

Denali 5x10 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	
Parts	Quantity
128" 4x4 Post	4
108" 4x4 Post	2
114" 2x6	2
62" 2x6	4
56" 2x6	13
56" 2x4 Joists	6
Floorboards	22
2x6 Corner Bracket	16
Poly Slats	

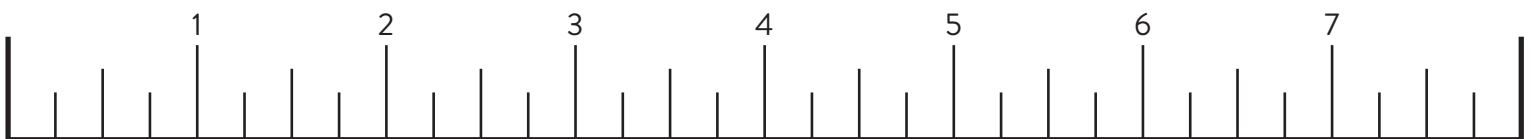
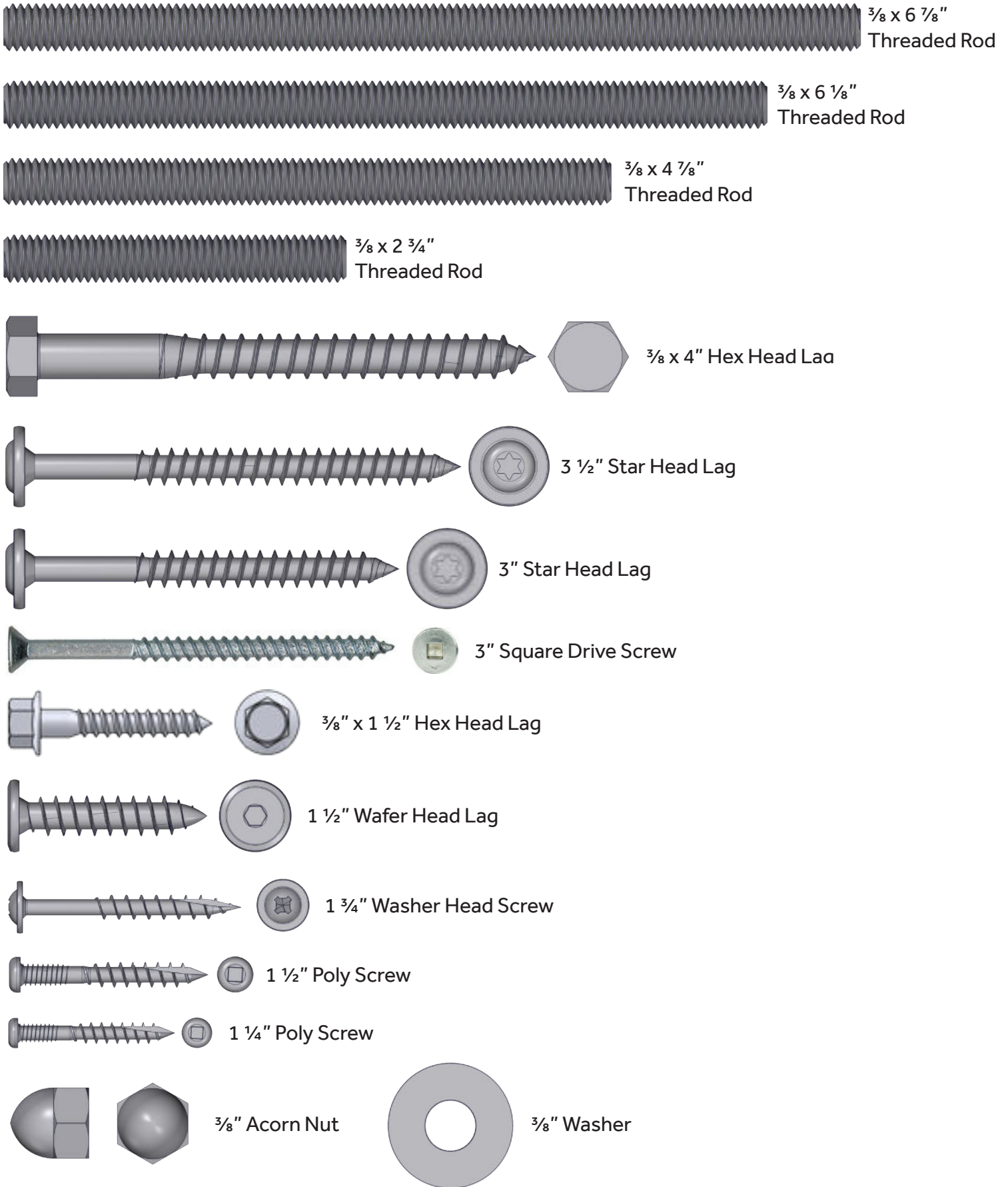
Gable/Pyramid Roof	
Plastic Roof	1
Mounting Brackets	4
Square Drive Screws	12
Hex Head Lags	4

Tarp Roof	
80" 2x4	3
61" 2x4	5
37" 2x4	3
16" 2x4	2
58 1/2" 2x4	1
2x4 Roof Brackets	3
2x4 Support Brackets	2
Tarp Roof	2

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

Swing Frame	
Beam Strap Bracket	1
Corner Bracket	1
End Bracket	1
Swing Bearings	
12' or 14' 2x6 Swing Beam	1
A-frame for 5' Deck	
108" 4x4 End Post	1
93" 2x4 Ground Runner	1
87" 2x4 Braces	2
A-frame for 7' Deck	
128" 4x4 End Post	1
117" 2x4 Ground Runner	1
110 5/8" 2x4 Braces	2

HARDWARE





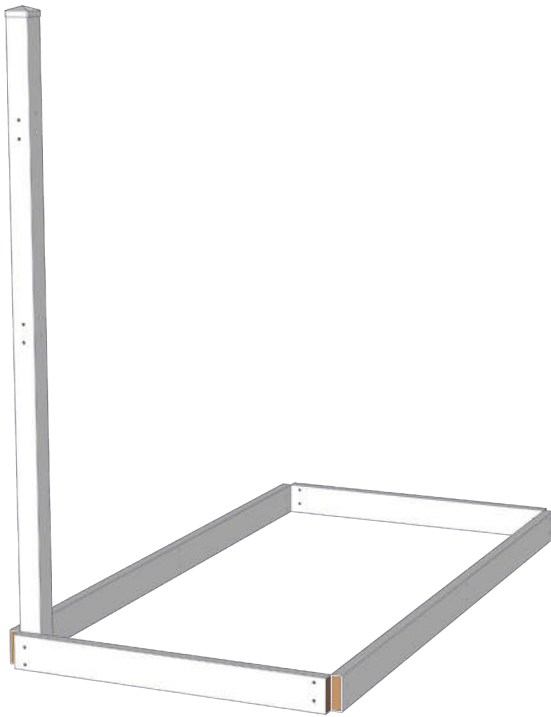
Note:

All the pieces for the main structure have numbers on them. Always check the numbers to ensure each piece goes in the correct location.



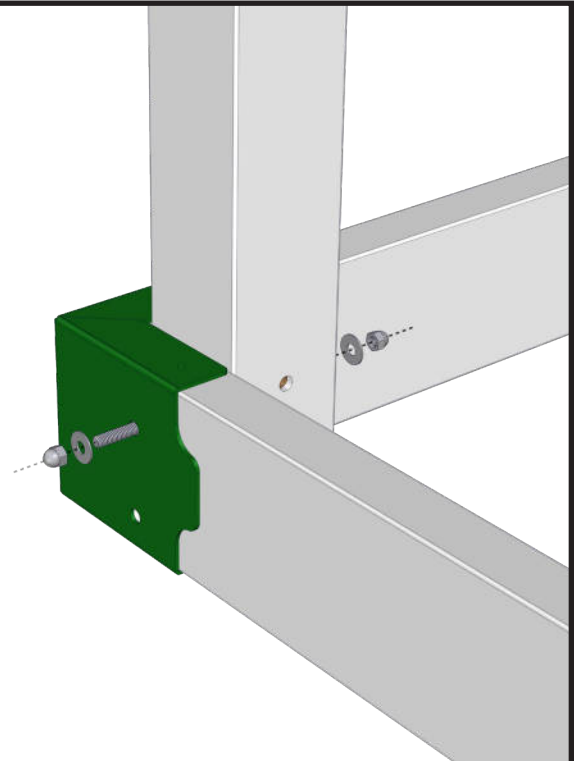
Step 1.

Locate two 56" 2x6's and two 114" 2x6's. These are marked "1" through "10". Lay them out as shown and make sure the numbers are matching.



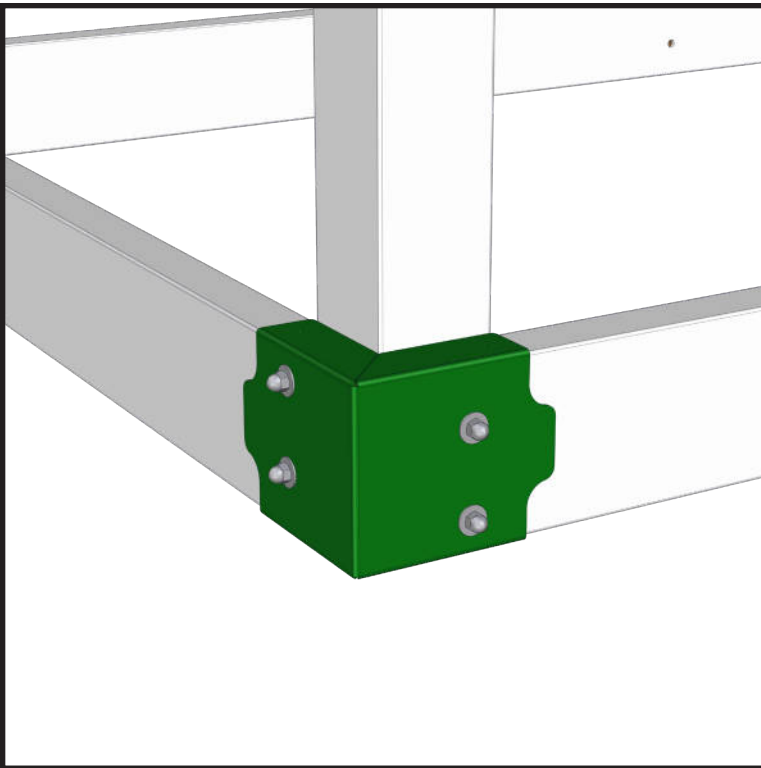
Step 2.

Locate a 4x4 with the numbers "1" and "2". Place it in the corner that has the corresponding numbers.

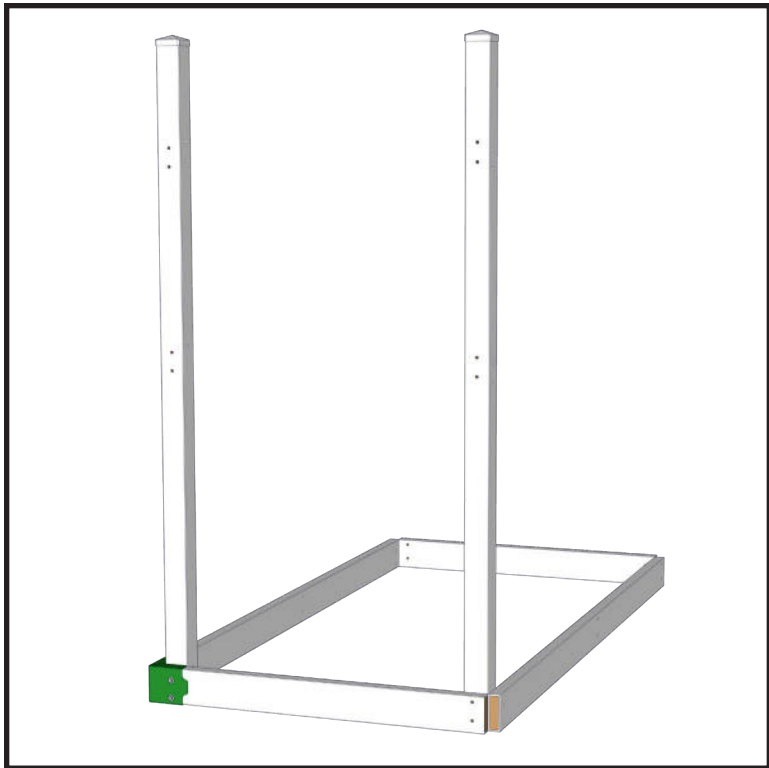


Step 3.

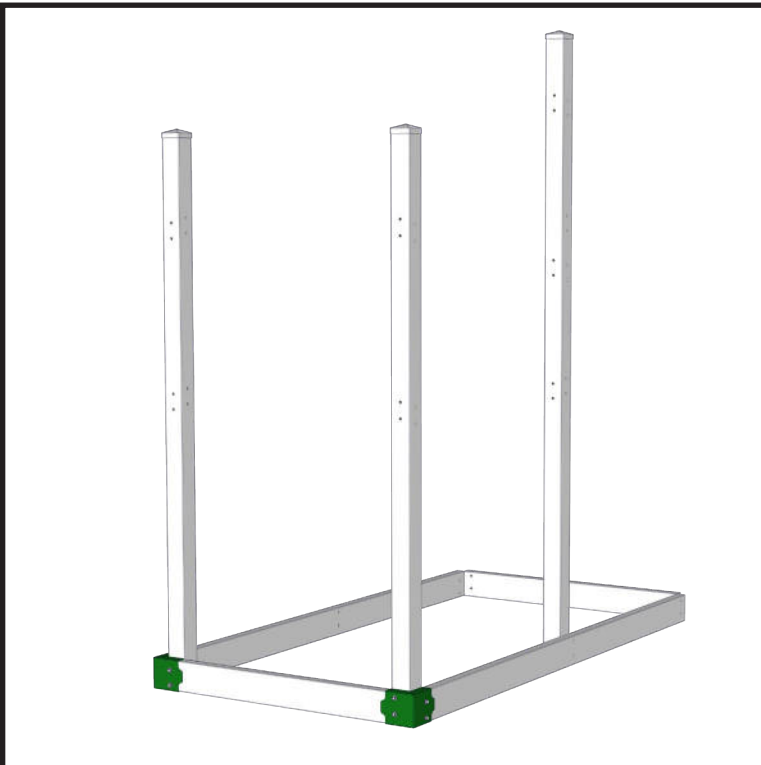
Place a 2x6 corner bracket on the corner then insert a 6 $\frac{7}{8}$ " threaded rod. Fasten the threaded rod using a $\frac{3}{8}$ " washer and $\frac{3}{8}$ " acorn nut on each end. Only finger tighten these at this point.



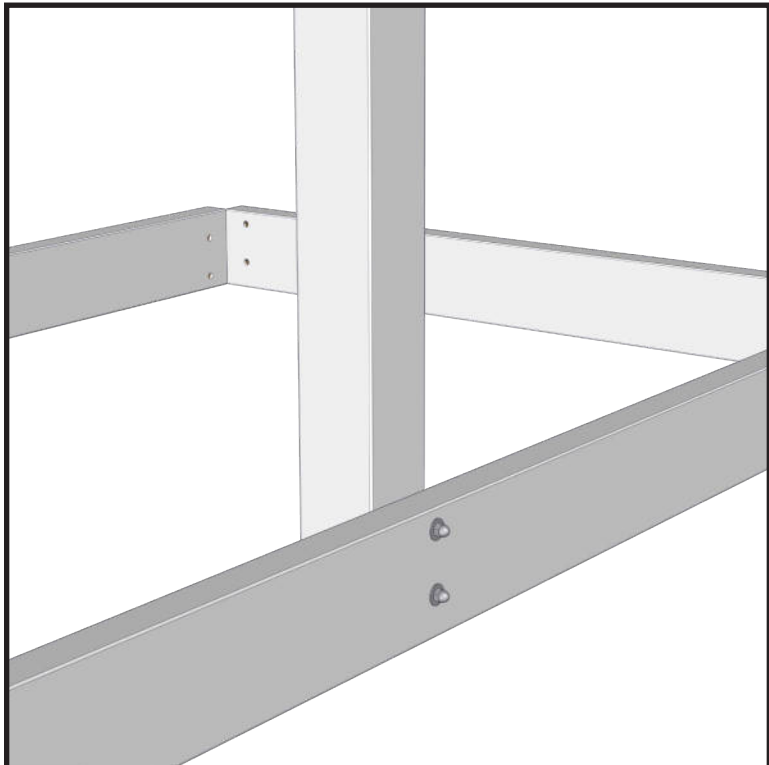
Step 4.
Repeat the last step to finish fastening the bracket.



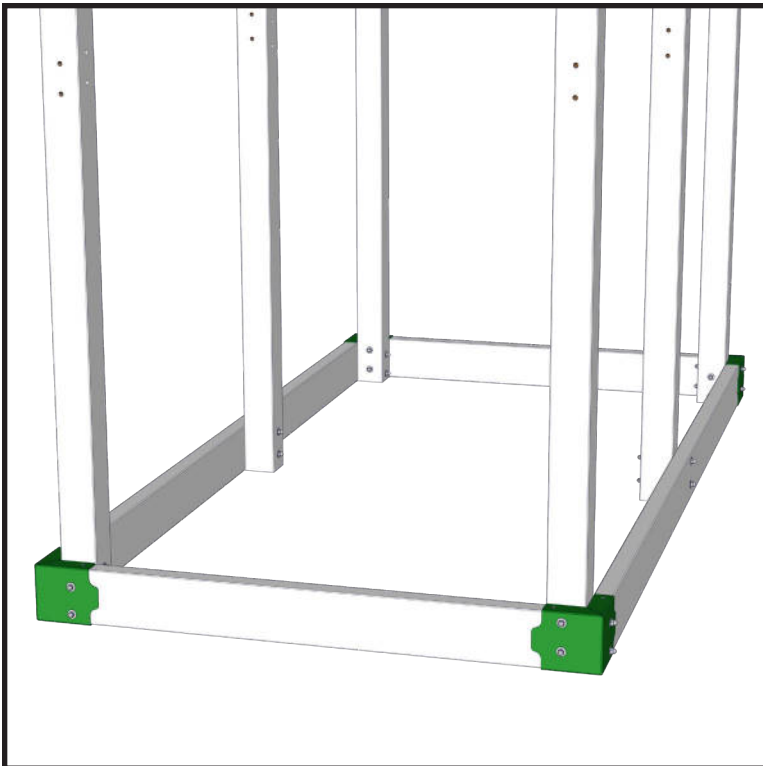
Step 5.
Locate the next 4x4 and place it by the pre-drilled holes with the matching number.



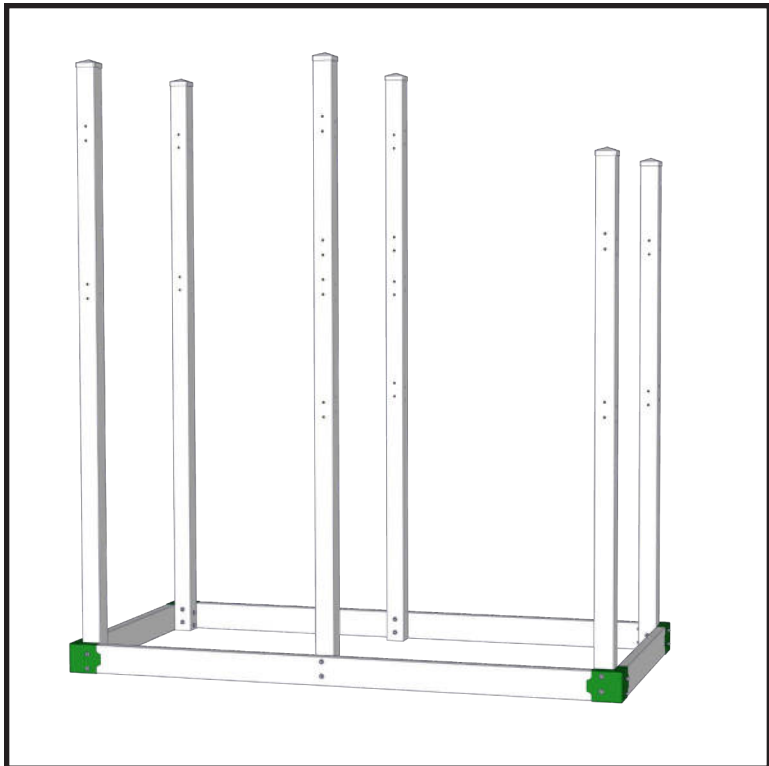
Step 6.
Continue installing the 4x4 posts following the numbered sequence.



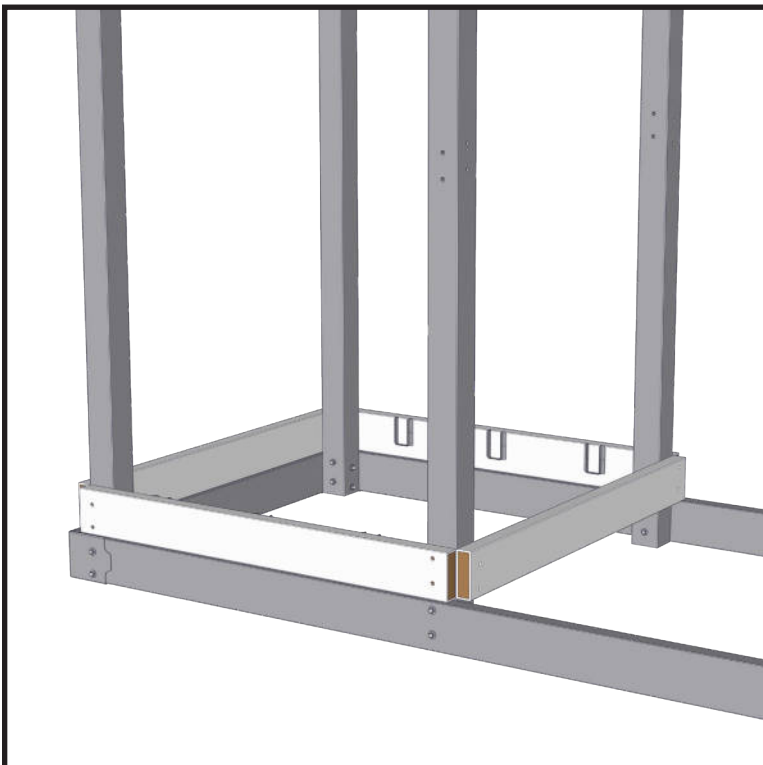
Step 7.
The center 4x4's get fastened using the same 6 7/8" threaded rods but no corner brackets.



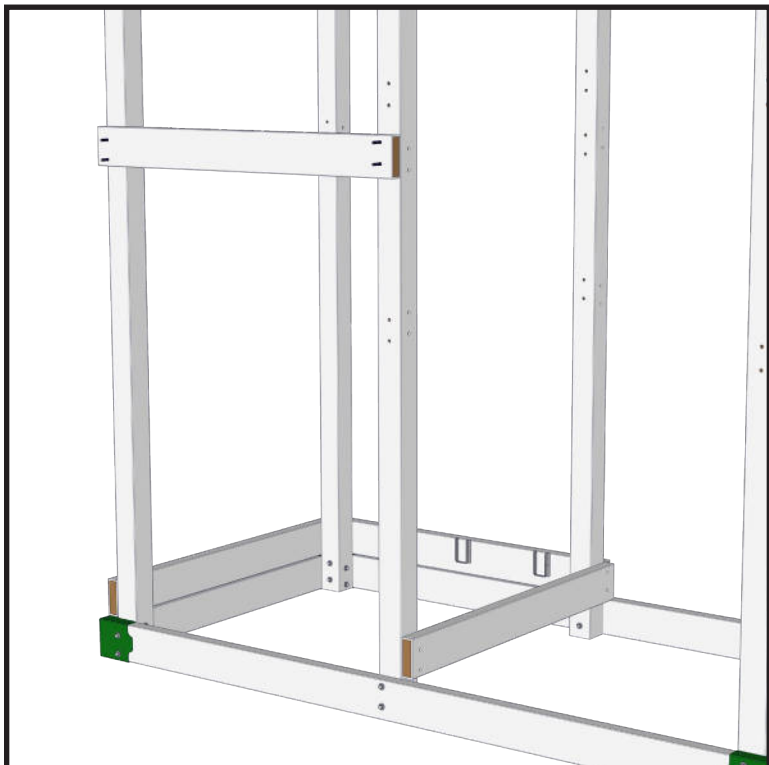
Step 8.
Finished posts with brackets.



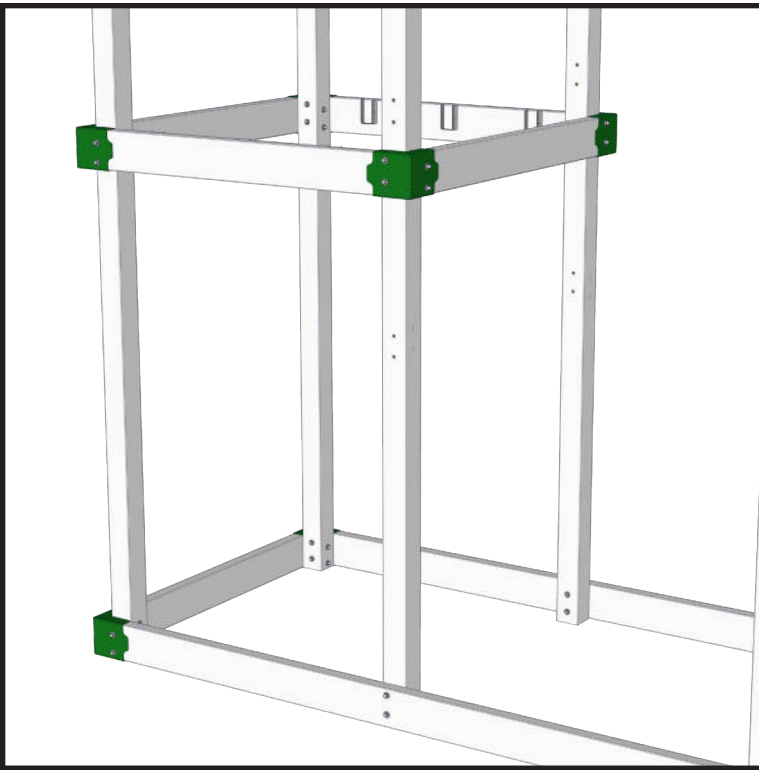
Step 9.
Your tower should match the illustration at this point.
Notice the two shorter 4x4 posts in the front.



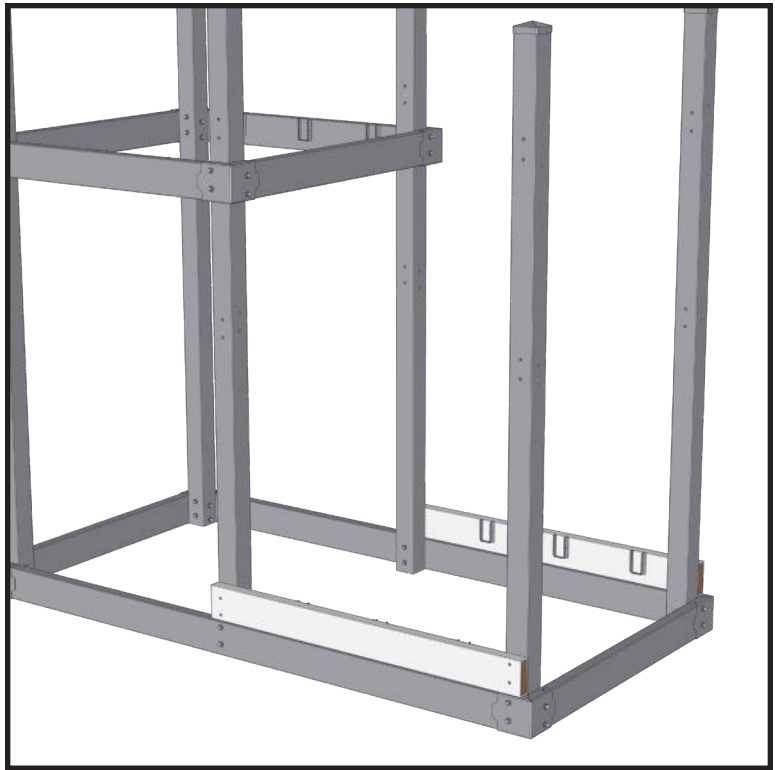
Step 10.
Place four 56" 2x6's around the 114" 4x4 posts.
The two outside 2x6's have joist hangers attached.



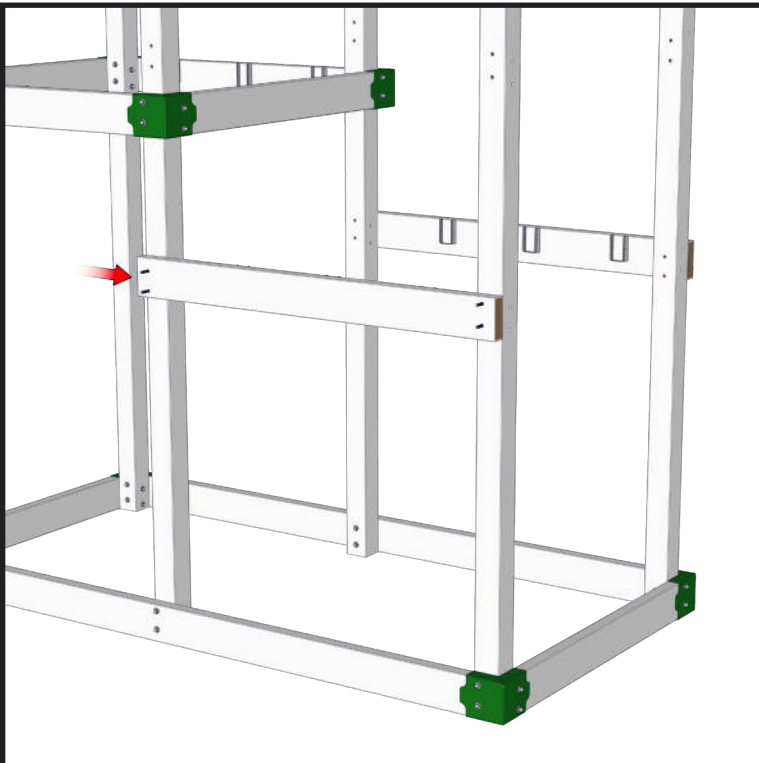
Step 11.
Start placing the 2x6's into position then use 6 7/8" threaded rods to hold them in place.



Step 12.
Once all the 2x6's are in position place a 2x6 corner bracket on each corner and fasten them using the $\frac{3}{8}$ " washers and $\frac{3}{8}$ " acorn nuts.

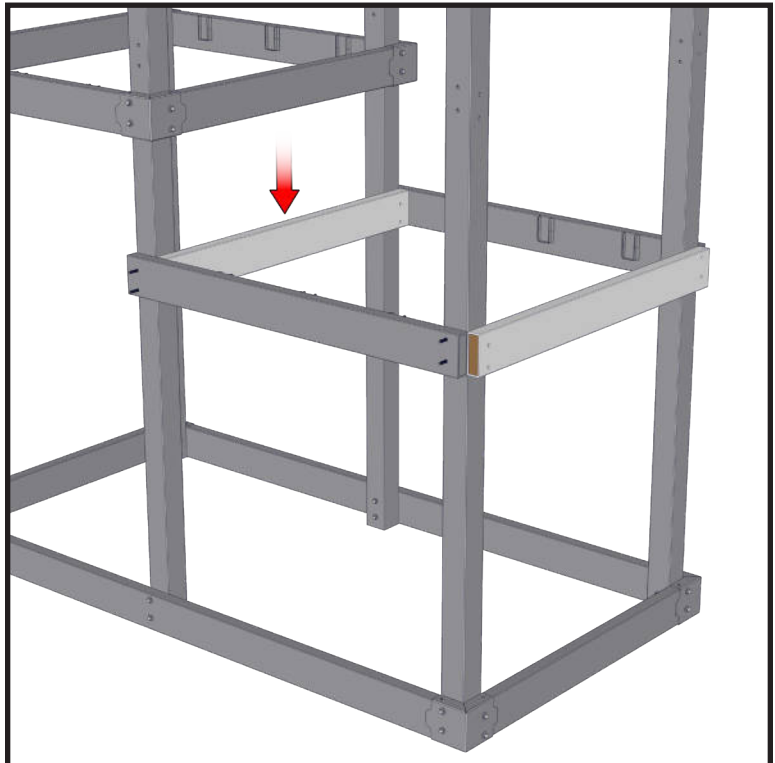


Step 13.
Locate two 62" 2x6's with joist hangers for the front section of the tower.

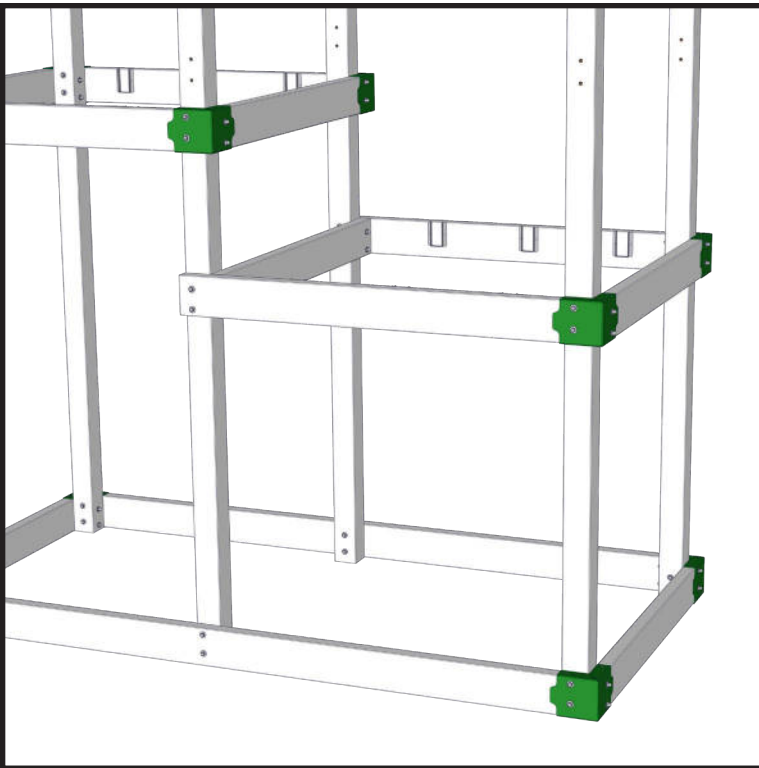


Step 14.
Place the 2x6's in place then use 6 $\frac{7}{8}$ " threaded rods to hold them in place.

Position the end with the end cap facing toward the center.



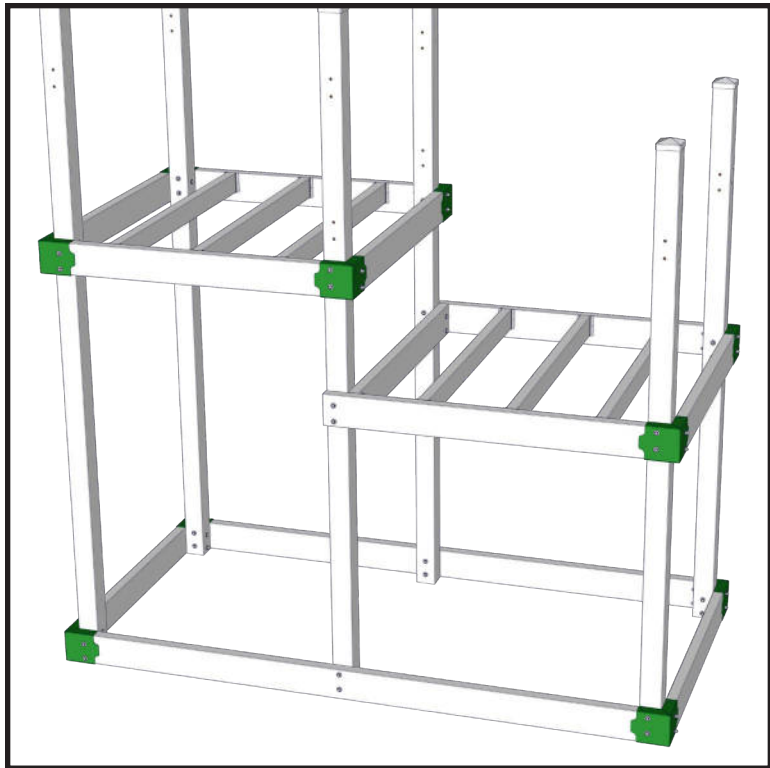
Step 15.
Place a 56" 2x6 on either end as shown.
Notice the middle 2x6 is on the inside of the 4x4 posts.



Step 16.

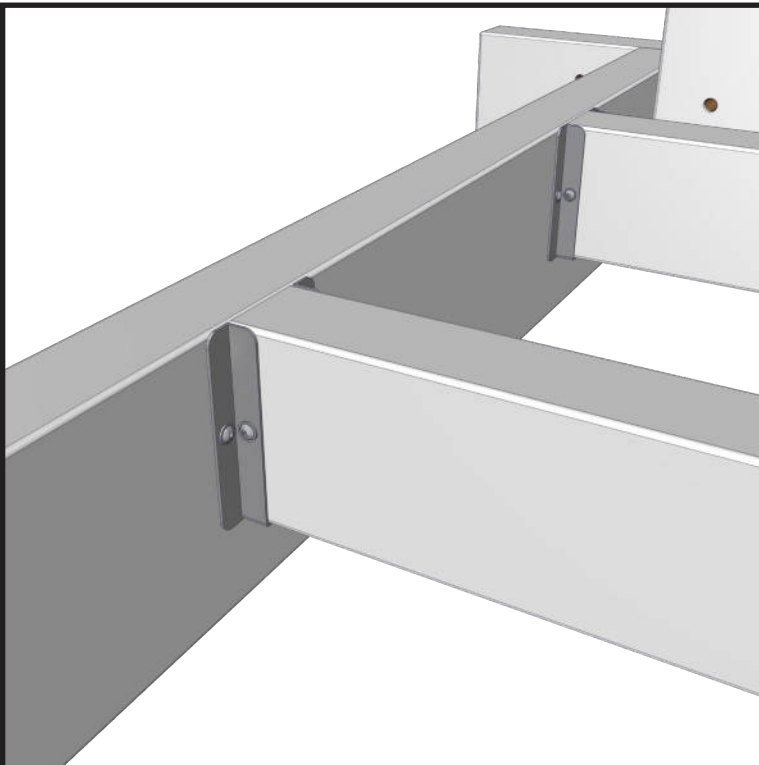
Fasten the inside corners using 6 $\frac{7}{8}$ " threaded rods then fasten the outside corners using the same threaded rods and 2x6 corner brackets.

Tighten all the threaded rods on the playset at this point.



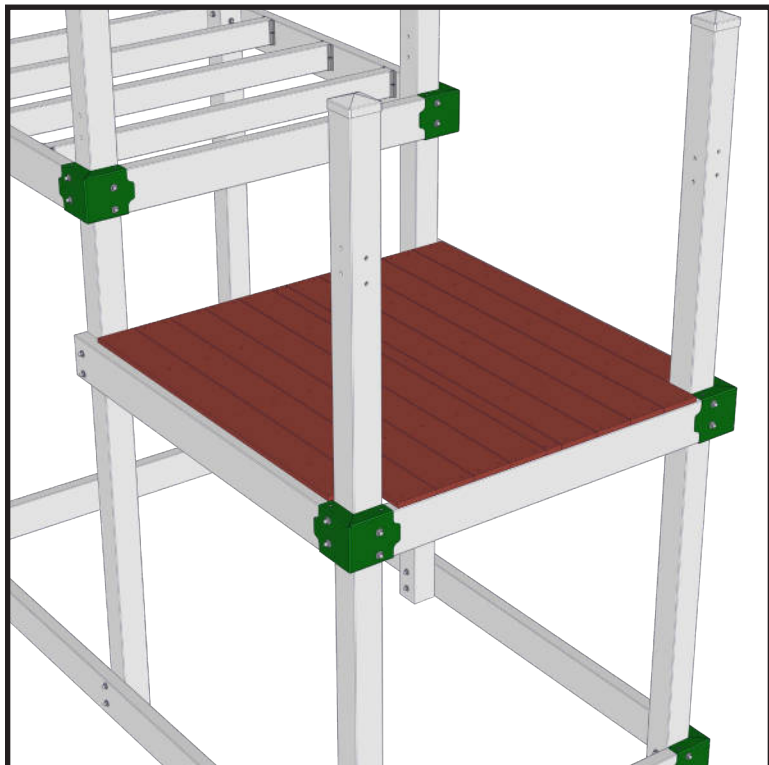
Step 17.

Locate six 56" 2x4 floor joists and place them in the joist hangers.



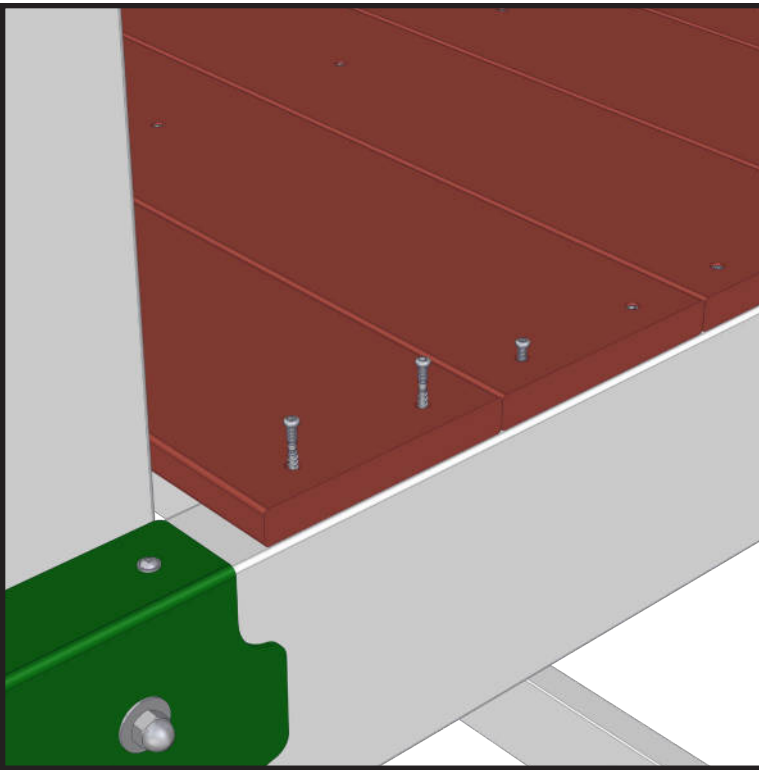
Step 18.

Fasten the joist hangers to the floor joists using 1 $\frac{3}{4}$ " washer head screws.



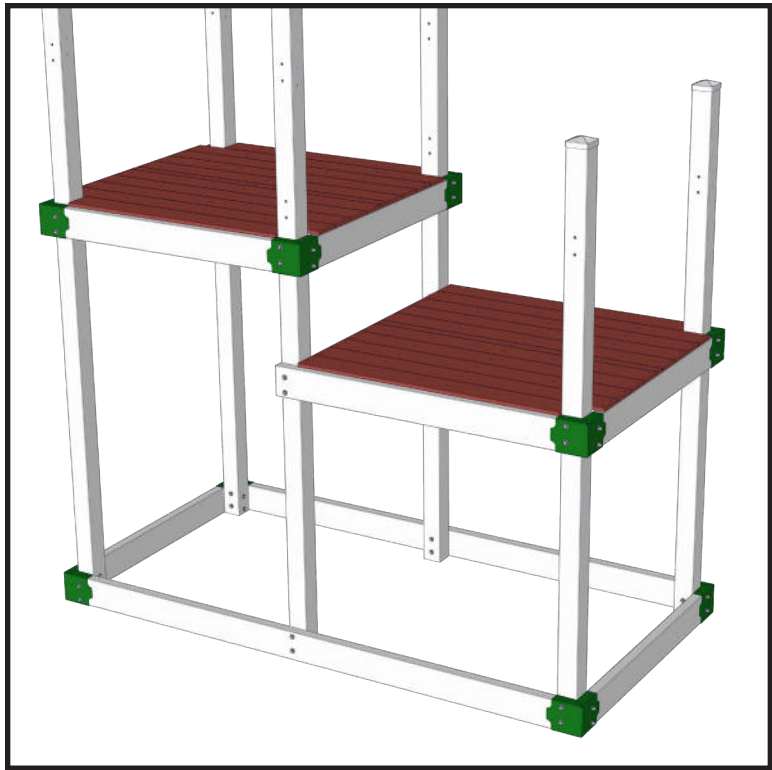
Step 19.

Locate the 59 $\frac{3}{4}$ " floorboards and place them in position. There is one narrow board for the center and two 53 $\frac{3}{4}$ " boards for the outside.



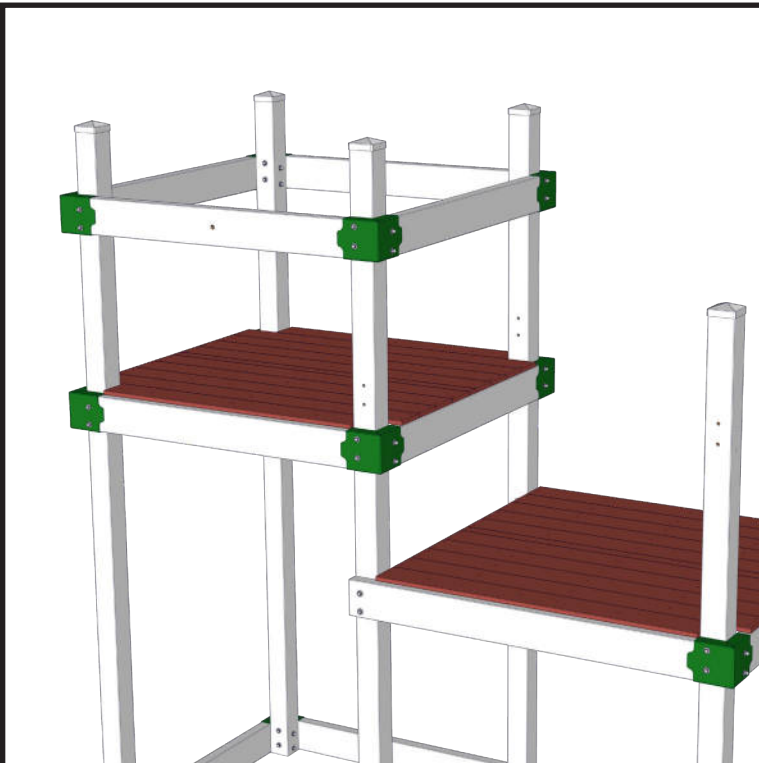
Step 20.

Space the boards evenly then fasten them with 1 ½" poly screws in the pre-drilled holes.



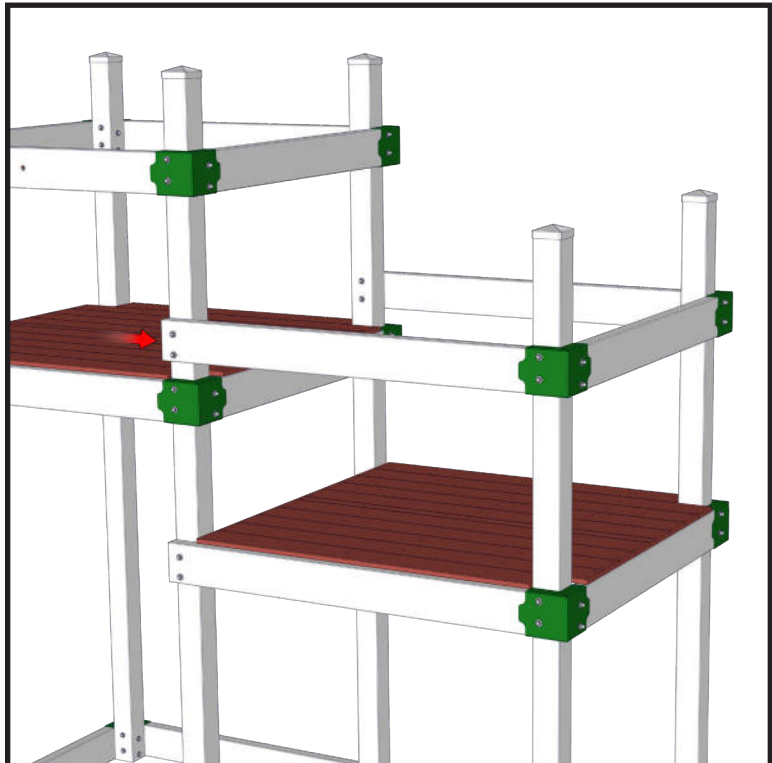
Step 21.

Repeat the last two steps for the upper deck. The two outside boards on the upper deck are 47 ¾".



Step 22.

Install the railing on the upper deck using 56" 2x6's. Fasten them with 6 ⅞" threaded rods and corner brackets.



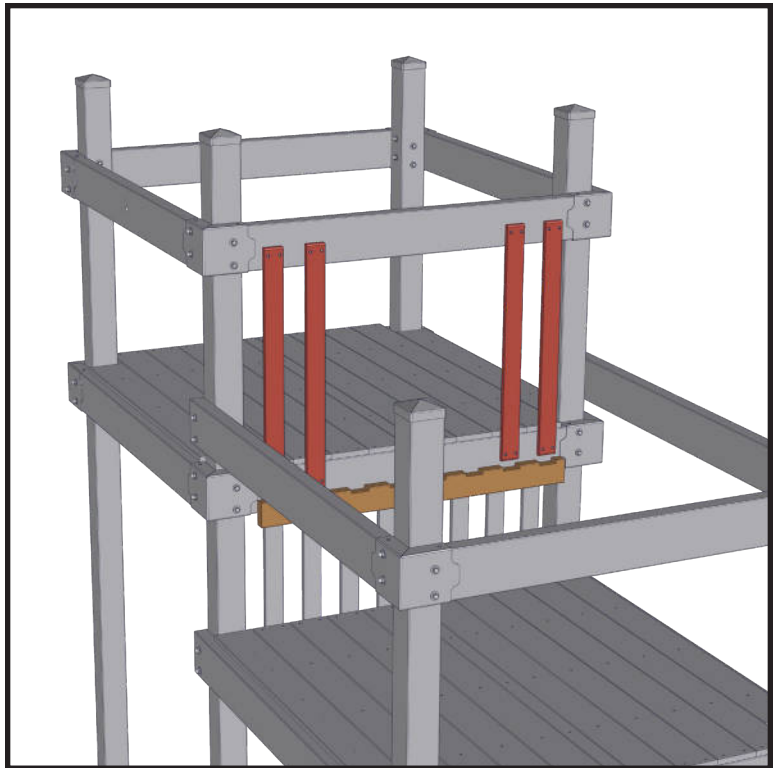
Step 23.

Install the lower deck railing using two 62" 2x6's and one 56" 2x6. These are fastened the same as the floor on the lower deck.

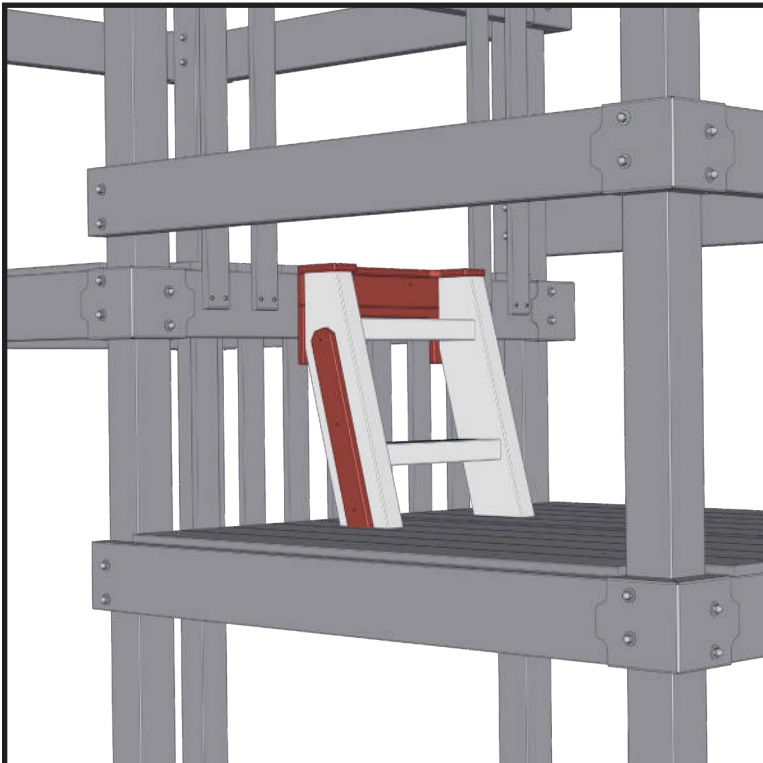
Position the end with the end cap facing toward the center.



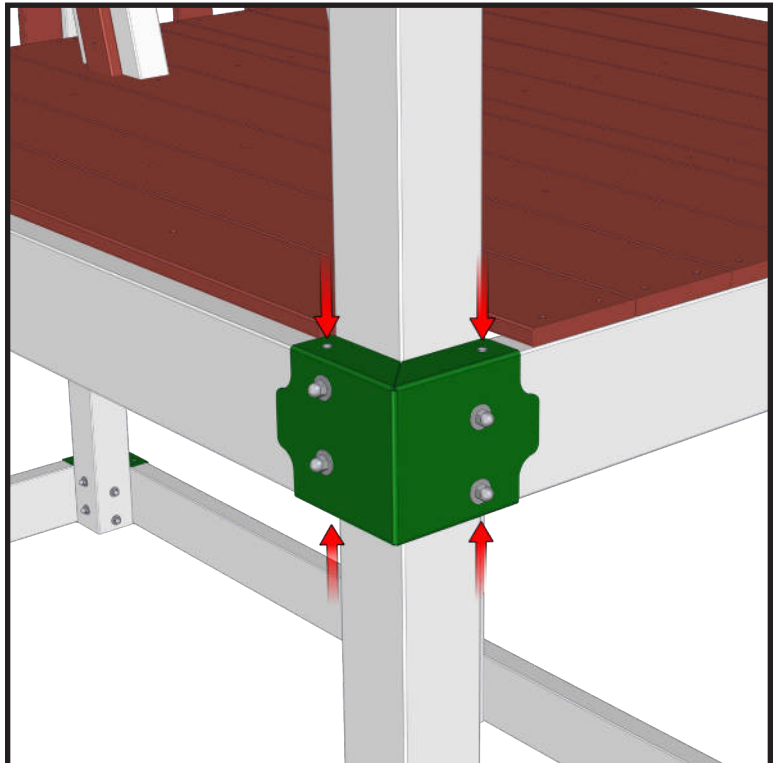
Step 24.
Locate eight 23 1/2" poly slats and install them between the upper and lower deck.
Position them with the included spacer then fasten them with 1 3/4" washer head screws.



Step 25.
Install four 33 1/2" poly slats as shown using the same spacer and 1 3/4" washer head screws.



Step 26.
Place the 2' ladder on the lower deck and fasten it to the upper deck 2x6 using 1 1/2" poly screws.
The ladder can also be fastened up through the floorboards for extra stability.

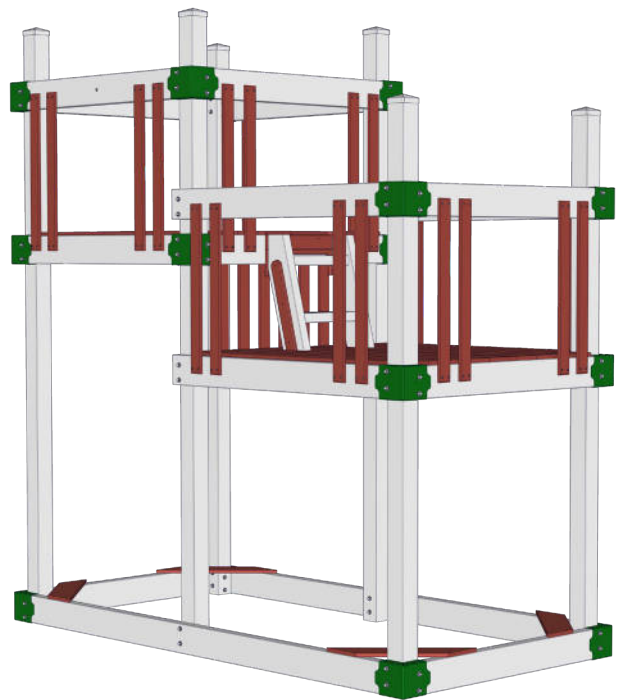


Step 27.
Fasten each 2x6 corner bracket using 1 3/4" washer head screws through the top and bottom tabs.



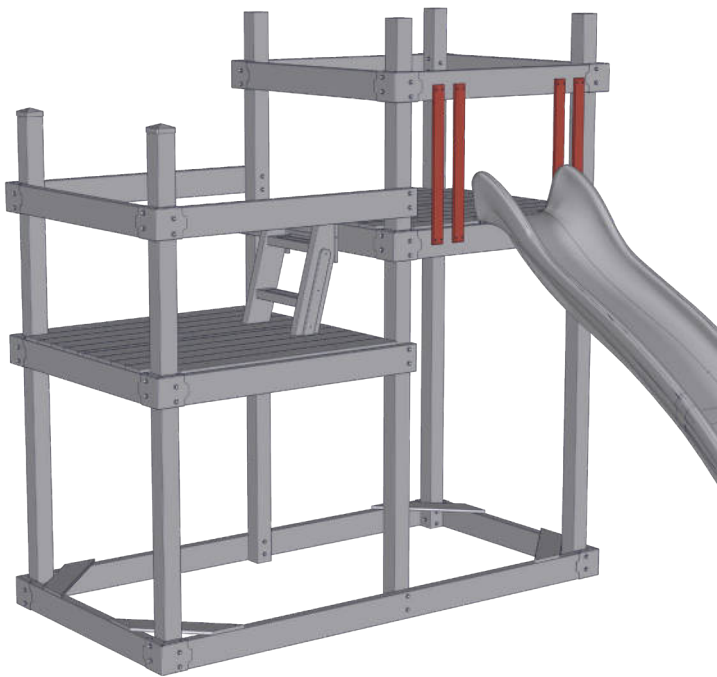
Step 28.

Place the sandbox seats in place and fasten them with 1 ½" poly screws.



Step 29.

Before you install the outside poly slats you need to decide where you want the accessories mounted and how you want the slats positioned.



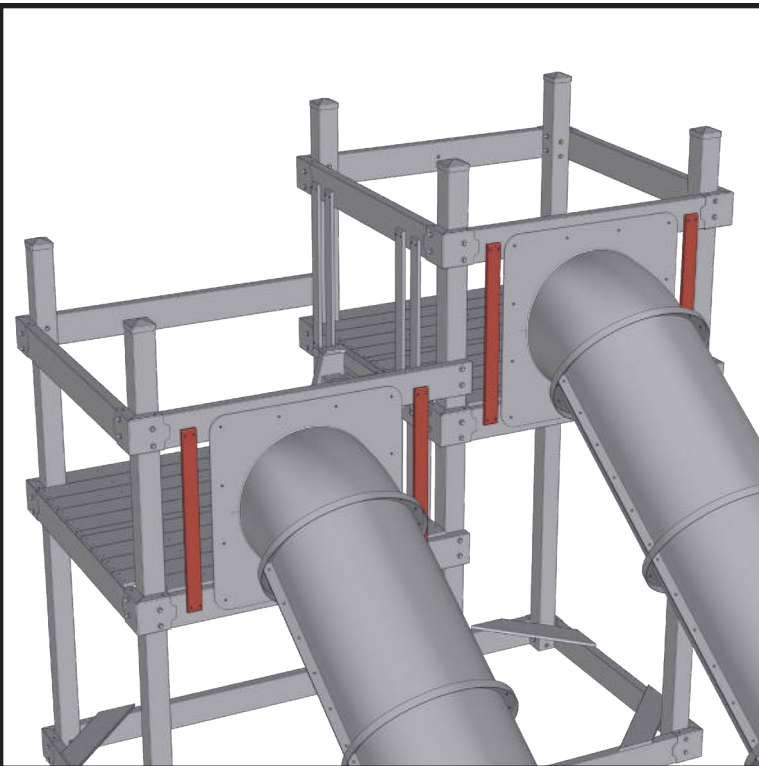
Step 30.

The 14' avalanche slide gets two slats on each side.

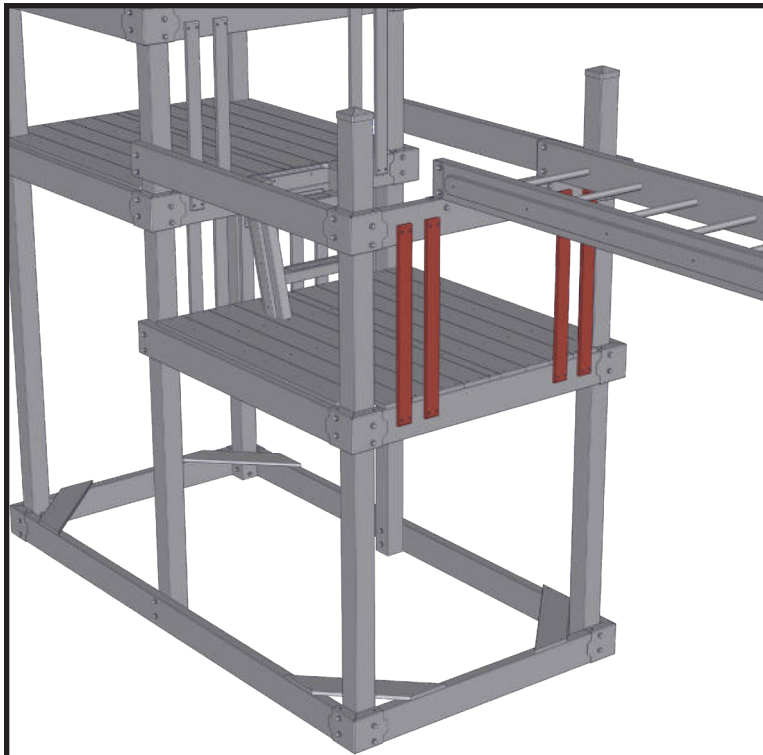


Step 31.

The 10' avalanche slide gets 5 slats on one side.



Step 32.
The tunnel express, sidewinder and super spiral slides gets one slat on each side.



Step 33.
The climbing set and super spiral slide both get two slats on each side.

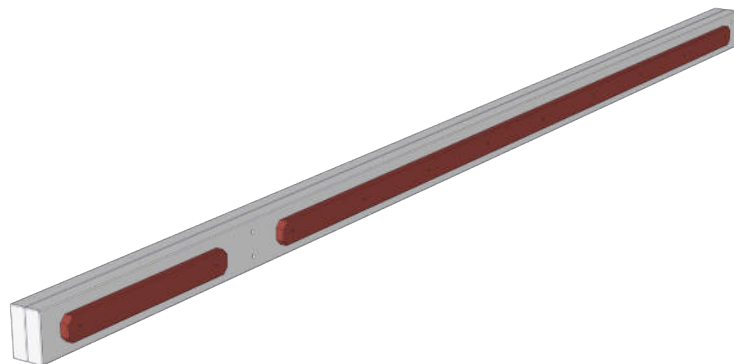
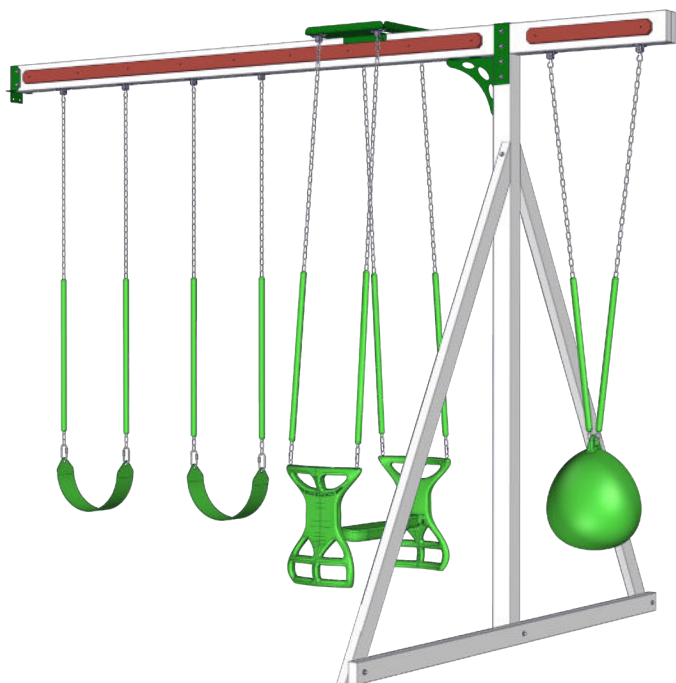


Step 34.
The rock wall gets two slats on each side. The cargo net gets three slats on the left side and two slats on the right side.



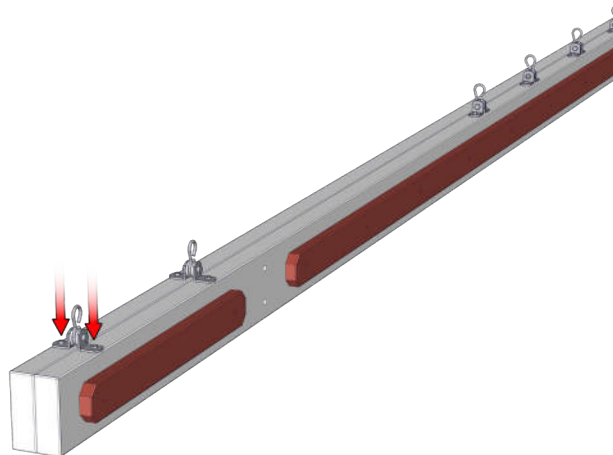
Step 35.
The bubble panel gets one slat on each side.

Swing Frame Assembly



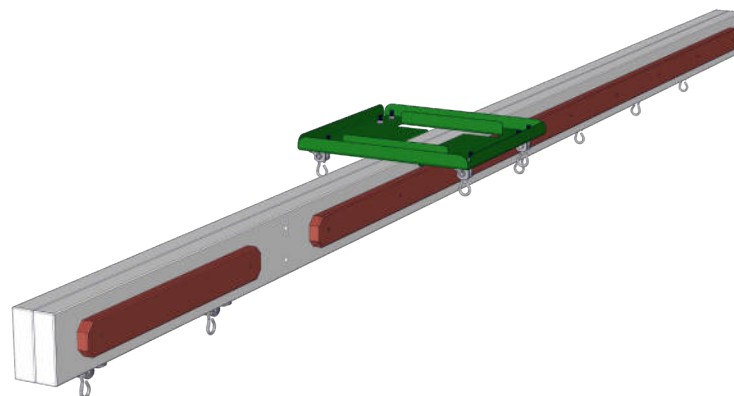
Step 1.

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.



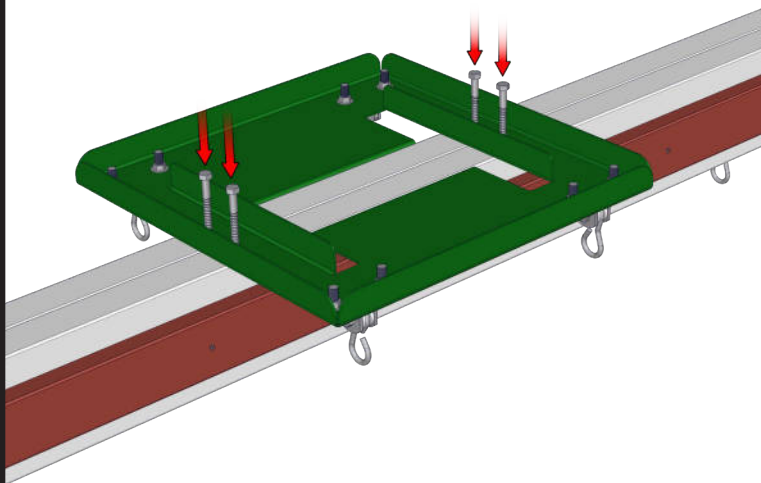
Step 2.

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



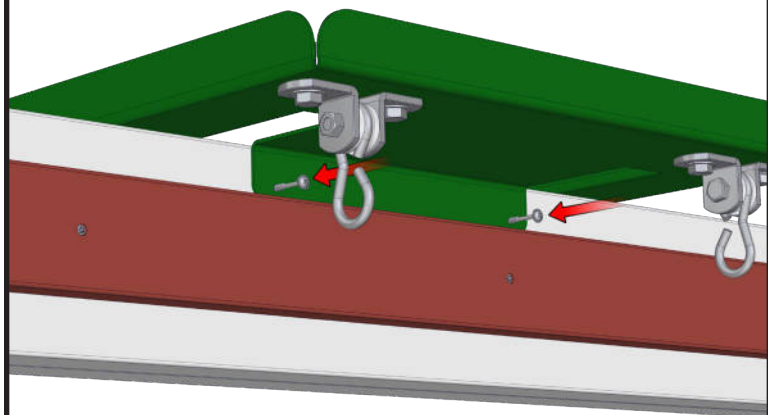
Step 3.

If your playset came with a glider, locate the glider bracket then place it on the swing beam as shown.



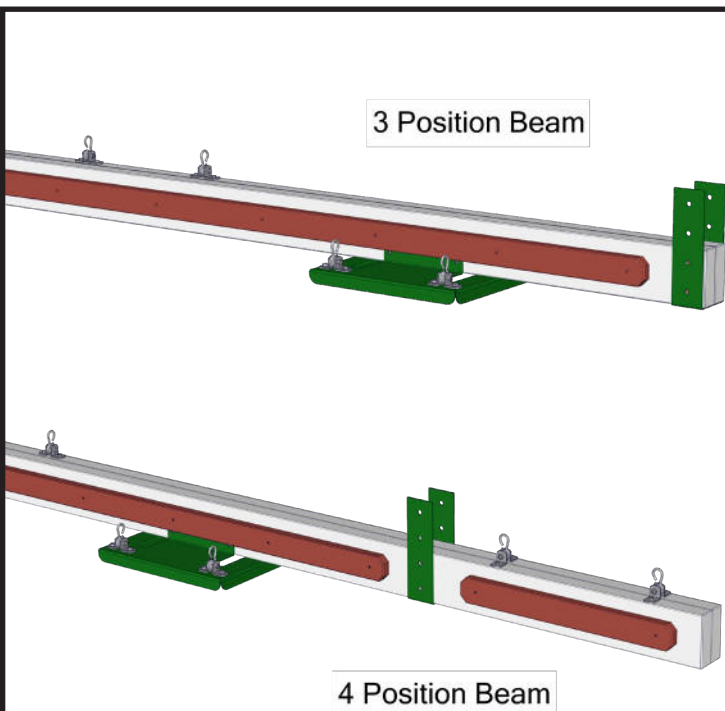
Step 4.

Once the bracket is in position drill four holes in the swing beam using a $\frac{1}{4}$ " drill bit. Then use the included hex head lags to fasten the bracket to the beam.



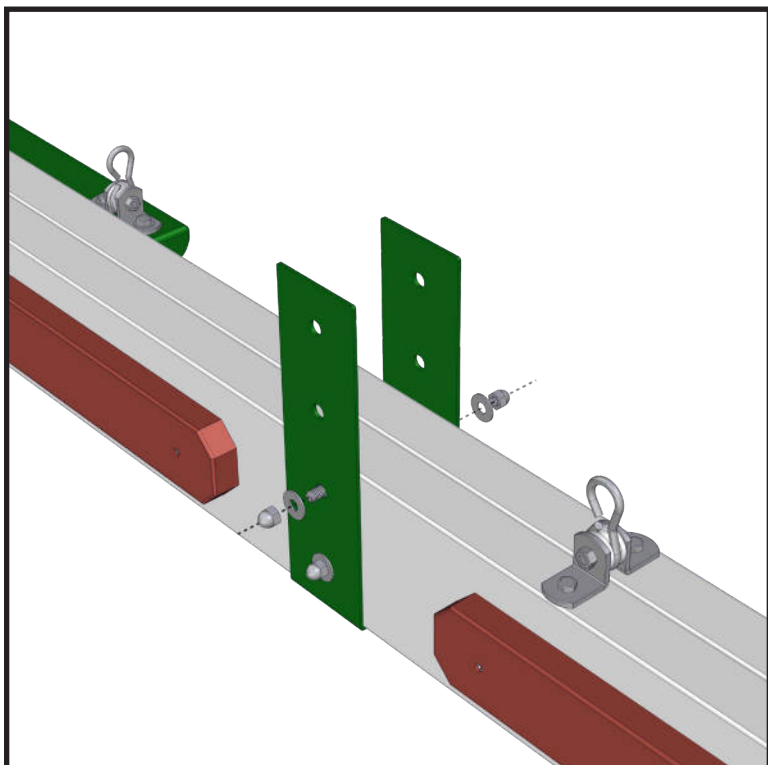
Step 5.

Fasten the side tabs to the beam using $1 \frac{3}{4}$ " washer head screws.



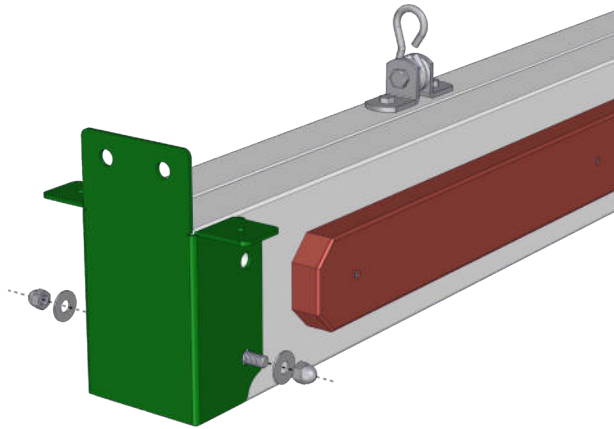
Step 6.

Locate the beam strap bracket and place in on the beam. The illustration above shows where to place the bracket for the 3 position and 4 position swing beam.



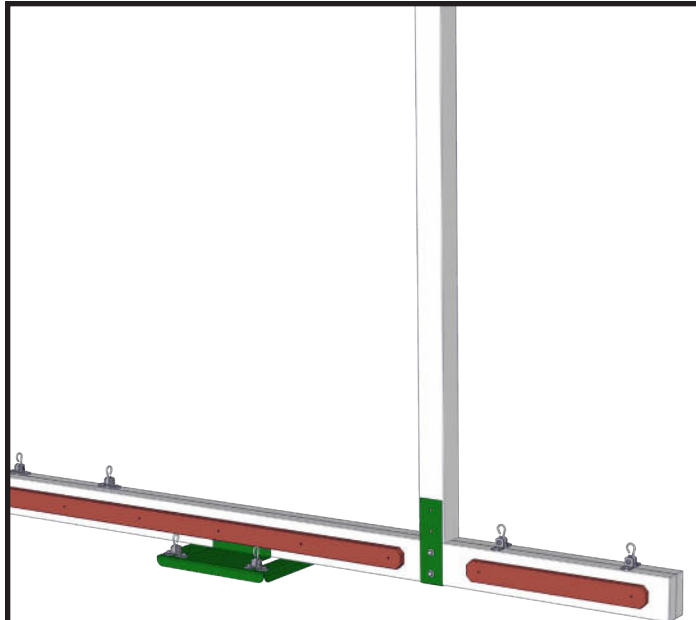
Step 7.

Fasten the beam strap bracket to the swing beam using $4 \frac{7}{8}$ " threaded rods, $\frac{3}{8}$ " washers and $\frac{3}{8}$ " acorn nuts. Only finger tighten the nuts at this point.



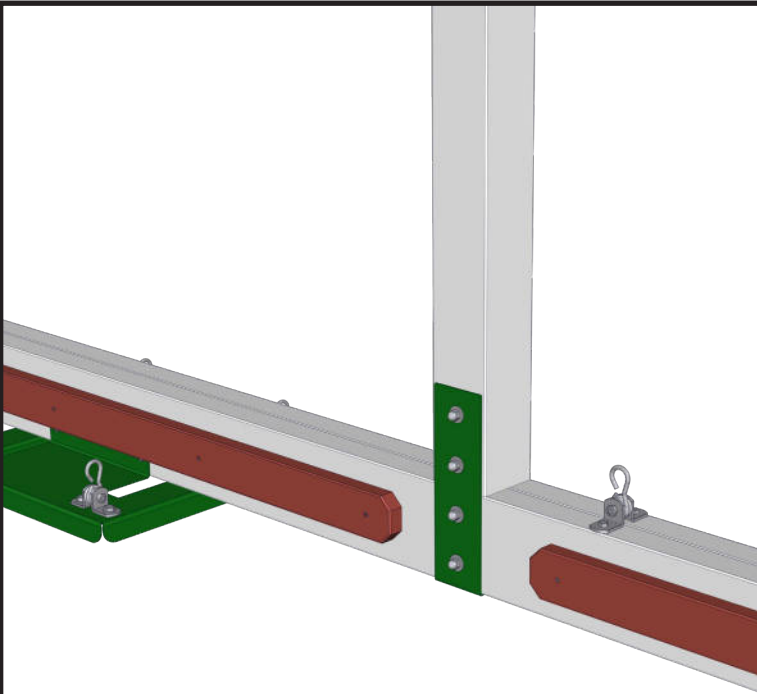
Step 8.

Locate the swing beam bracket and place it on the end of the swing beam.
Fasten the bracket with same 4 7/8" threaded rods from the previous step.



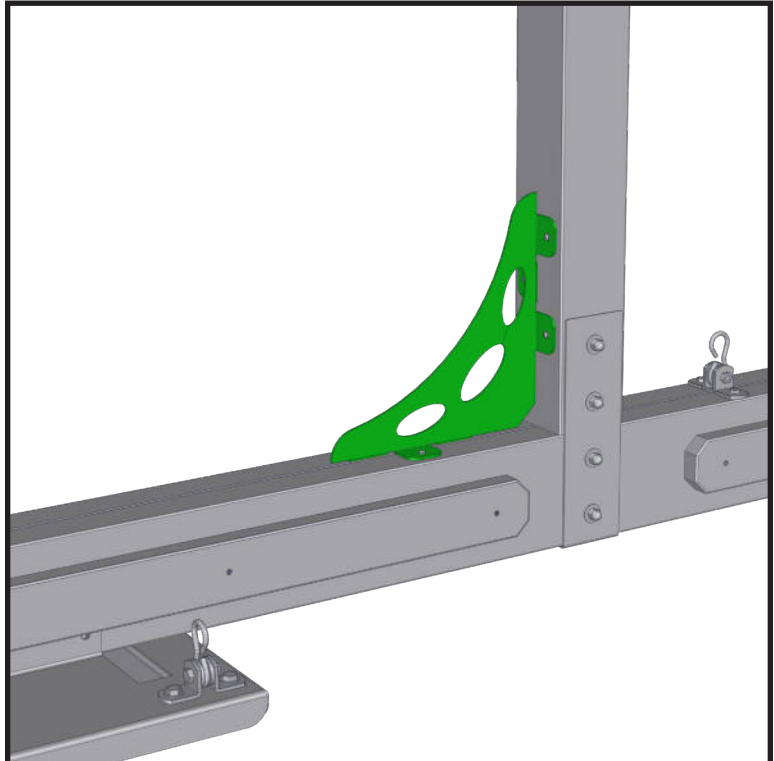
Step 9.

Place the 4x4 end post in the beam strap bracket.



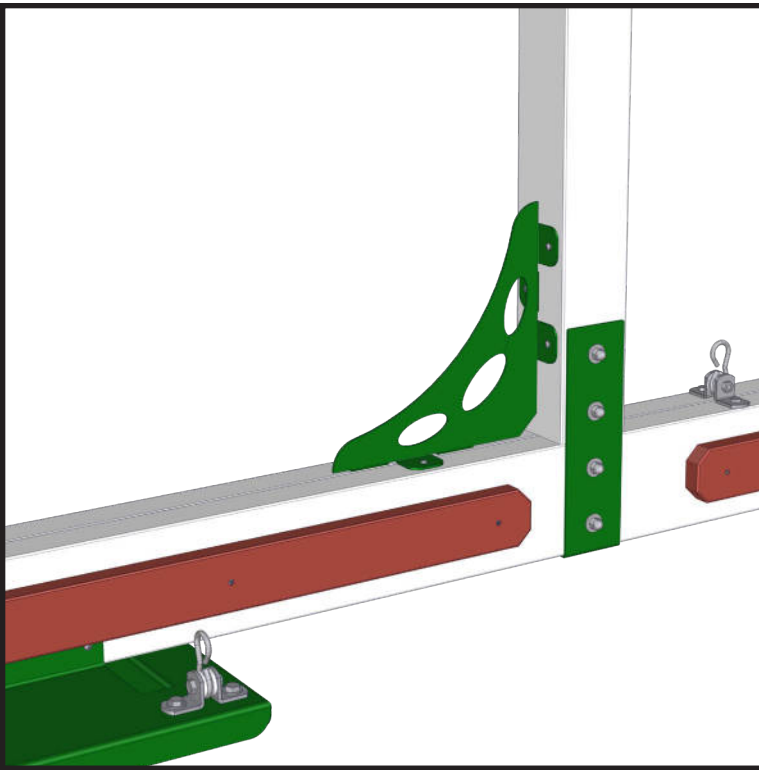
Step 10.

Fasten the beam strap bracket to the 4x4 post using 4 7/8" threaded rods.
Tighten all the threaded rods on the swing beam at this step.



Step 11.

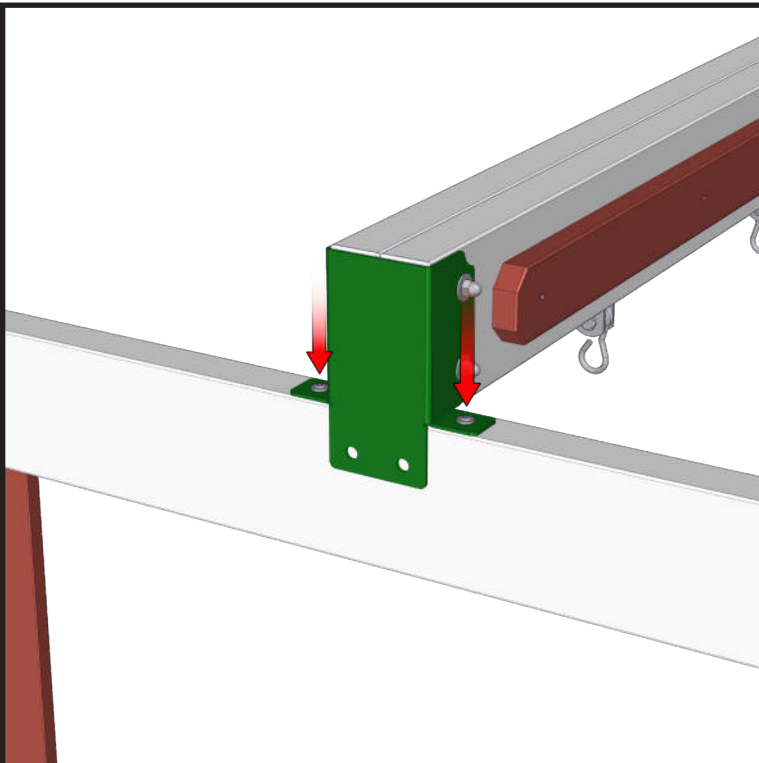
Place the corner brace on the inside corner of the 4x4 post as shown.



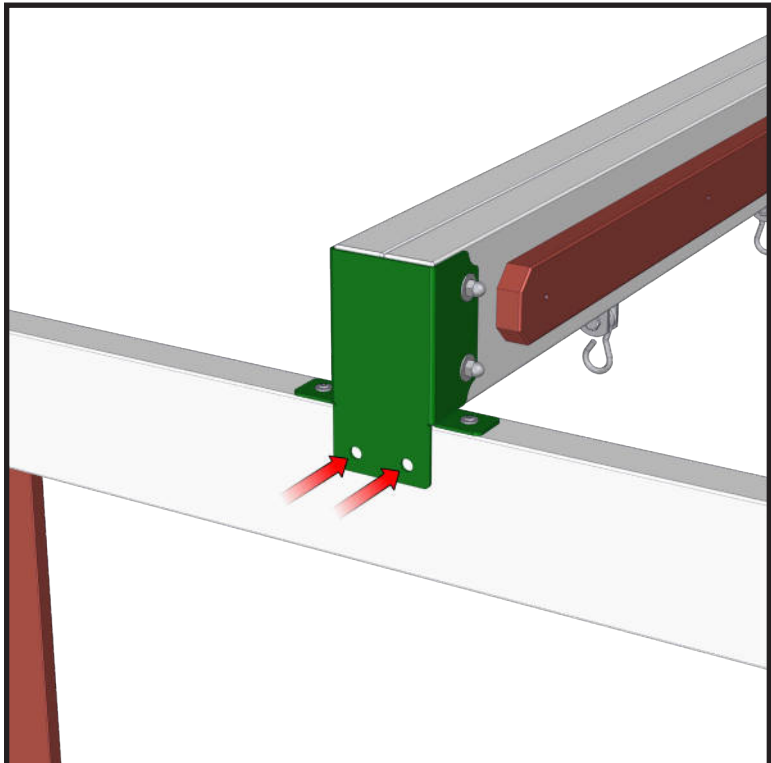
Step 12.
Fasten the corner brace using six 1 3/4" washer head screws.



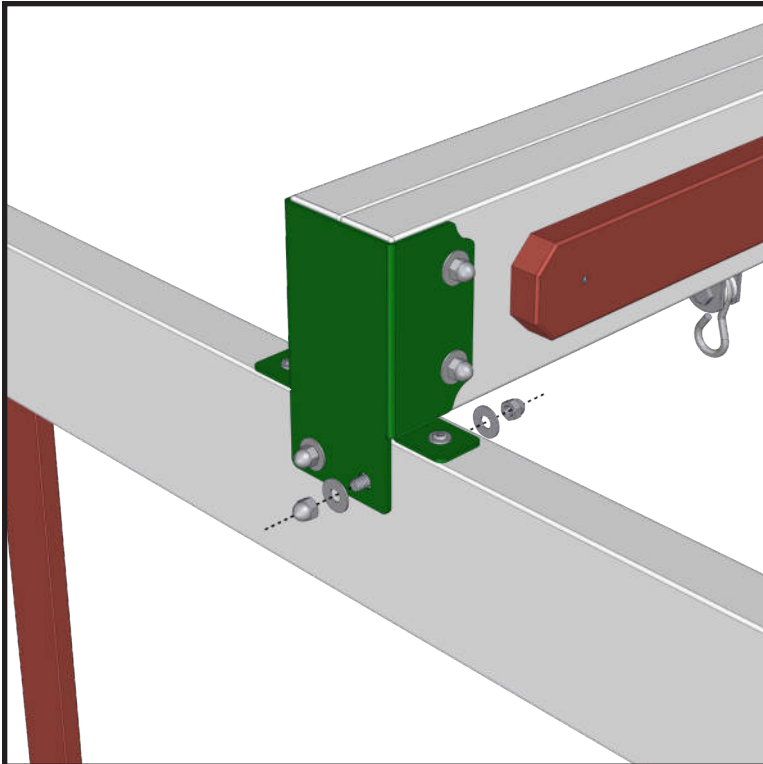
Step 13.
Lift the swing beam up into place on the tower.
Note: The 4x4 end post may need to be shortened depending on the ground. If the playset is on a perfectly level surface the post should be cut to 93" for the 5ft deck or 117" for the 7ft deck. Otherwise check the swing beam to see if it is level then trim the post accordingly.



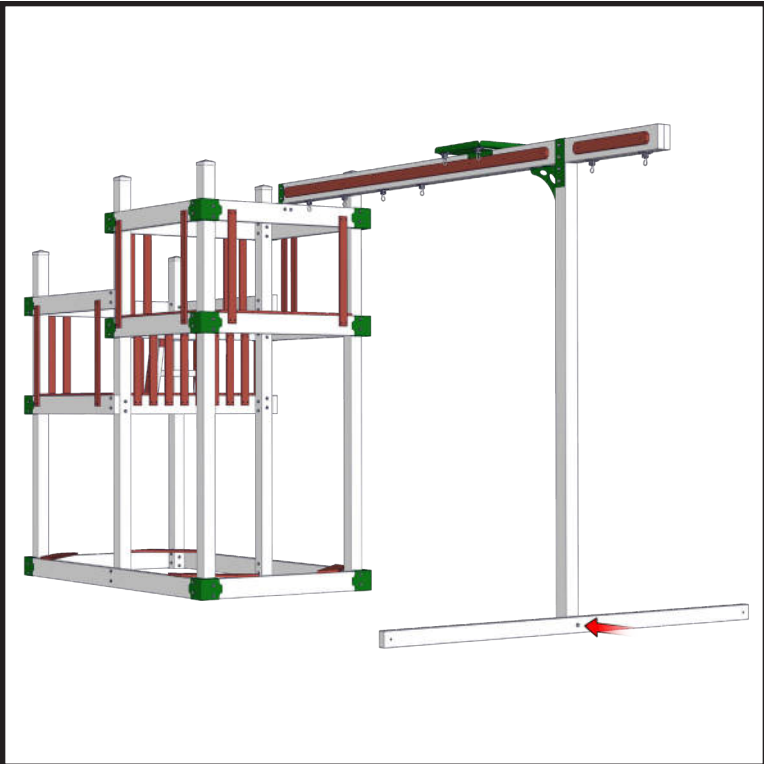
Step 14.
Center the swing beam on the tower railing then fasten the swing beam bracket to the railing using 3" star head lags.



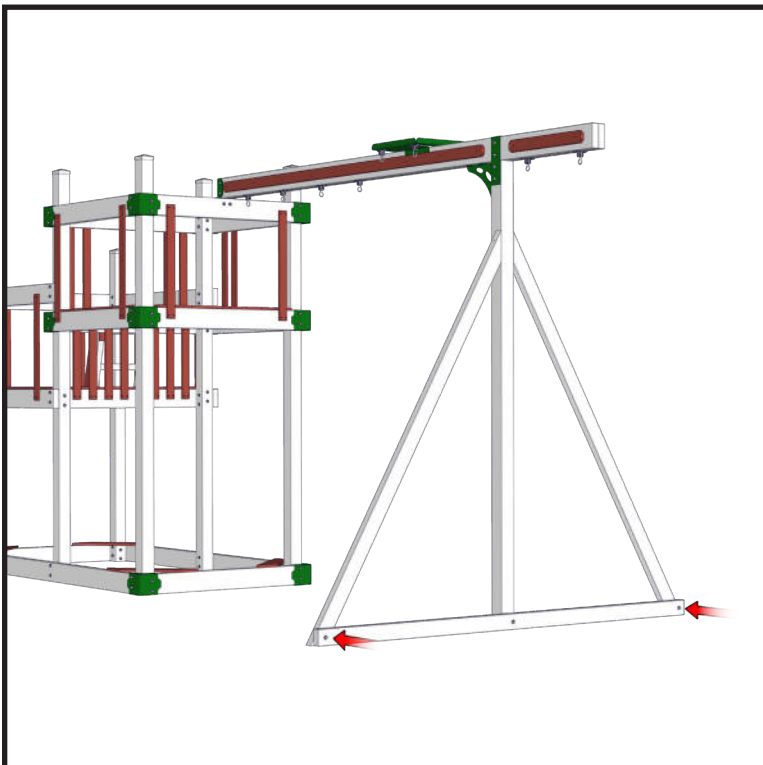
Step 15.
Drill two 7/16" holes through the 2x6 railing using the holes in the bracket as a guide.



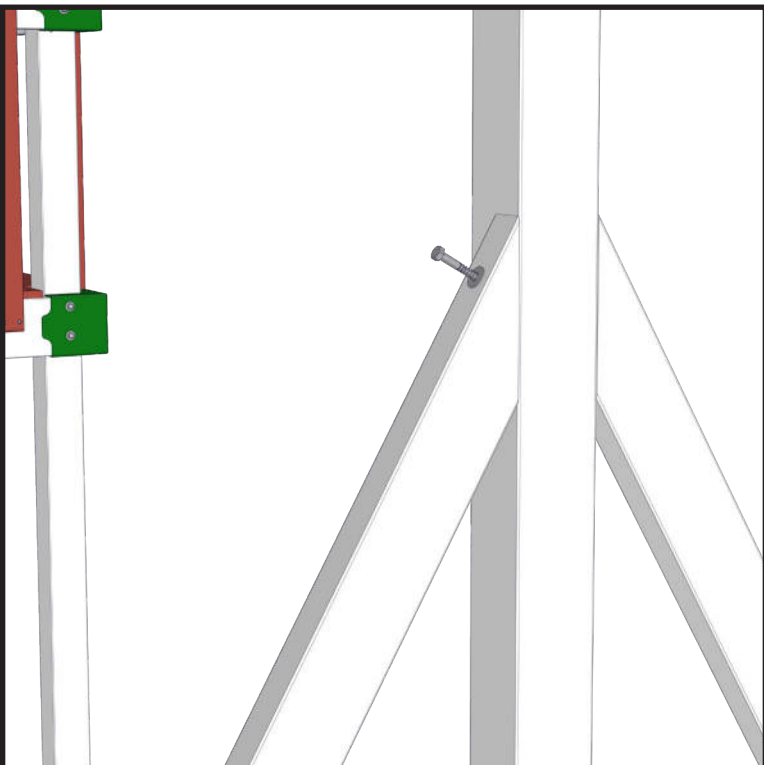
Step 16.
Fasten the swing beam bracket to the railing using 2 $\frac{3}{4}$ " threaded rods.



Step 17.
Place the ground runner 2x4 on the outside end of the 4x4 post. Drill a $\frac{7}{16}$ " hole through the 4x4 post using the pre-drilled hole in the 2x4 as a guide. Fasten the 2x4 to the 4x4 post using a 6 $\frac{1}{2}$ " threaded rod.



Step 18.
Locate the two 2x4 side braces and place them on either side of the 4x4 post. Fasten the bottom ends to the ground runner 2x4 using two 4 $\frac{7}{8}$ " threaded rods.



Step 19.
Confirm the swing frame is level then fasten the top ends of the 2x4 braces using 4" hex head lags with $\frac{3}{8}$ " washers. The 2x4's are pre-drilled but you will have to drill a $\frac{1}{4}$ " hole in the 4x4 post.

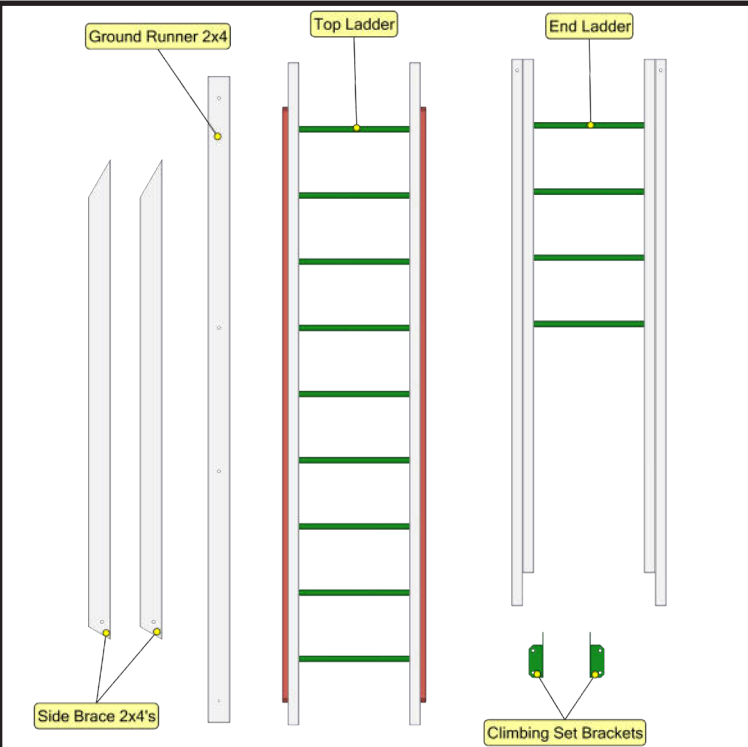


Step 20.
If your playset has a glider, assemble it using the included instructions and hardware.

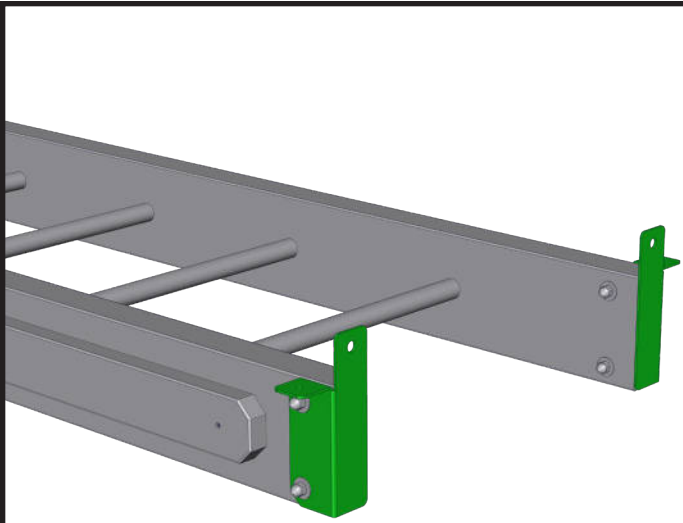


Step 21.
Install the rest of the swings to finish the swing frame.

Climbing Set Assembly



Step 1.
Locate these pieces to start the climbing set assembly.



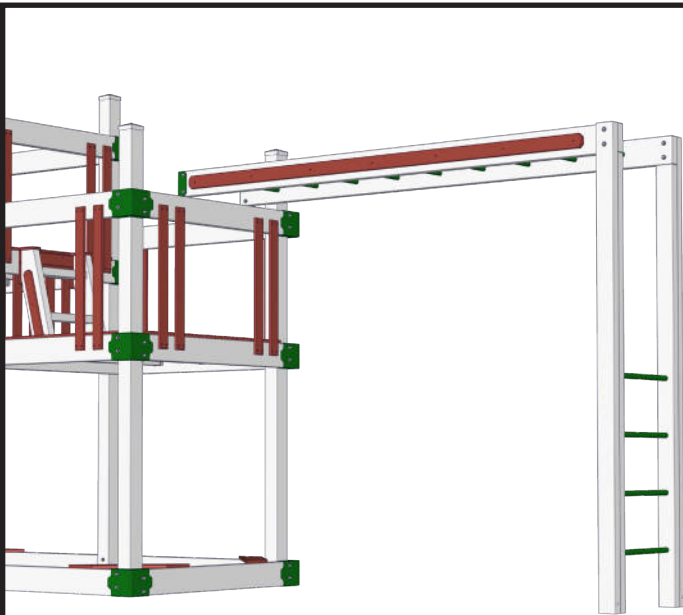
Step 2.

Place the climbing set brackets on the end of the top ladder and fasten them with 2 5/8" threaded rods.



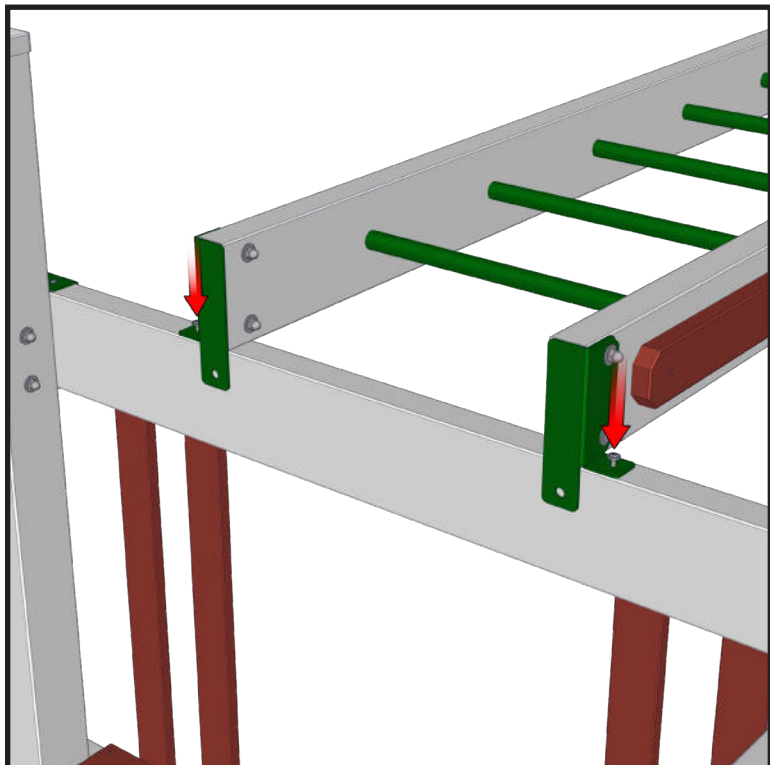
Step 3.

Place the end ladder on the top ladder and fasten them together using 4 1/8" threaded rods.



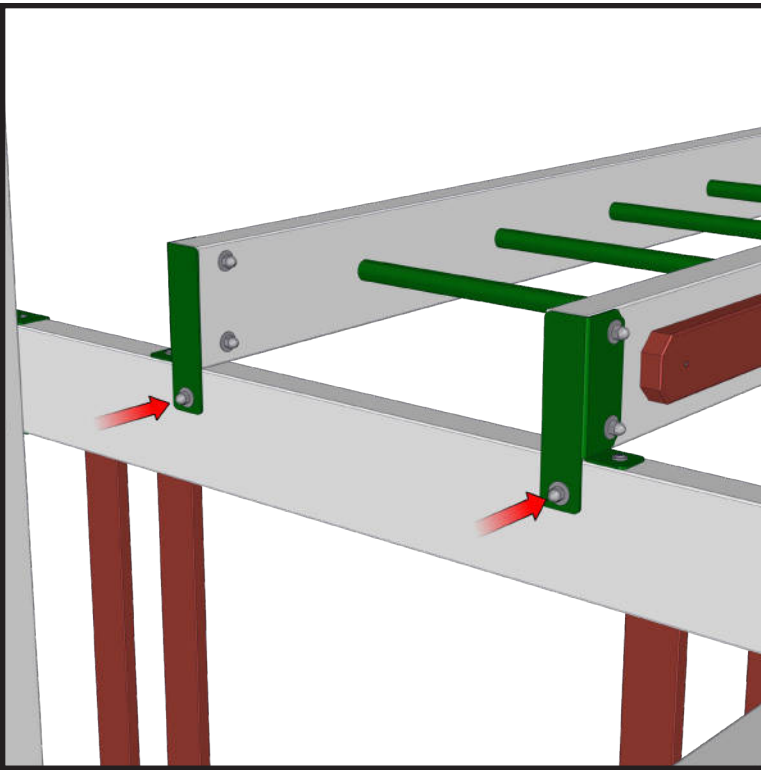
Step 4.

Flip the climbing set over and place it in position on the tower.

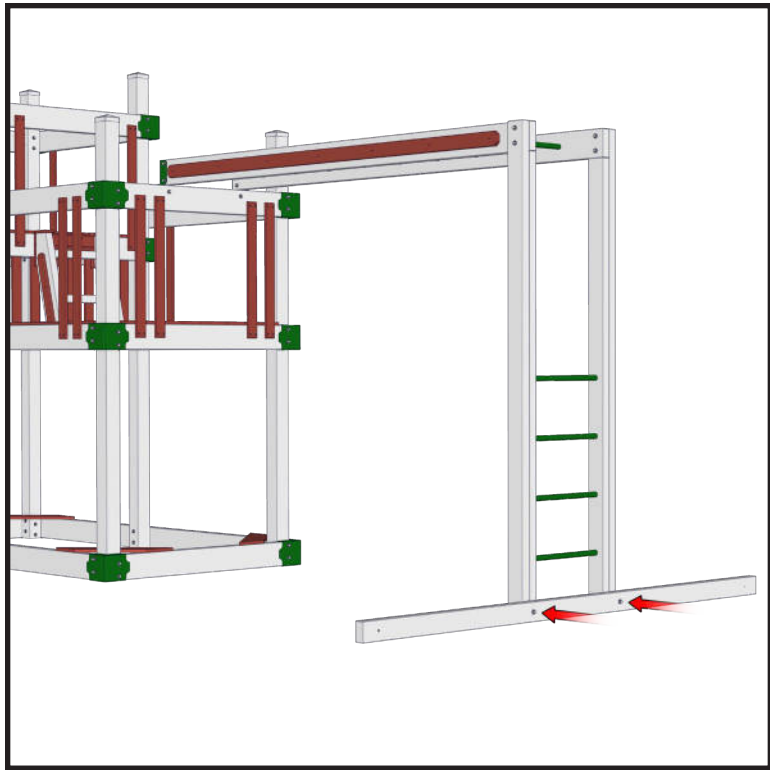


Step 5.

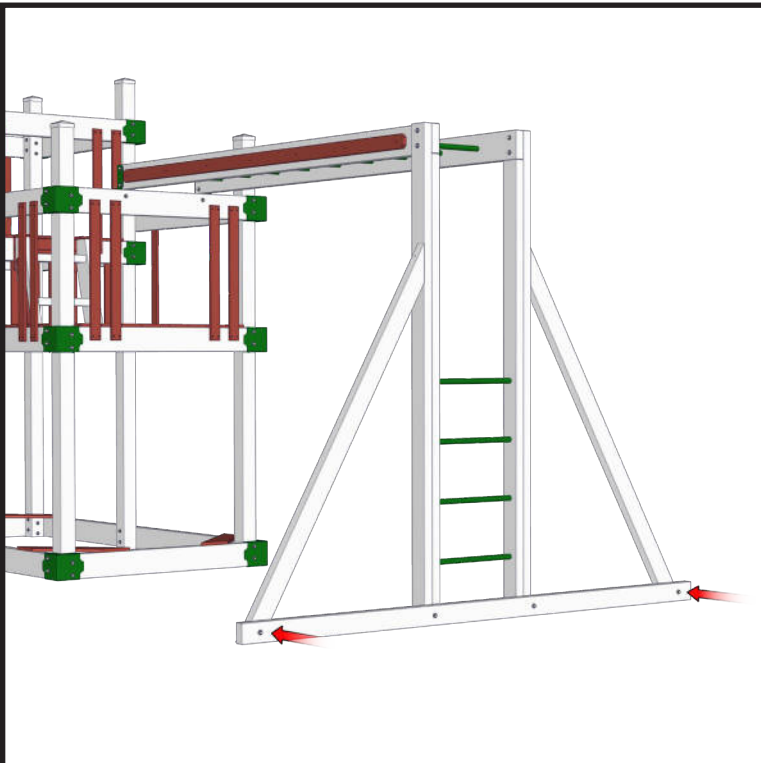
Center the climbing set on the tower railing then fasten the brackets to the railing using 3" star head lags.



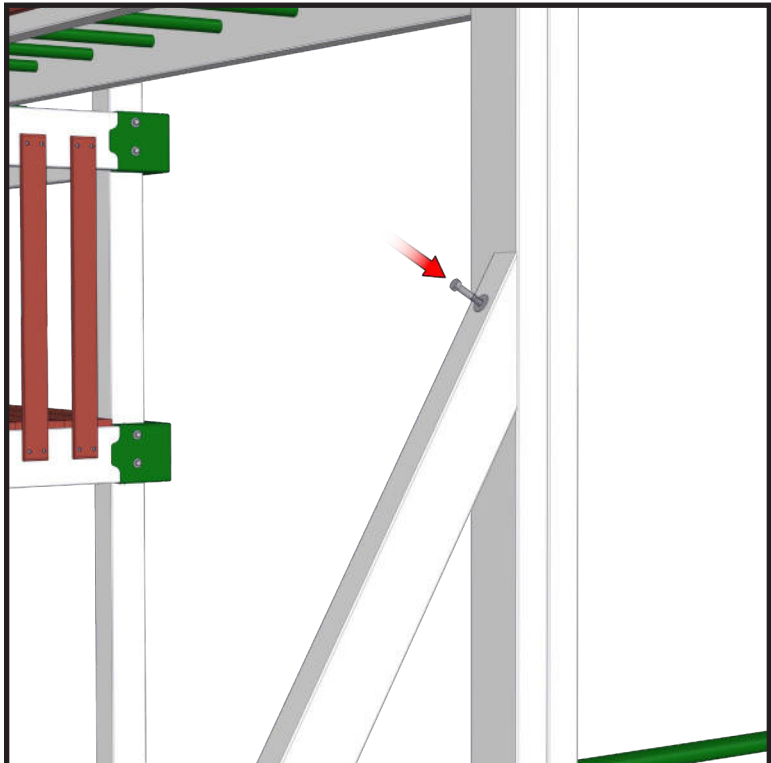
Step 6.
Drill two $\frac{7}{16}$ " holes through the 2x6 railing using the holes in the brackets as a guide then fasten them using 2 $\frac{3}{4}$ " threaded rods.



Step 7.
Place the ground runner 2x4 on the end of the ladder and fasten it with 6 $\frac{1}{8}$ " threaded rods.



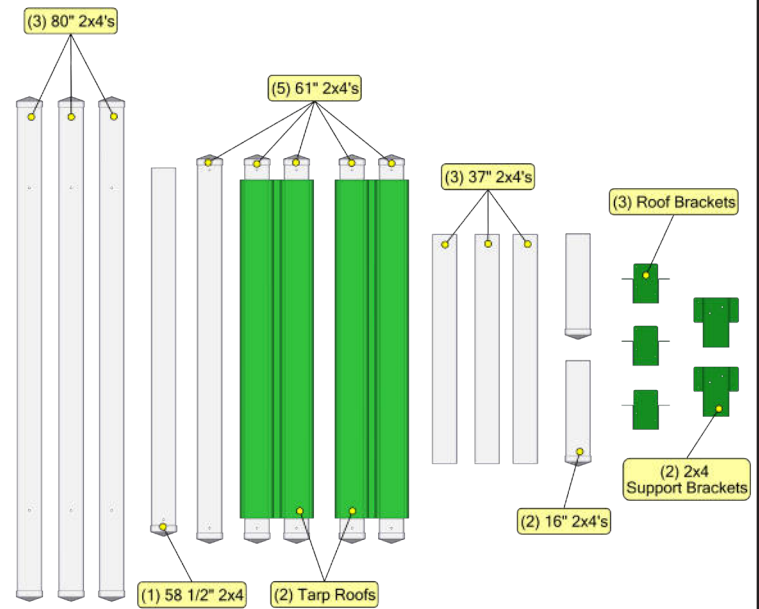
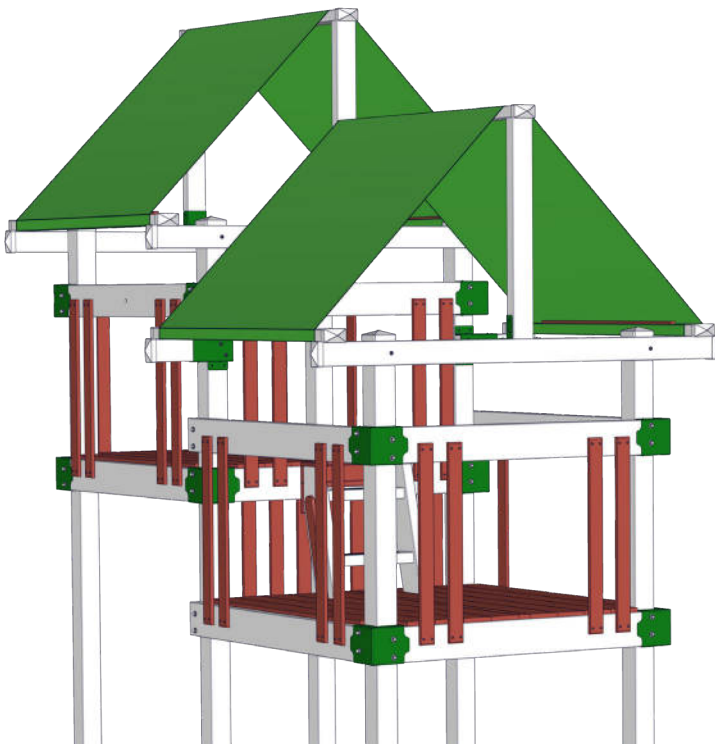
Step 8.
Place the side 2x4 braces in place then fasten the bottoms using 4 $\frac{1}{8}$ " threaded rods.



Step 9.
Fasten the top ends of the 2x4 braces using 4" hex head lags with $\frac{3}{8}$ " washers.
The 2x4's are pre-drilled but you will have to drill a $\frac{1}{4}$ " hole in the ladder.

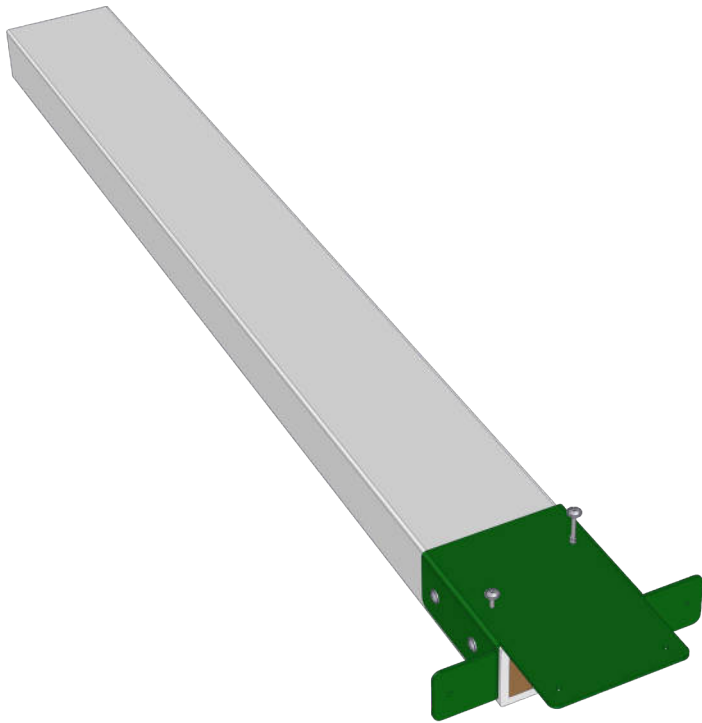
Tarp Roof Assembly

Follow these instructions if your playset has a tarp roof.



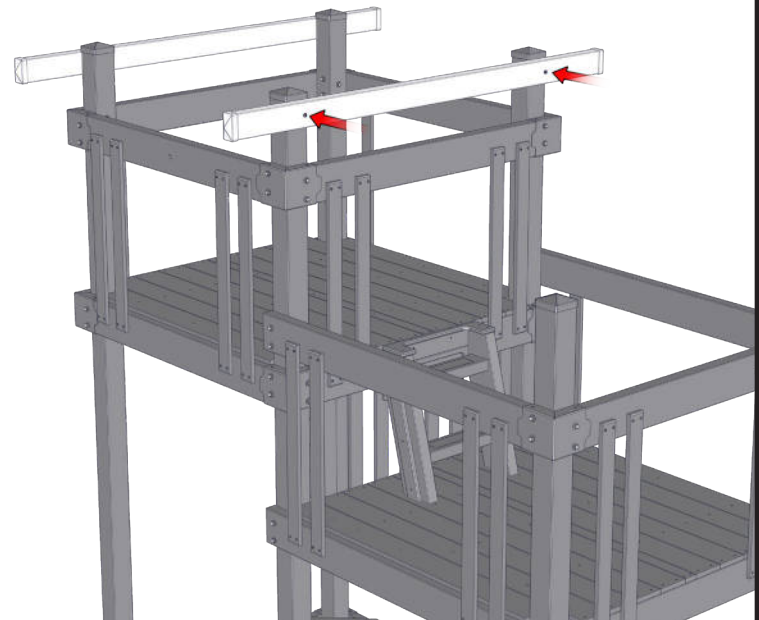
Step 1.

Locate these parts to begin the tarp roof assembly.



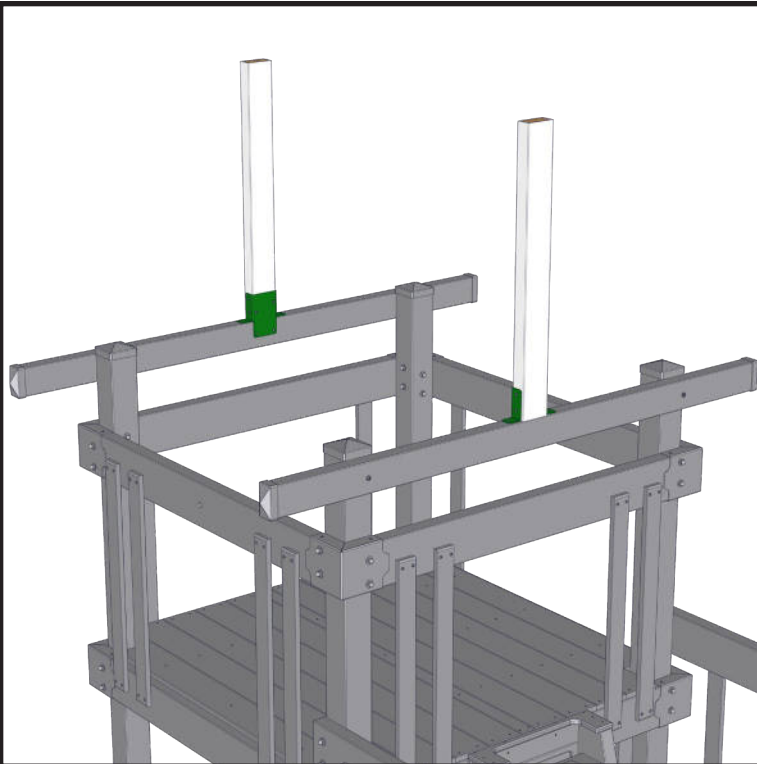
Step 2.

Start with the three 37" 2x4's and the roof brackets. Place the roof brackets on the end of the 2x4's and fasten them using six 1 3/4" washer head screws per bracket. Make sure the tab on the side of the bracket is even with the end of the 2x4.

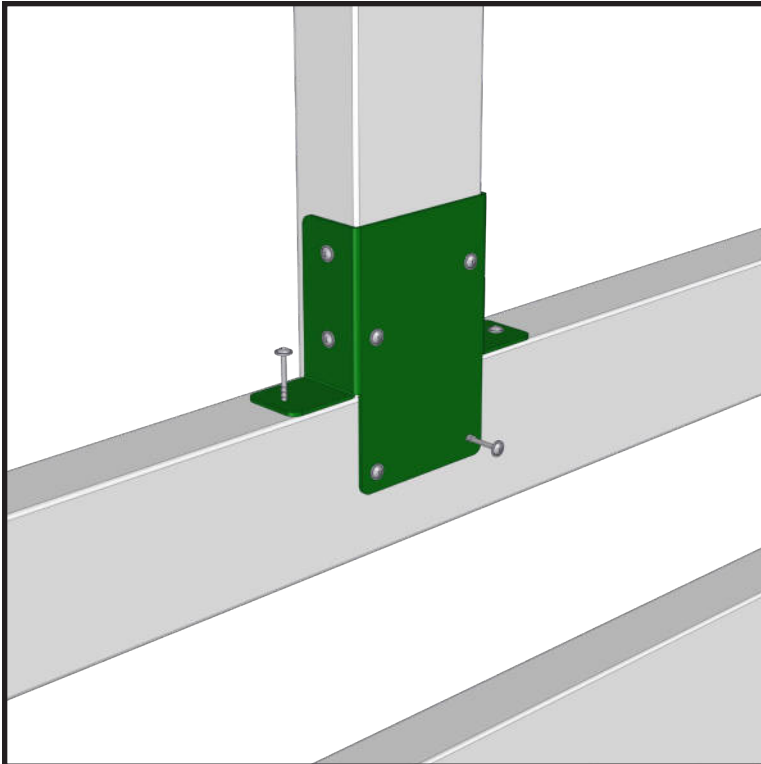


Step 3.

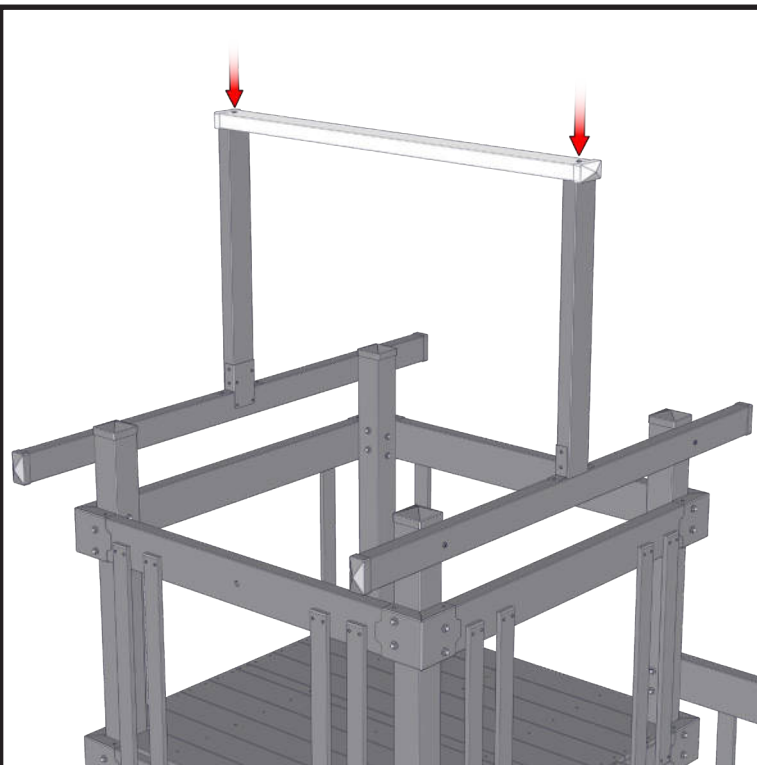
Place two 80" 2x4's in position on the upper deck. These go on the outside of the 4x4 posts, make sure they are centered and up against the 4x4 end caps. Fasten the 2x4's with 3 1/2" star head lags. **Note:** These 2x4's are pre-drilled through the front and the top, make sure the top holes are facing up.



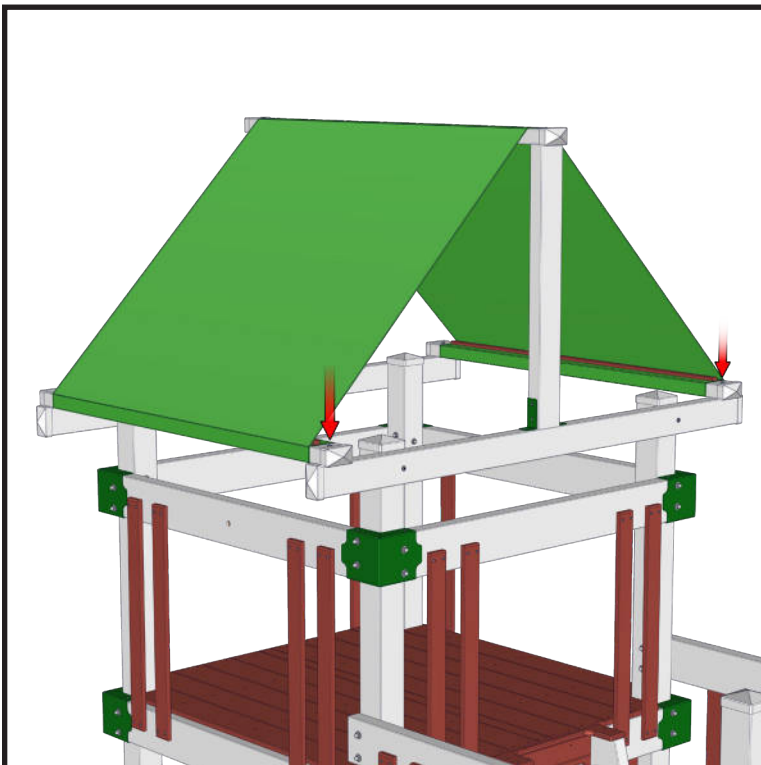
Step 4.
Place two of the 37" 2x4's with brackets on top of the 80" 2x4's.
Face the brackets in and center them.



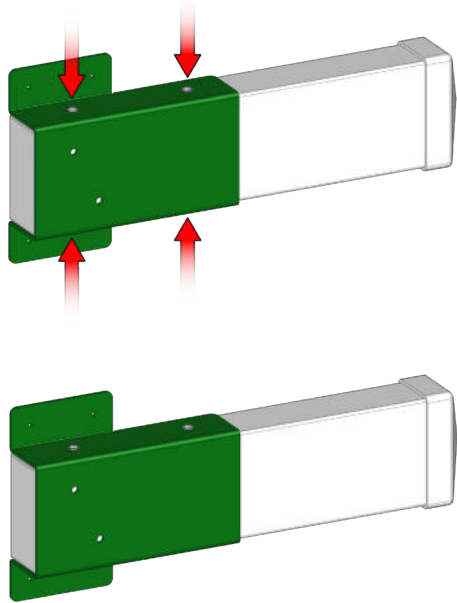
Step 5.
Fasten the brackets to the 80" 2x4's using four 1 3/4" washer head screws per bracket.



Step 6.
Place the 61" 2x4 on top of the 37" 2x4's and fasten it with 3 1/2" star head lags.

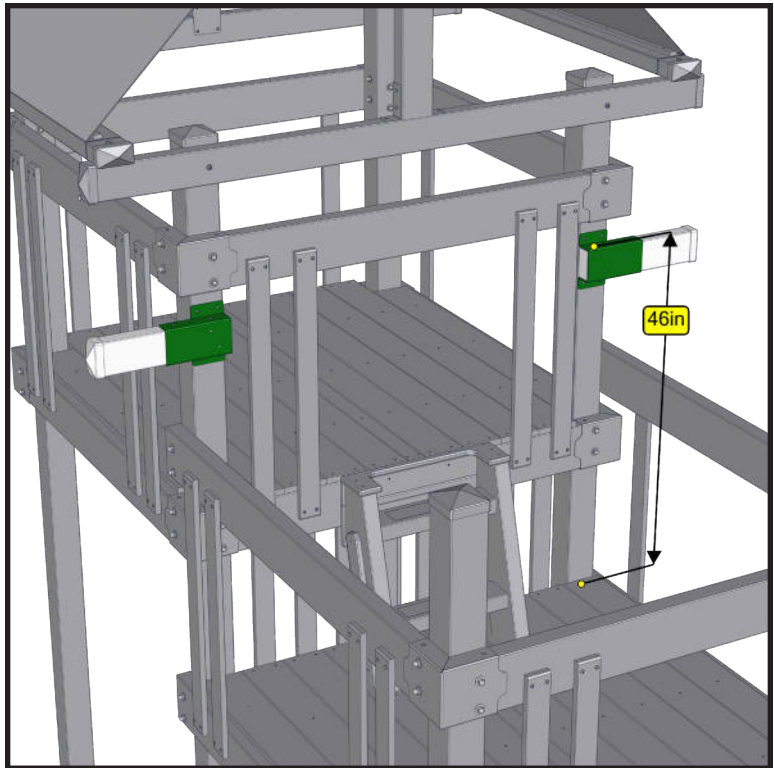


Step 7.
Locate the tarp roof with two 61" 2x4's attached then place it on the tower as shown.
Fasten one 2x4 first using 3 1/2" star head lags in the pre-drilled holes then stretch the tarp out and fasten the other side.



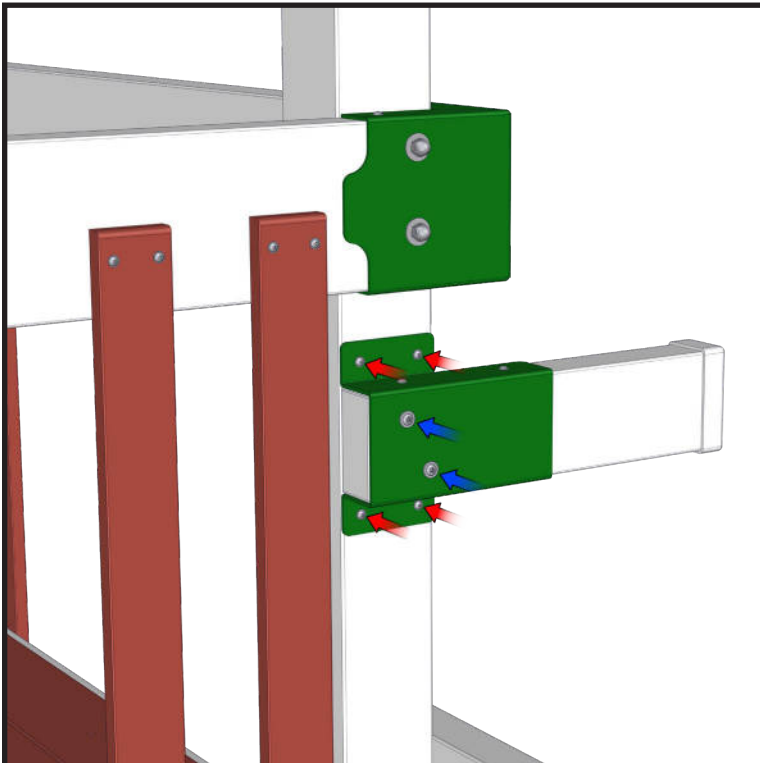
Step 8.

Locate the two 16" 2x4's and 2x4 support brackets. Place the 2x4 support bracket on the end of the 2x4 and fasten it with four 1 3/4" washer head screws per bracket.



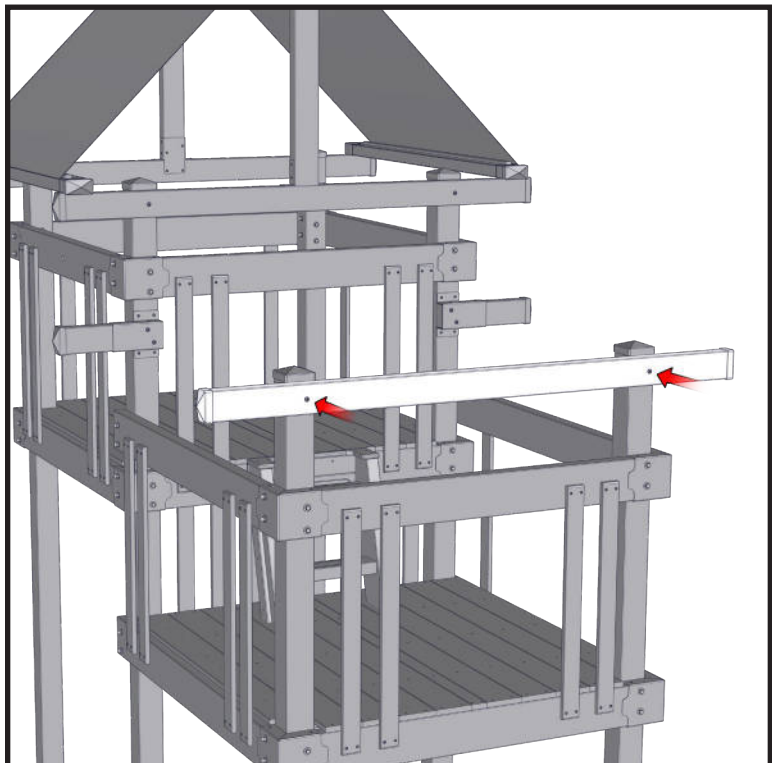
Step 9.

Place the two 2x4's on the middle 4x4 posts as shown. Keep the bracket centered on the 4x4 post then measure 46" up from the floor to the top of the 2x4.



Step 10.

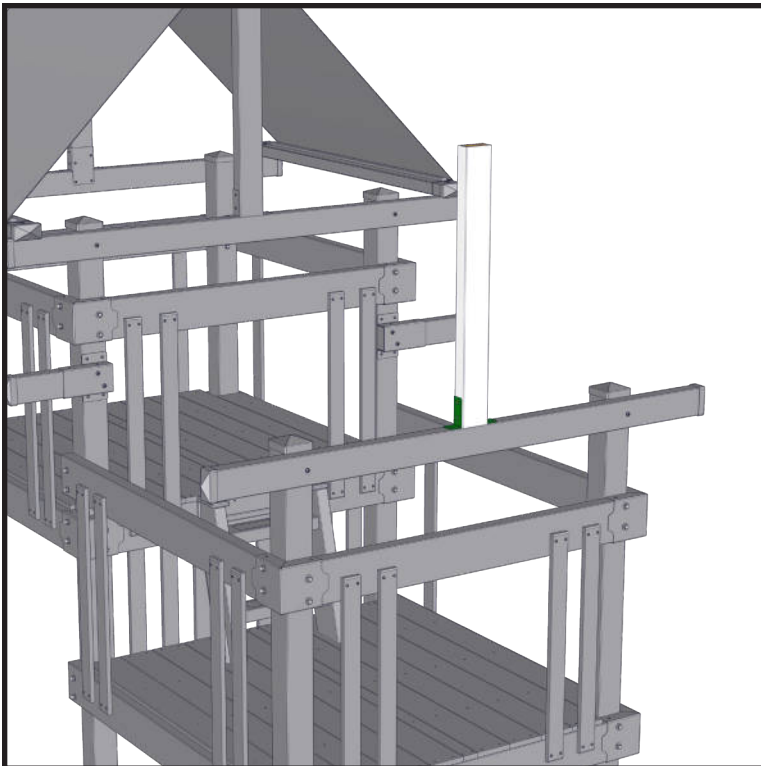
Fasten the bracket to the 4x4 post using **four 1 3/4" washer head screws** per bracket. Then fasten the 2x4 to the post using **two 3" star head lags** per 2x4.



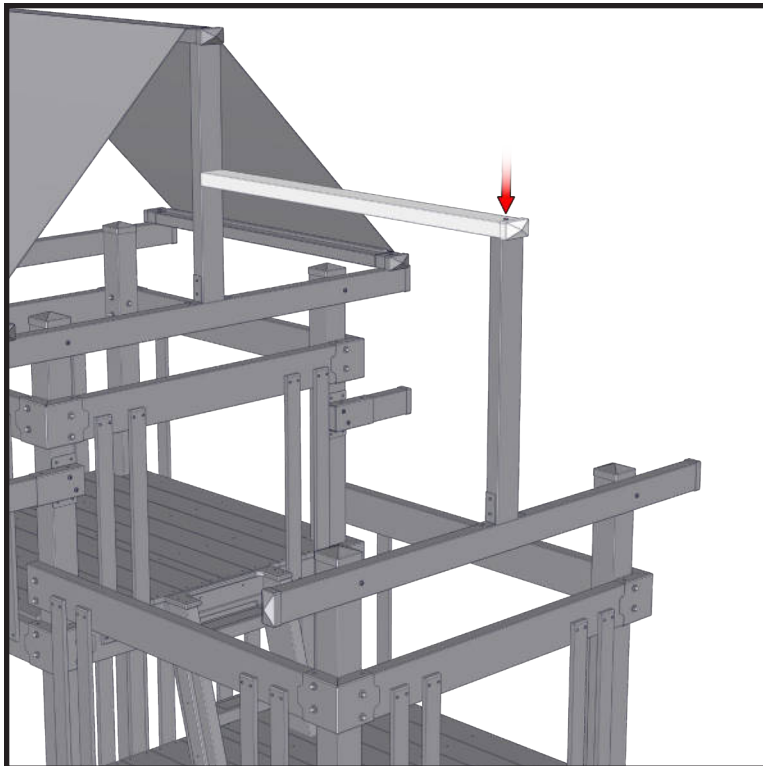
Step 11.

Place the last 80" 2x4 on the outside 4x4 posts. Fasten it using 3 1/2" star head lags.

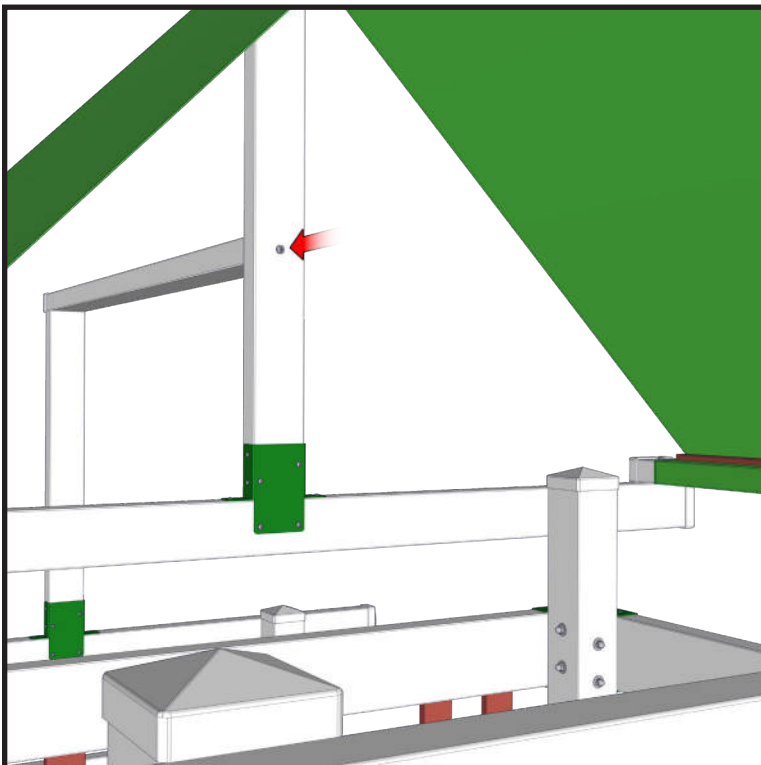
Note: This 2x4 is pre-drilled through the front and the top, make sure the top holes are facing up.



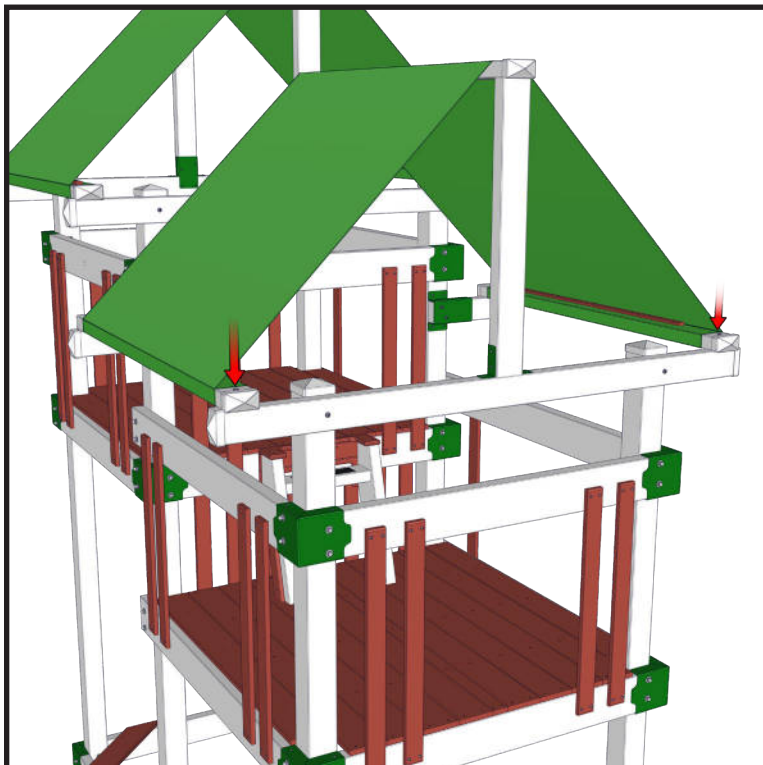
Step 8.
Place a 37" 2x4 with a bracket on the lower 80" 2x4.
Center it and fasten it with 1 3/4" washer head screws.



Step 9.
Place the 58 1/2" 2x4 in place as shown. Fasten the outside end
with a 3 1/2" star head lag.



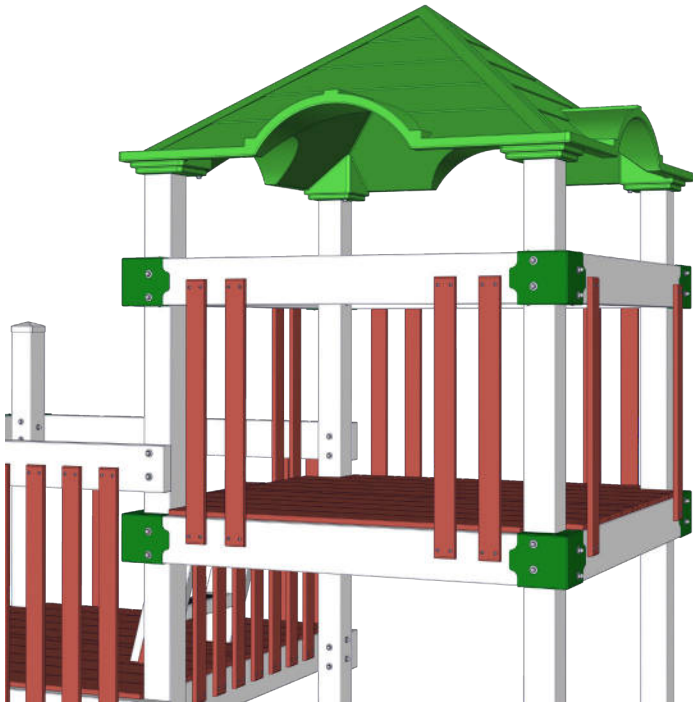
Step 10.
Check the 58 1/2" 2x4 to ensure it is level then drill a 1/4" hole
through the 37" 2x4.
Use a 3 1/2" star head lag to fasten the 58 1/2" 2x4.



Step 11.
Place the lower tarp roof into place and fasten it using the same
steps as the previous roof.

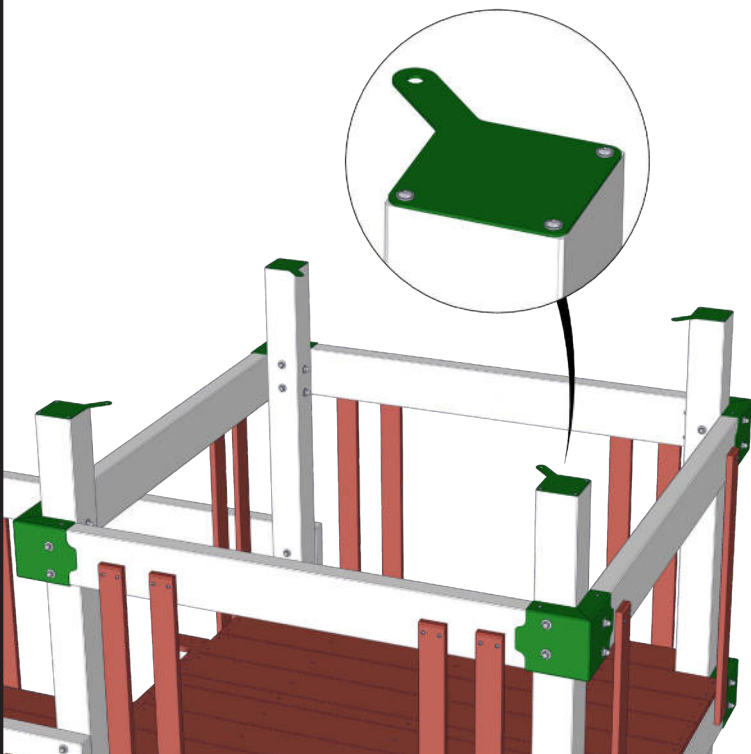
Gable & Pyramid Roof

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



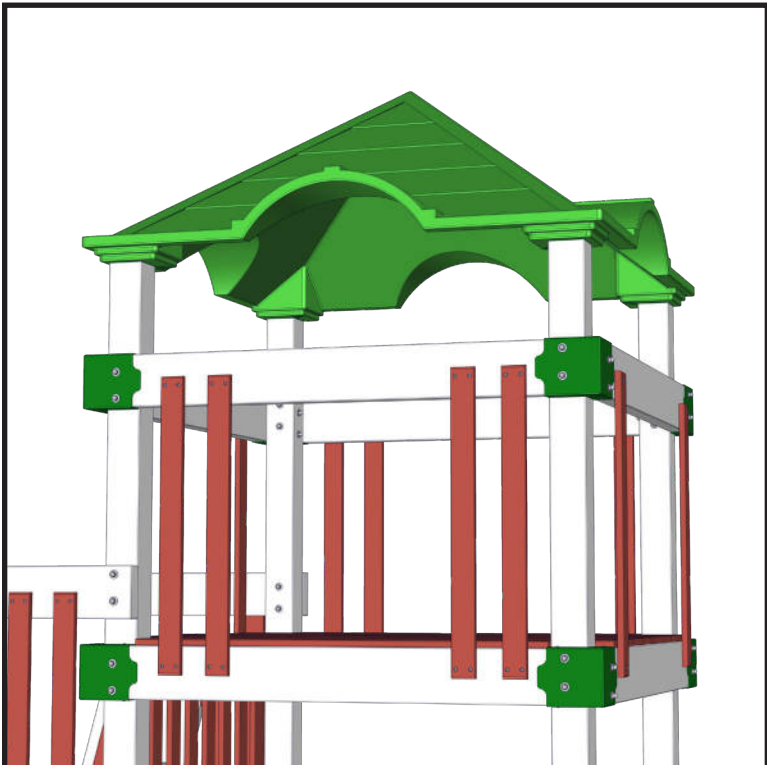
Step 1.

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



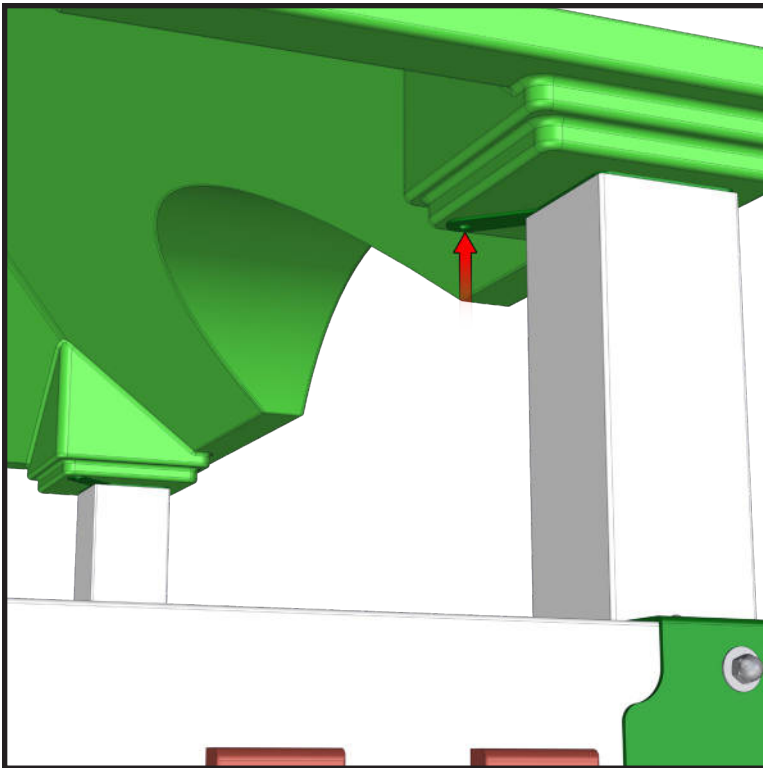
Step 2.

Place the mounting brackets on top of the 4x4 posts with the tabs facing in. Fasten the brackets using three 3" square drive screws per bracket.

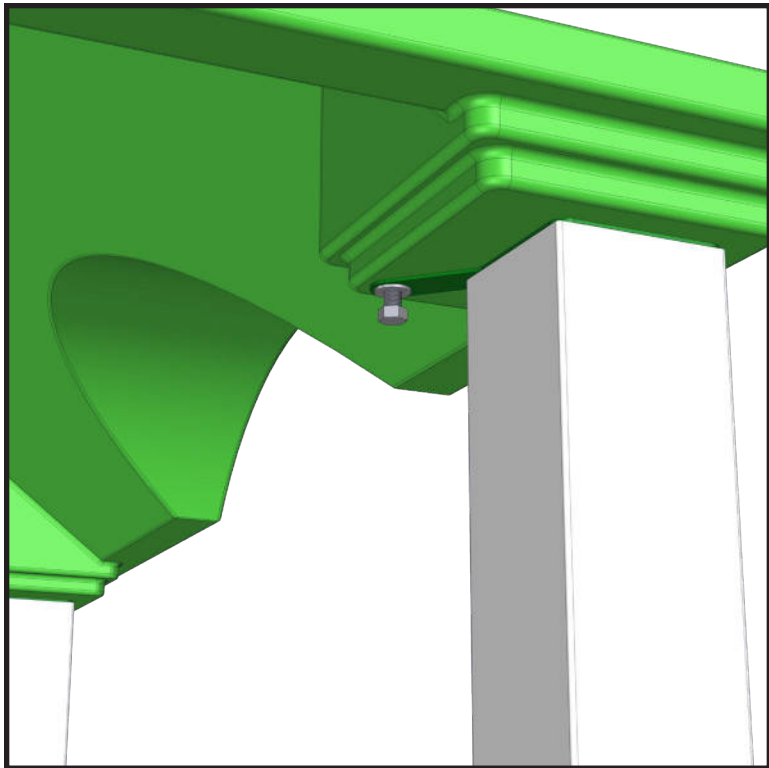


Step 3.

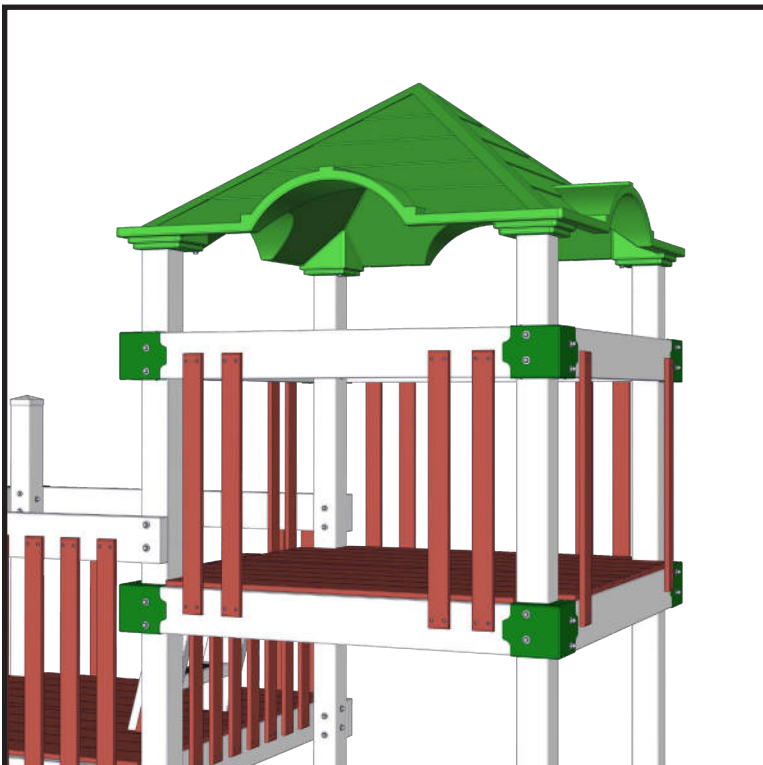
Place the roof on top of the brackets and center it both ways.



Step 4.
Drill a $\frac{3}{8}$ " hole up into the roof at each bracket using the holes in the brackets as a guide.

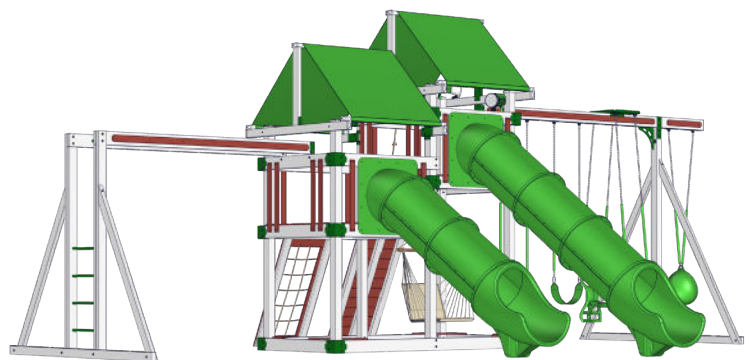


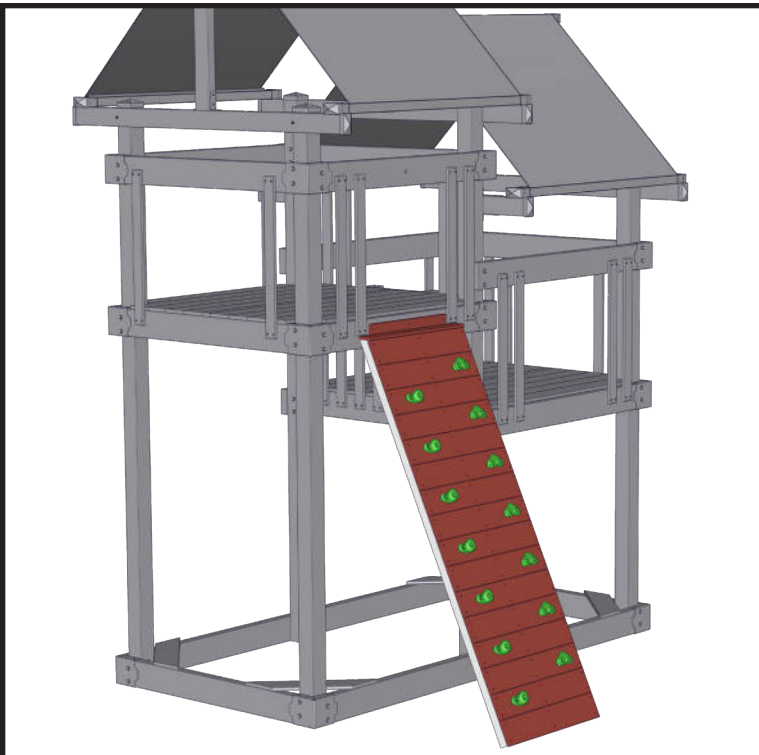
Step 5.
Fasten the roof to the bracket using a 1 1/2" hex head lag.



Finished Roof

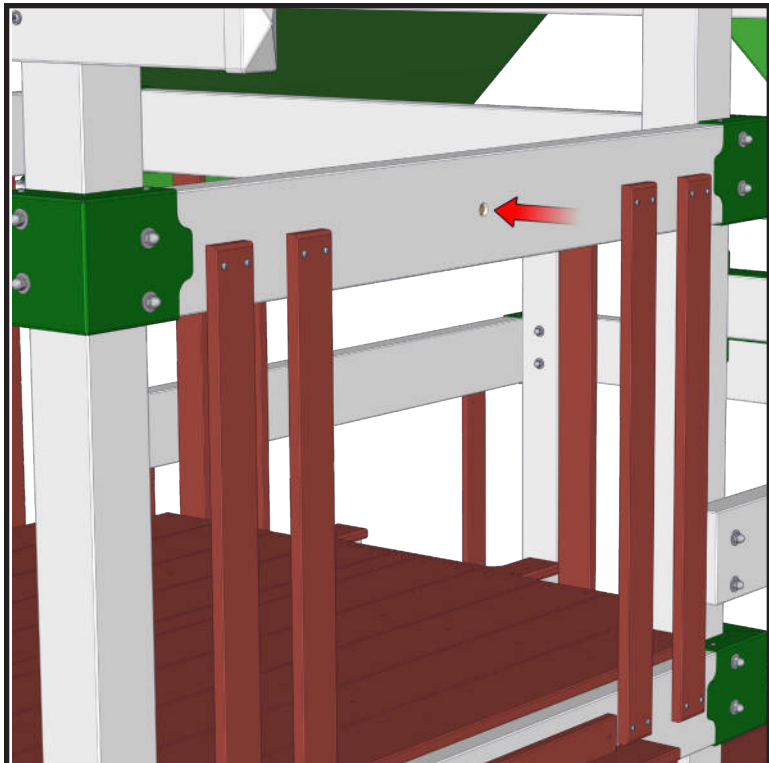
Accessories





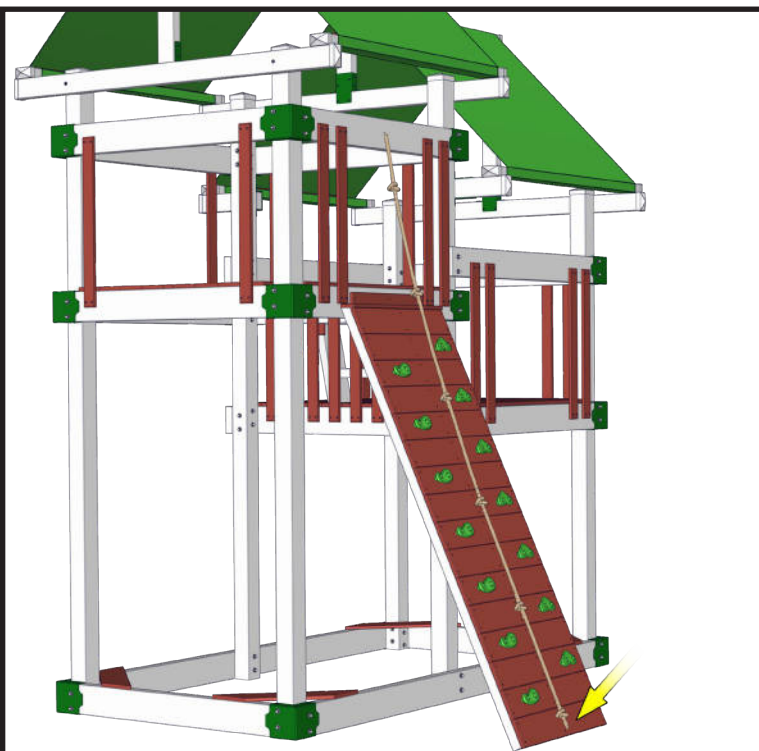
Rock Wall

Place the rockwall in place on the tower and center it between the slats.
Fasten it to the tower using 1 ½" poly screws.



Rock Wall Rope

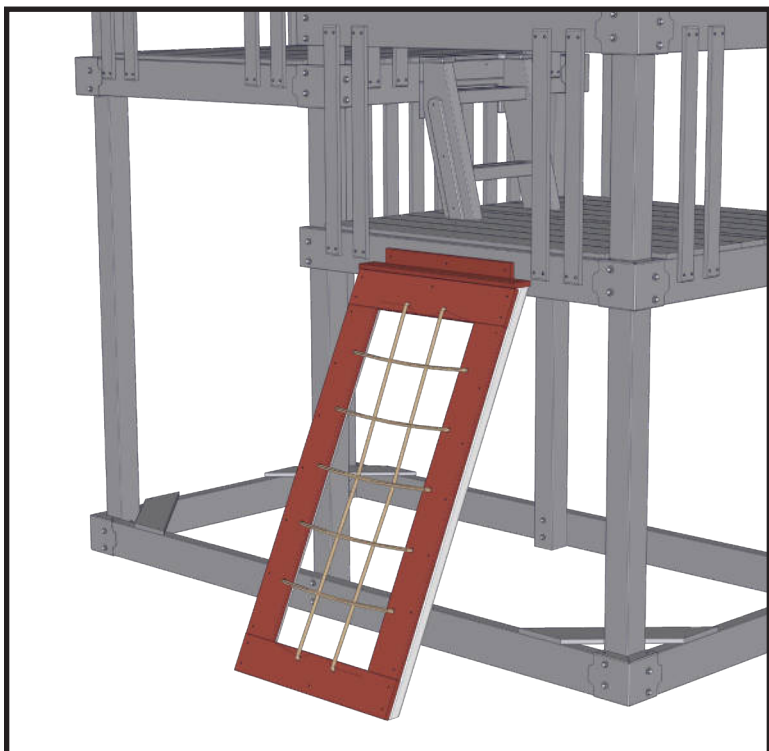
Drill a ¾" hole in the 2x6 railing above the rock wall for the rock wall rope.



Rock Wall Rope

Insert one end of the rope through the hole in the 2x6 and tie a knot in it to hold it in place.

Drill a hole in the bottom of the rock wall and insert the other end of the rope then tie a knot to hold it in place.



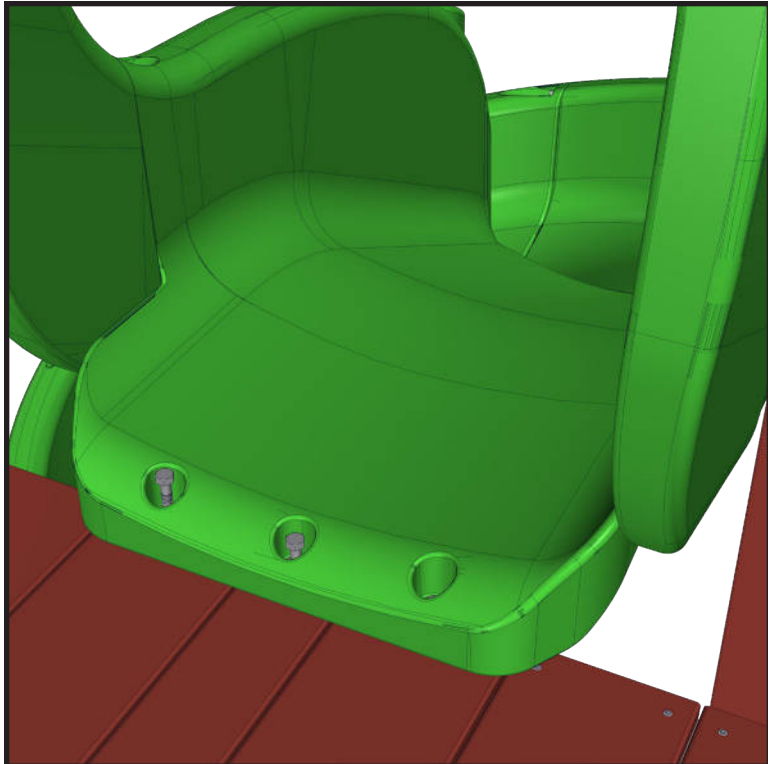
Cargo Net

Place the cargo net in an open spot on the tower then fasten the top board to the tower using 1 ½" poly screws.



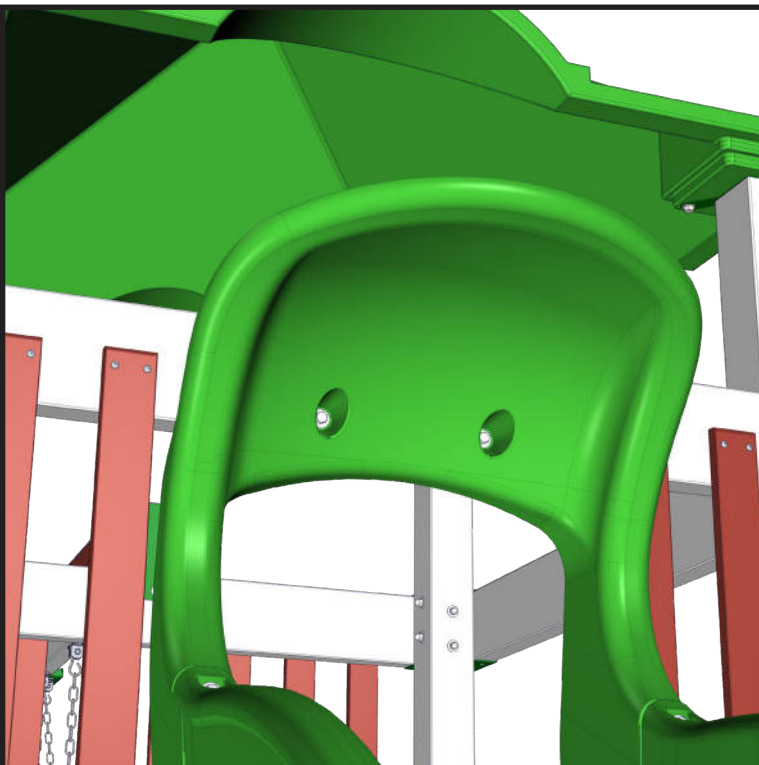
Super Spiral Slide

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



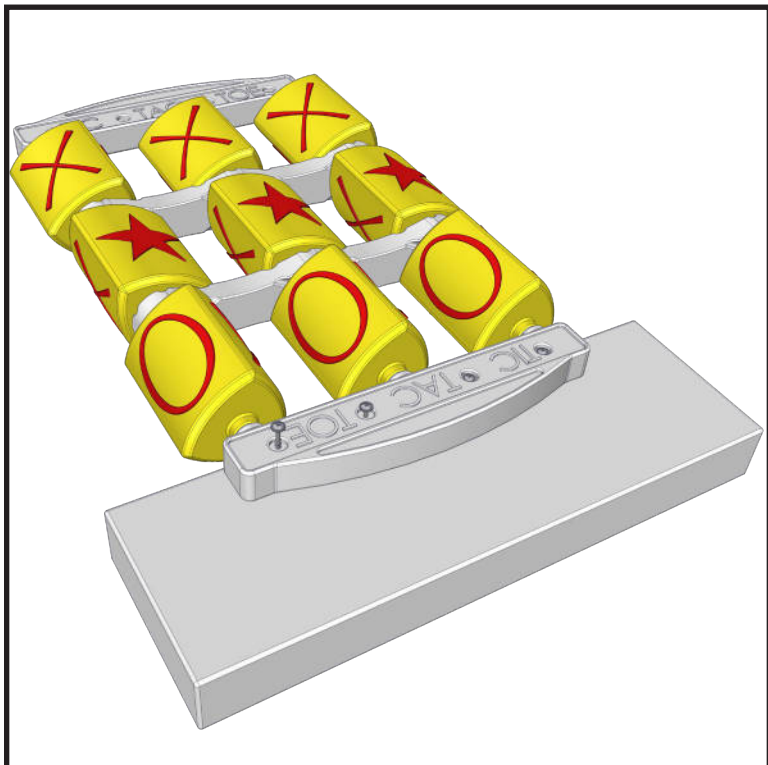
Super Spiral Slide

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



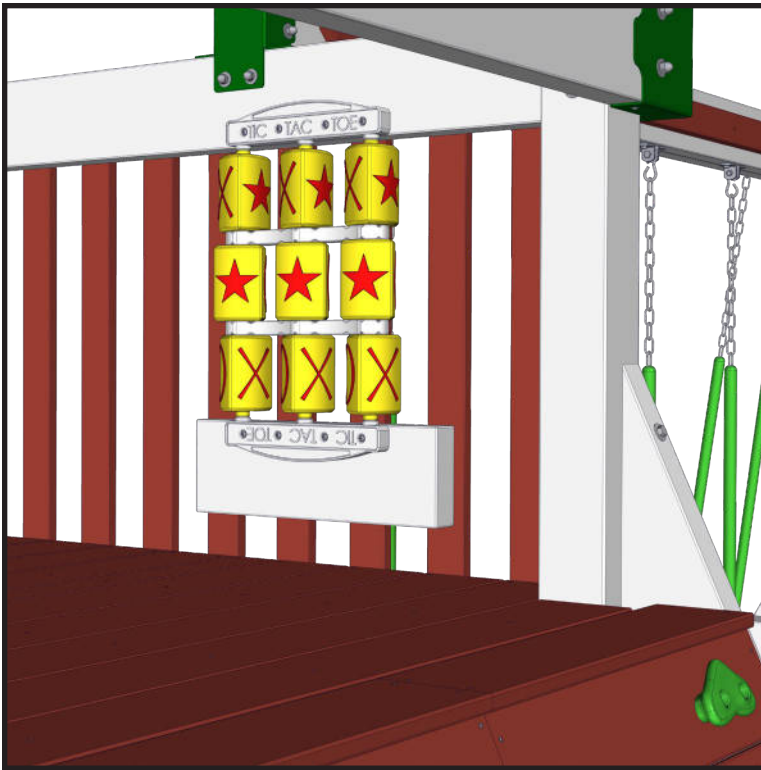
Super Spiral Slide

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



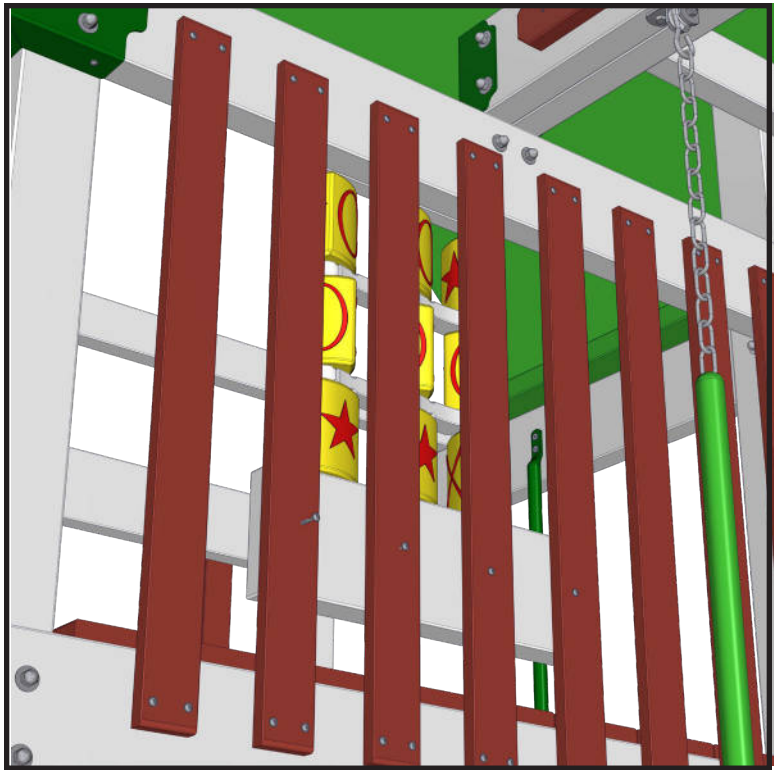
Tic Tac Toe Panel

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



Tic Tac Toe Panel

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



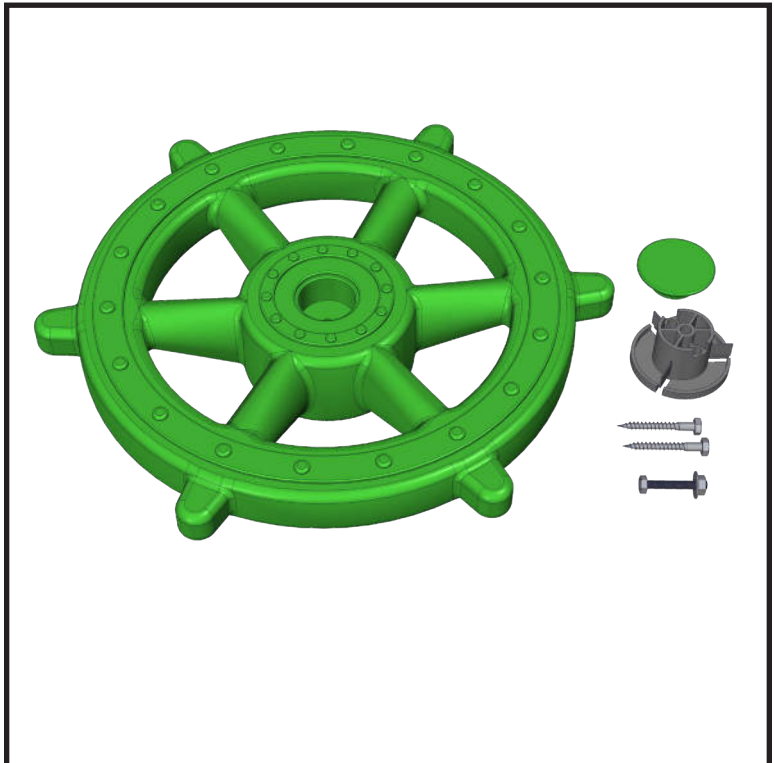
Tic Tac Toe Panel

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



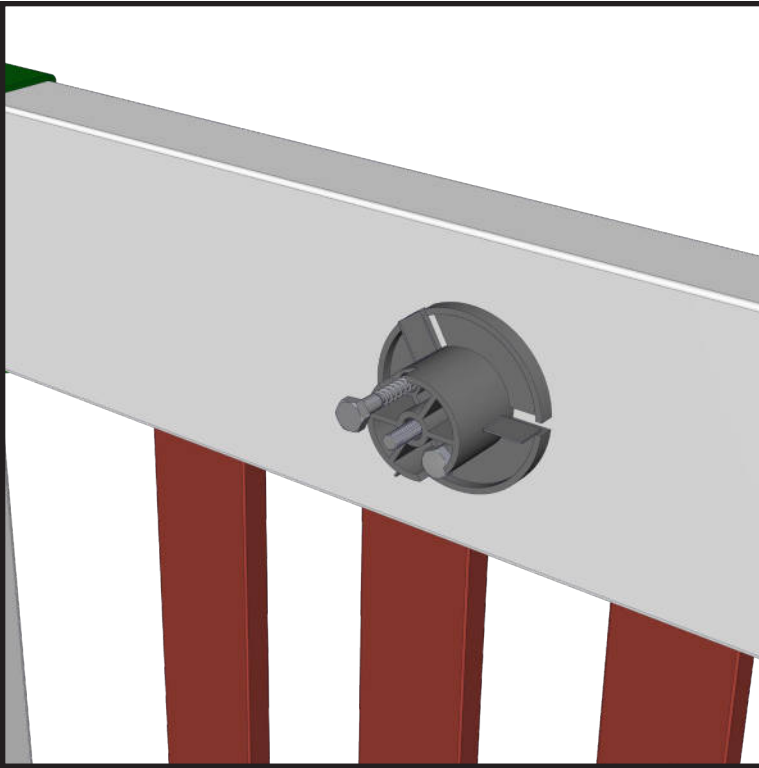
Tire Swing

Place the tire swing bracket on the center floor joist then drill two $\frac{1}{4}$ " holes. Fasten the bracket using the included hardware then attach the tire swing to the bracket.



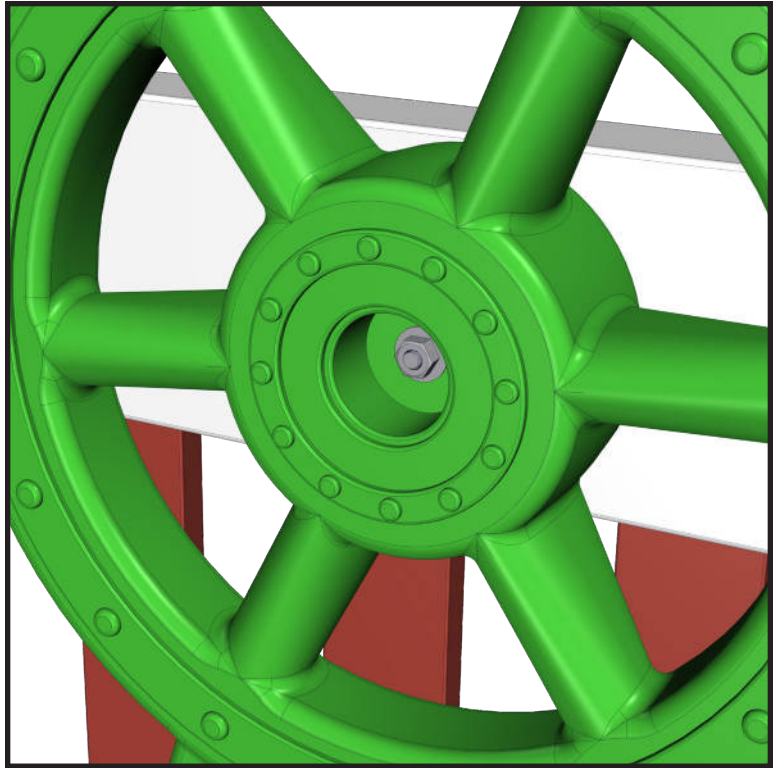
Ships Wheel

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



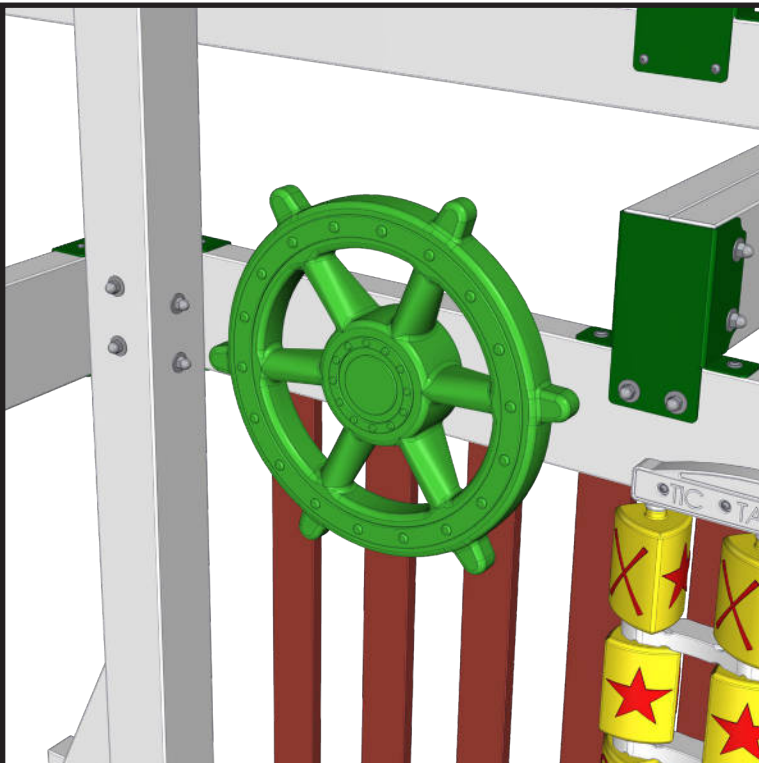
Ships Wheel

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

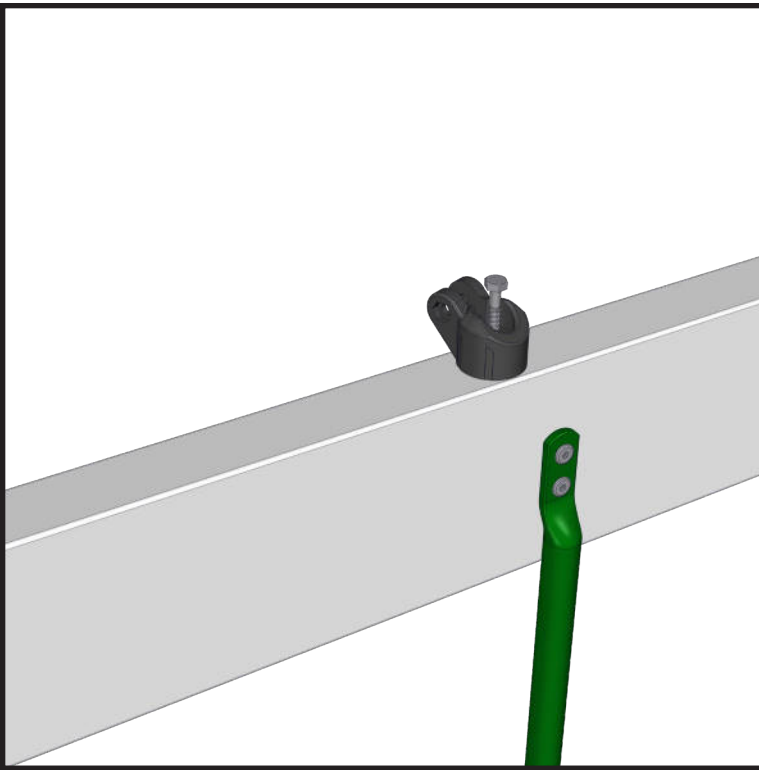
Install the cover to finish the ships wheel.



Binoculars

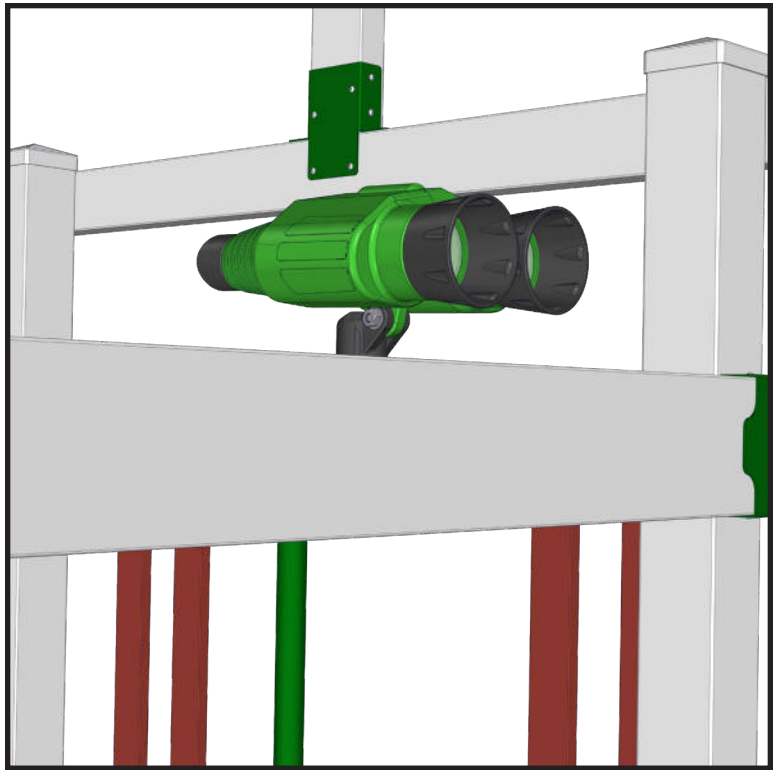
The binoculars should come with a mounting base, a bolt and a lag.

Note: The Binoculars, Telescope, Megaphone and Spotlight all have the same mounting base and are installed in the same way.



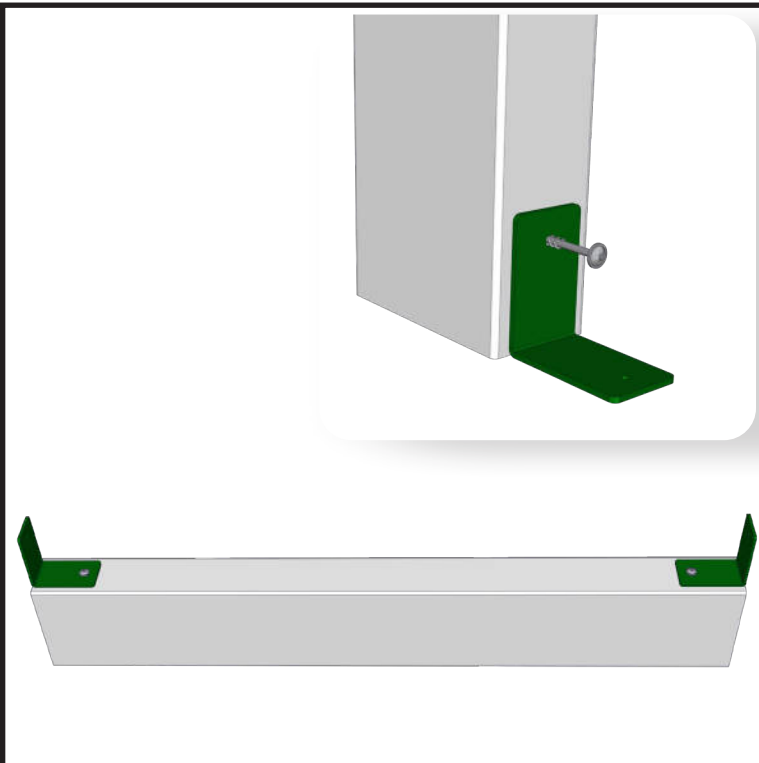
Binoculars

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



Binoculars

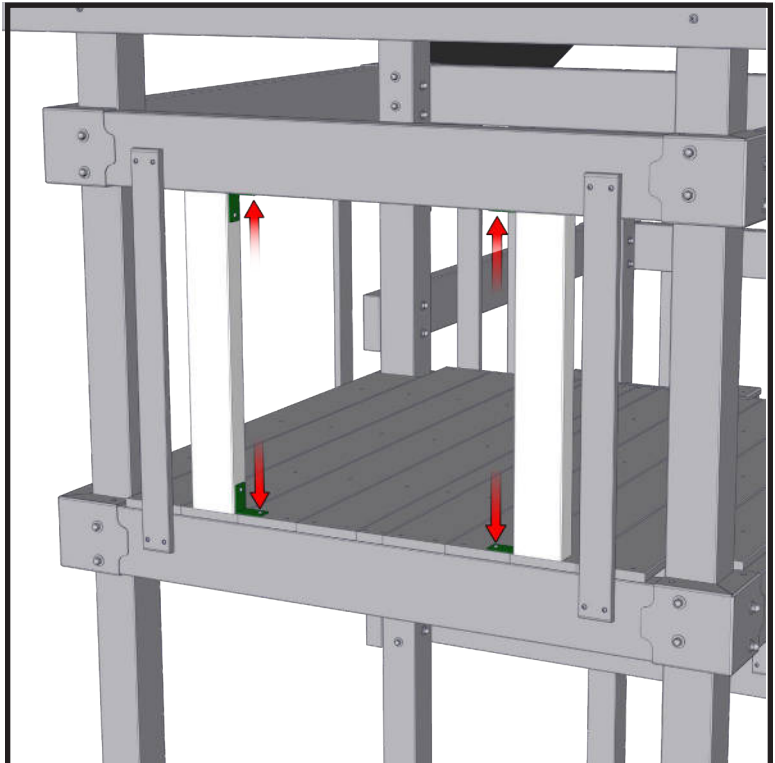
Attach the binoculars to the base using the bolt.



Framing for Bubble Panel and Peek-A-Boo Panel

Find the 26" 2x4's and small angle brackets.

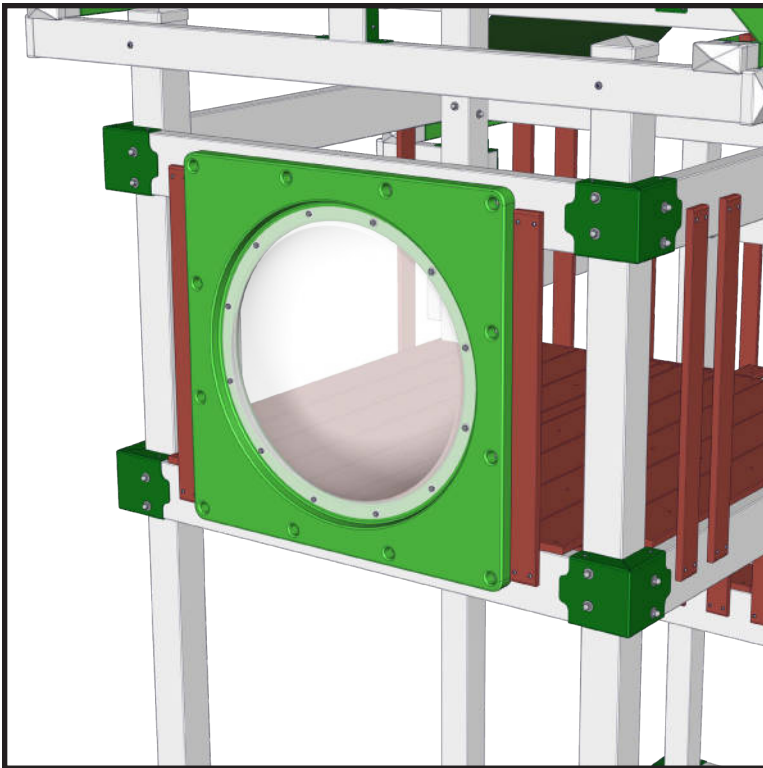
Fasten the brackets to the end of the 2x4's with 1 3/4" washer head screws.



Framing for Bubble Panel and Peek-A-Boo Panel

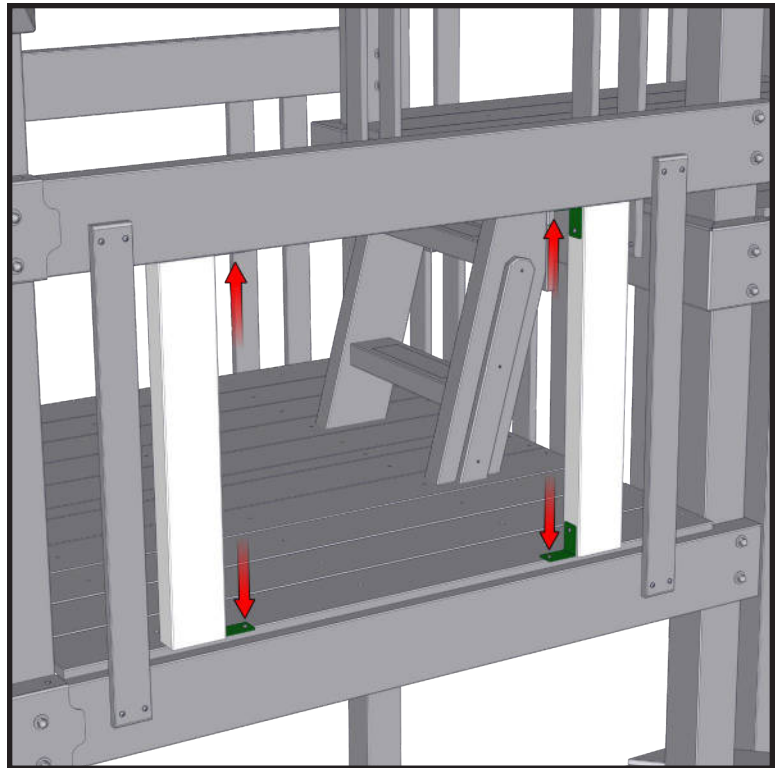
Fasten the 2x4's to the platform using the same screws.

Measure the panel width to determine the 2x4 spacing.



Bubble Panel and Peek-A-Boo Panel

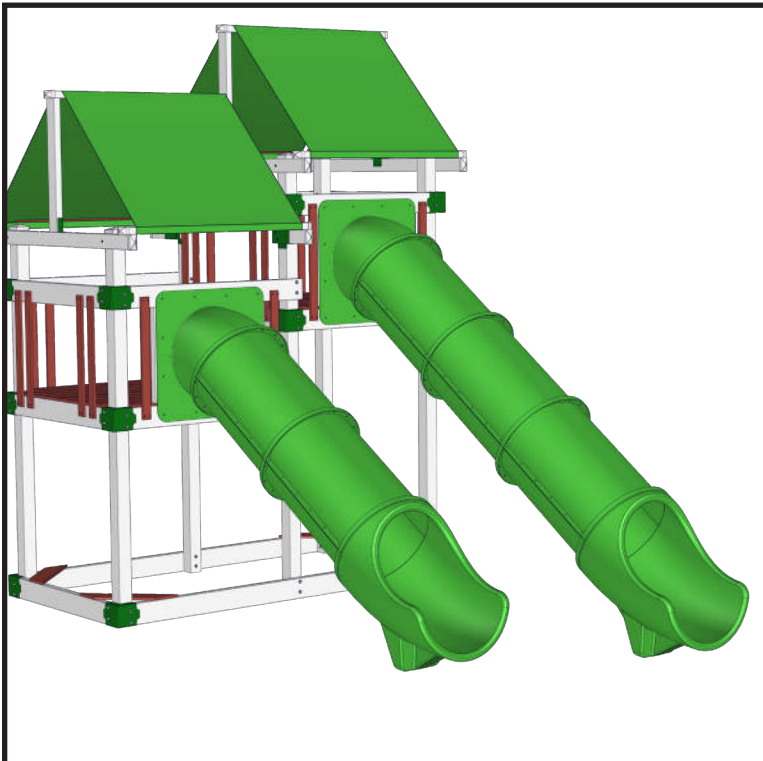
Place the bubble panel in position after installing the 2x4's. Center it in each direction then fasten it with the included hardware.



Side Winder Slide, Tornado Tube & Tunnel Express Slide

These slides use the same framing as the bubble panel and peek-a-boo panel.

Fasten the 26" 2x4's using 1 3/4" washer head screws. Measure the panel width to determine the 2x4 spacing.



Side Winder Slide, Tornado Tube & Tunnel Express Slide

Assemble the slide using the assembly manual included with the slide.

Place the slide in position then fasten it with 1 3/4" washer head screws.



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.

