

Boulder 66 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
- 5/32" Hex Drive Bit

Parts List

Tower	
Type	Quantity
108" 4x4 Post	4
68" 2x6	12
68" 2x4 Joists	4
Floor Boards	13
Poly Slats	
Sandbox Seats	4
2x6 Corner Brackets	12

Climbing Set	
Top Ladder	1
End Ladder	1
117" 2x4 Ground Runner	1
87" 2x4 Braces	2
2x6 End Brackets	2

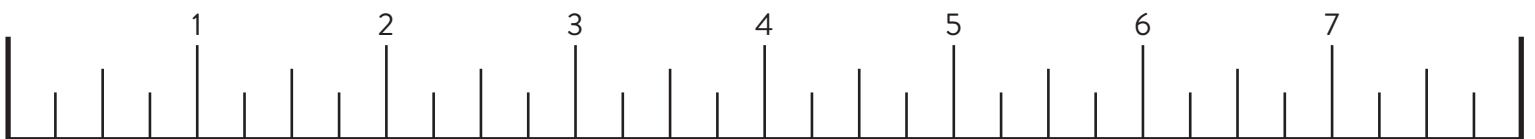
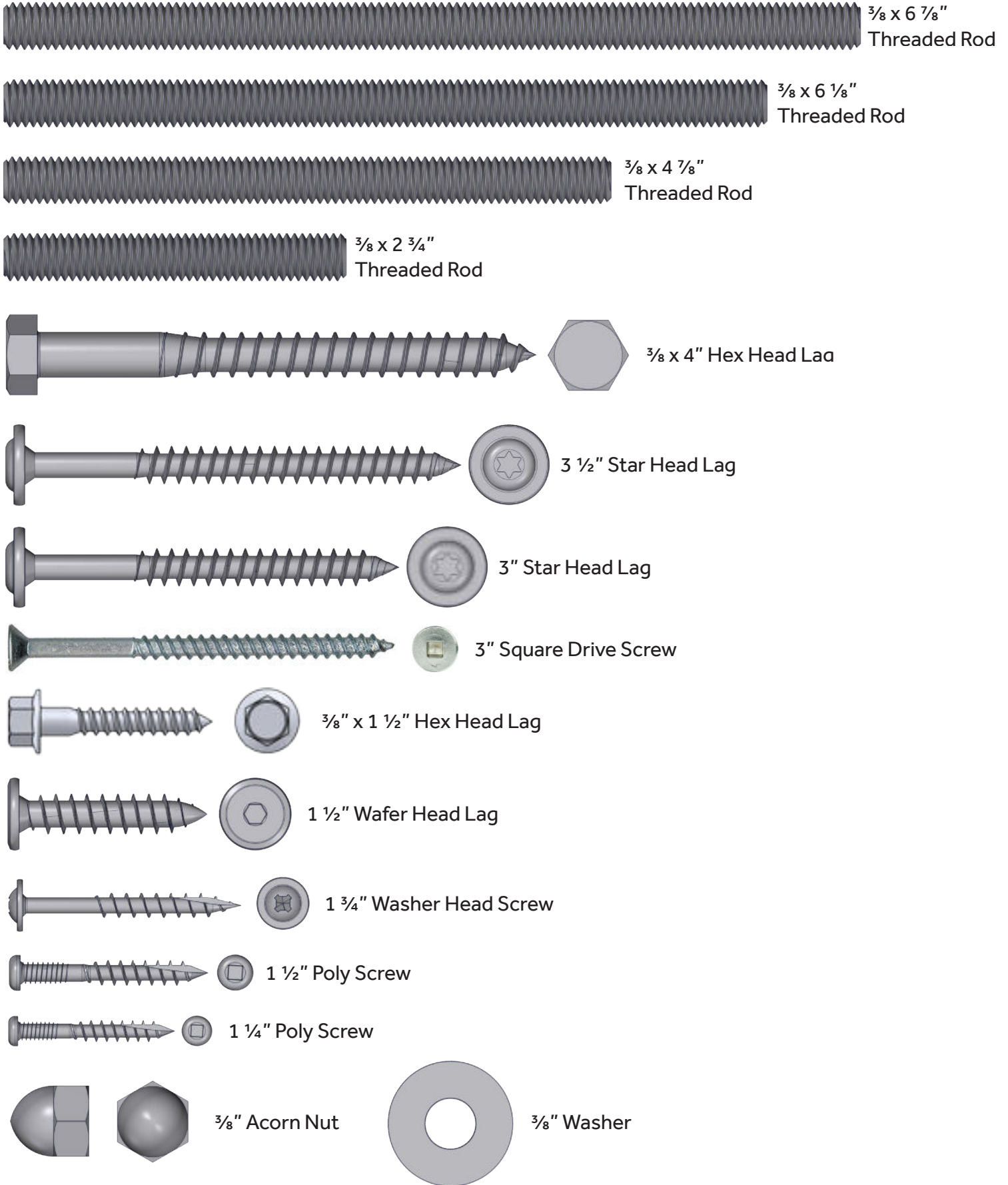
Swing Frame	
12' or 14' 2x6 Swing Beam	1
108" 4x4 End Post	1
93" 2x4 Ground Runner	1
87" 2x4 Braces	2
Beam Strap Bracket	1
Corner Bracket	1
End Bracket	1
Swing Bearings	

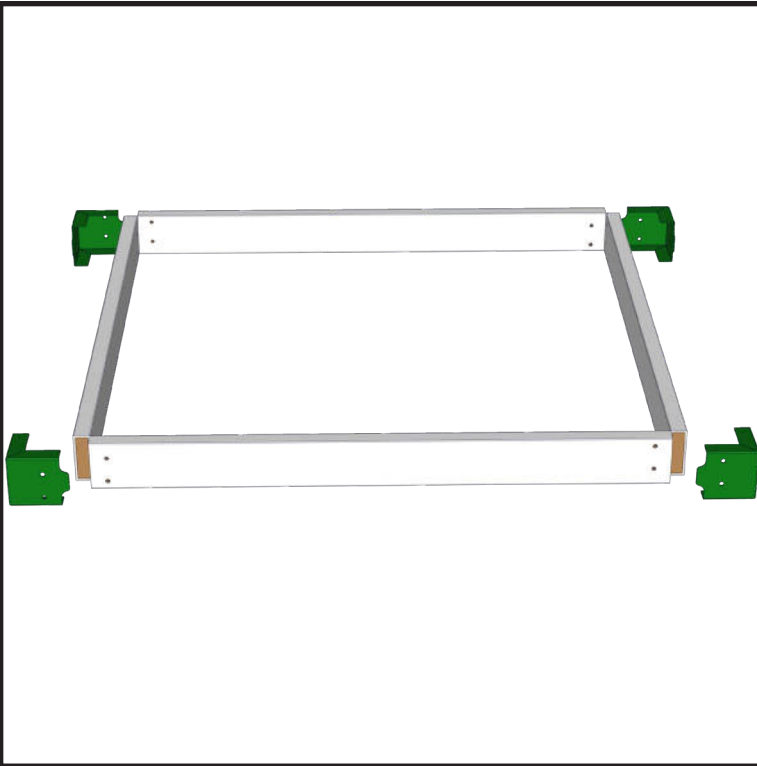
Gable/Pyramid Roof	
Plastic Roof	1
Mounting Brackets	4
Square Drive Screws	12
Hex Head Lags	4

Tarp Roof	
92" 2x4	2
73" 2x4	3
44" 2x4	2
Tarp Roof	1
2x4 Roof Brackets	2

Vinyl Roof	
Roof Panels	4
Roof Braces	4
Roof Cap	2
56" 2x4's	2
62" 2x4's	2
Poly Strips	4

HARDWARE

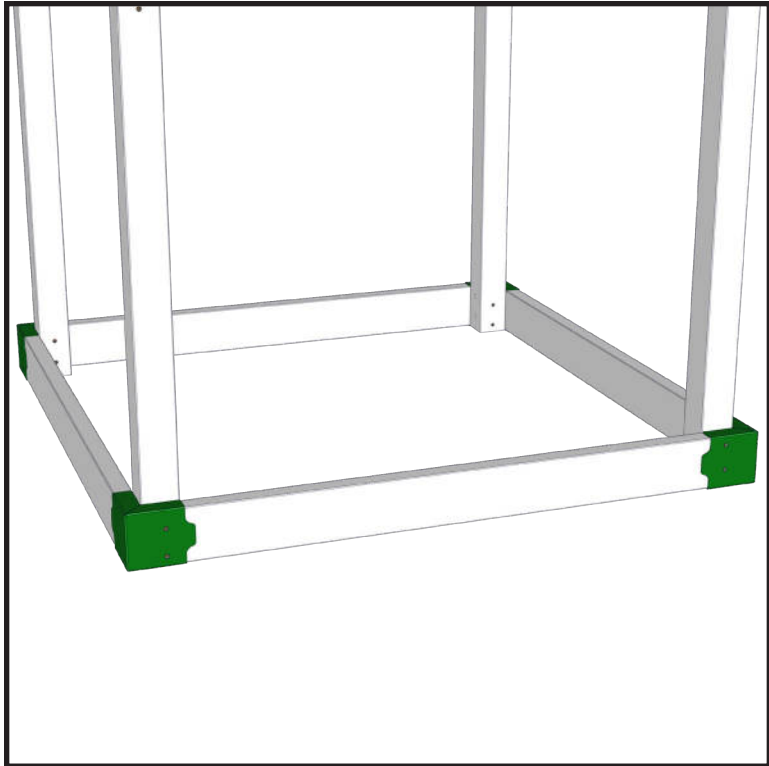




Step 1.

Begin the assembly by placing four 68" 2x6's in a square. Place a corner bracket at each corner.

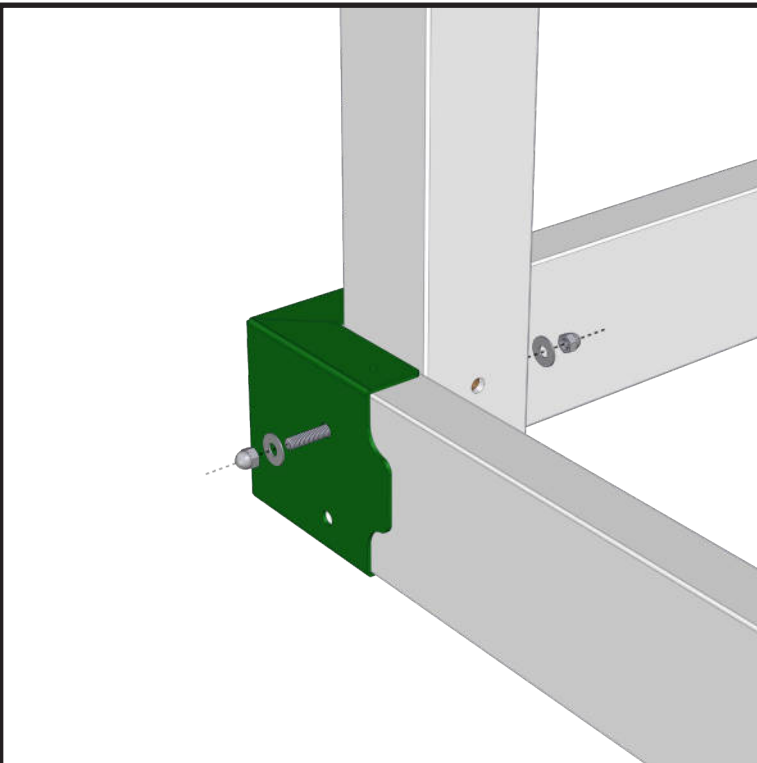
Notice how the holes in the 2x6's and the corner brackets are offset and need to be aligned correctly.



Step 2.

Place the 108" 4x4 posts in place.

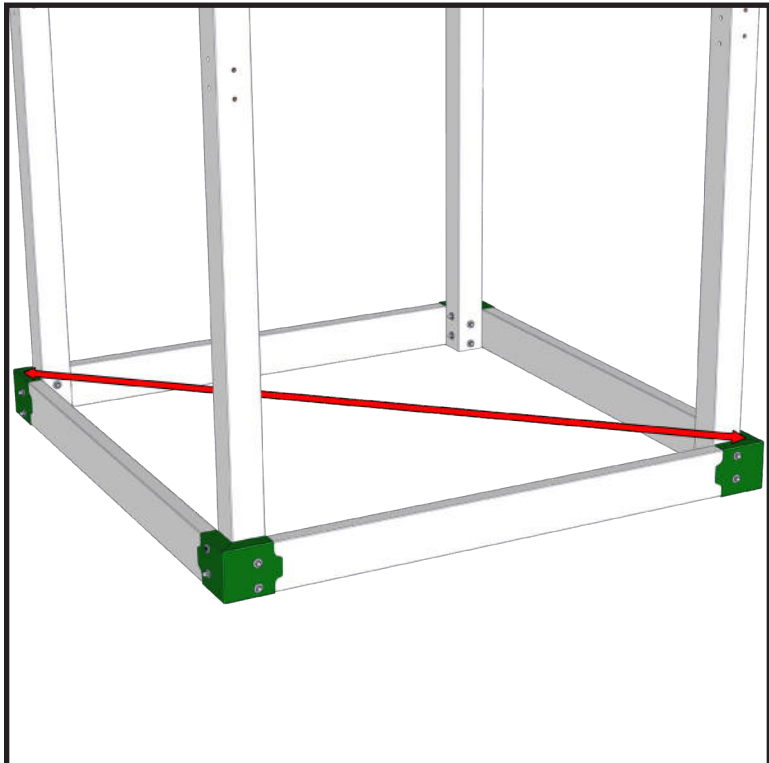
The pre-drilled holes need to be aligned with the holes in the 2x6's.



Step 3.

Begin fastening the 4x4's to the 2x6's using 6 7/8" threaded rods with acorn nuts and washers.

Only finger tighten the nuts at this point.

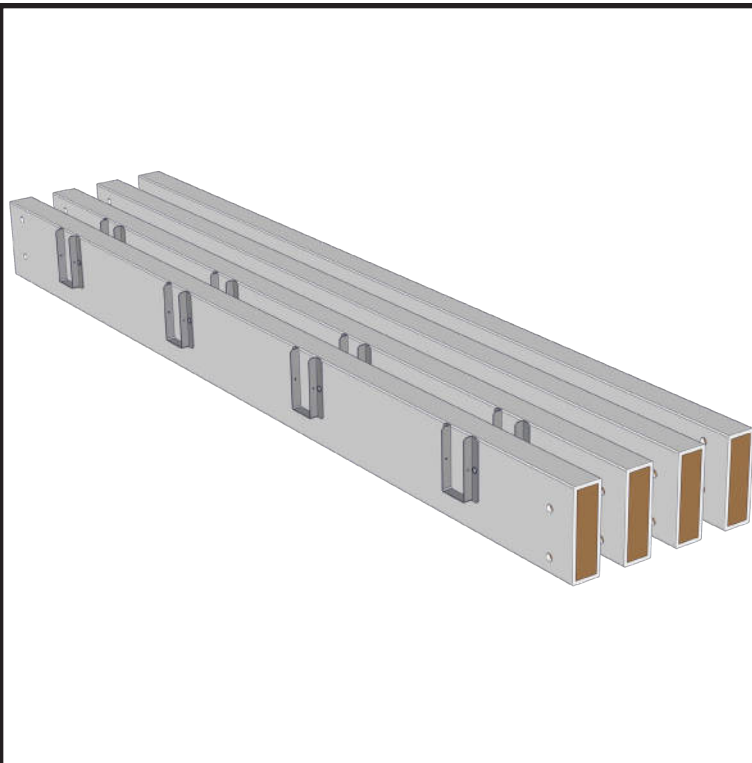


Step 4.

Measure across all four corners to ensure the tower is square.

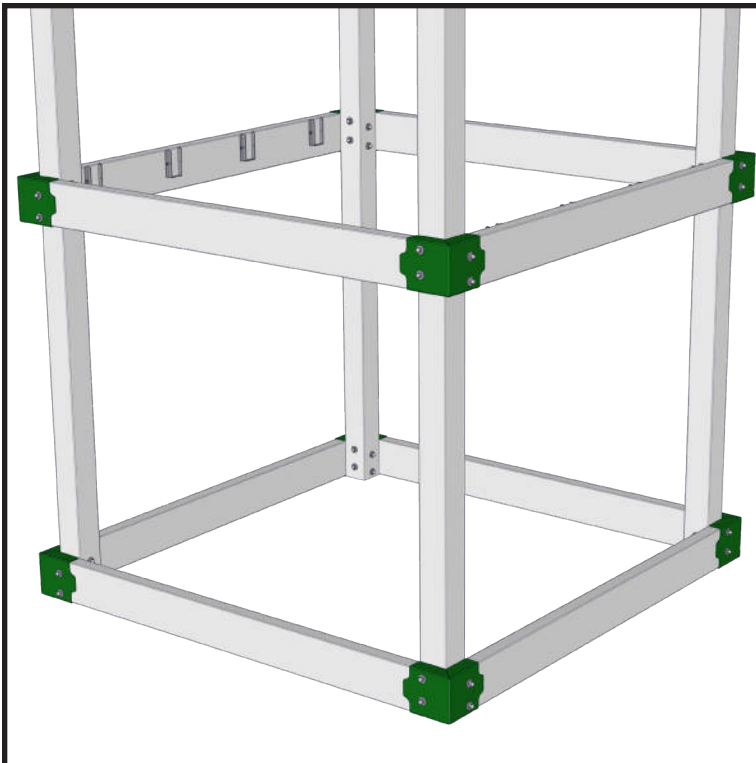
Once the tower is square tighten all the threaded rods using a 5/8" socket and a 5/8" open end wrench.

Keep in mind that overtightening the acorn nuts can damage them.



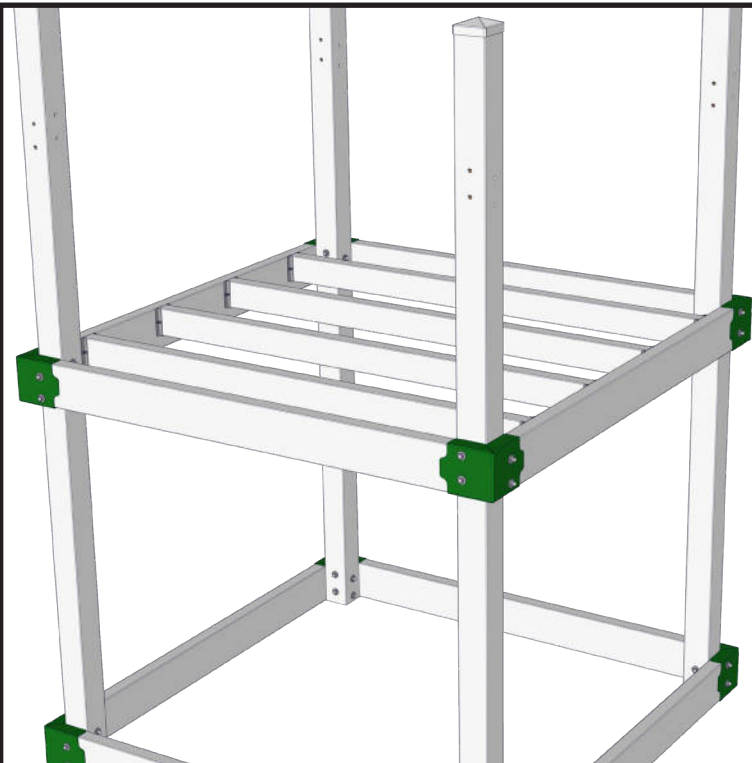
Step 5.

Locate these parts to build the floor of the tower.
There are two standard 68" 2x6's and two 68" 2x6's with joist hangers.



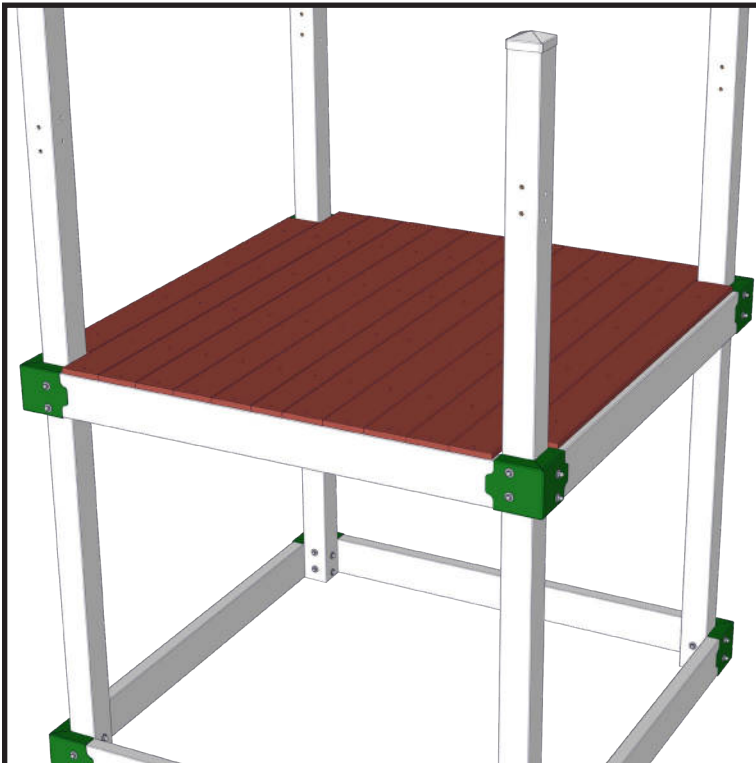
Step 6.

Assemble the floor of the tower using the same hardware and corner brackets as the previous steps.
Make sure the 2x6's with joist hangers are installed across from each other.



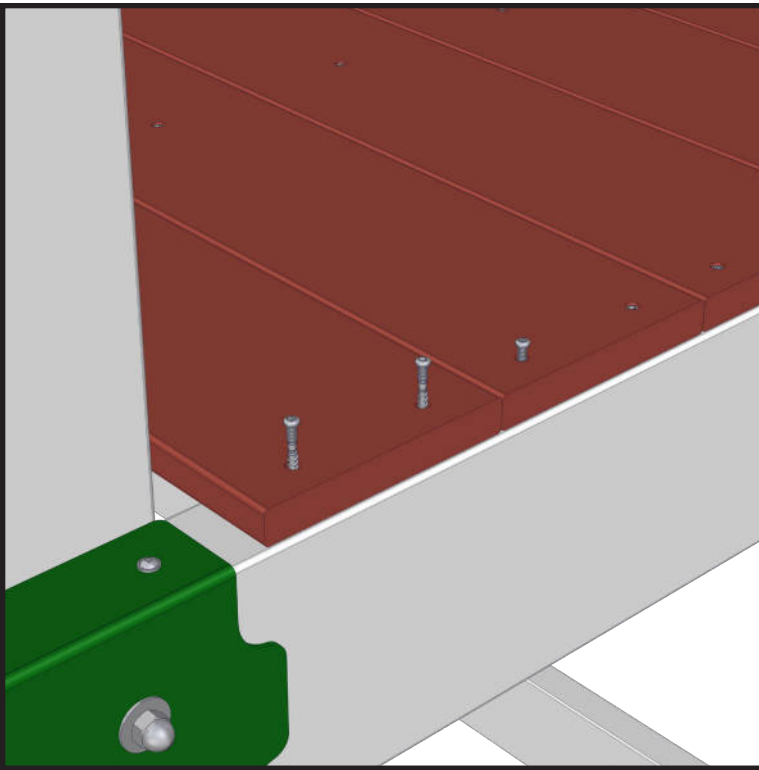
Step 7.

Place the 2x4 joists in the joists hangers and fasten them with 1 3/4" washer head screws.

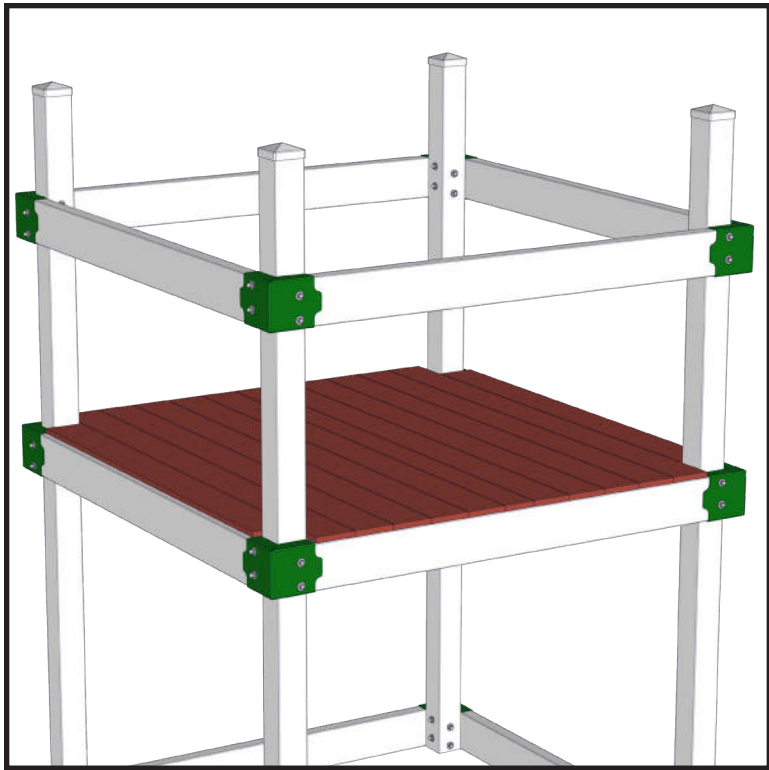


Step 8.

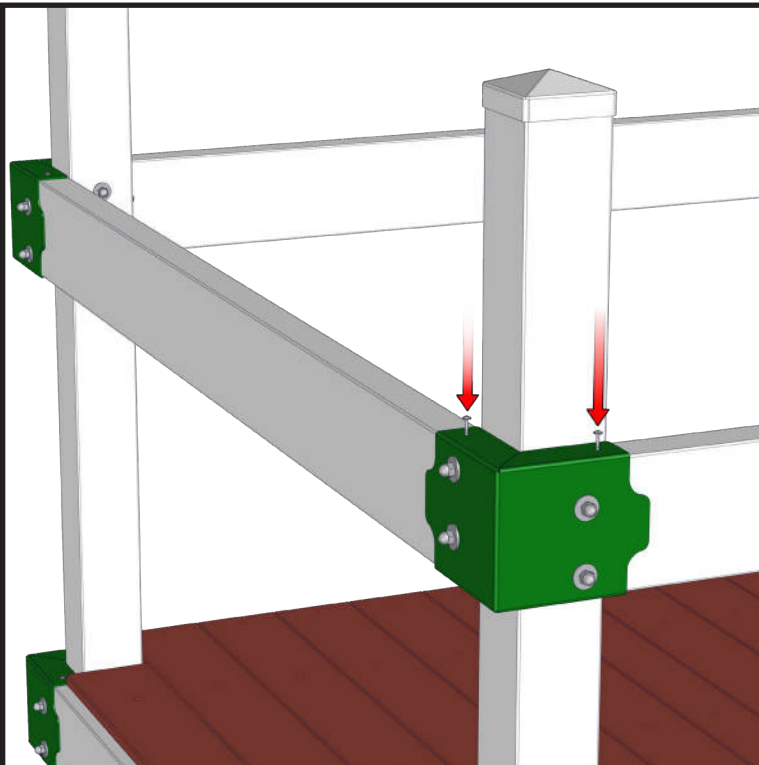
Place the floorboards in position and space them out to fit.
Notice there are two short ones for each side and a narrow one for the middle.



Step 9.
Fasten the floorboards using 1 ½" poly screws.
Use two screws to fasten the ends and one screw for each joist.



Step 10.
Assemble the railing using the rest of the 68" 2x6's and corner brackets.
Fasten them with 6 ⅞" threaded rods, washers and acorn nuts.



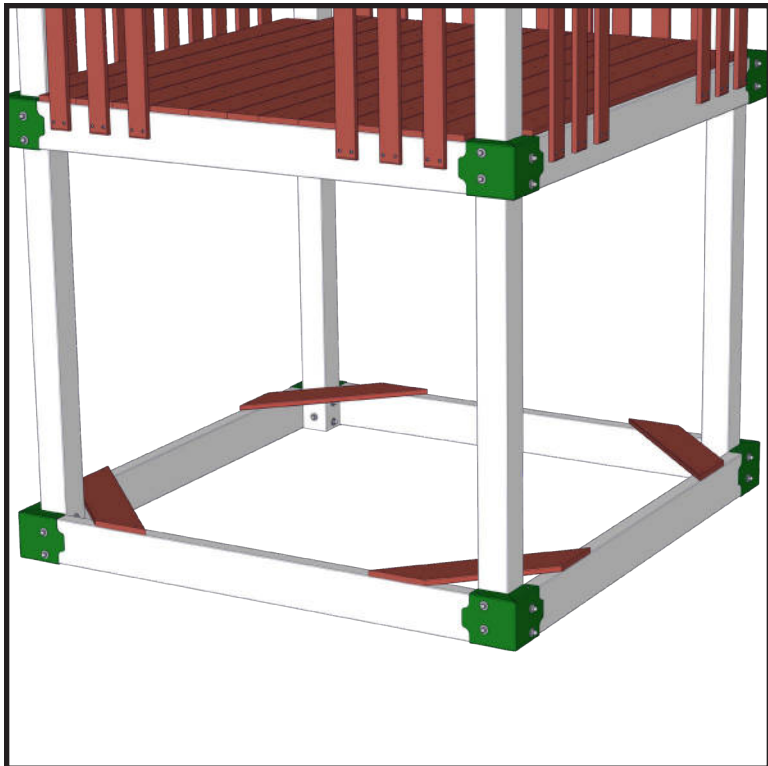
Step 11.
Fasten all the corner brackets with 1 ¾" washer head screws through the top and bottom tabs.



Step 12.
Begin fastening the slats to the tower using 1 ¾" washer head screws.
The sides with no accessories gets ten slats.
Use the included spacer to position them.



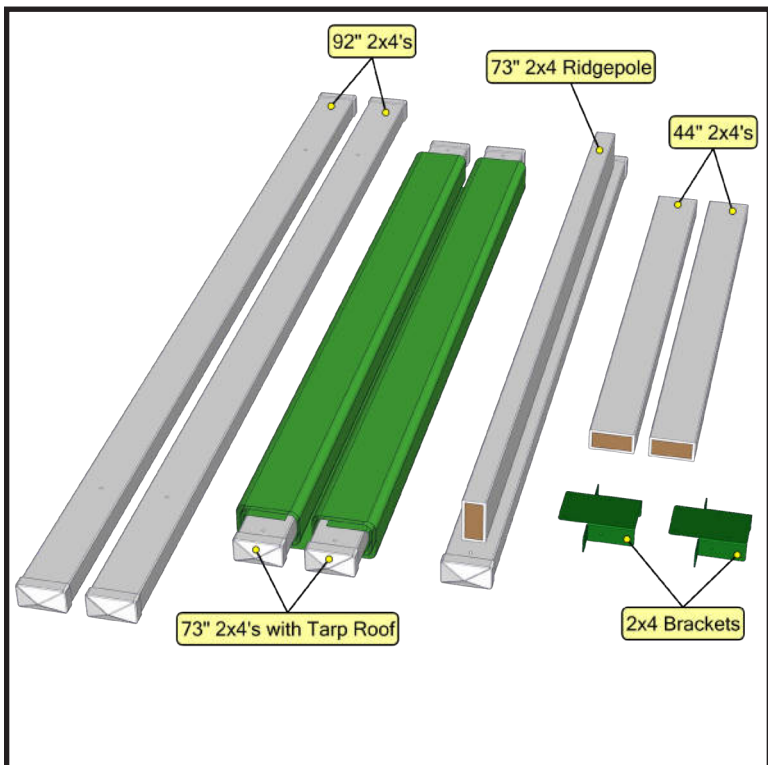
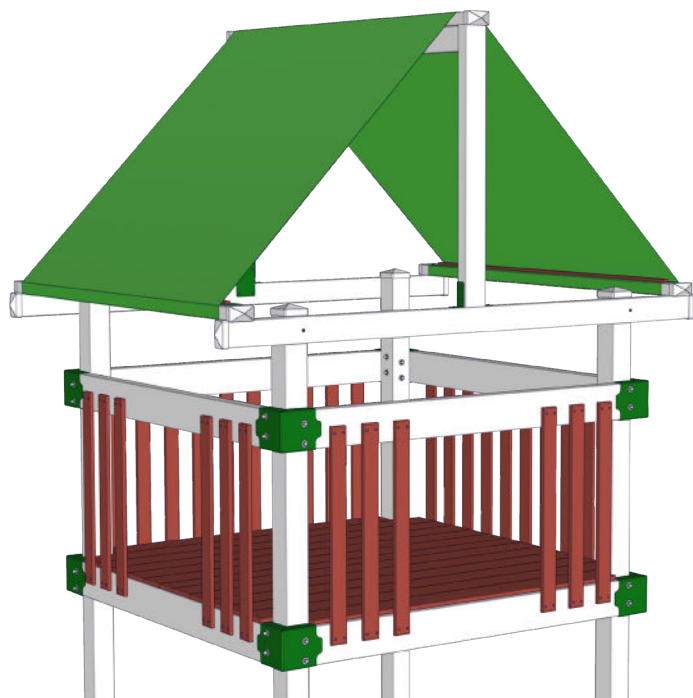
Step 13.
The sides with accessories gets six slats.
Use the same spacer to position them.
If your playset has a sidewinder slide or bubble panel only put four slats on that side.



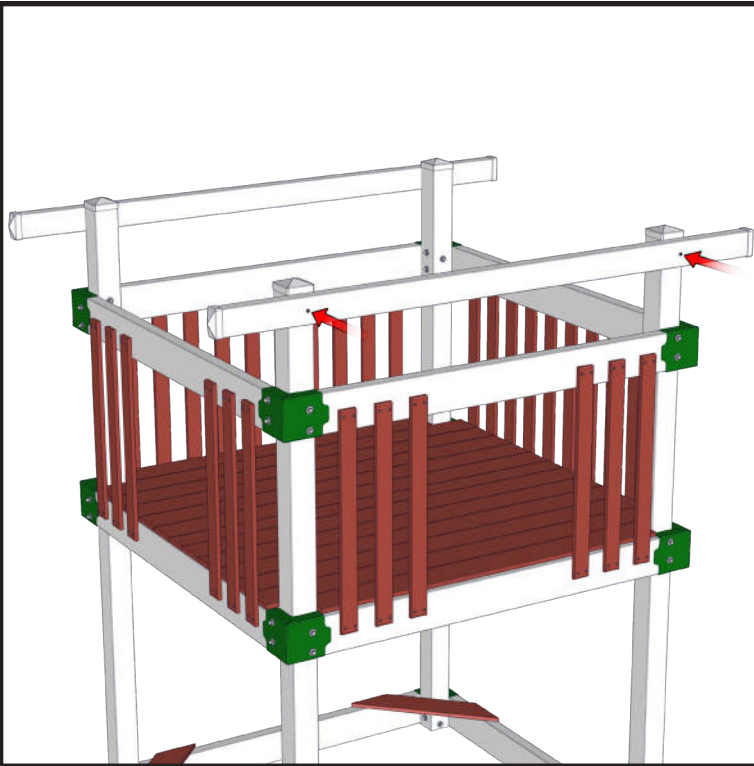
Step 14.
Finish the tower by installing the sandbox seats.
Fasten them with 1 1/2" poly screws.

Tarp Roof Assembly

Follow these instructions if your playset has a tarp roof.



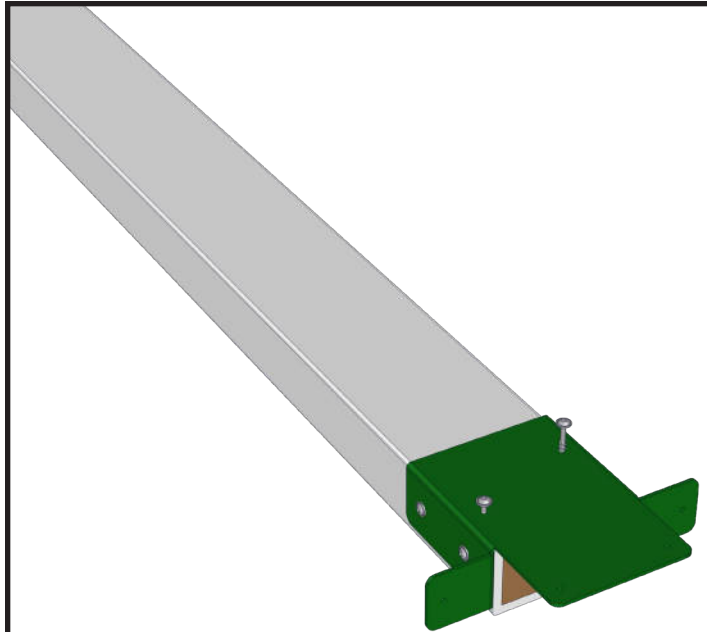
Step 1.
Locate these parts to build the tarp roof.



Step 2.

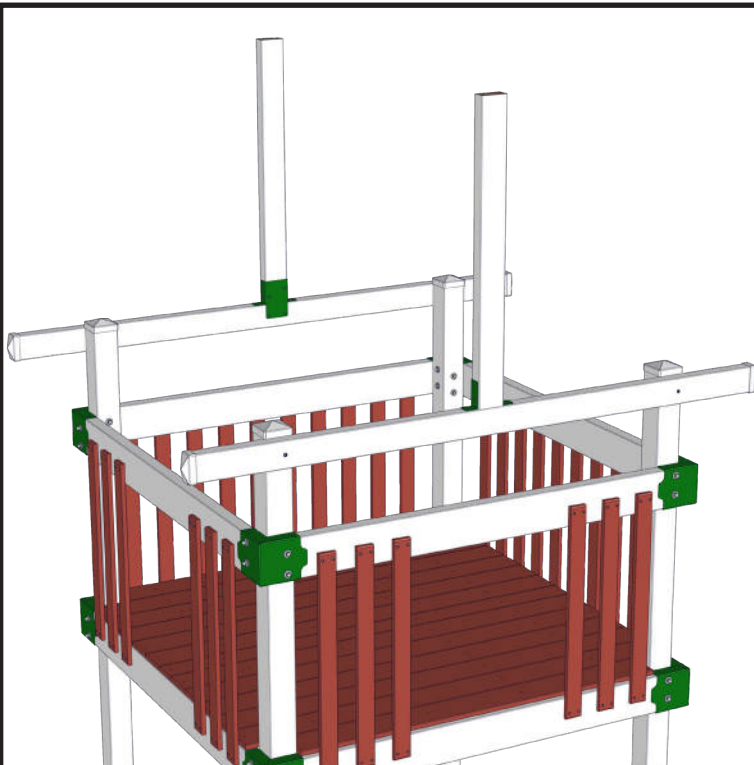
Fasten the 92" 2x4's to the 4x4 posts using 3 1/2" star head lags. The pre-drilled holes should be centered on the 4x4 posts.

Note: These 2x4's are pre-drilled through the front and the top, make sure the top holes are facing up.



Step 3.

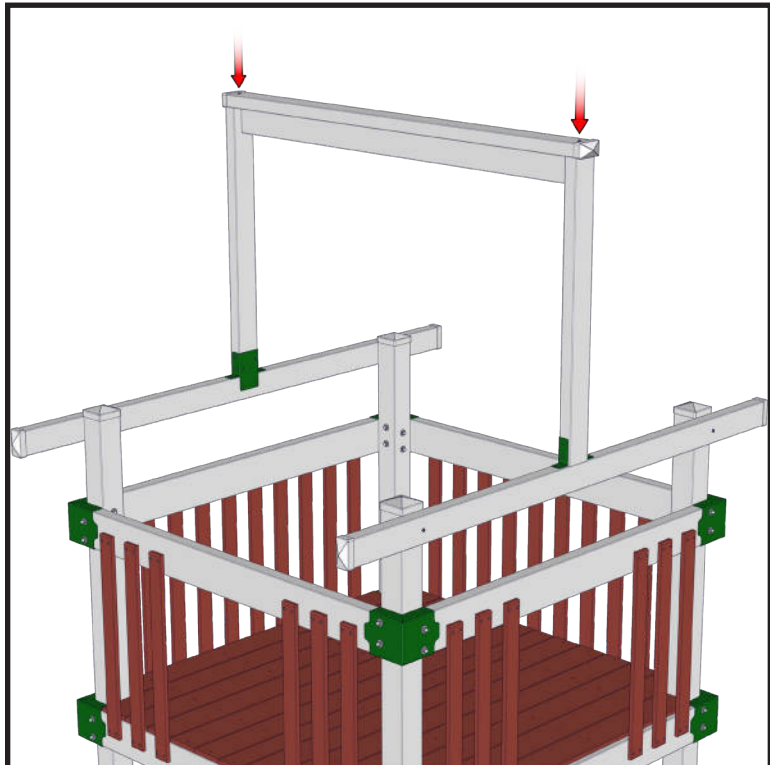
Next fasten the roof 2x4 brackets to the 44" 2x4's. Use six 1 3/4" washer head screws per bracket.



Step 4.

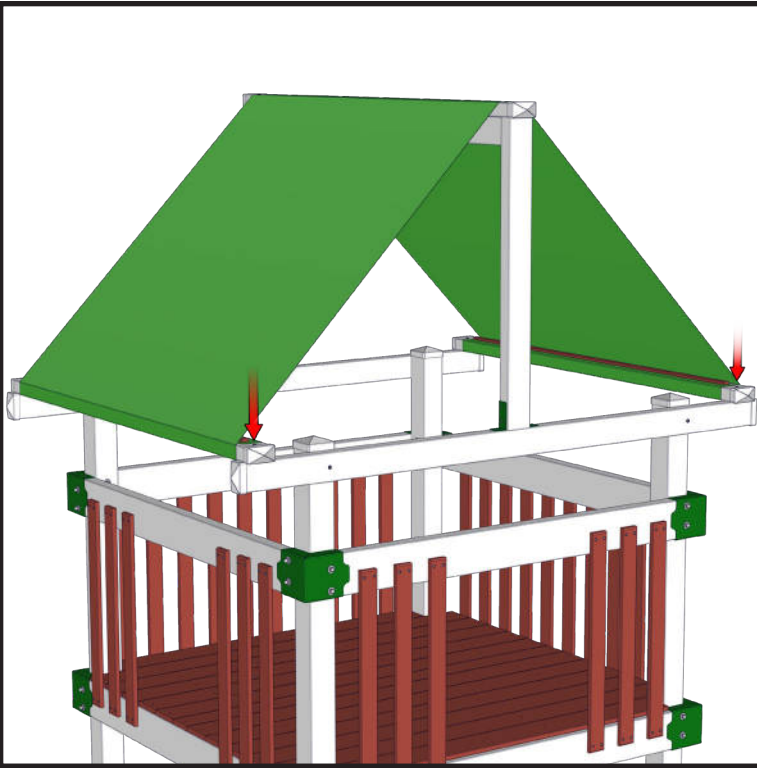
Place the 2x4's with the brackets in the center of the 92" 2x4's with the brackets facing in.

Use 1 3/4" washer head screws to fasten the brackets.

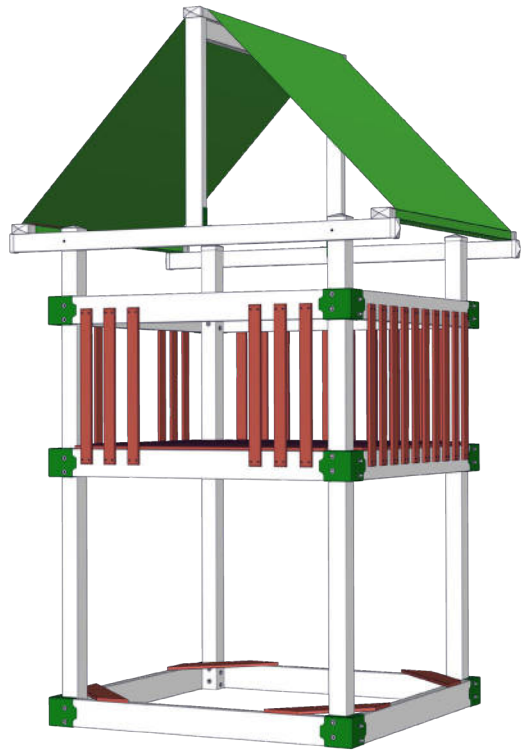


Step 5.

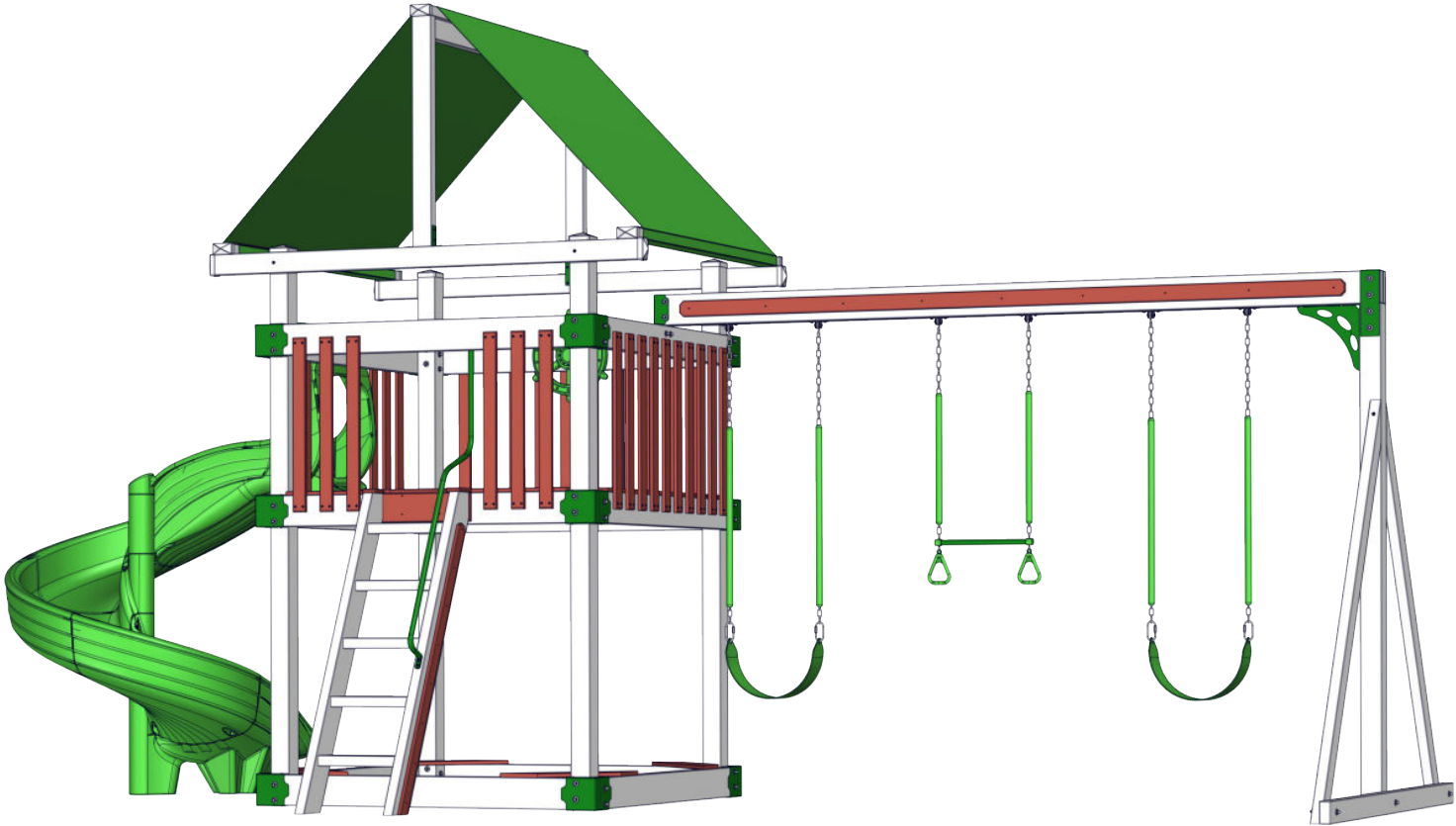
Place the 73" 2x4 with the ridgepole on top of 44" 2x4's and fasten it with 3 1/2" star head lags.



Step 6.
 Place the 73" 2x4's with the tarp roof in place as shown.
 Fasten one 2x4 first then pull the tarp tight and fasten the other.
 Use 3 1/2" star head lags in the pre-drilled holes to fasten them.

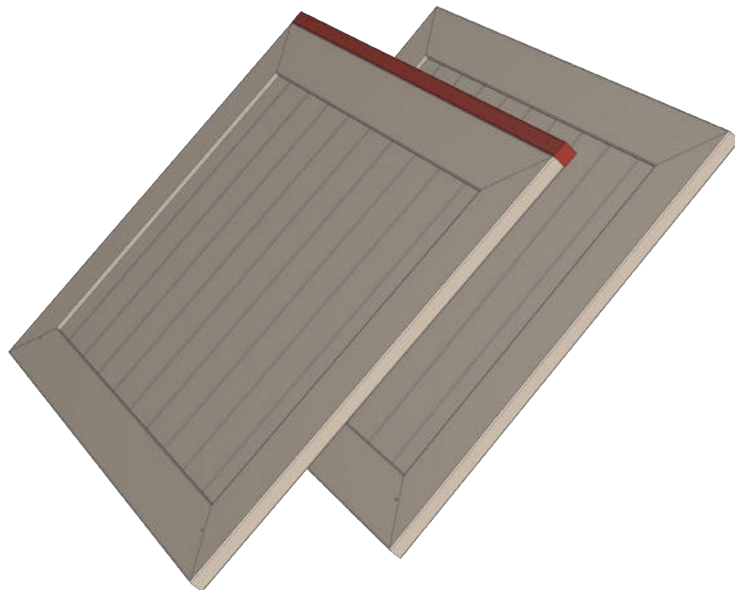
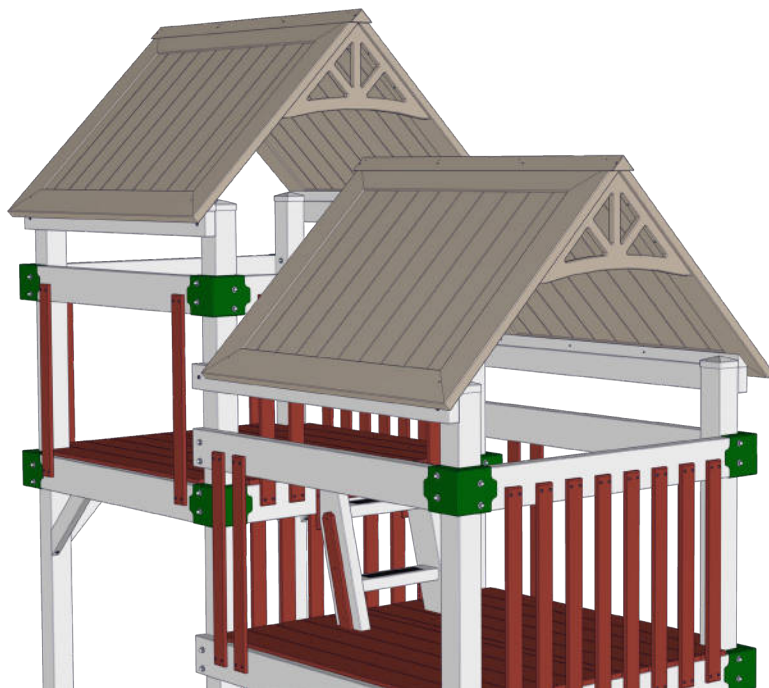


Finished Tarp Roof



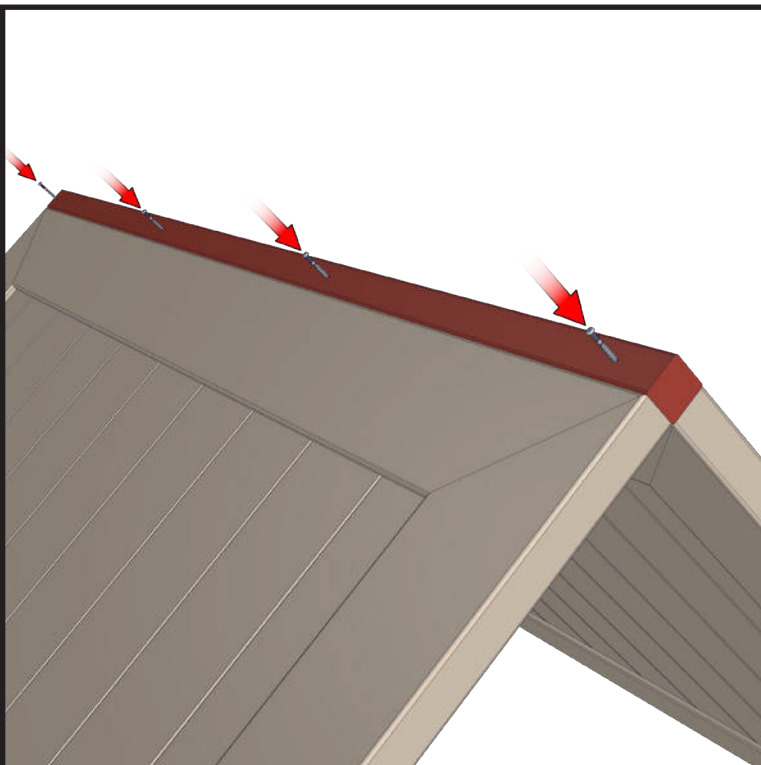
Vinyl Roof Assembly

Follow these instructions if your playset has a vinyl roof.



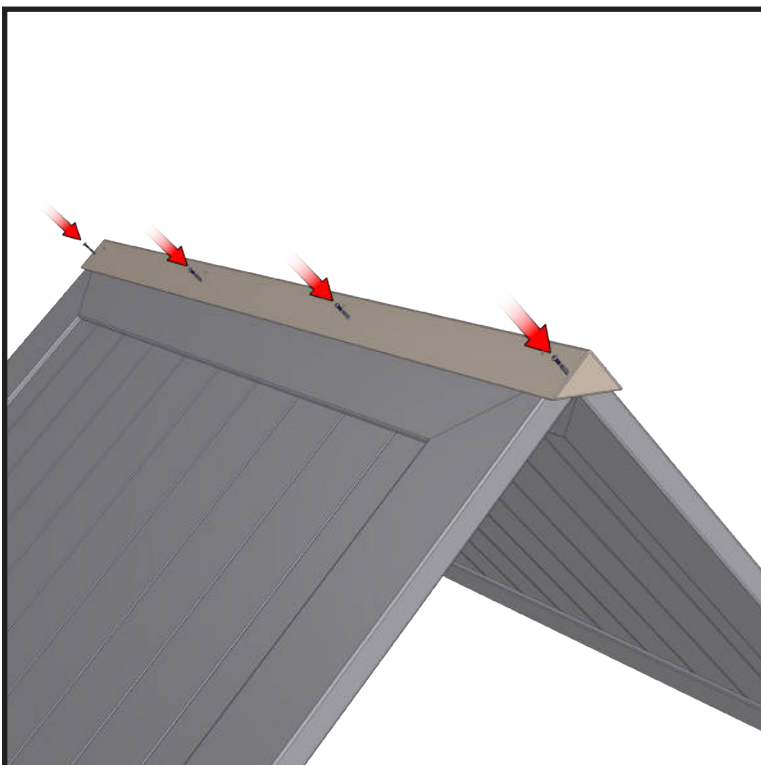
Step 1.

Locate the two roof panels to begin the assembly. Notice how one roof panel has a poly strip on top.



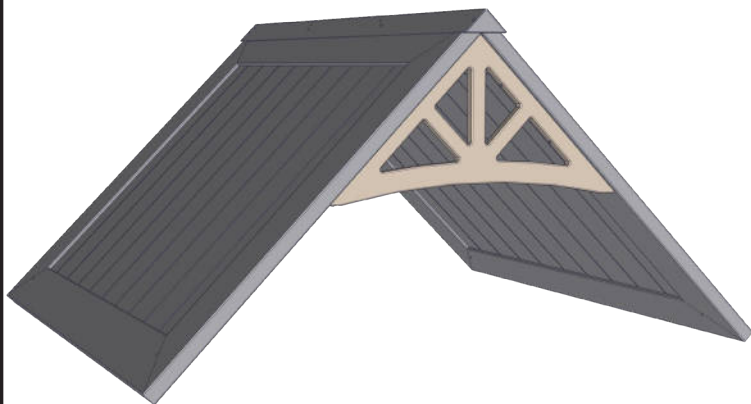
Step 2.

Place the two roof panels together as shown in the illustration then fasten them together using 3" wood screws.

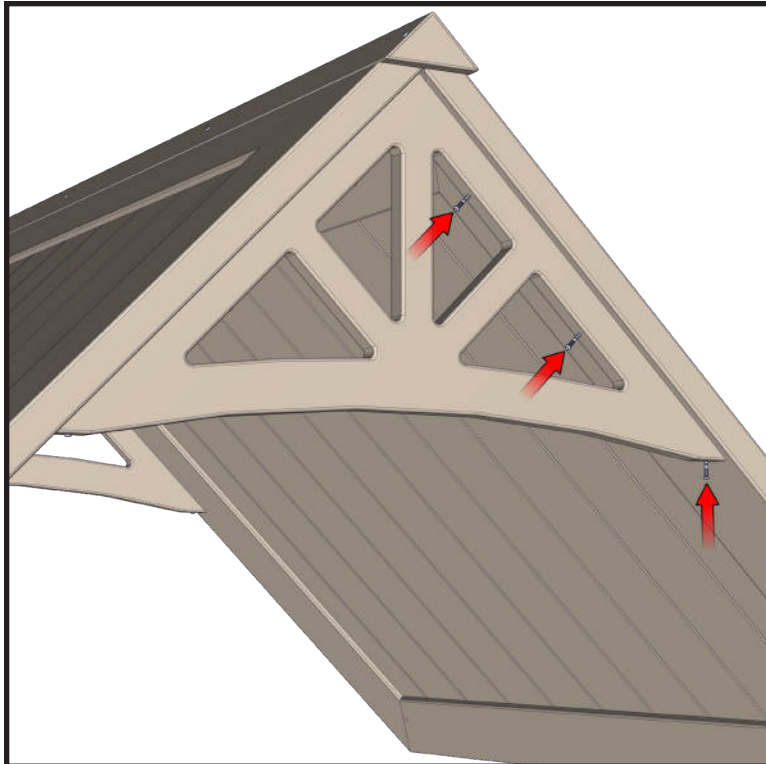


Step 3.

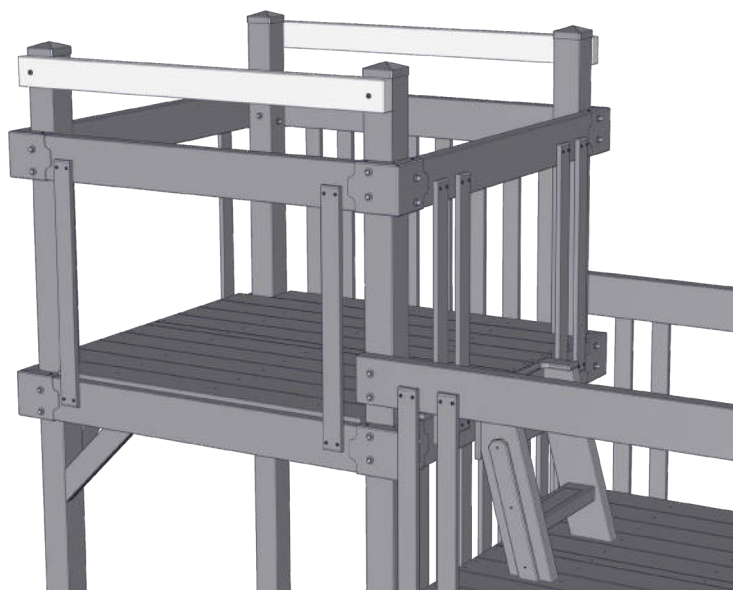
Place the vinyl roof cap on top and fasten it with 1 1/4" poly screws.



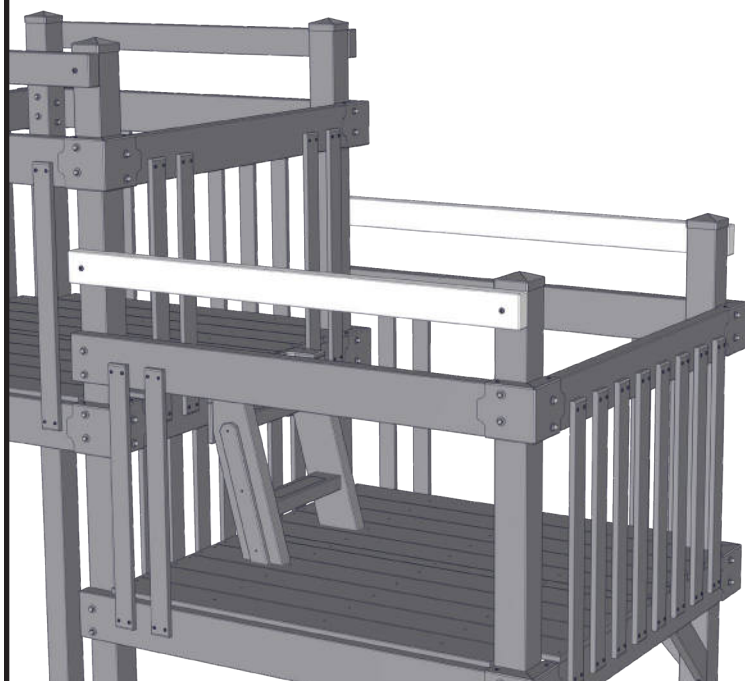
Step 4.
Locate the two roof braces and place one at each end of the roof.



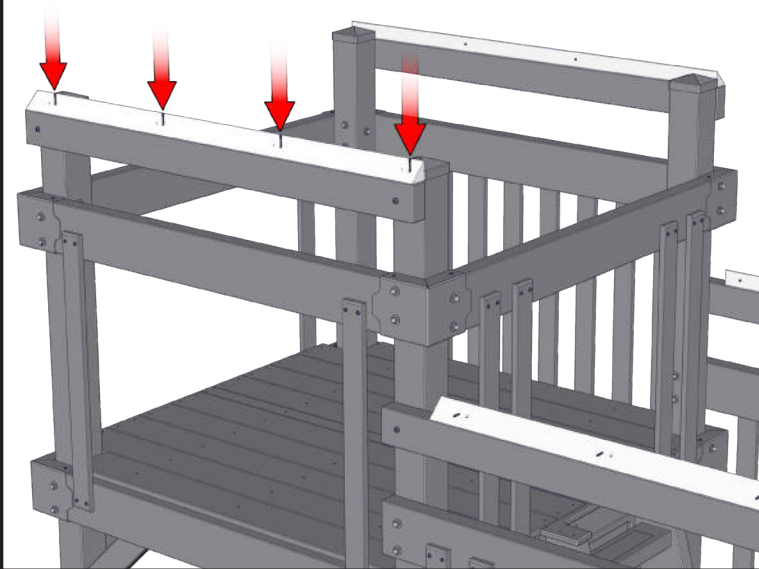
Step 5.
Fasten the roof braces to the roof panels using 2" poly screws.



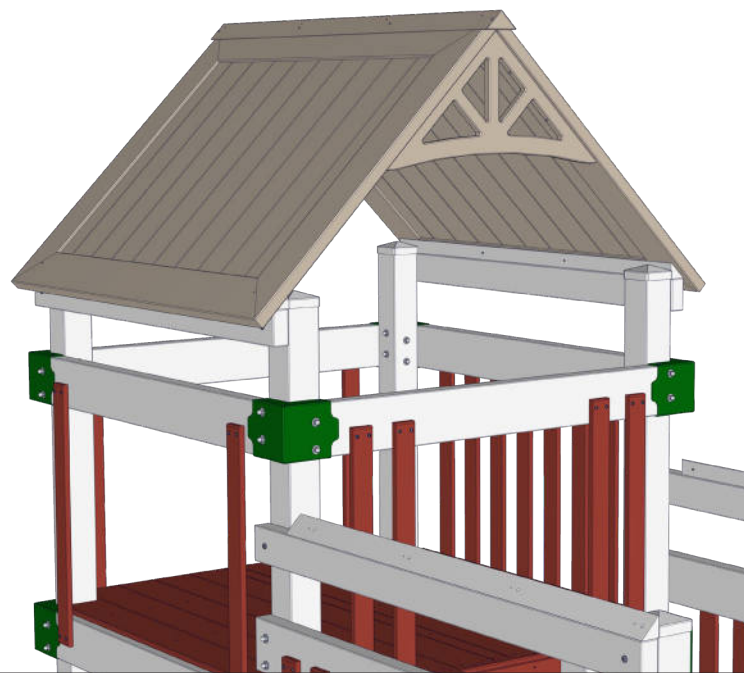
Step 6.
Place a 56" 2x4 on each side of the upper tower and fasten them with 3 1/2" star head lags.
Make sure they are centered between the posts and up against the end caps.



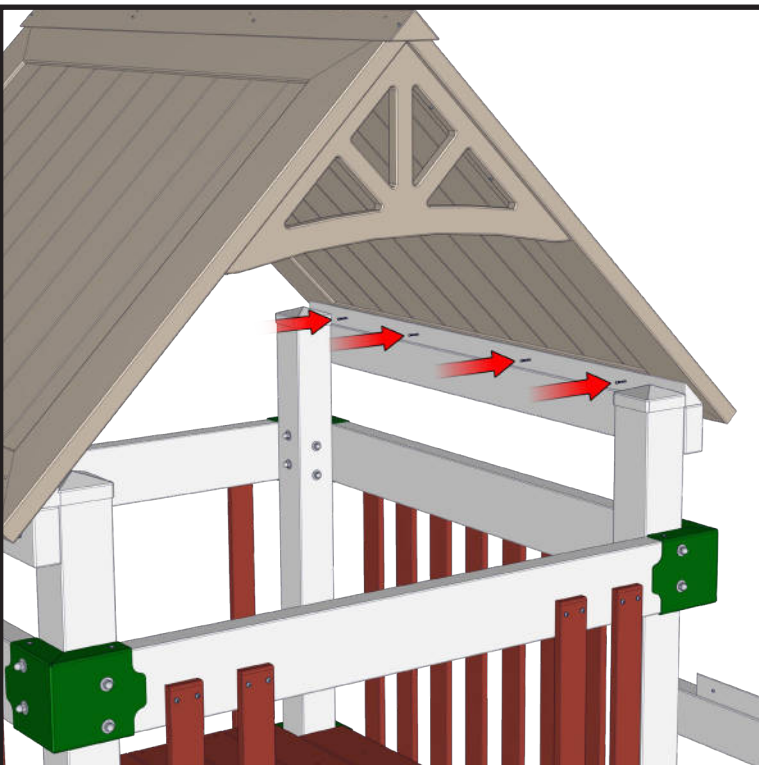
Step 7.
Place a 62" 2x4 on each side of the lower tower and fasten them with 3 1/2" star head lags.
Make sure they are centered between the posts and up against the end caps.



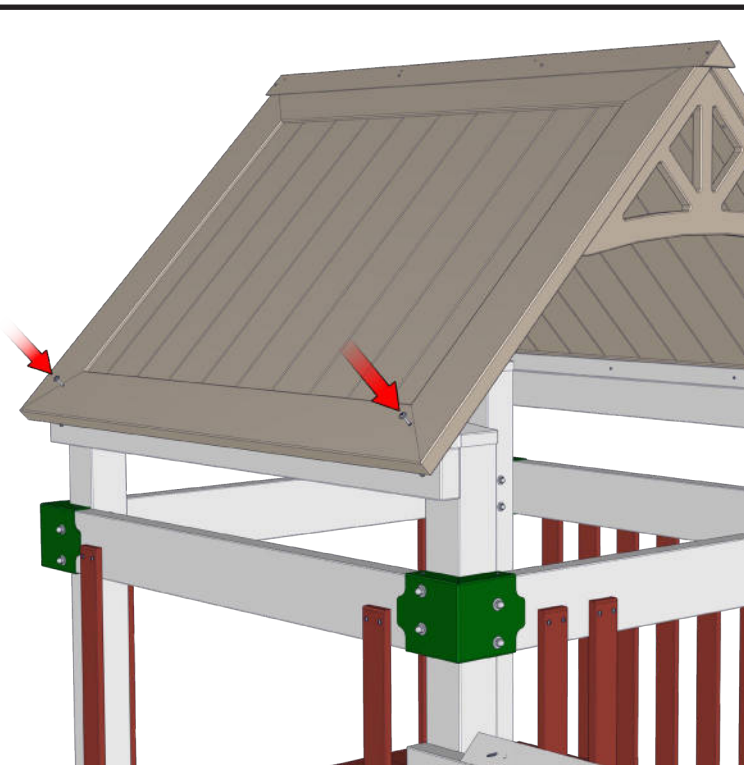
Step 8.
 Locate four poly strips cut at an angle.
 Place one on each 2x4 with the angled side facing out as shown above.
 Fasten them using 1 ½" poly screws screws through the pre-drilled holes.



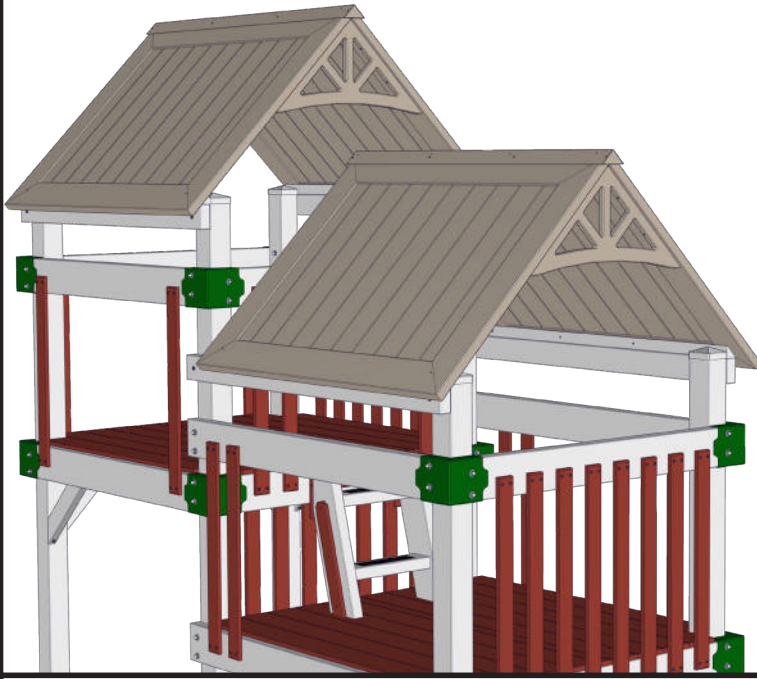
Step 9.
 Place the assembled vinyl roof on the tower and center it between the 4x4 posts.



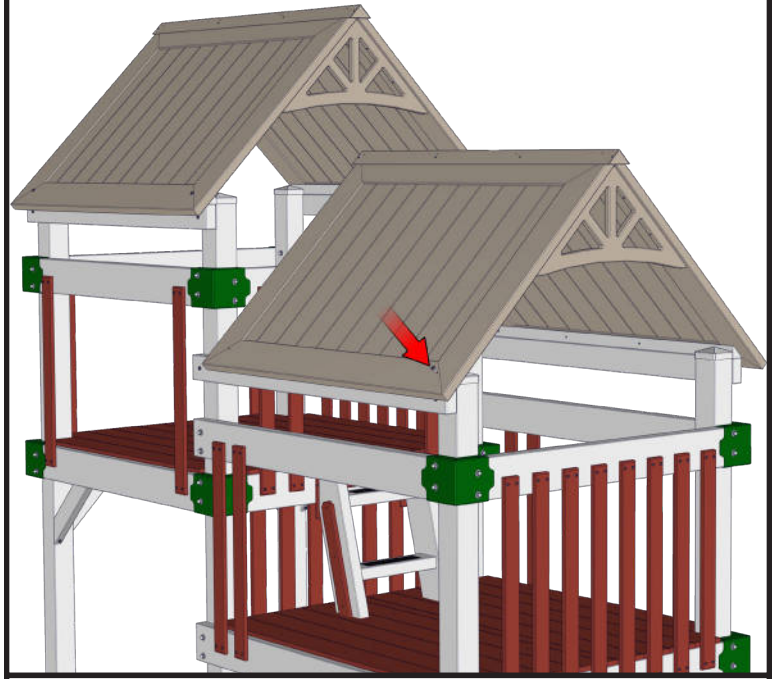
Step 10.
 Fasten the vinyl roof using 1 ½" poly screws through the pre-drilled holes in the poly strips.



Step 11.
 Finish fastening the roof using four 3 ½" star head lags through the pre-drilled holes at each corner of the roof.



Step 12.
Place the other assembled vinyl roof on the lower tower and position it back against the upper tower. Fasten it the same way as the previous roof.

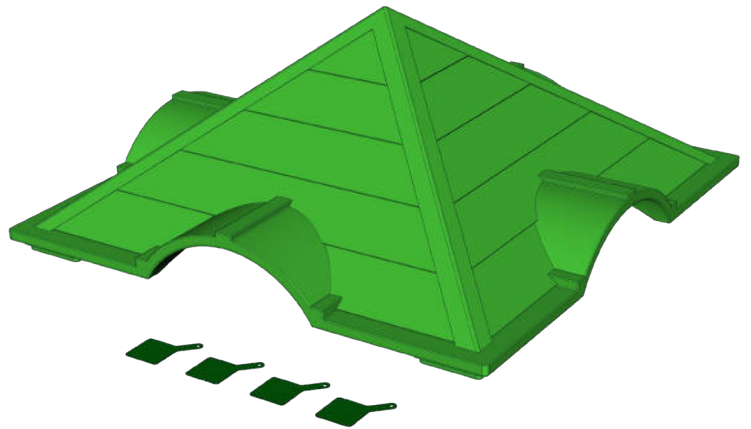


Step 13.
The lower roof gets only two 3 1/2" star head lags through the two end corners.



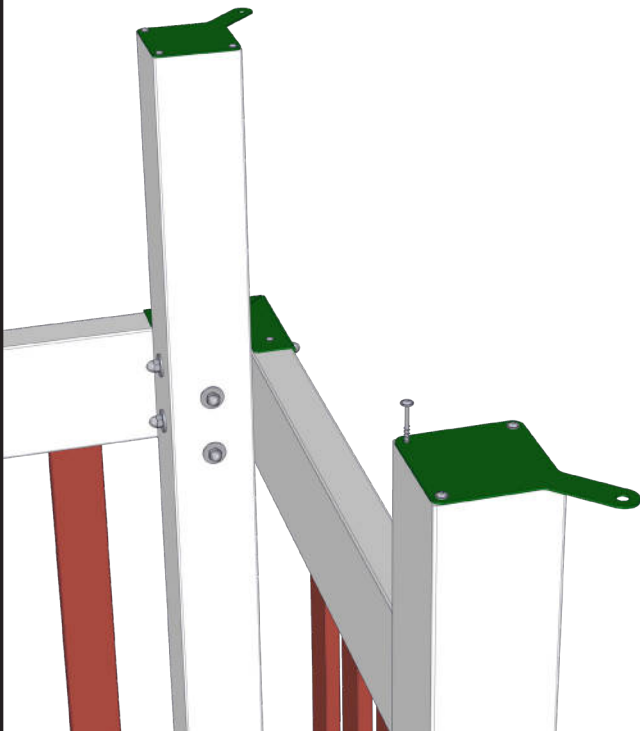
Gable & Pyramid Roof Assembly

Follow these instructions if your playset has a gable or pyramid roof.



Step 1.

The installation is the same for both the gable and pyramid roof. The roof comes with four mounting brackets and all the necessary hardware.



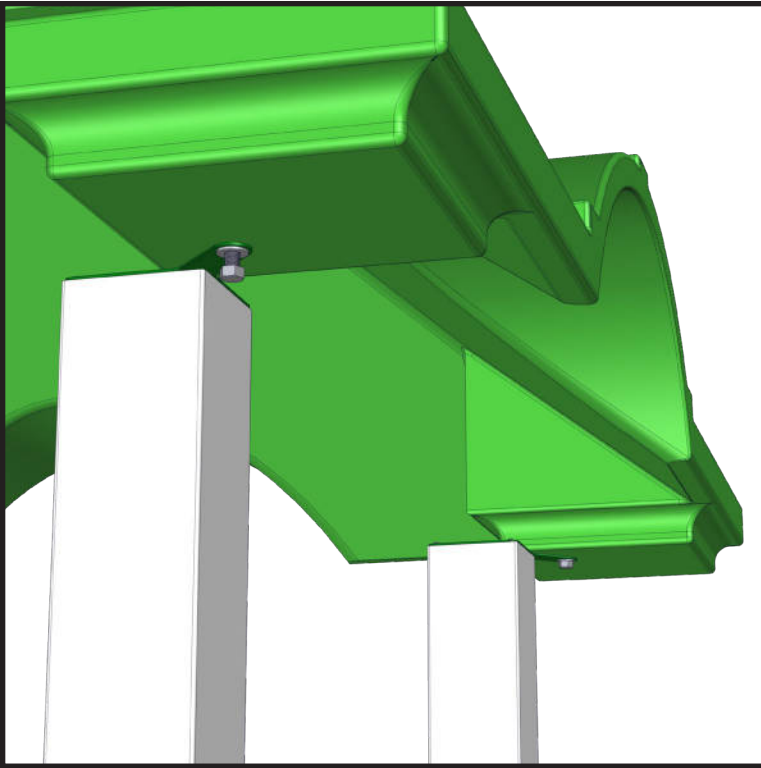
Step 2.

Place the mounting brackets on the 4x4 posts with the tabs facing out. Fasten them with three 3" square drive screws.



Step 3.

Place the roof on the 4x4's and center it both ways.



Step 4.
Fasten the roof to the bracket using 1 1/2" hex head lags.

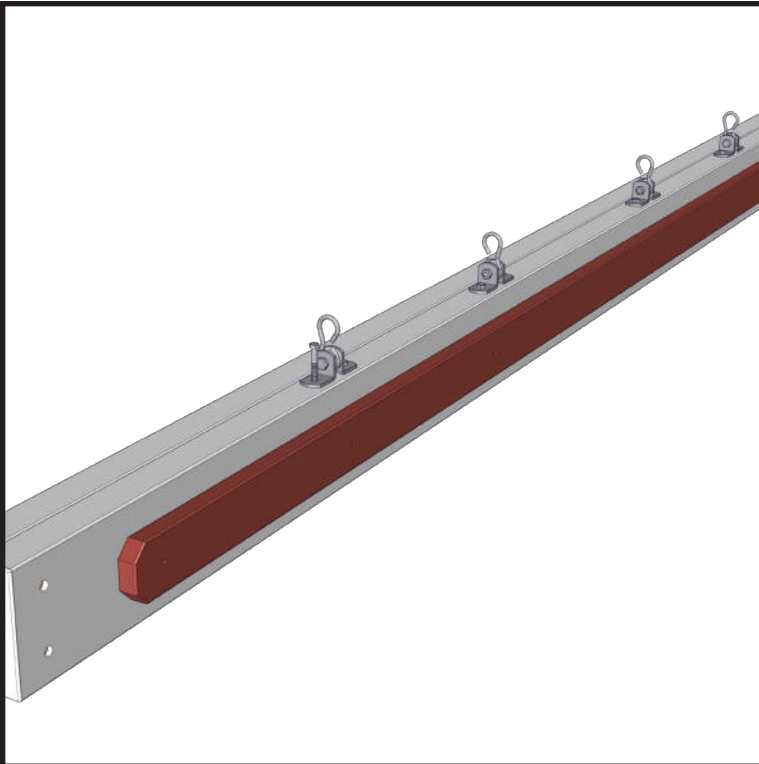


Finished Pyramid Roof.

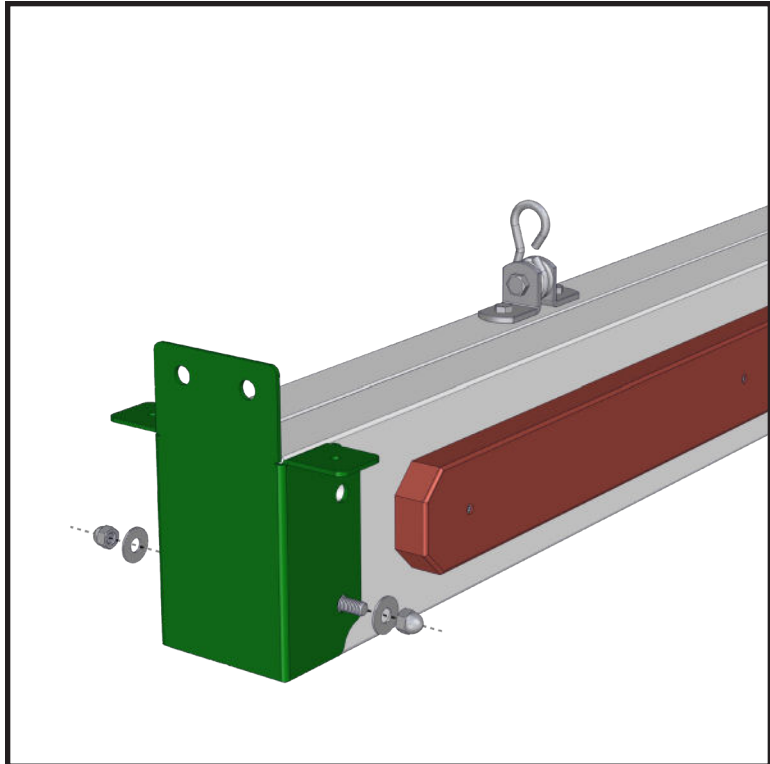
Swing Frame Assembly



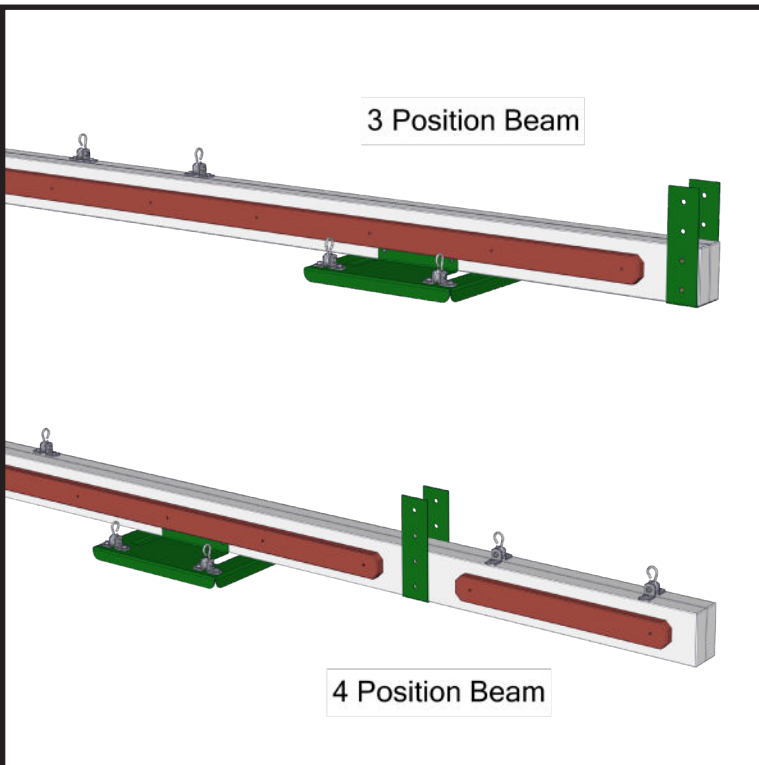
Step 1.
Start the swing frame assembly with the 2x6 swing beam.
One side is pre-drilled for the swing brackets, place the beam with the holes facing up.



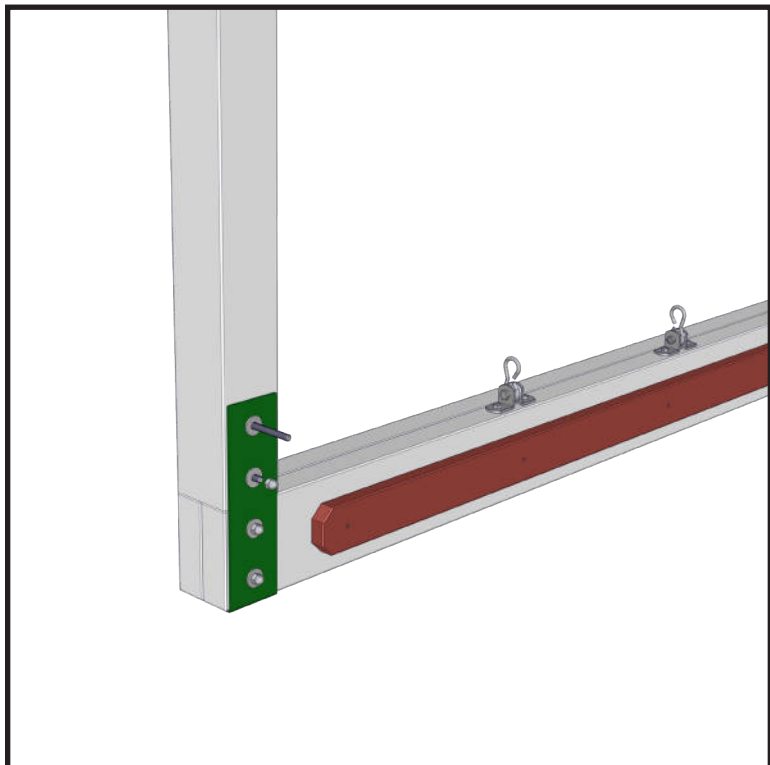
Step 2.
Fasten the swing bearings to the swing beam using the included lags.



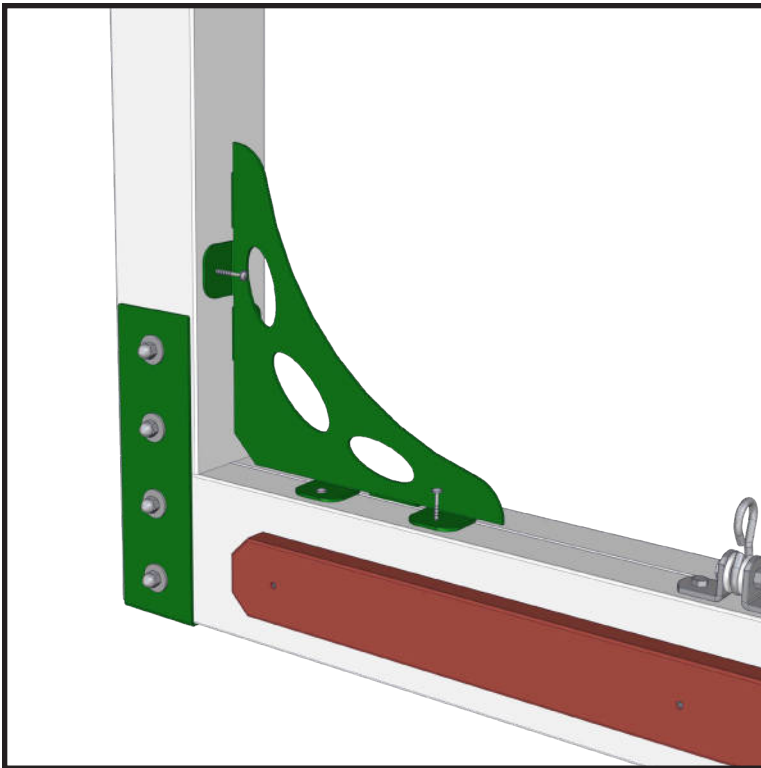
Step 3.
Locate the swing beam bracket and place it on the end of the swing beam.
Use two 4 7/8" threaded rods with washers and acorn nuts to fasten the bracket.



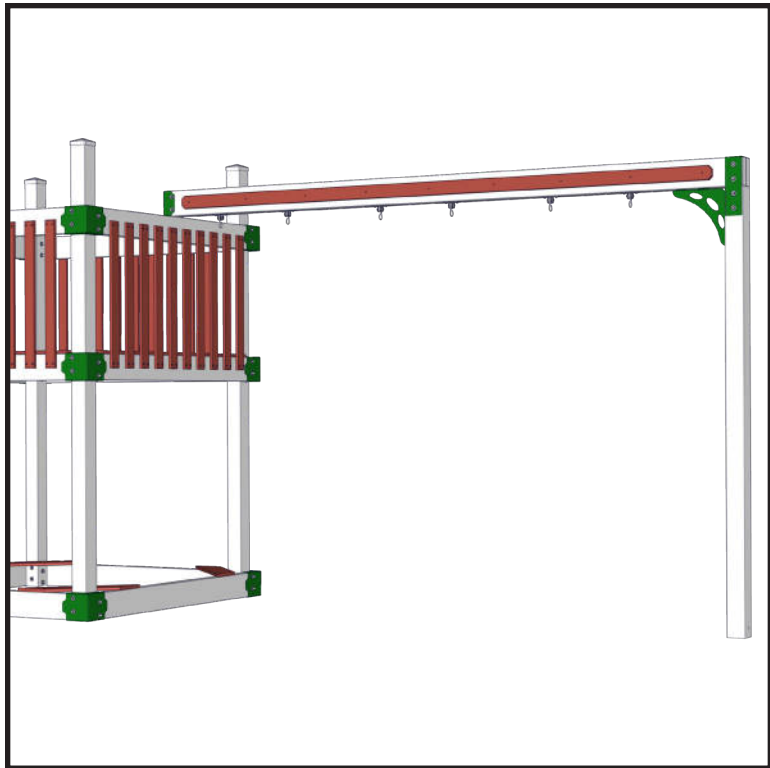
Step 4.
Locate the beam strap bracket and place it on the beam.
The illustration above shows where to place the bracket for the 3 position and 4 position swing beam.
Fasten the bracket with 4 7/8" threaded rods.



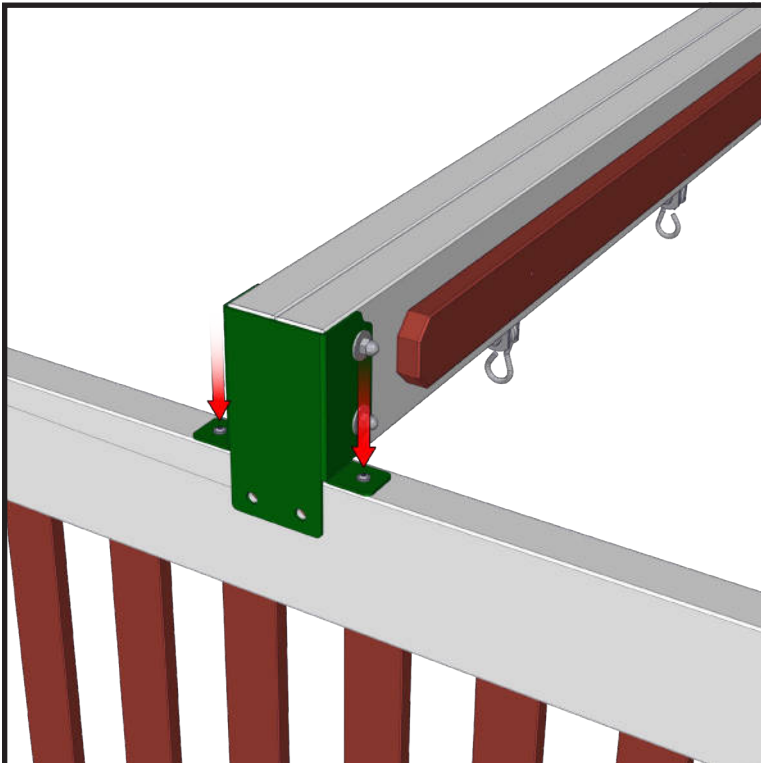
Step 5.
Find the 4x4 end post and place it in the beam strap.
Fasten the post with 4 7/8" threaded rods.
Make sure the post is square with the swing beam then tighten all the nuts.



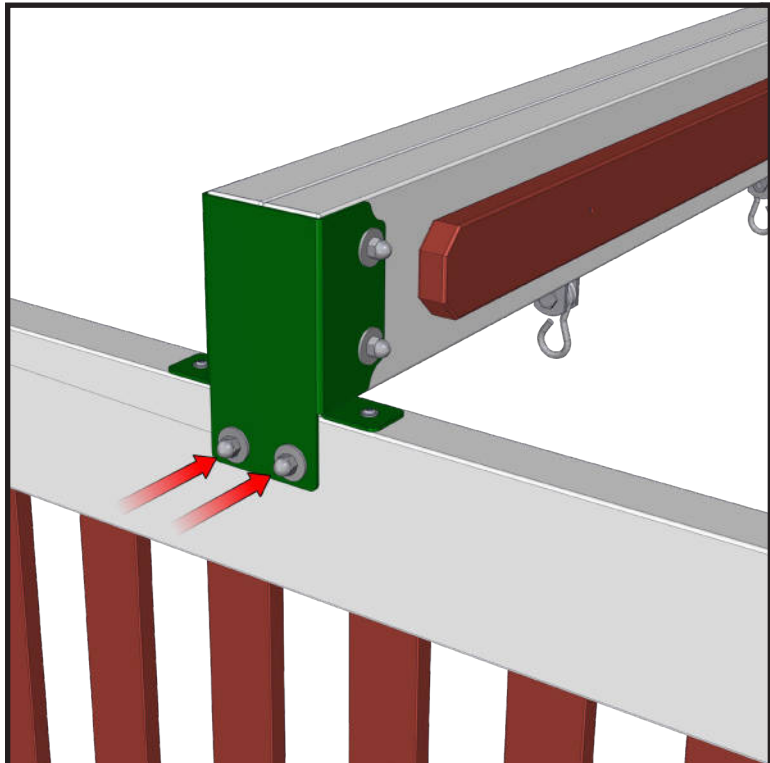
Step 6.
Attach the corner bracket to the swing beam and end post.
Fasten it with 1 $\frac{3}{4}$ " washer head screws.



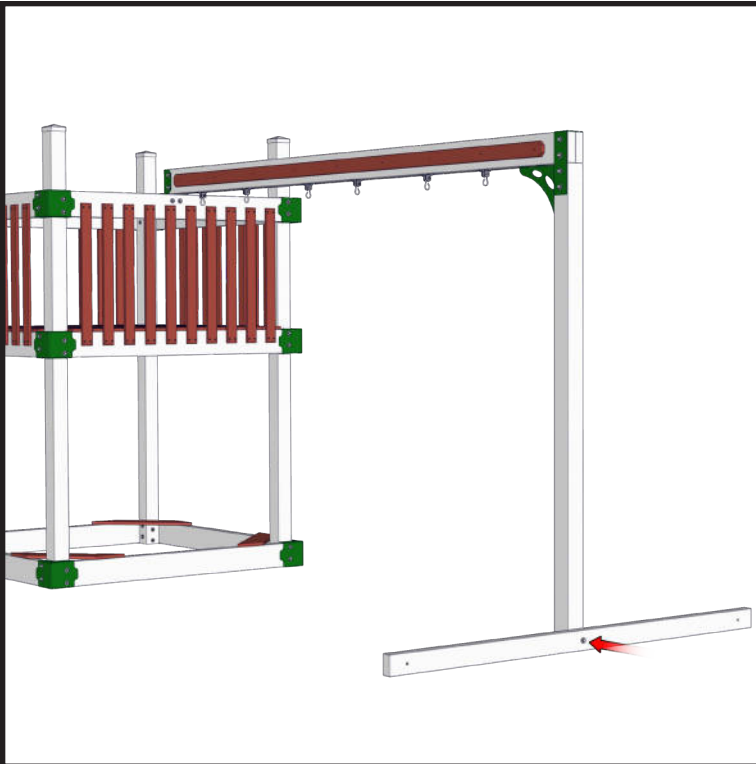
Step 7.
Lift the swing beam up into place on the tower.
Note: The 4x4 end post may need to be shortened depending on the ground. If the playset is on a perfectly level surface the post should be cut to 93".
Otherwise check the swing beam to see if it is level then trim the post accordingly.



Step 8.
Fasten the bracket to the 2x6 using 3" star head lags after placing it in position.

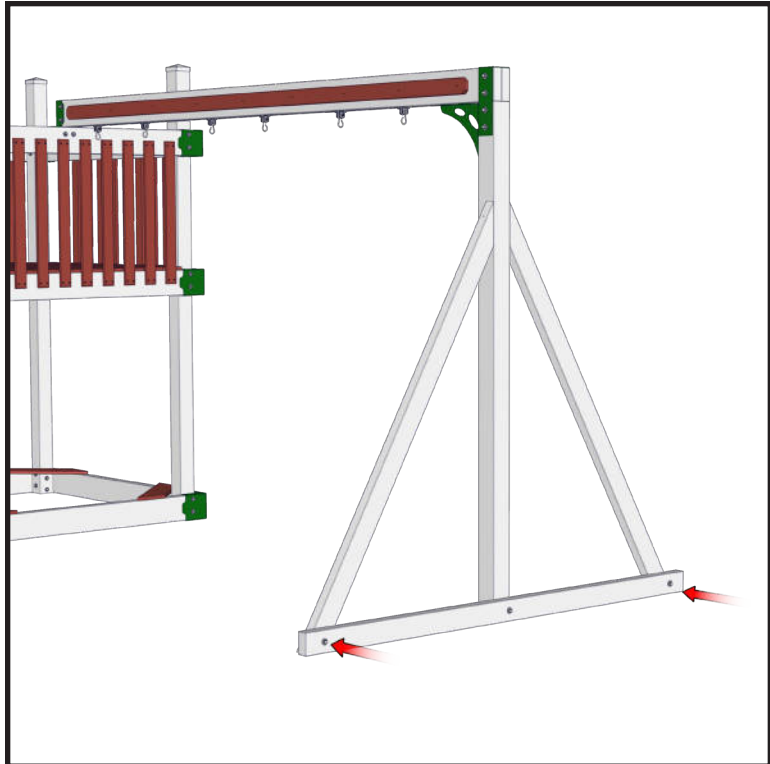


Step 9.
Next drill two $\frac{7}{16}$ " holes through the 2x6 then fasten the bracket with two 2 $\frac{3}{4}$ " threaded rods.



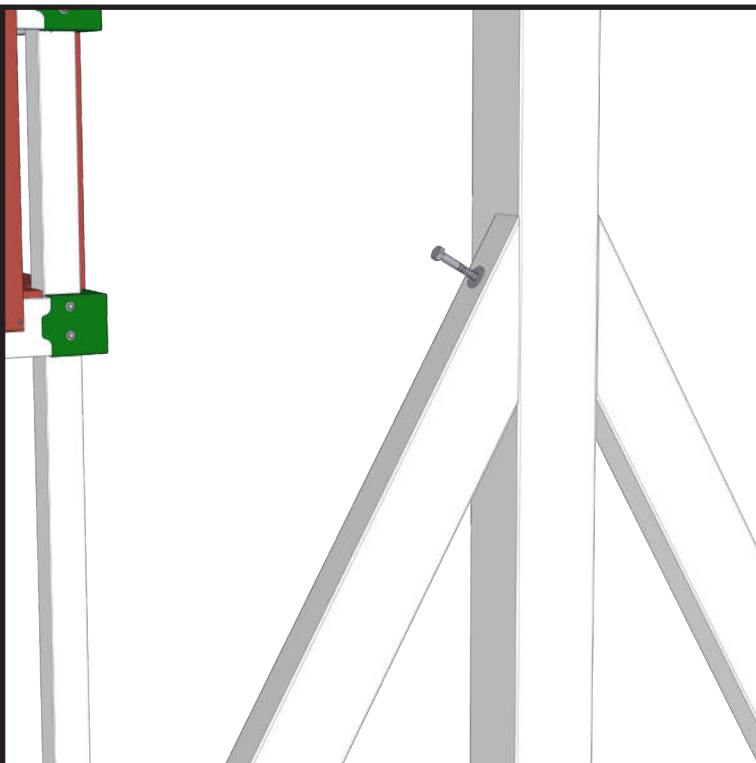
Step 10.

Find the ground runner 2x4 and fasten it to the end post using a 6 1/2" threaded rod, nut and washer. This hole will need to be drilled with a 7/16" drill bit.



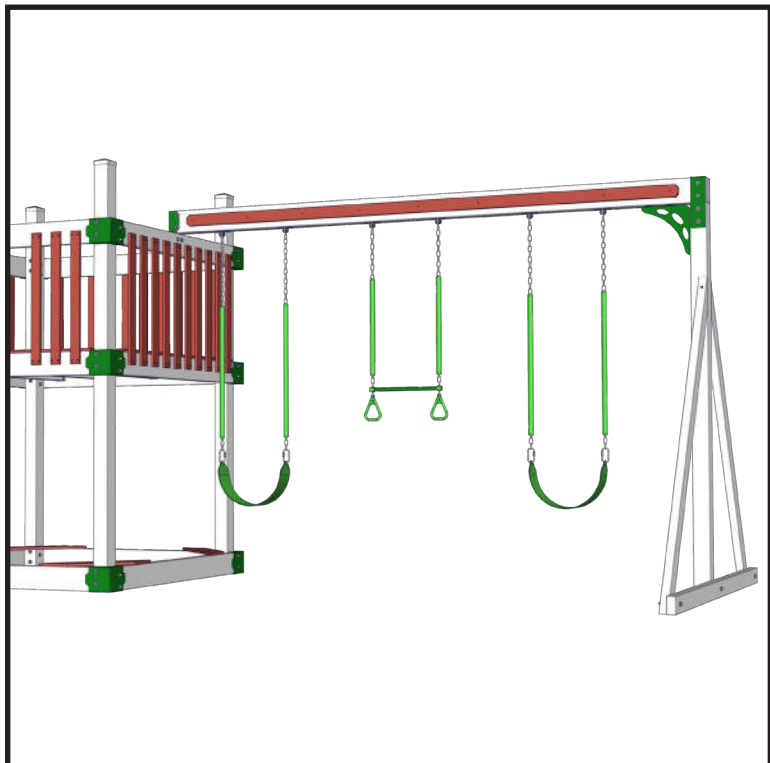
Step 11.

Place the 2x4 end braces in place and fasten the bottom ends to the ground 2x4. Use two 4 1/8" threaded rods to fasten them.



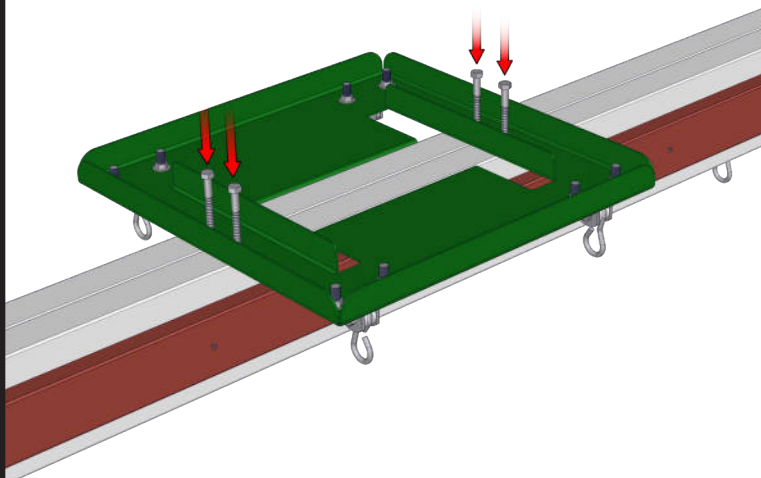
Step 12.

Fasten the top ends of the braces to the end post using 4" hex head lags. Pre-drill the holes first using a 1/4" drill bit.



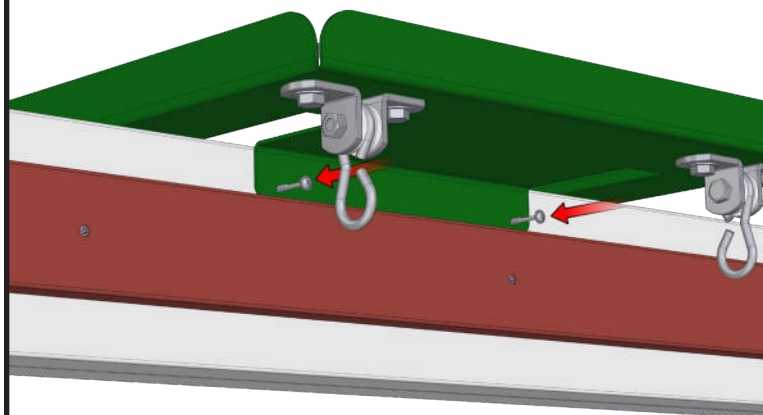
Step 13.

Install the swings to finish the swing frame assembly.



Note:

If your playset comes with a glider follow these steps for the installation.
Place the glider bracket in position then pre-drill four ¼" holes.
Fasten the bracket to the swing beam using the lags provided.



Glider Swing

Fasten the side tabs to the swing beam using 1 ¾" washer head screws to finish the bracket install.



Glider Swing

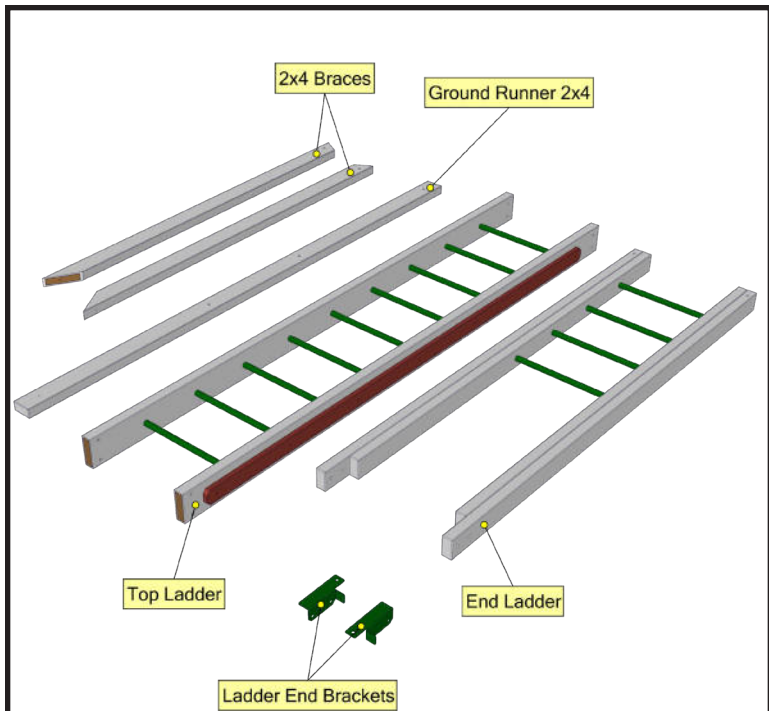
Assemble the glider pieces using the included hardware.
Make sure to not overtighten these bolts.



Glider Swing

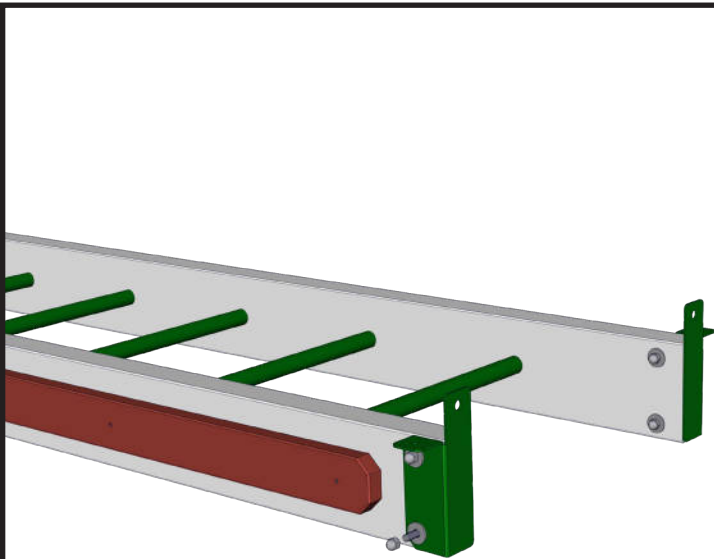
Install the glider swing on the glider bracket.

Climbing Set Assembly



Step 1.

Locate these parts to begin the climbing set assembly.



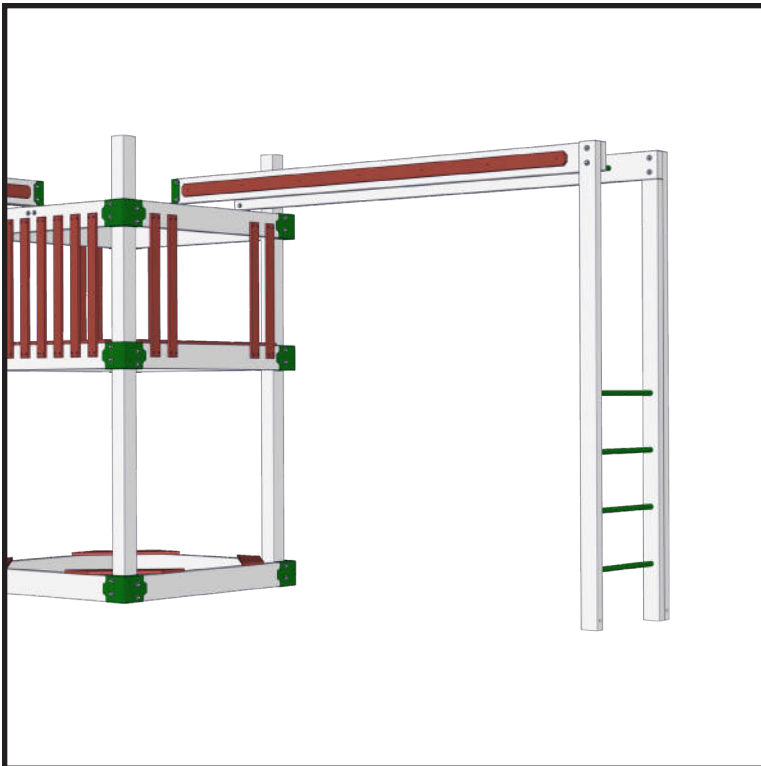
Step 2.

Install the ladder end brackets on the end of the top ladder. Fasten them with 2 $\frac{5}{8}$ " threaded rod, washers and acorn nuts.

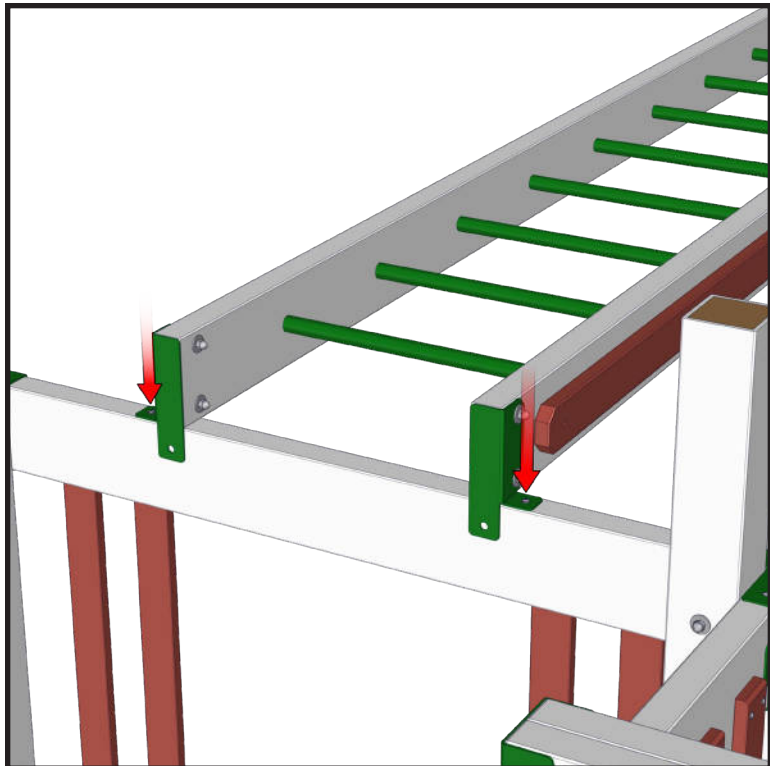


Step 3.

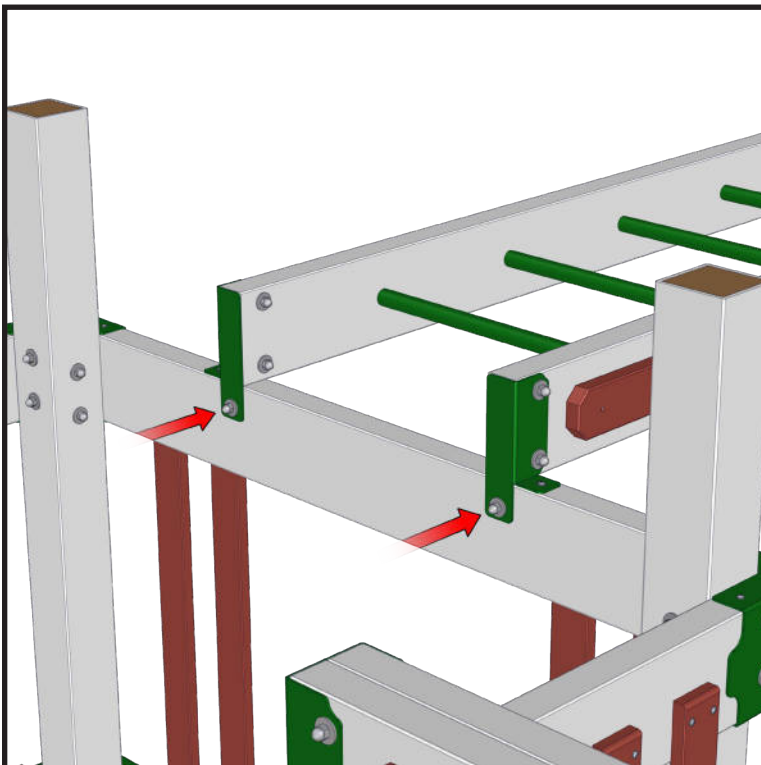
Place the end ladder in position as shown and fasten it with 4 $\frac{1}{8}$ " threaded rods.



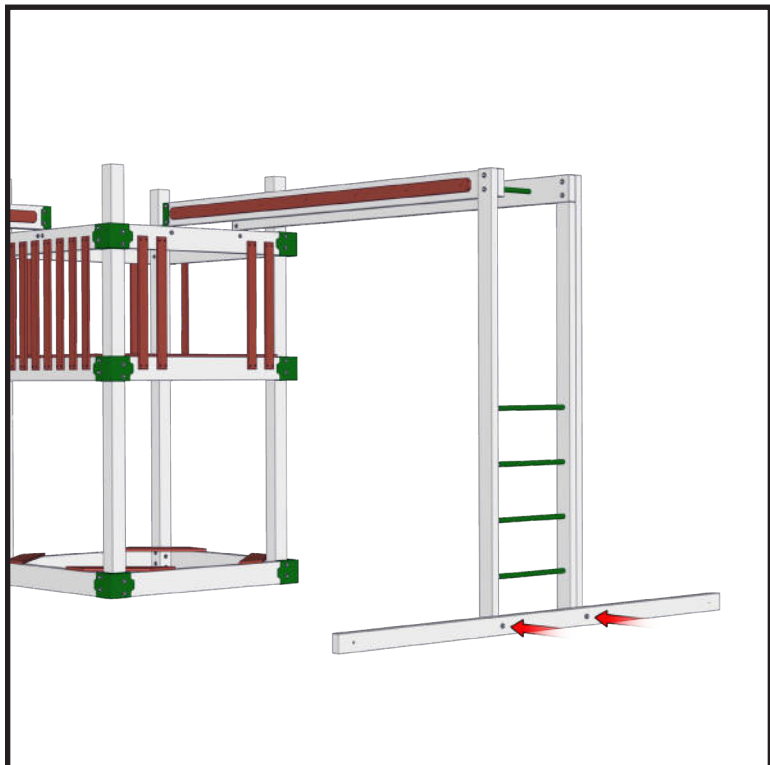
Step 4.
Flip the climbing set over and place it in position on the platform.



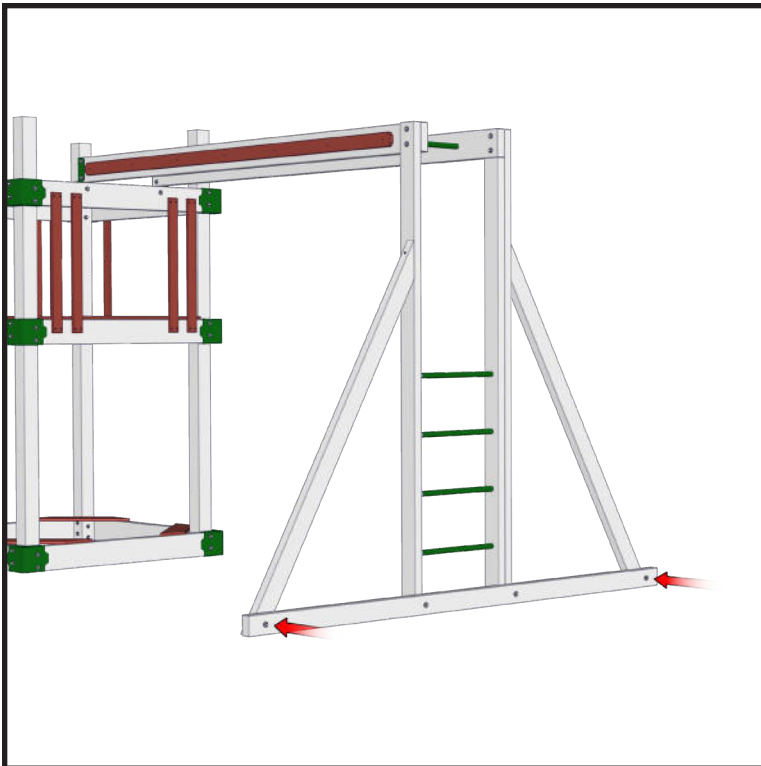
Step 5.
Fasten the side tabs on the end brackets using 3" star head lags.



Step 6.
Next pre-drill two $\frac{7}{16}$ " holes through the 2x6 railing then fasten the brackets using two 2 $\frac{5}{8}$ " threaded rods.

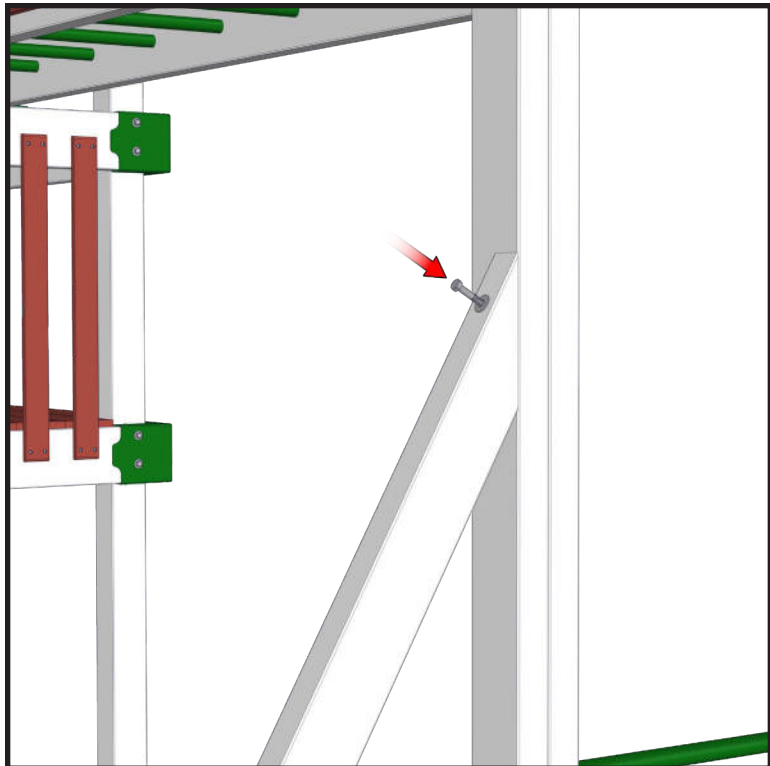


Step 7.
Place the ground runner 2x4 in place and fasten it with two 6 $\frac{1}{8}$ " threaded rods.



Step 8.

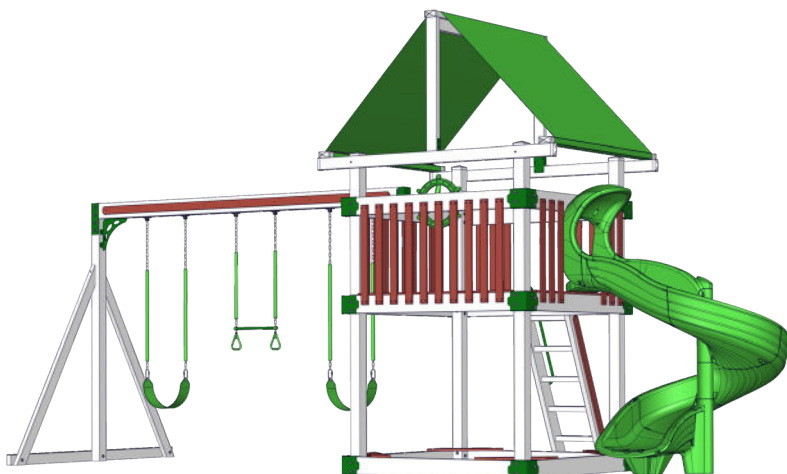
Locate the 2x4 side braces and install them as shown. Fasten the bottom ends to the ground runner 2x4 using two 4 1/8" threaded rods.



Step 9.

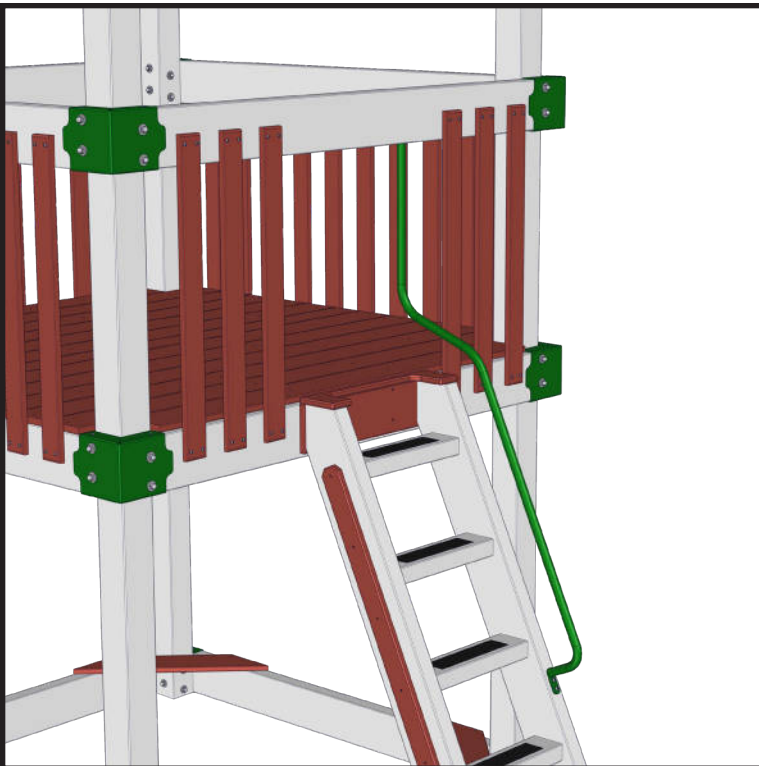
Fasten the top of the braces using 4" hex head lags. These holes may have to be pre-drilled with a 1/4" bit.

Accessories



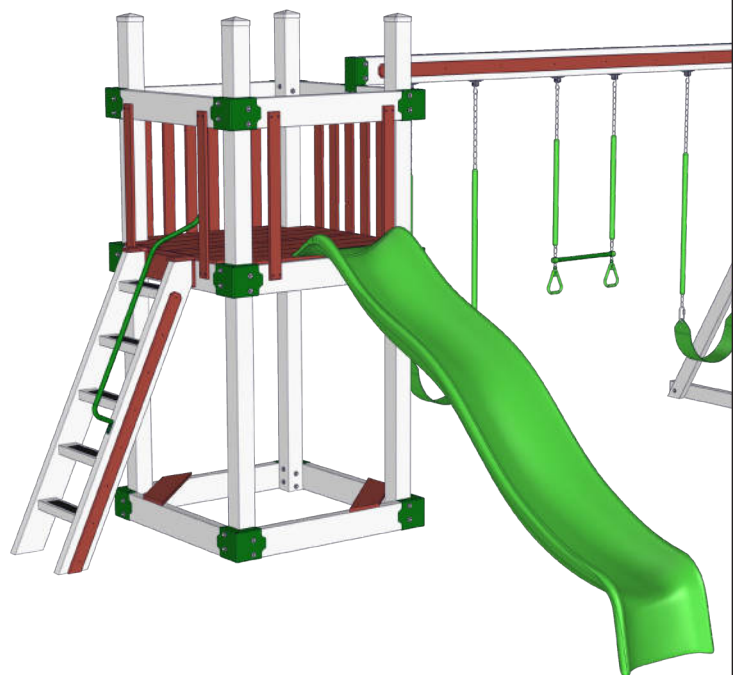
5ft Ladder & Rock Wall

Place the ladder or rock wall in a empty spot on the tower then fasten the top to the tower using 1 1/2" poly screws.



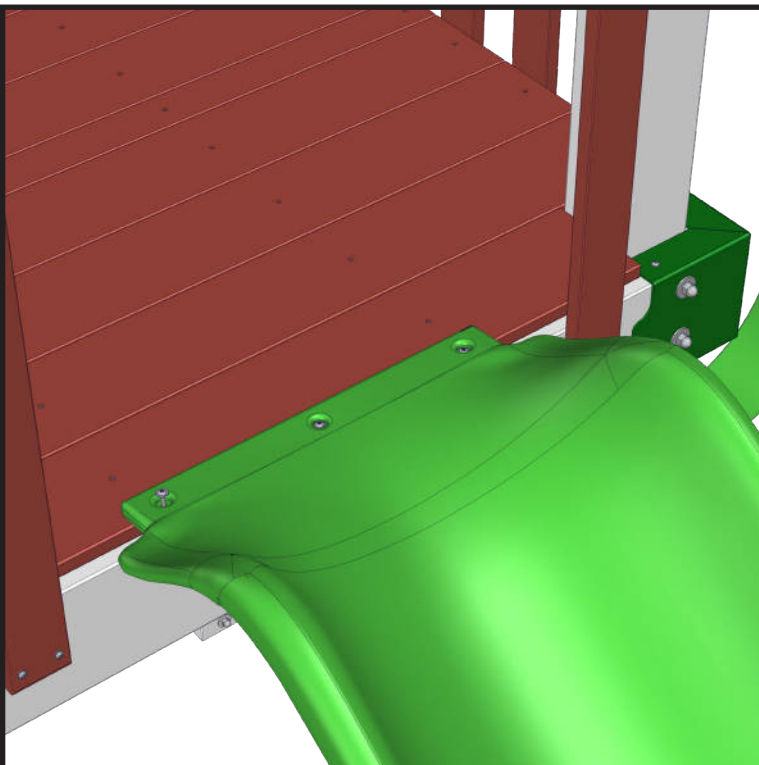
Ladder Handrail

Place the handrail on the ladder and fasten it to the ladder and 2x6 railing using 1 1/2" wafer head lags.



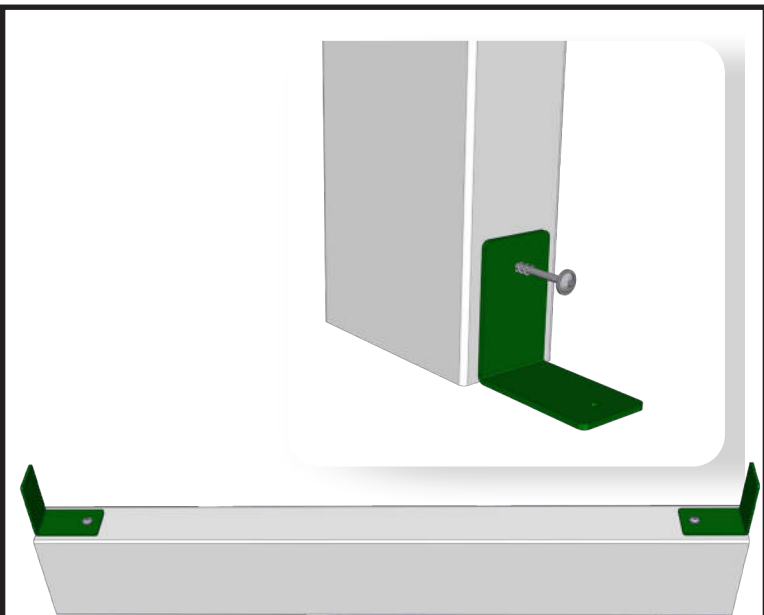
Wonder Wave Slide

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



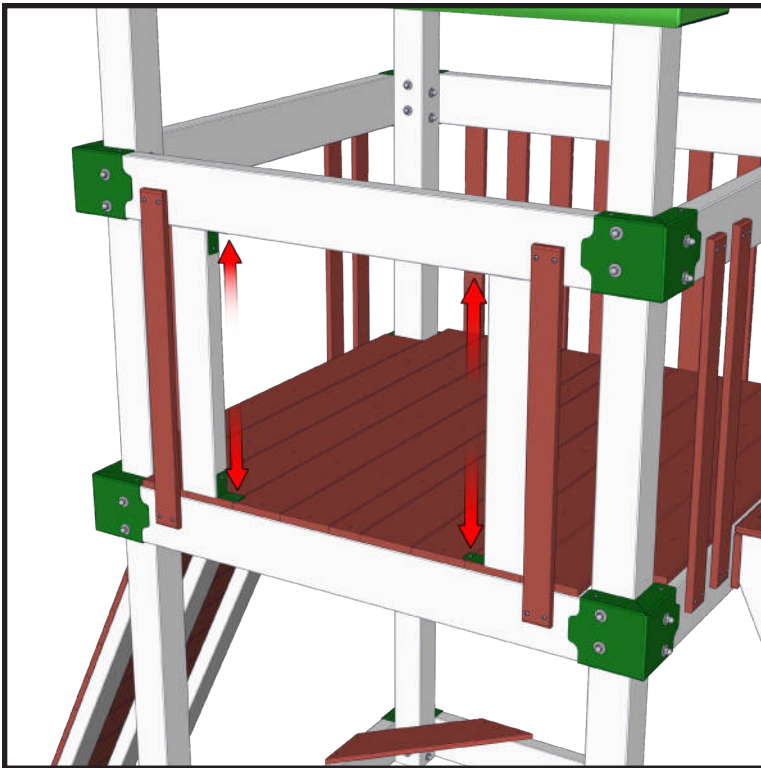
Wonder Wave Slide

Fasten the slide with three 1 1/2" wafer head lags. Make sure the lags go into the 2x6 below and not just the floorboards.



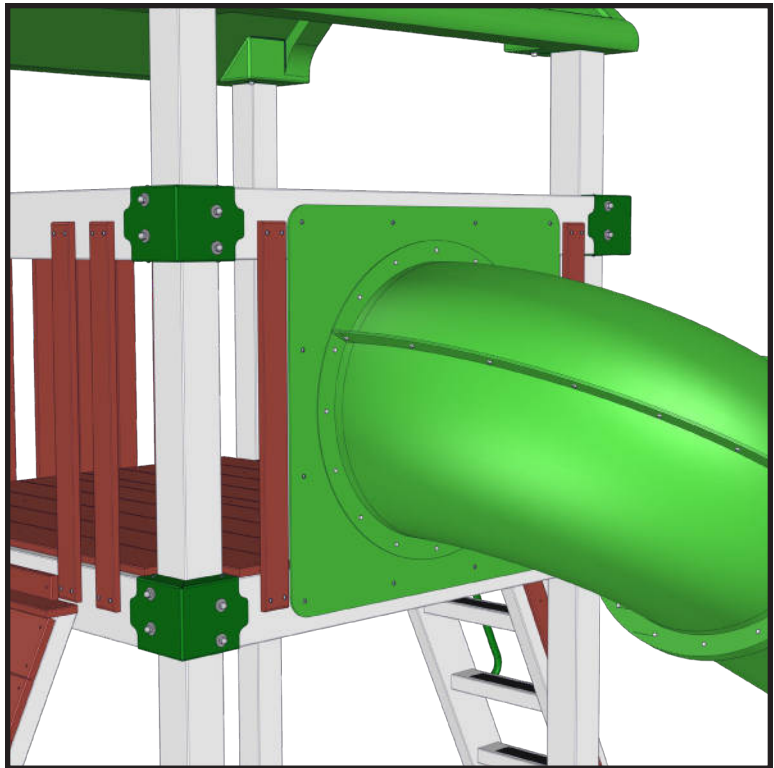
Framing for Bubble Panel and Sidewinder Slide

Find the 26" 2x4's and small angle brackets. Fasten the brackets to the end of the 2x4's with 1 3/4" washer head screws.



Framing for Bubble Panel and Sidewinder Slide

Fasten the 2x4's to the platform using the same screws.
Measure the panel width to determine the 2x4 spacing.



Sidewinder Slide

Assemble the sidewinder slide using the assembly manual included with the slide.
Place the slide in position on the tower then fasten it with 1 3/4" washer head screws.



Finished Slide



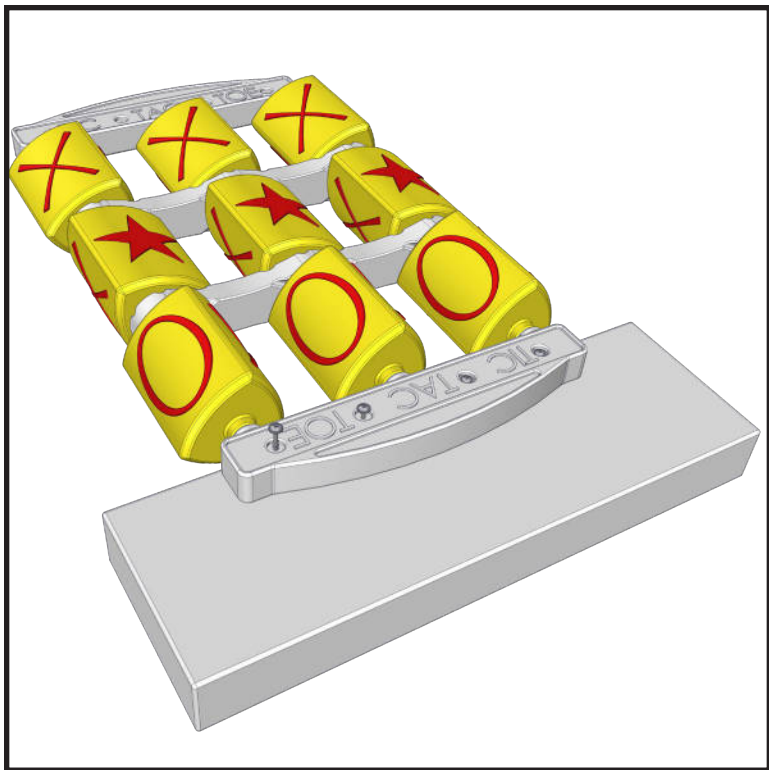
Tire Swing

The tire swing gets mounted on a double 2x4.
Attach the mounting base using the provided lags.



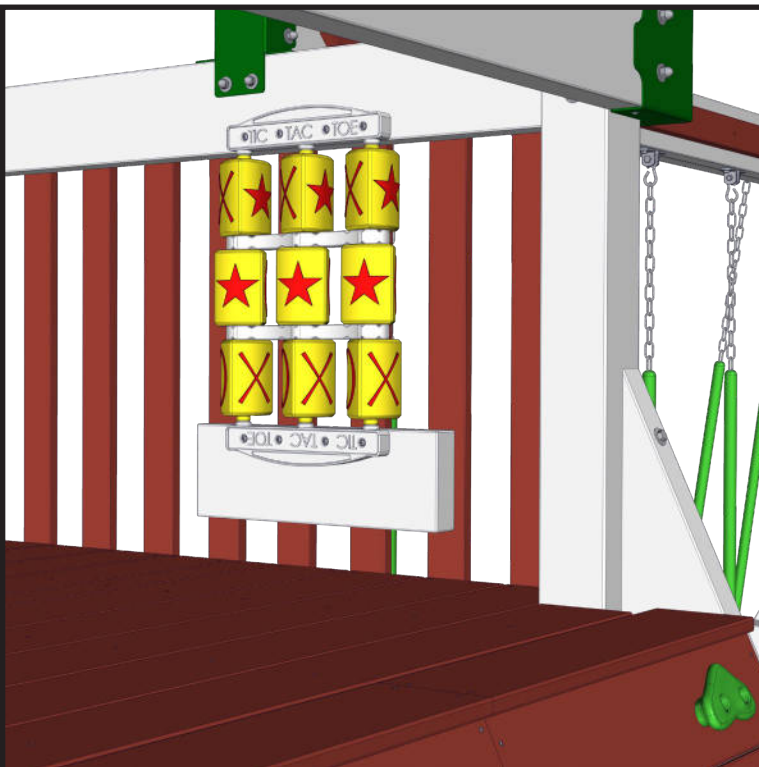
Tire Swing

Attach the chains to the mounting base to finish the tire swing.



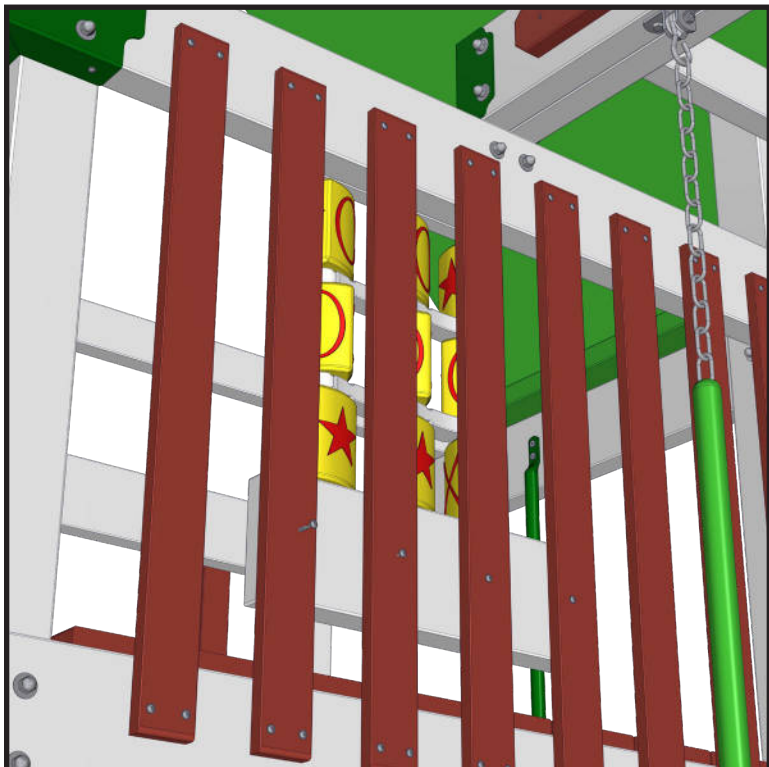
Tic Tac Toe Panel

The tic tac toe panel comes with a $18\frac{1}{2}$ " 2x6. Fasten one end of the panel to the 2x6 using four $1\frac{3}{4}$ " washer head screws.



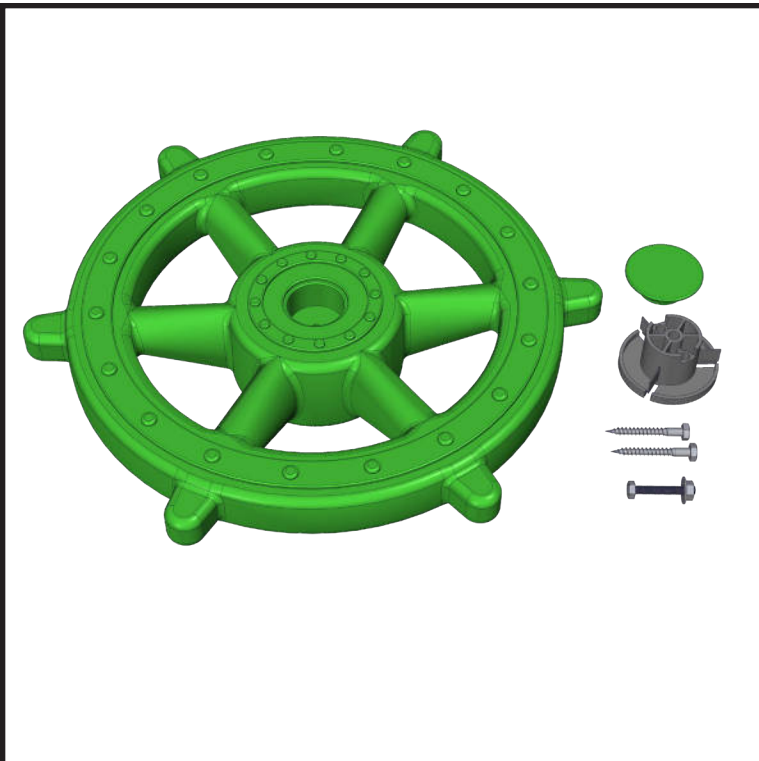
Tic Tac Toe Panel

Place the panel at your desired location in the tower then fasten the other end of the panel to the 2x6 railing. Use four $1\frac{3}{4}$ " washer head screws to fasten it.



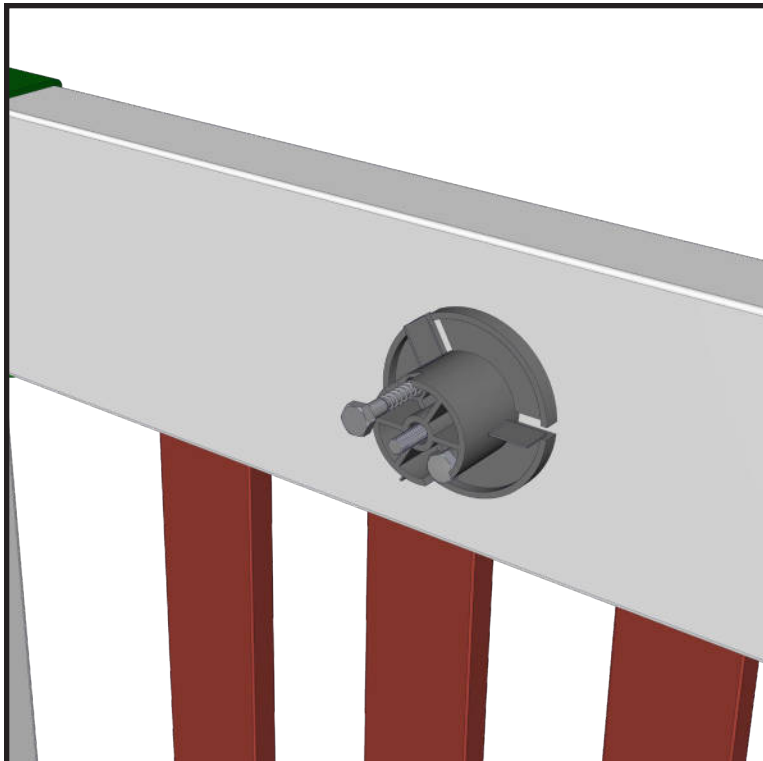
Tic Tac Toe Panel

Finish the tic tac toe panel by fastening the 2x6 to the poly slats using the same screws as the last step.



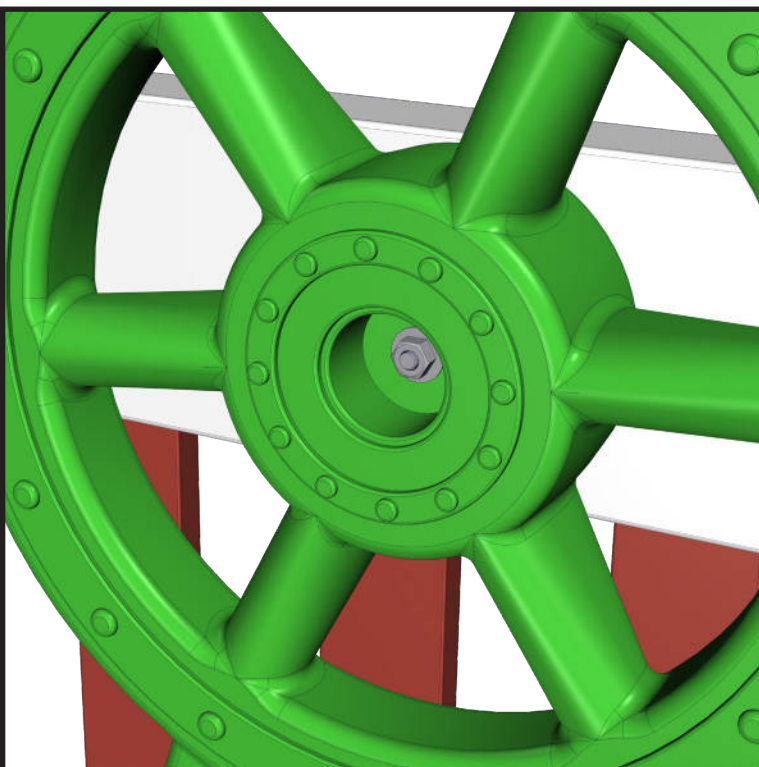
Ships Wheel

The ships wheel comes with a mounting base, a cover, two lags and a bolt.



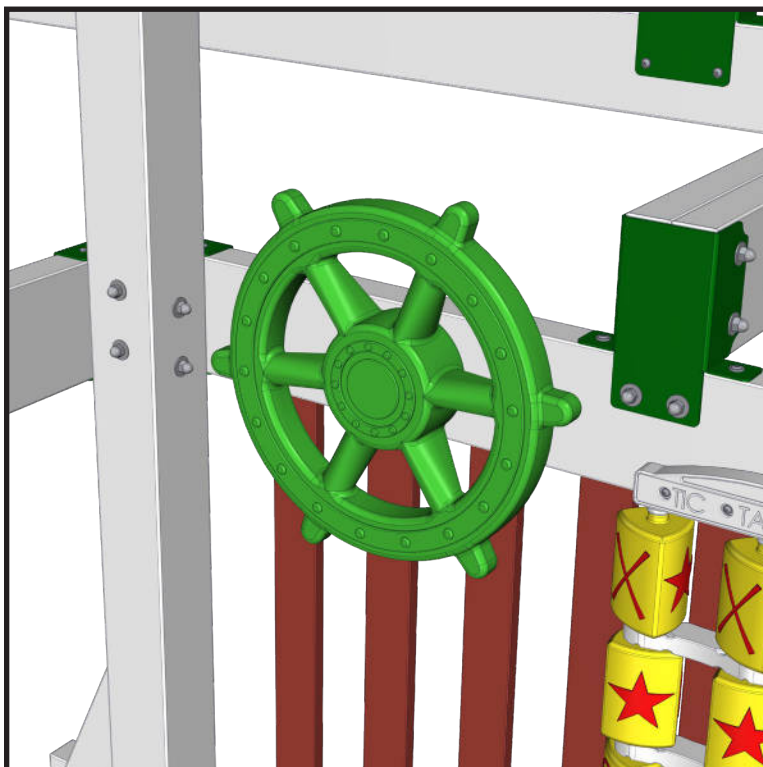
Ships Wheel

First insert the bolt into the base then fasten the base to the 2x6 railing using the two lags.



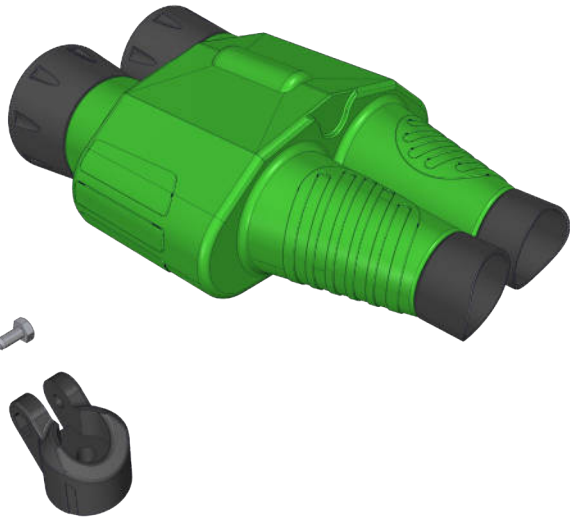
Ships Wheel

Place the ships wheel over the mounting base and fasten it with the included nut and washer.



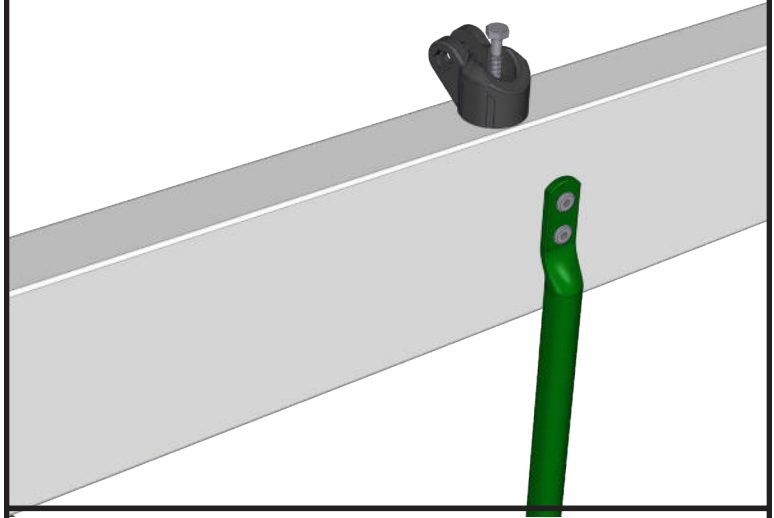
Ships Wheel

Install the cover to finish the ships wheel.



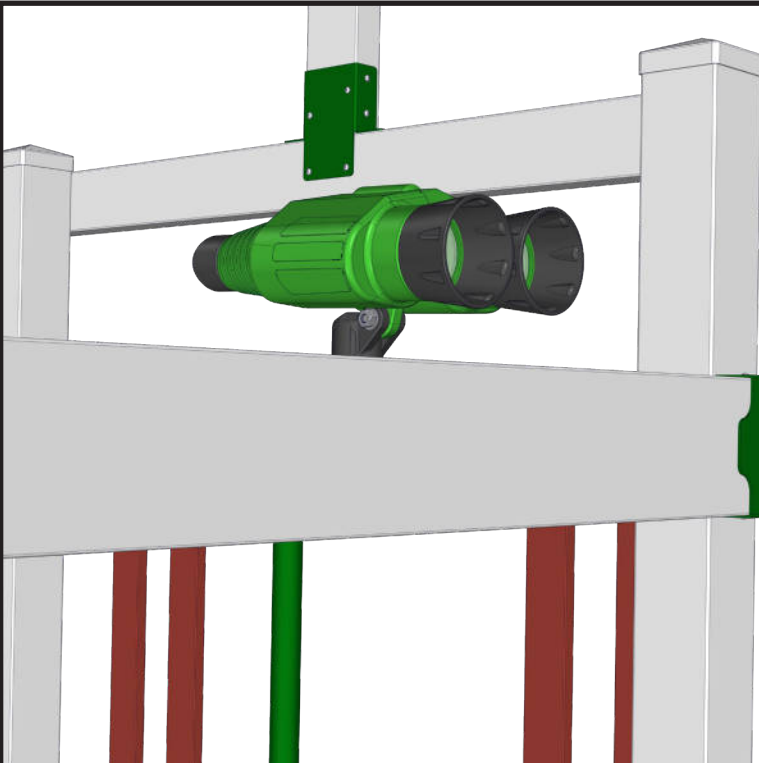
Binoculars

The binoculars comes with a mounting base, a bolt and a lag. Note: The Binoculars, Telescope, Megaphone and Spotlight all have the same mounting base and are installed in the same way.



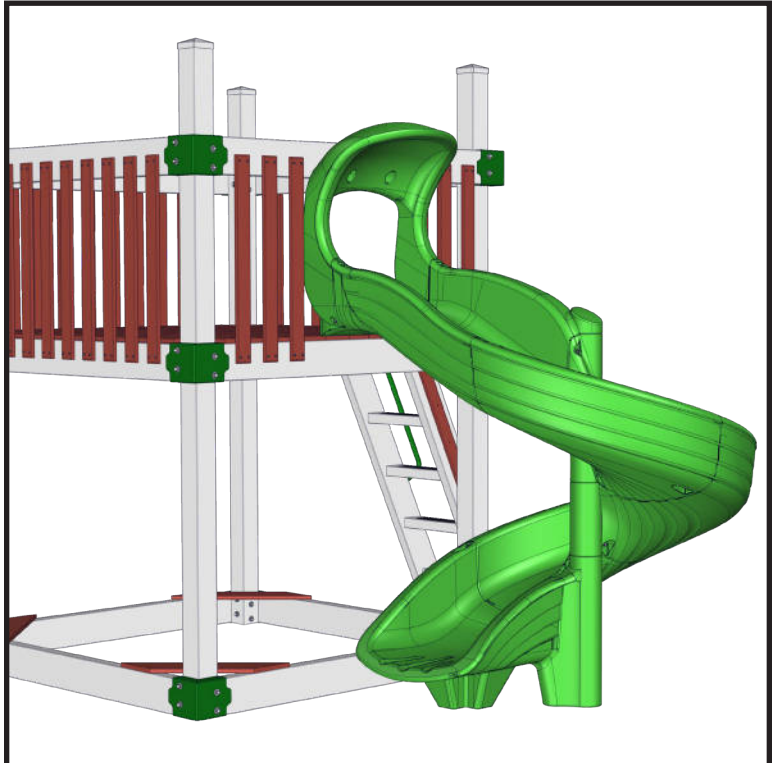
Binoculars

Use the lag to mount the binocular base to the 2x6 railing.



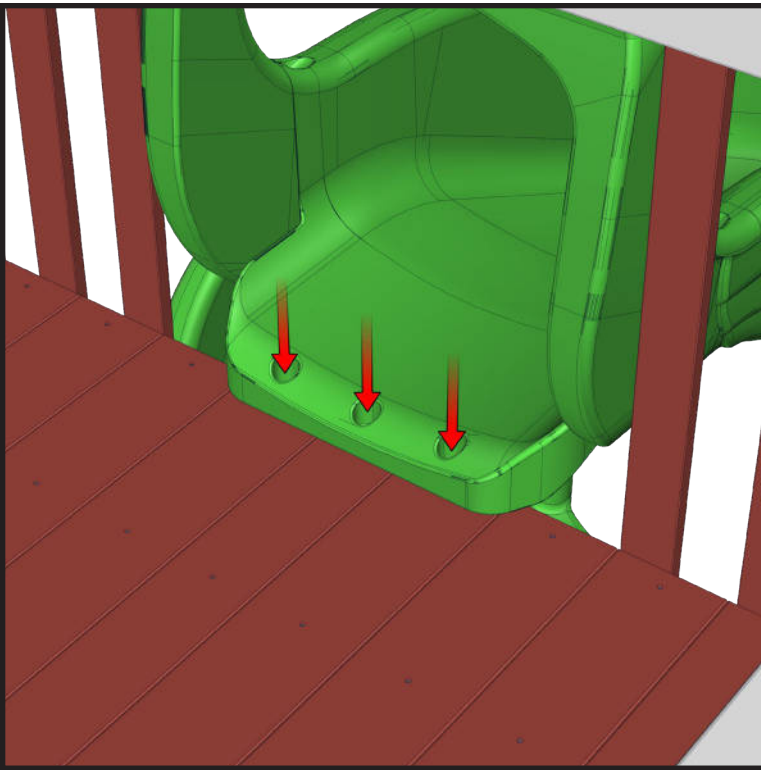
Binoculars

Attach the binoculars to the base using the bolt.



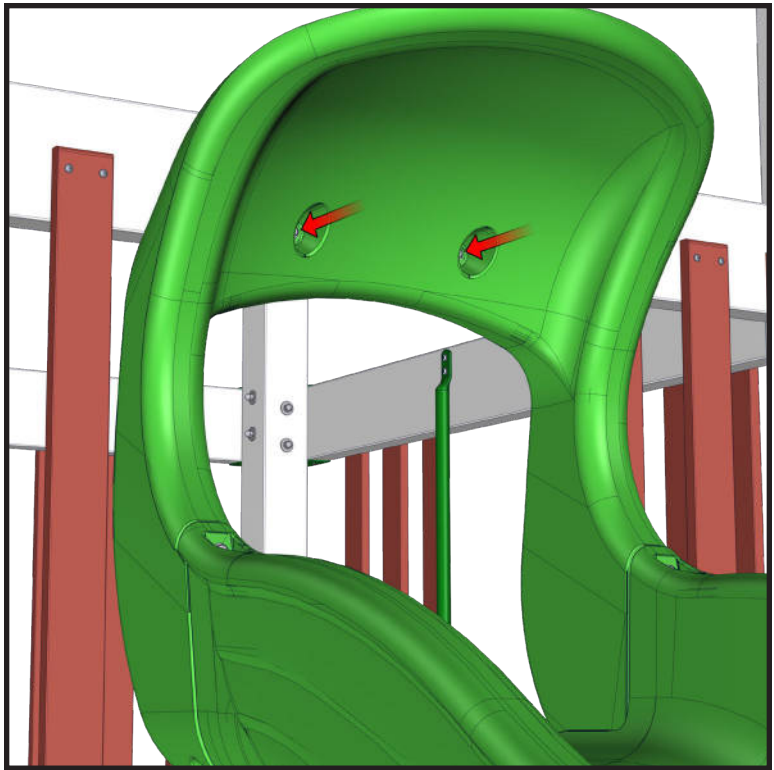
Super Spiral Slide

Assemble the slide according to the slide assembly manual. Then place the slide in a open spot on the tower.



Super Spiral Slide

Use the included lags to fasten it to the floor 2x6.



Super Spiral Slide

Using the same lags as the previous step fasten the top of the slide to the railing 2x6.



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.