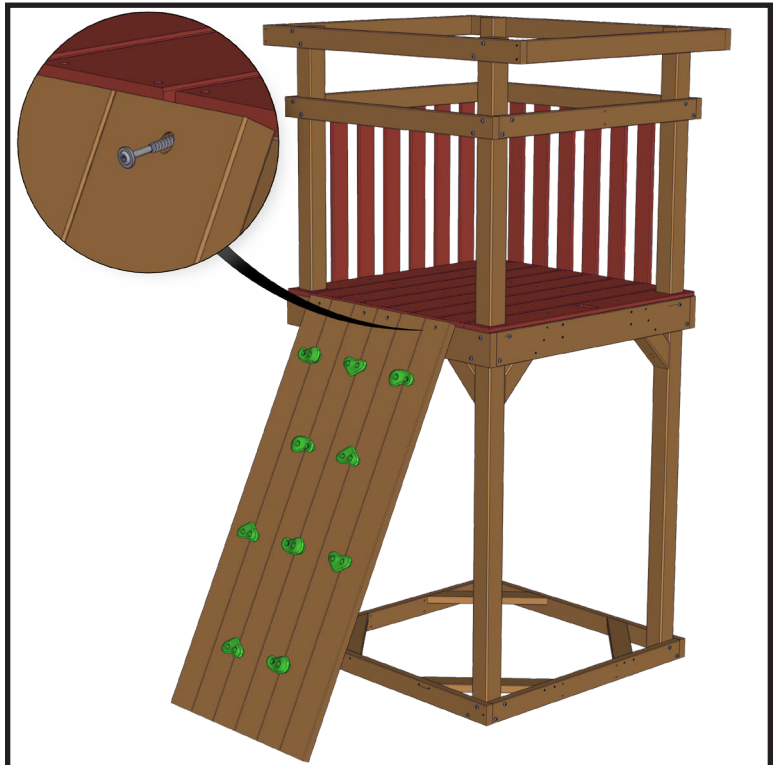
Wave Slide

Place the slide in the empty spot on the tower and center it.



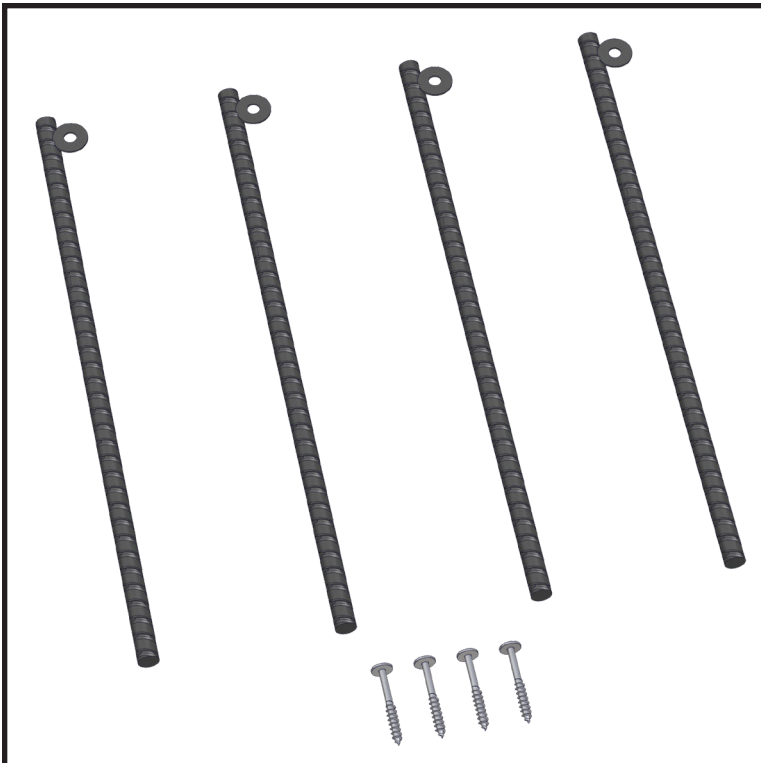
Wave Slide

Fasten the slide with 1 1/2" star head lags.



Rock Wall

Center the rock wall on the tower and fasten it with 3" star head lags.



Playset Stakes

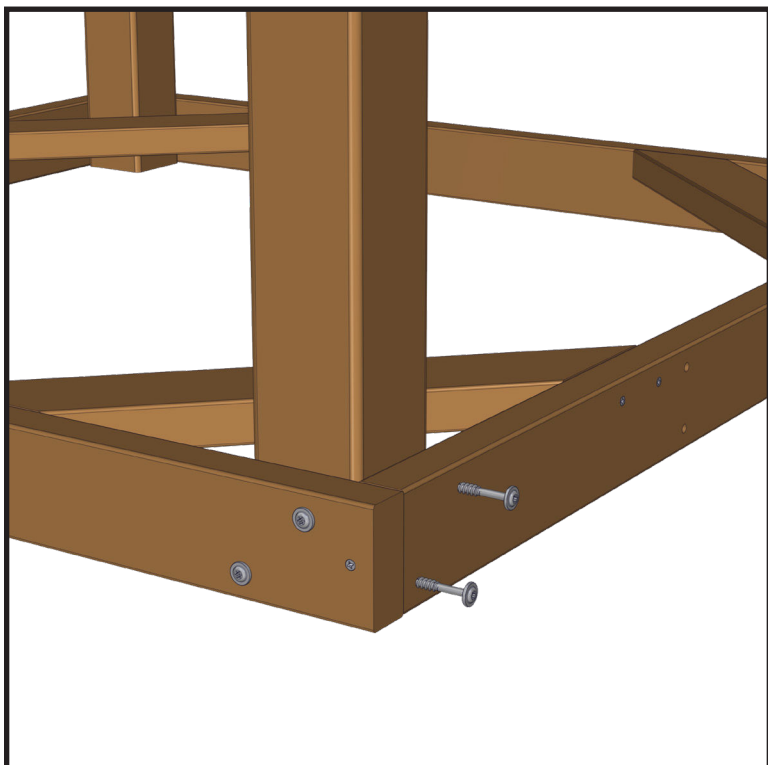
The playset comes with a bundle of stakes and hardware



Playset Stakes

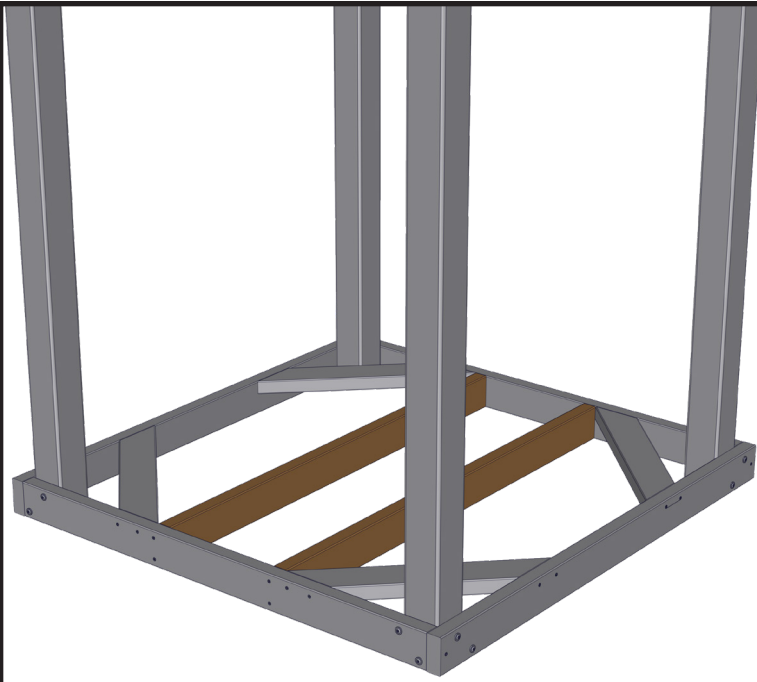
Drive the stakes into the ground at each corner of the playset and fasten them with the included lags.

Lemonade Stand



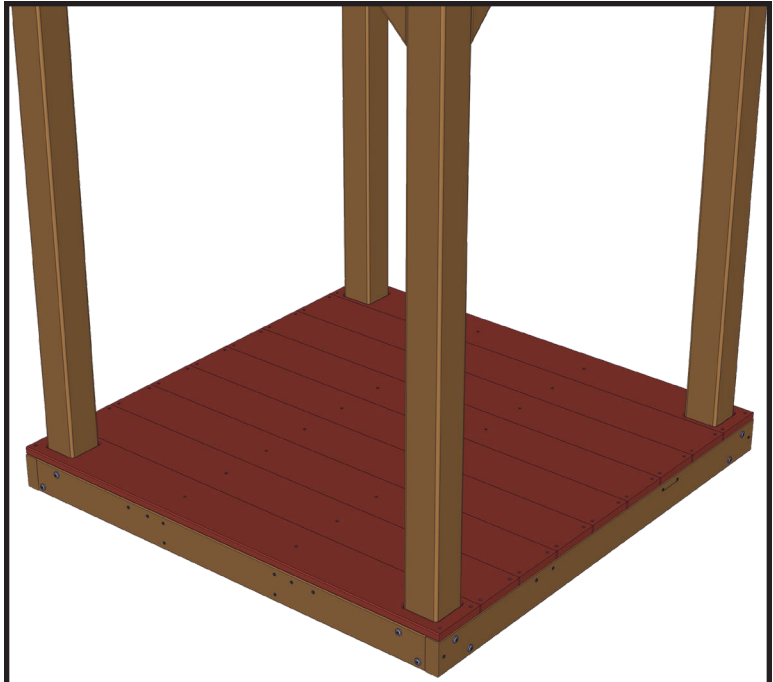
Step 1.

Follow steps 1-5 in the first part of this manual to start the tower assembly.



Step 2.

Place two 45 $\frac{1}{4}$ " 2x4 floor joists in place and fasten them with 3" wood screws.



Step 3.

Lay the floorboards in place and center them out between the 4x4 posts. Fasten them with 1 $\frac{1}{2}$ " poly screws.



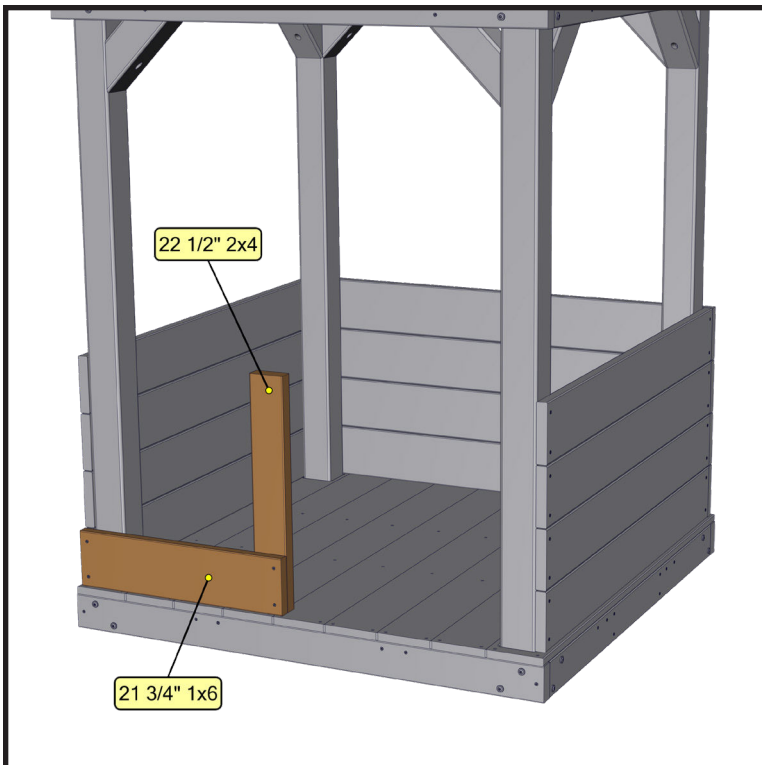
Step 4.

Locate eight 45 $\frac{3}{16}$ " 2x6's and place them on either side of the tower. Fasten them with 2" wood screws.



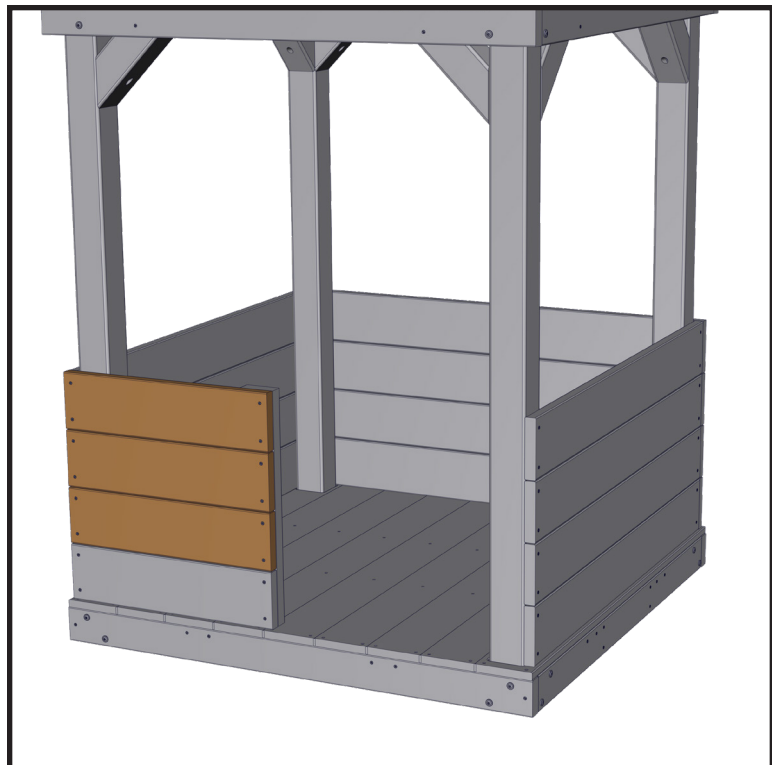
Step 5.

Place four 47 $\frac{1}{4}$ " 1x6's on the back of the tower and fasten them with the same screws.



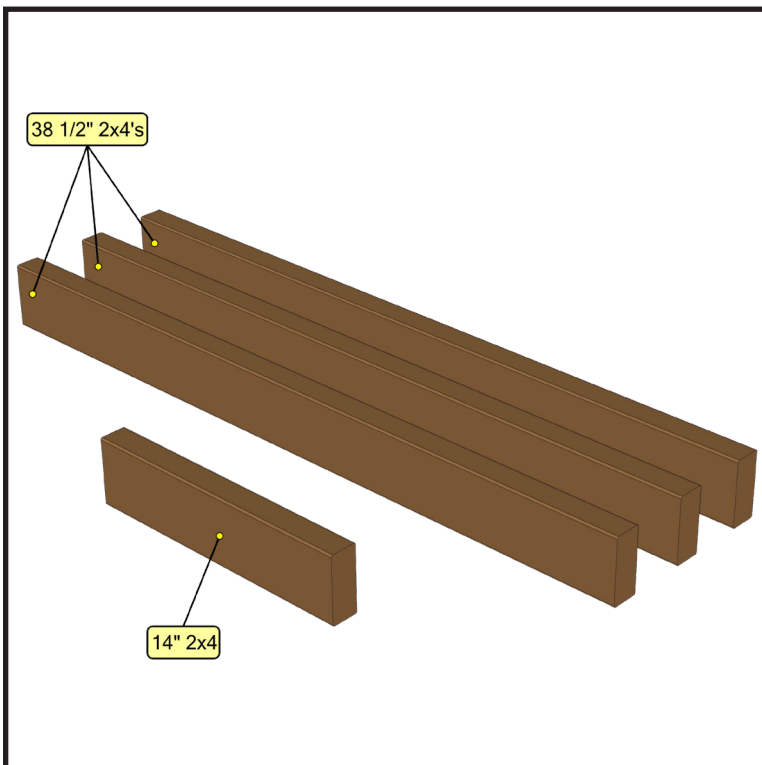
Step 6.

Place these two boards on the front of the tower and fasten them with 2" wood screws.
Fasten the 22 1/2" 2x4 down into the floor boards.



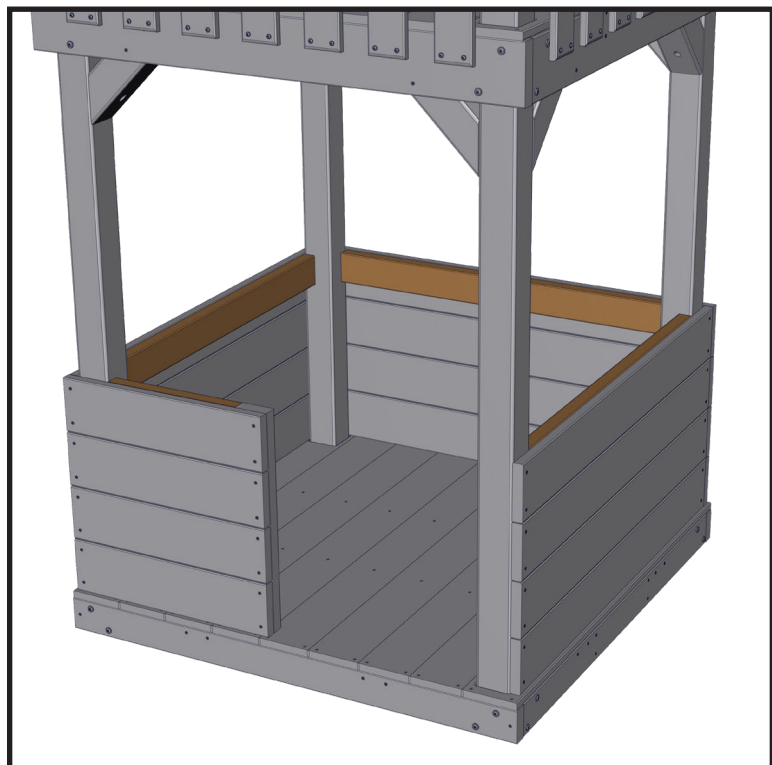
Step 7.

Install the rest of the 21 3/4" 1x6's.



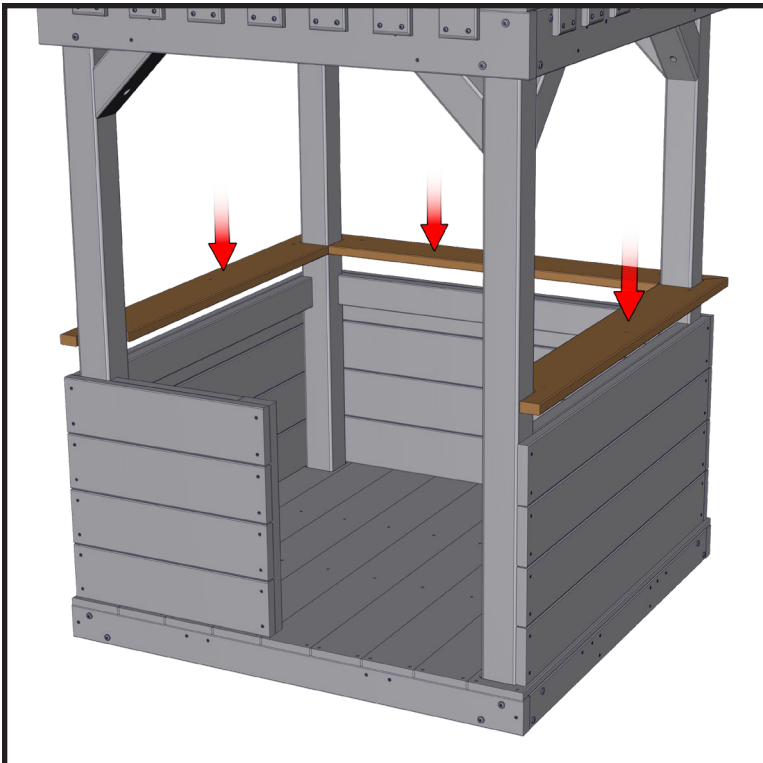
Step 8.

Locate these four 2x4's.

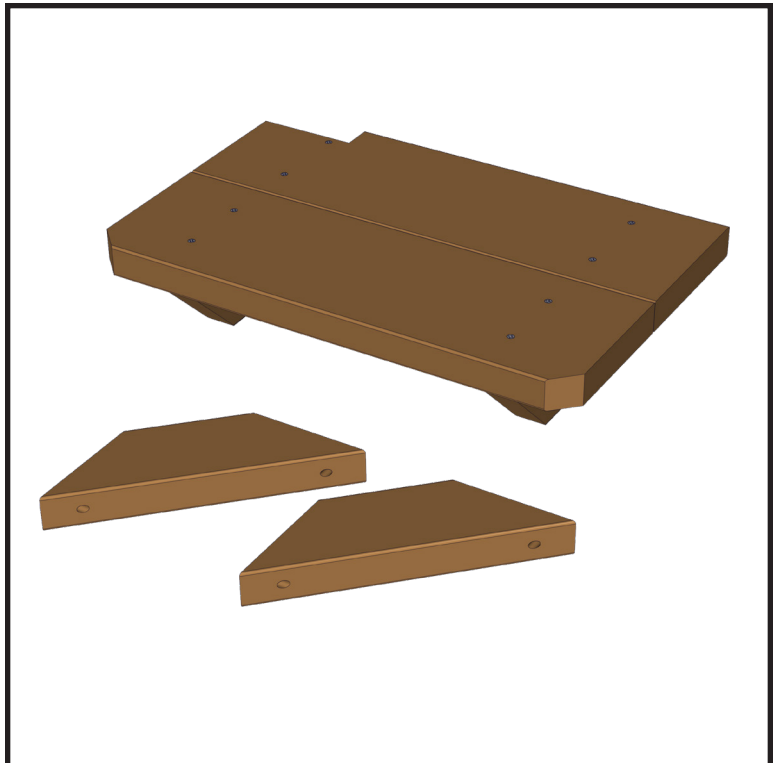


Step 9.

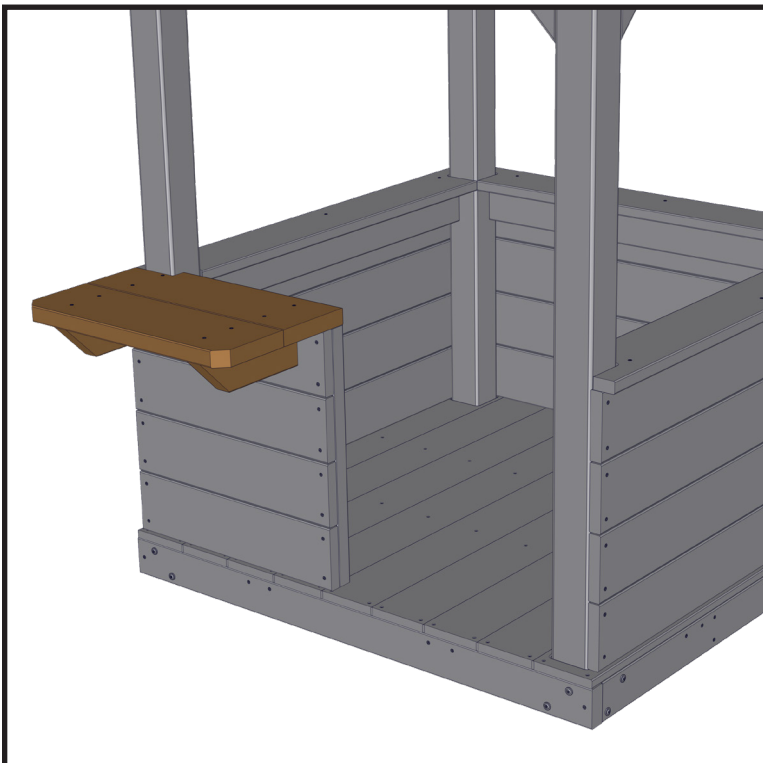
Place the 2x4's around the inside of the lemonade stand and fasten them with 2" wood screws.



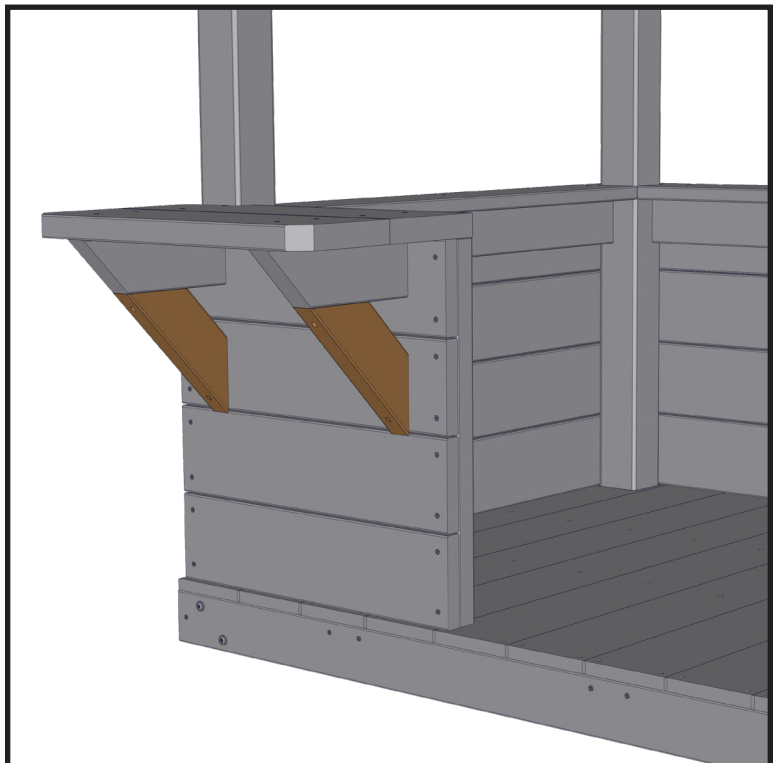
Step 10.
 Locate the top trim pieces and place them around the top of the lemonade stand.
 Fasten them using 2" wood screws.



Step 11.
 Locate these pieces to build the shelf.



Step 12.
 Place the top shelf piece in place and fasten it.



Step 13.
 Place the two 2x4 braces in position and fasten them.



Completed Lemonade Stand

