

Avalanche 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
54" 4x4 Post	4
73 1/2" 2x6	2
56" 2x6	6
81 1/4" 2x6 Legs	4
79 1/2" 2x6	2
66 1/4" 2x6	1
15 1/2" 2x6 Brace	4
56" 2x4 Joists	3
Floorboards	11
Poly Slats	
2x6 Corner Brackets	4

Tarp Roof	
104" 2x4	2
61" 2x4	3
51" 2x4	2
Tarp Roof	1
2x4 Roof 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

Accessories	
Ladder	1
Ladder Handrail	1
Cargo Net	1
Rock Wall	1
Wonder Wave Slide	1
Super Spiral Slide	1
Tic Tac Toe Panel	1
Ships Wheel	1
Captains Wheel	1
Binoculars	1
Tire Swing	1
Belt Swings	
Glider Swing	1
Glider Swing Bracket	1

HARDWARE



$\frac{3}{8} \times 6 \frac{7}{8}$ "
Threaded Rod



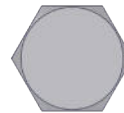
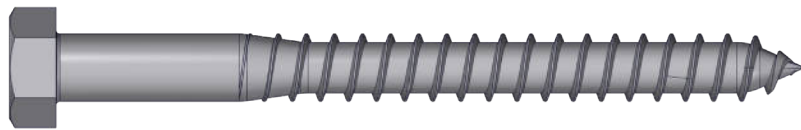
$\frac{3}{8} \times 6 \frac{1}{8}$ "
Threaded Rod



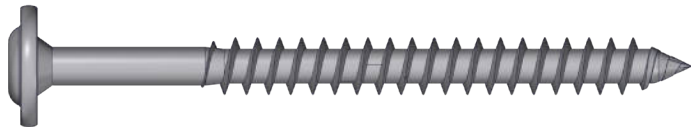
$\frac{3}{8} \times 4 \frac{7}{8}$ "
Threaded Rod



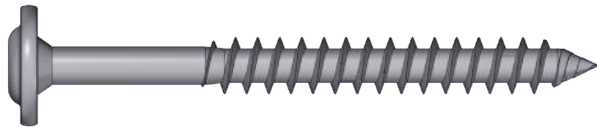
$\frac{3}{8} \times 2 \frac{3}{4}$ "
Threaded Rod



$\frac{3}{8} \times 4$ " Hex Head Lag



3 $\frac{1}{2}$ " Star Head Lag



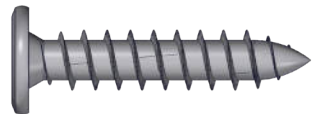
3" Star Head Lag



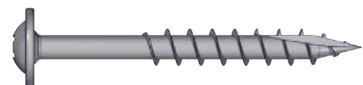
3" Square Drive Screw



$\frac{3}{8} \times 1 \frac{1}{2}$ " Hex Head Lag



1 $\frac{1}{2}$ " Wafer Head Lag



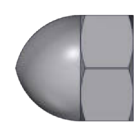
1 $\frac{3}{4}$ " Washer Head Screw



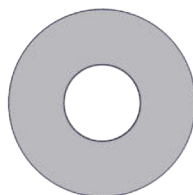
1 $\frac{1}{2}$ " Poly Screw



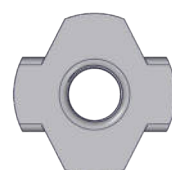
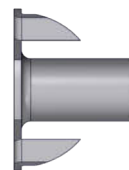
1 $\frac{1}{4}$ " Poly Screw



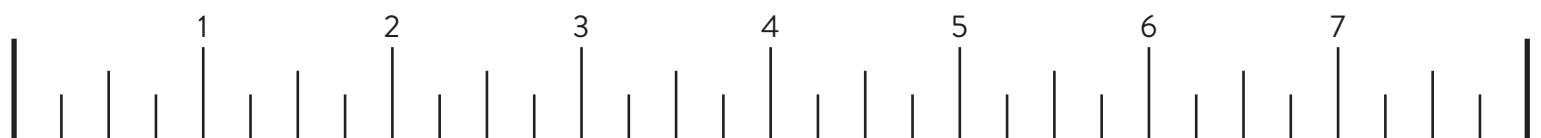
$\frac{3}{8}$ " Acorn Nut



$\frac{3}{8}$ " Washer



$\frac{3}{8}$ " T-Nut





Step 1.

Begin the assembly by locating the two 56" 2x6's with the joist hangers attached. Place them as shown with the joist hangers facing in.

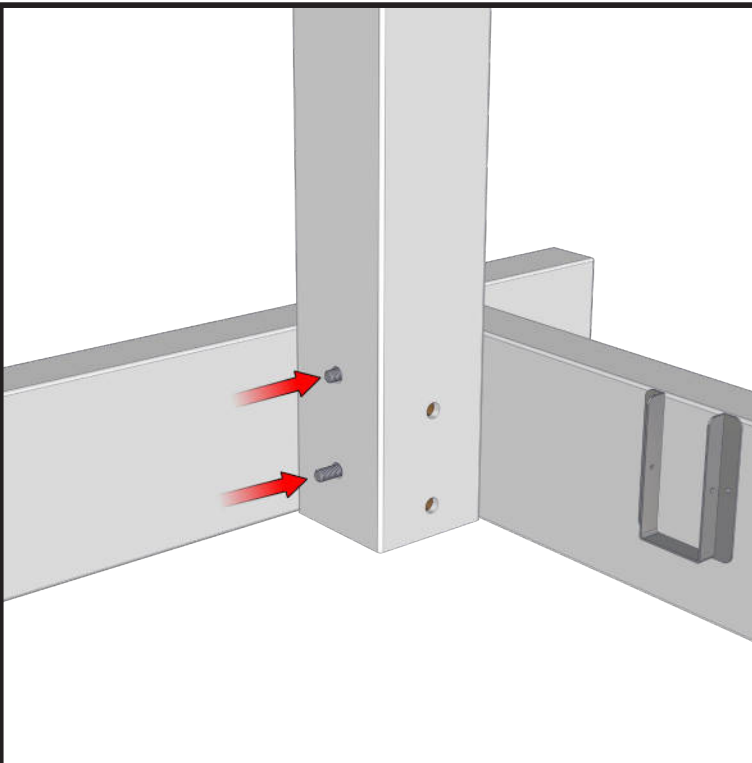
Next place the two 73 1/2" 2x6's on the outside.



Step 2.

Place four 54" 4x4 posts in place.

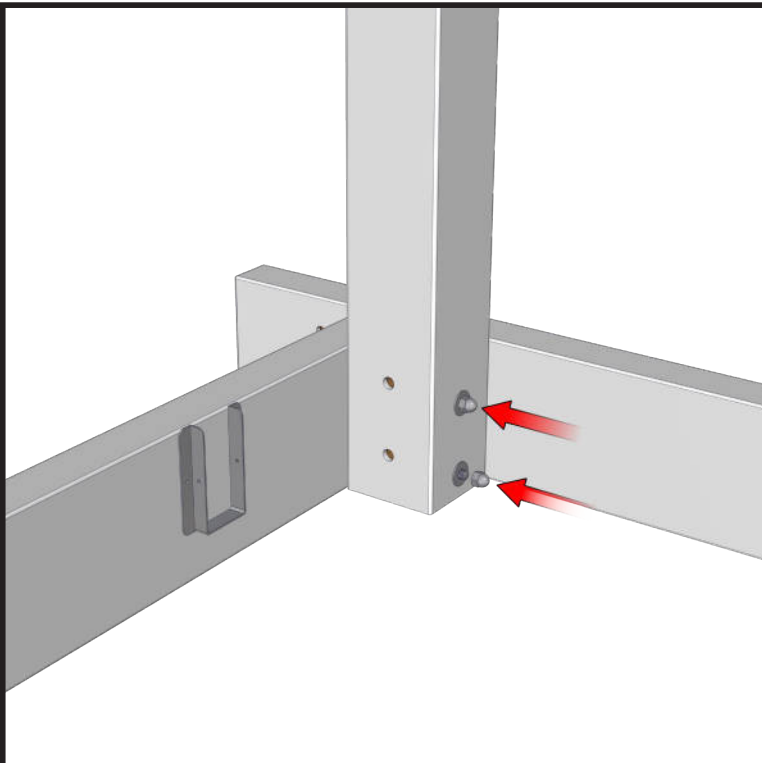
These are pre-drilled for the threaded rods, notice how the holes are offset and need to align with the holes in the 2x6's.



Step 3.

Insert eight 6 1/8" threaded rods into the 54" 4x4's.

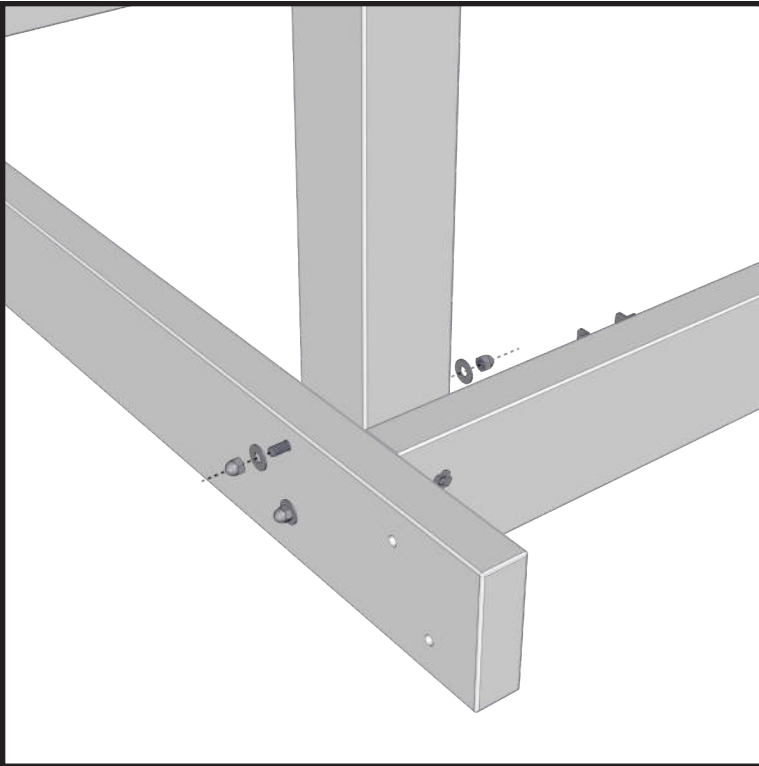
Turn them in by hand until you feel the threads engage with the T-Nuts.



Step 4.

Fasten the 4x4 posts in place with washers and acorn nuts over the threaded rods.

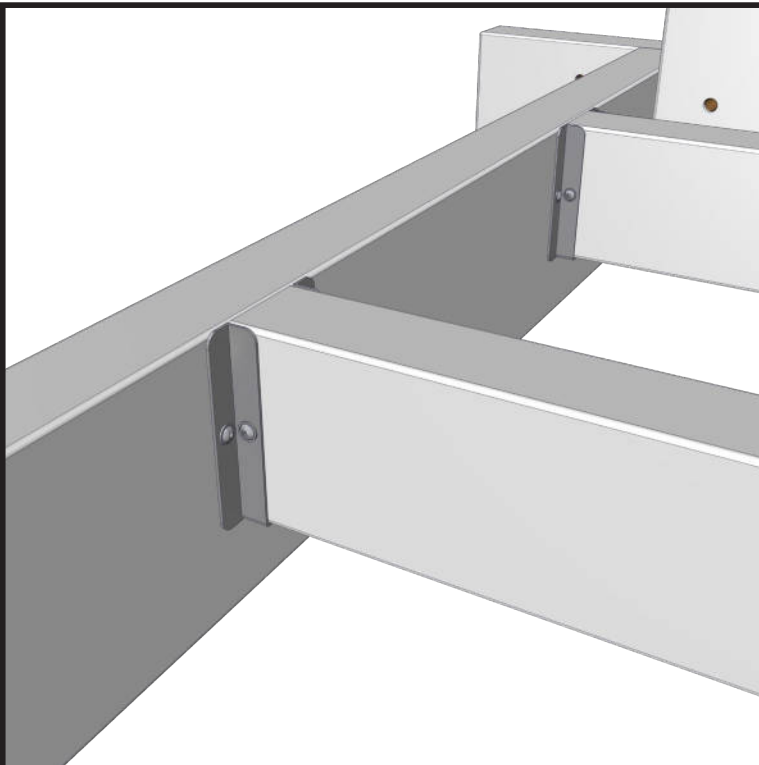
Only hand tighten these at this point.



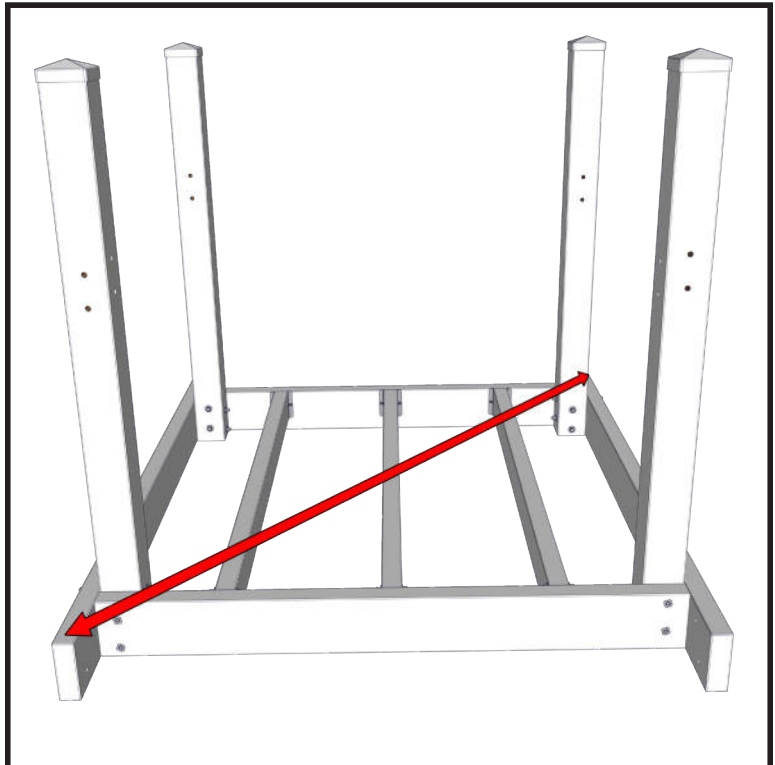
Step 5.
Fasten the posts to the side 2x6's using 6 7/8" threaded rods, washers and acorn nuts.
At this point you can go around and tighten all the nuts.



Step 6.
Place three 56" 2x4 floor joists in the joist hangers.



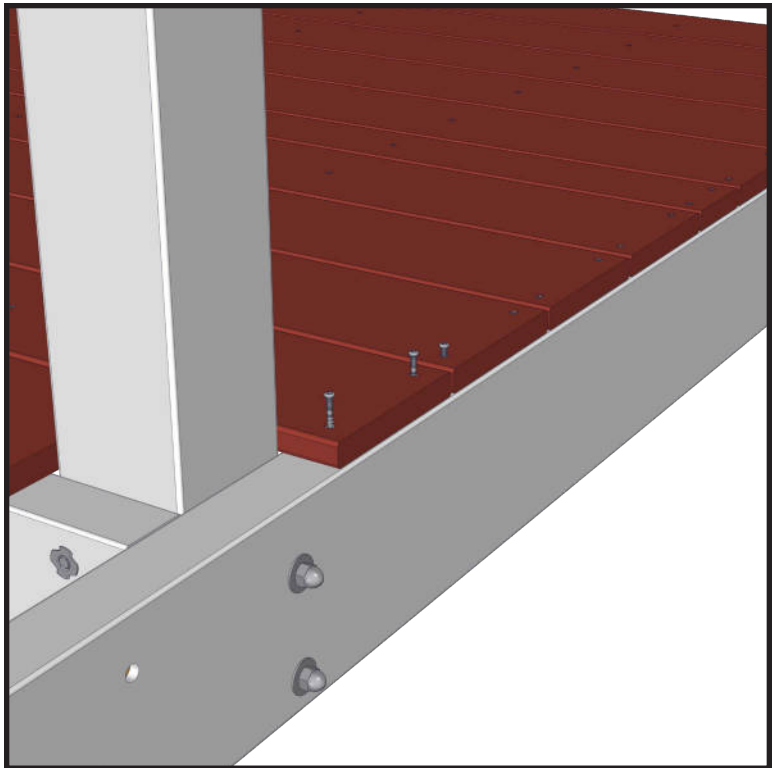
Step 7.
Fasten the floor joists through the joist hangers using 1 3/4" washer head screws.



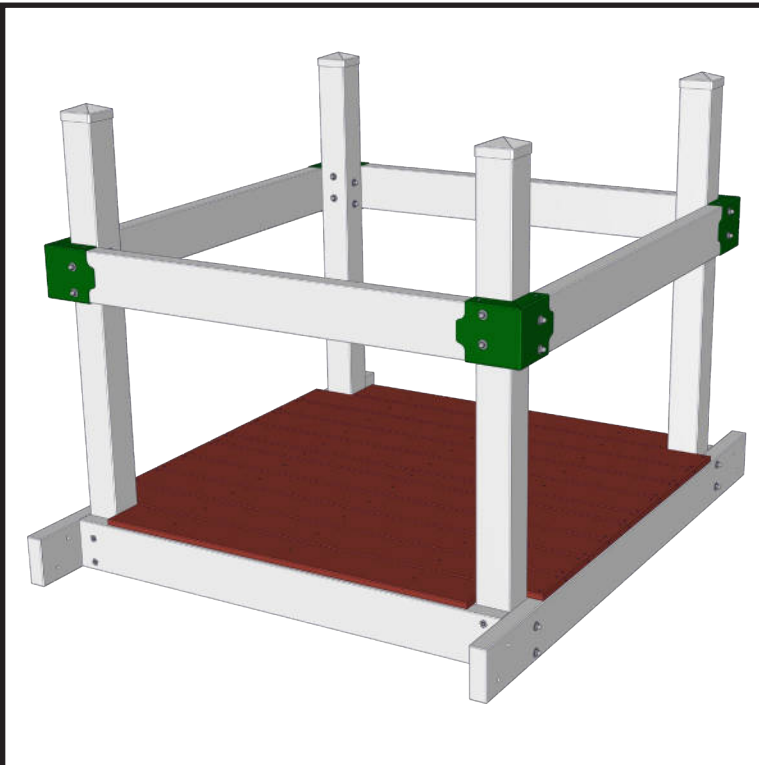
Step 8.
Before you install the floor measure across the corners to square the frame.



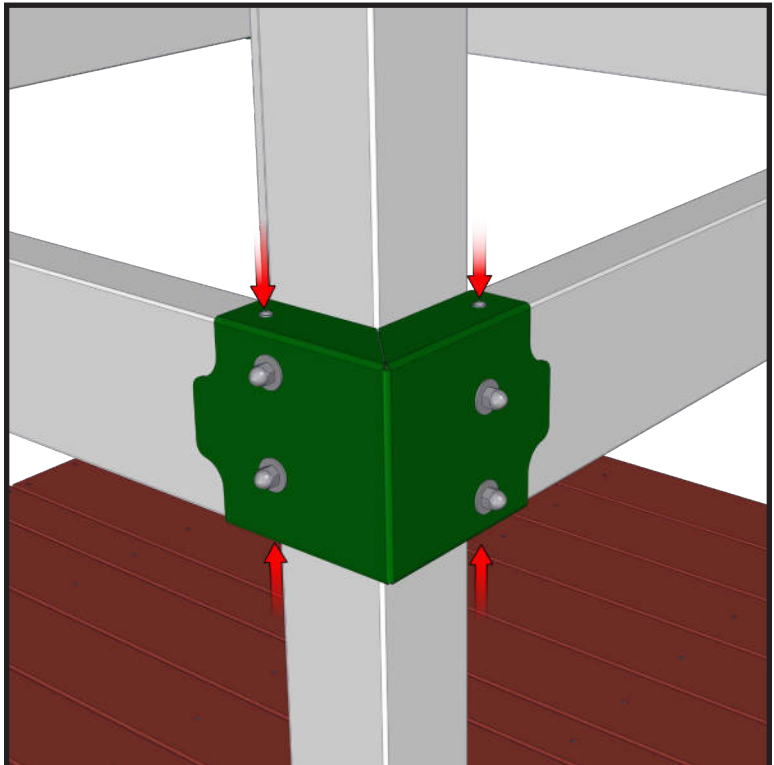
Step 9.
Lay the floorboards into position.
Notice the narrow one in the center and the two short ones on either side.



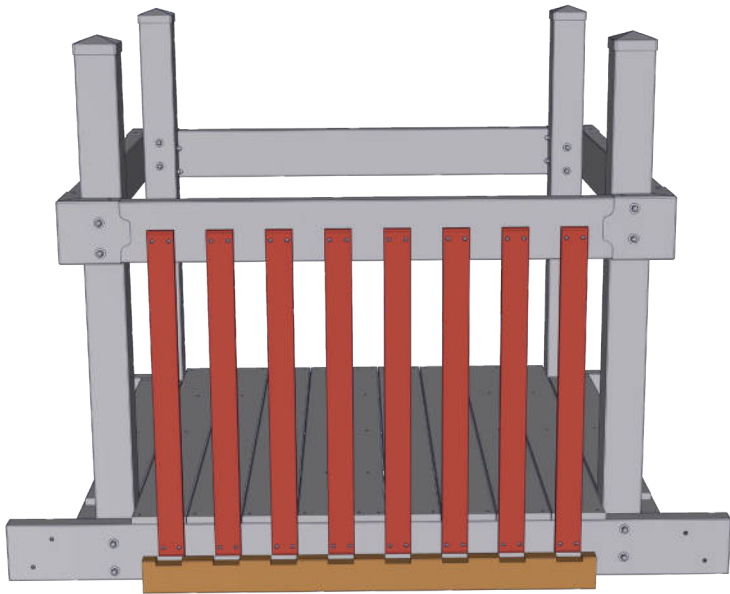
Step 10.
Center the floorboards and fasten them with 1 ½" poly screws through the pre-drilled holes.



Step 11.
After the floor is finished assemble the railing section using 56" 2x6's, 2x6 corner brackets and 6 7/8" threaded rods with washers and acorn nuts.

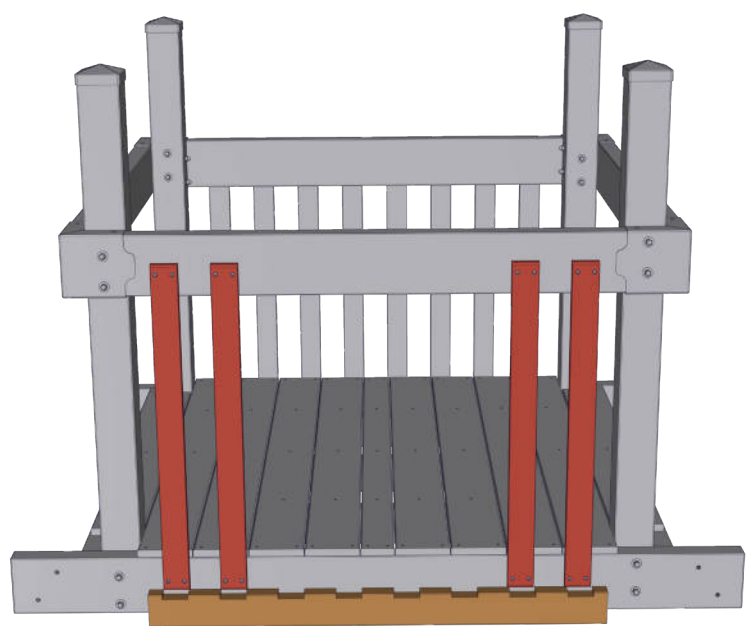


Step 12.
Fasten the top and bottom of each 2x6 corner bracket with 1 ¾" washer head screws.



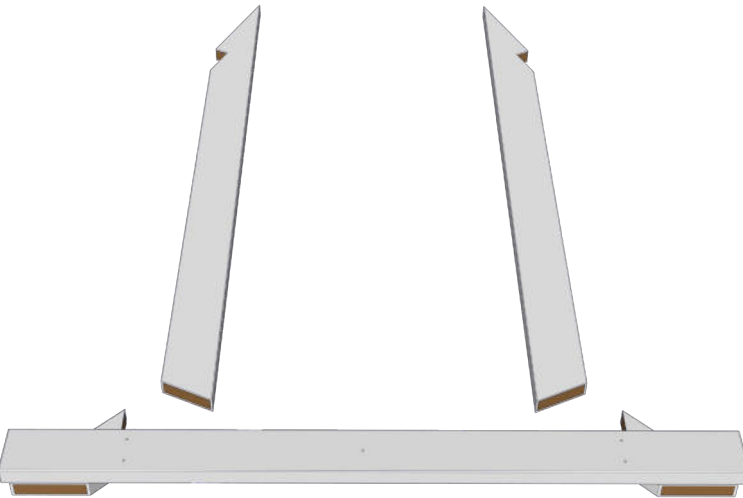
Step 13.

The next step is to fasten the poly slats to the 2x6's to complete the railings. Use the included template to align the slats then fasten them with 1 3/4" washer head screws.



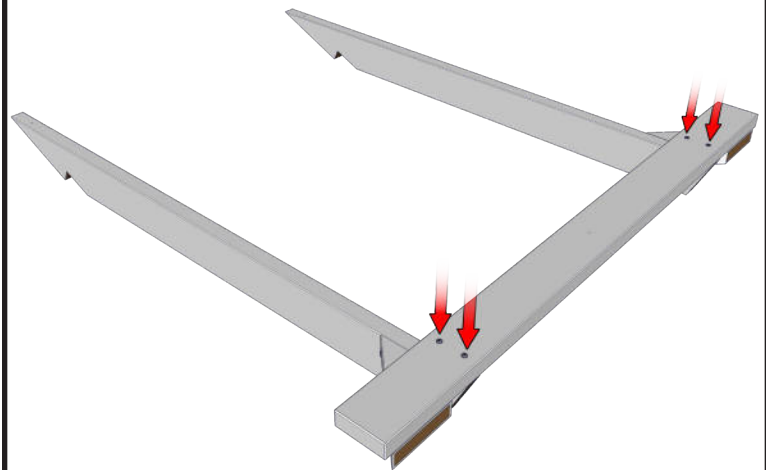
Step 14.

The side with a slide gets two slats on each side.



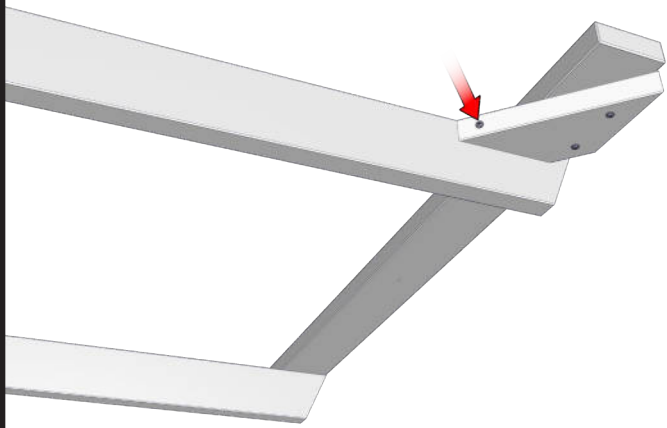
Step 15.

Prepare to assemble the legs by locating these pieces. There are two 81 1/4" 2x6's for the sides and one 79 1/2" 2x6 for the bottom. The bottom 2x6 will have two 15 1/2" 2x6 braces already attached.



Step 16.

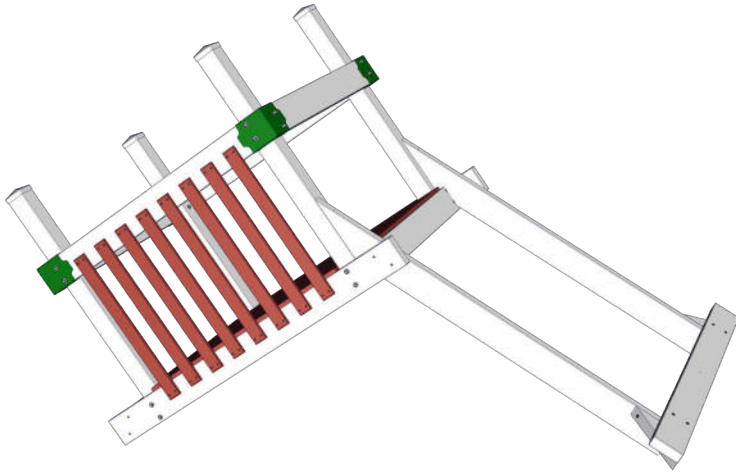
Set the side 2x6's upright and set the bottom 2x6 on top. Keep the bottom 2x6 even with the long point on the side 2x6's. Fasten them together with four 3 1/2" star head lags in the predrilled holes.



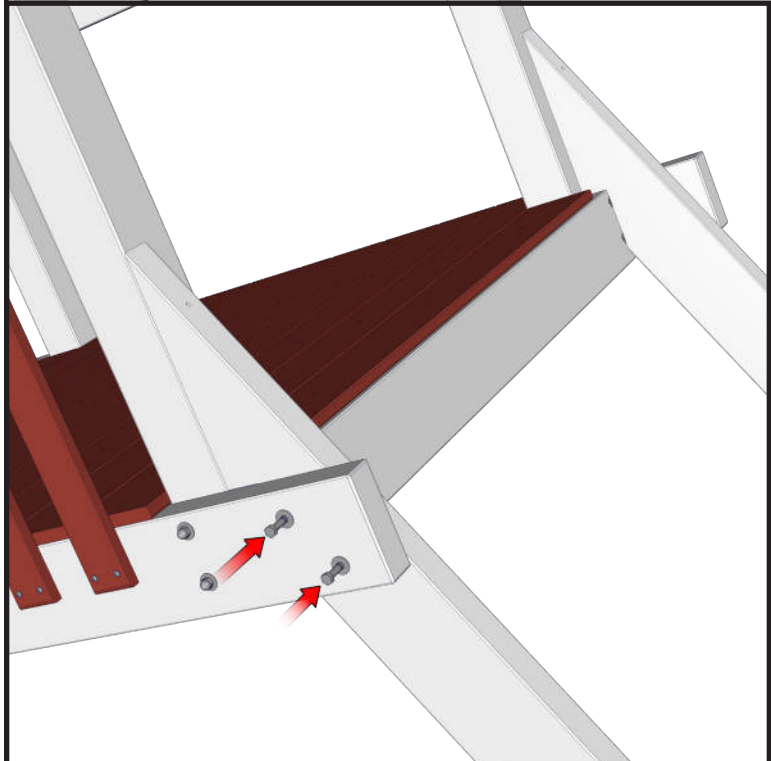
Step 17.
Fasten the 2x6 brace to the side 2x6 using the same lags.



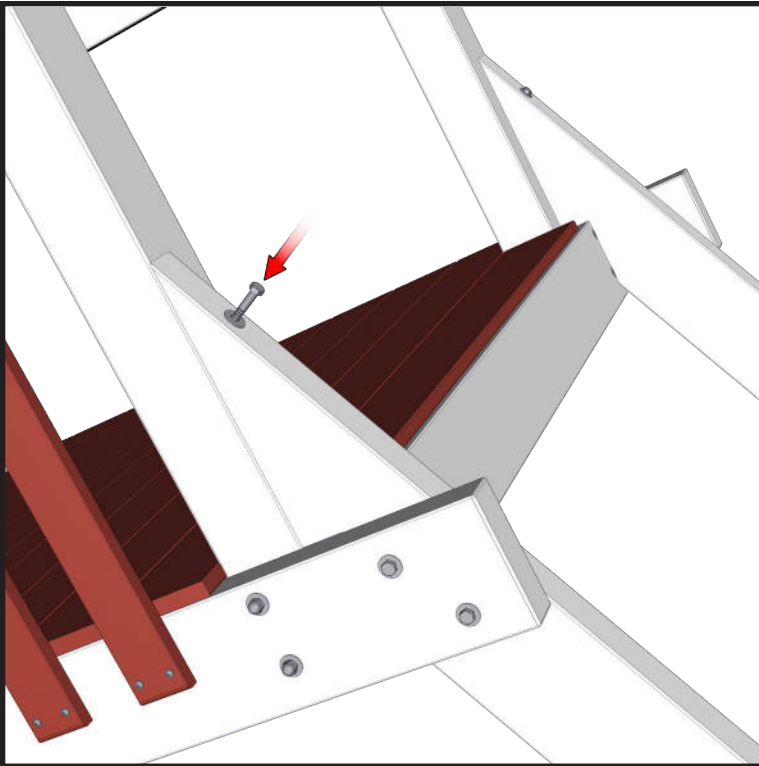
Step 18.
Repeat steps 15-17 to assemble the opposite leg.



Step 19.
Lift one side of the tower up and place one of the legs into place.



Step 20.
Attach the legs using four 4" hex head lags with washers. Use the pre-drilled holes in the outside 2x6 to position the lags then use $\frac{9}{16}$ " socket on an impact driver to fasten them.



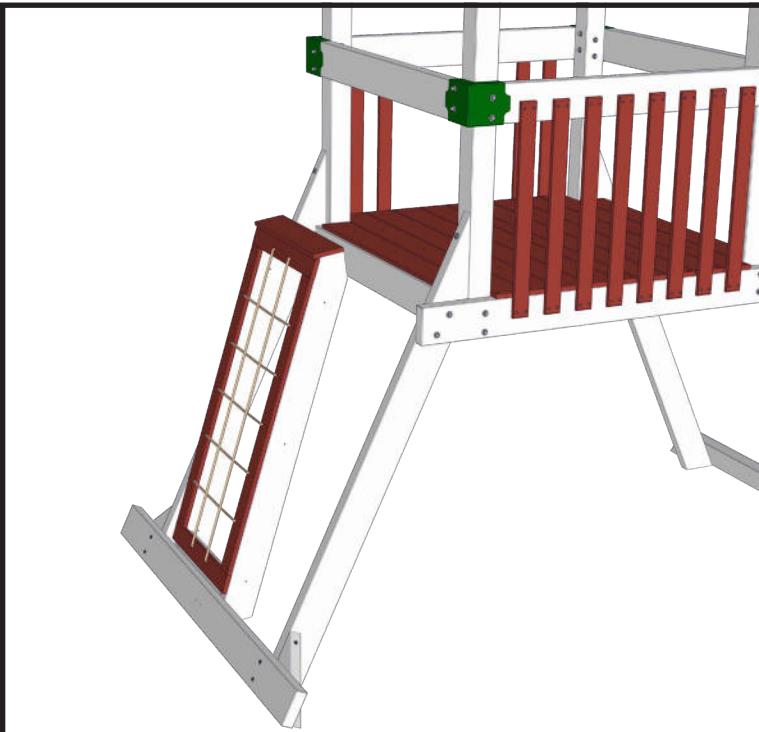
Step 21.

Use a 4" hex head lag in the predrilled hole on the end of the 2x6 leg to finish fastening them.
You may have to predrill the 4x4 with a 1/4" bit to get it started.



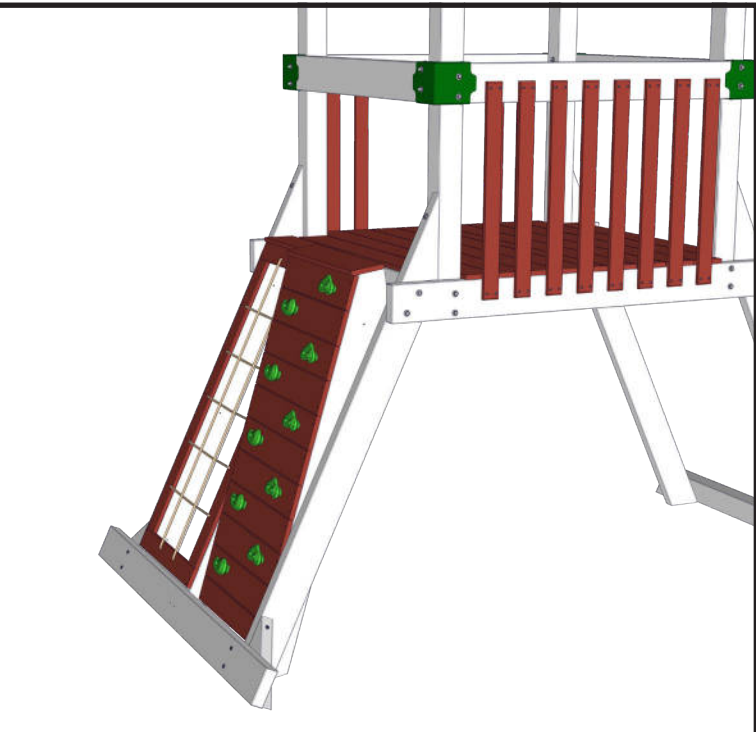
Step 22.

Repeat steps 19-21 to finish the legs.



Step 23.

Locate the cargo net, rock wall and ladder panels and prepare to install them.
These are all interchangeable with each other and can be arranged however you like.
There will be a empty spot next to one of the panels for the slide.

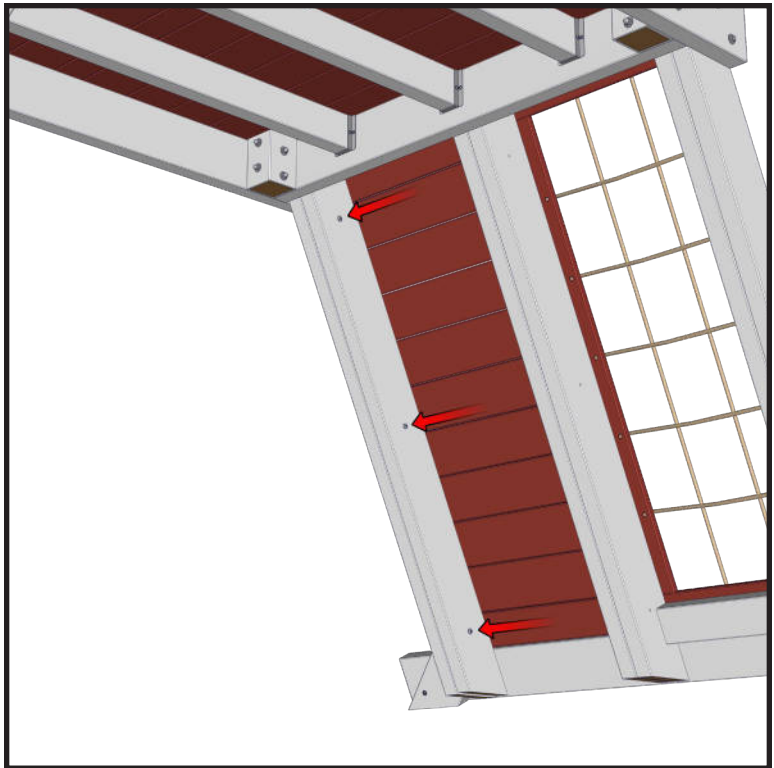


Step 24.

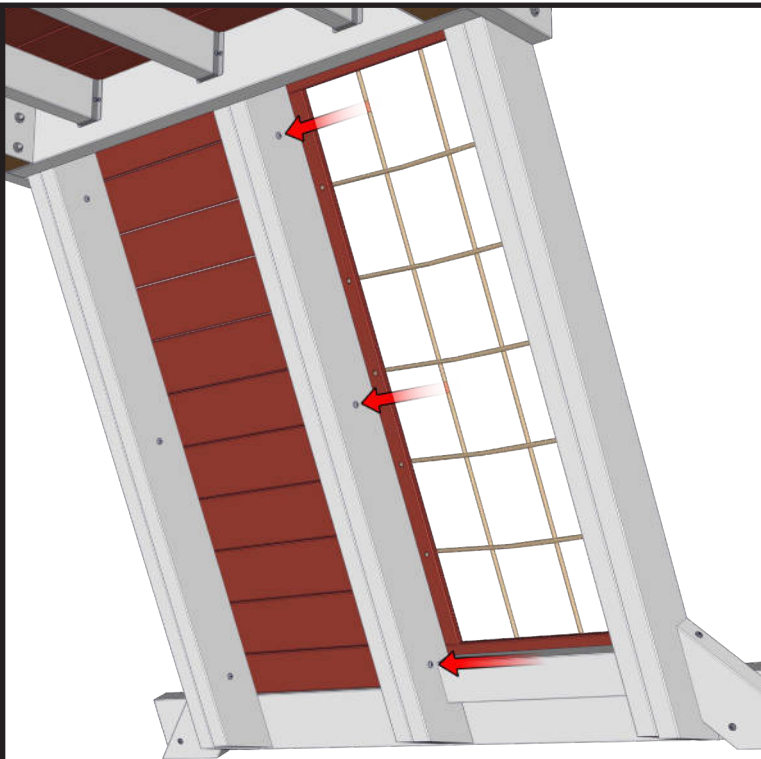
Rock wall panel.



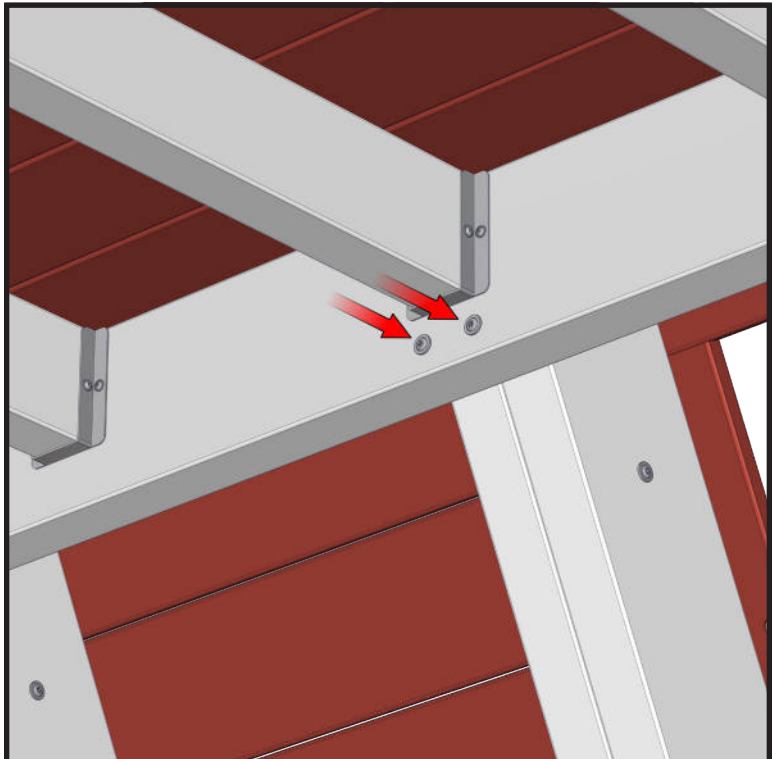
Step 25.
Ladder panel.



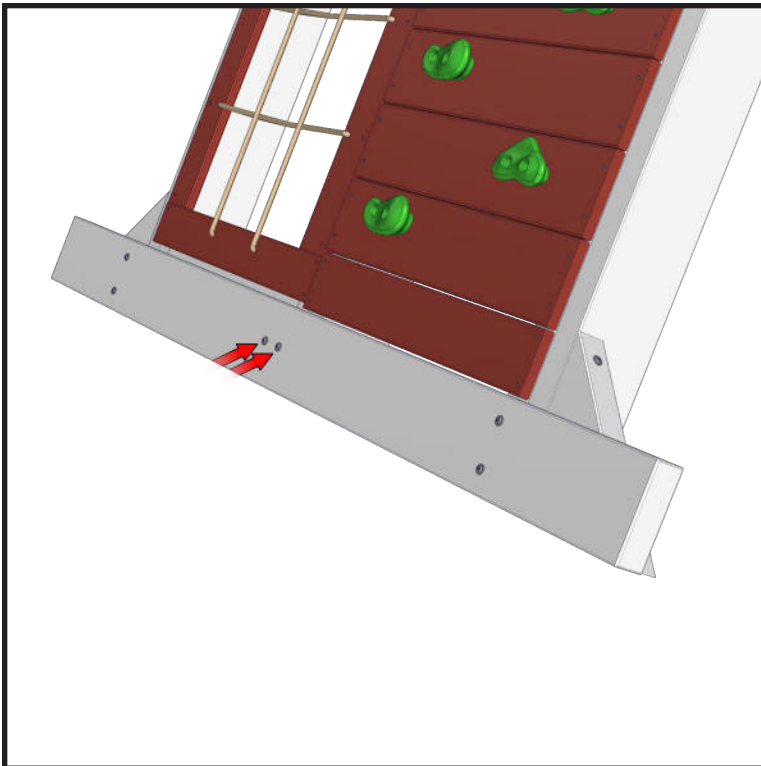
Step 26.
Fasten all the panels to the tower using 3 1/2" star head lags through the side 2x6's into the tower legs.



Step 27.
Also fasten the two panels together using the same lags through the two center 2x6's.

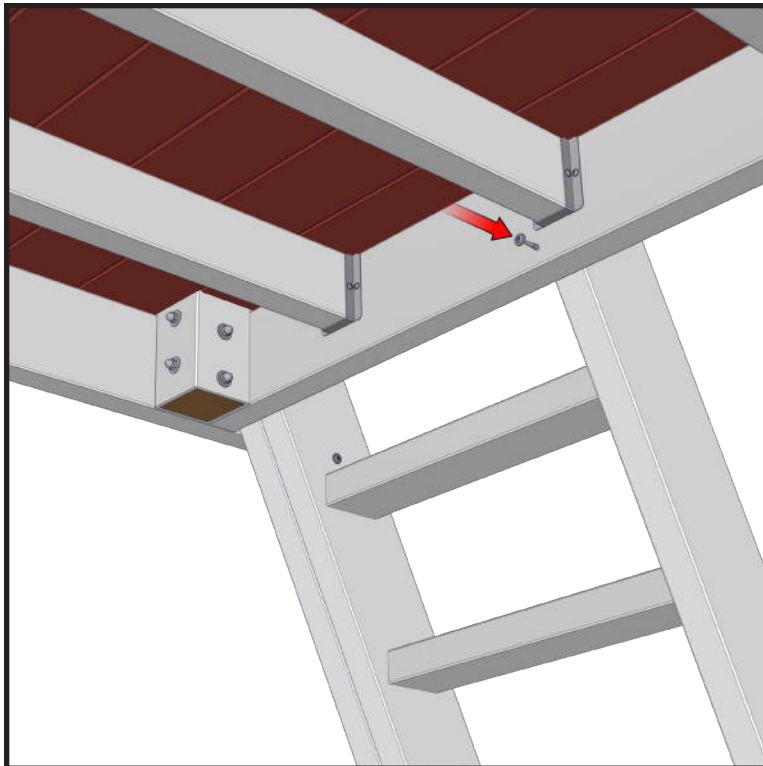


Step 28.
Fasten the top of the panels to the tower using 3 1/2" star head lags through the 56" 2x6's.



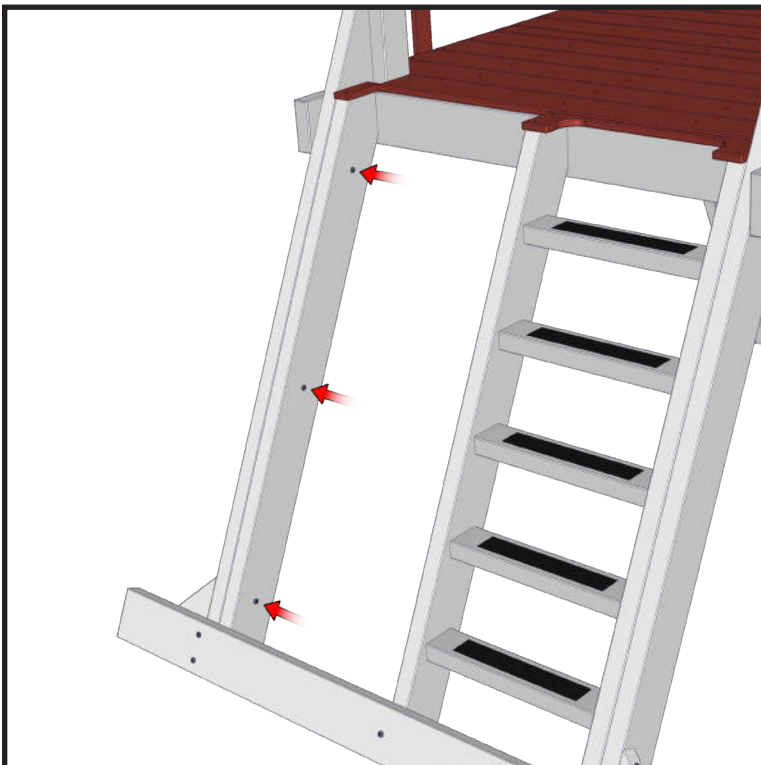
Step 29.

Fasten the bottom of the panels using the 3 ½" star head lags through the 79 ½" 2x6's.



Step 30.

Follow steps 26, 28 and 29 to fasten the ladder panel.



Step 31.

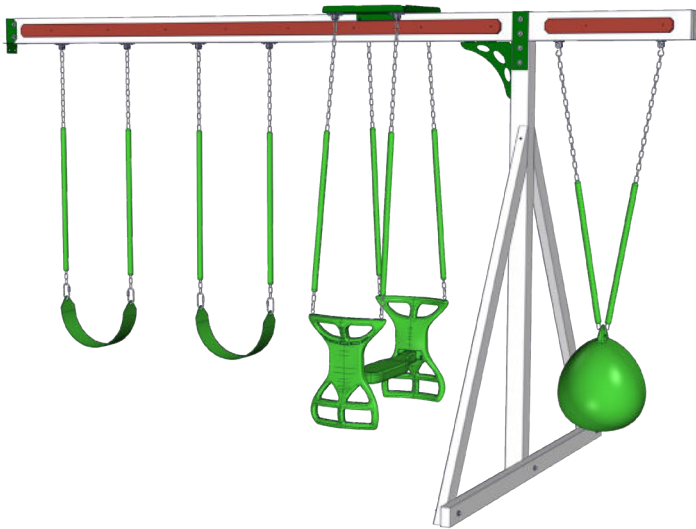
Locate the 66 ¼" 2x6 with the floorboard attached. This is to fill the empty spot where the slide will go later. Attach it to the tower leg using three 3 ½" star head lags.



Step 32.

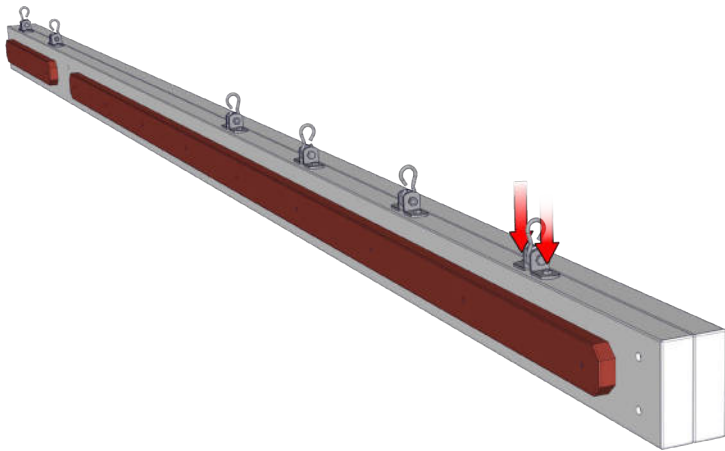
The ladder comes with a poly trim piece for the side. Center it on the 2x6 and fasten it with 1 ½" poly screws.

Swing Frame Assembly



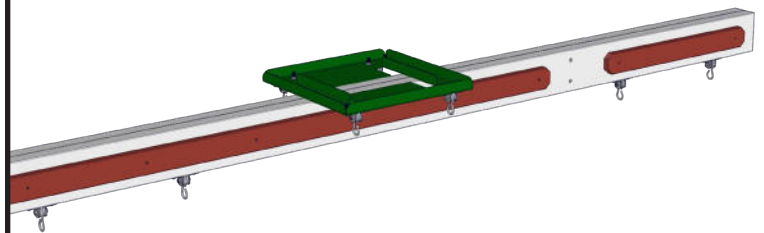
Step 1.

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.



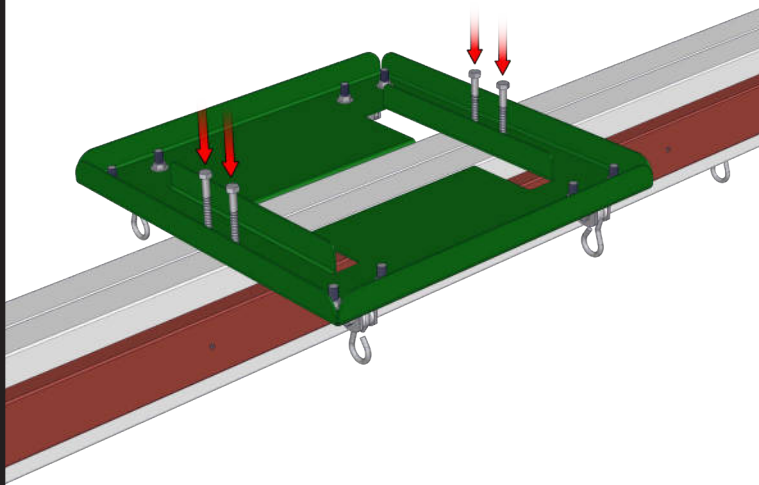
Step 2.

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



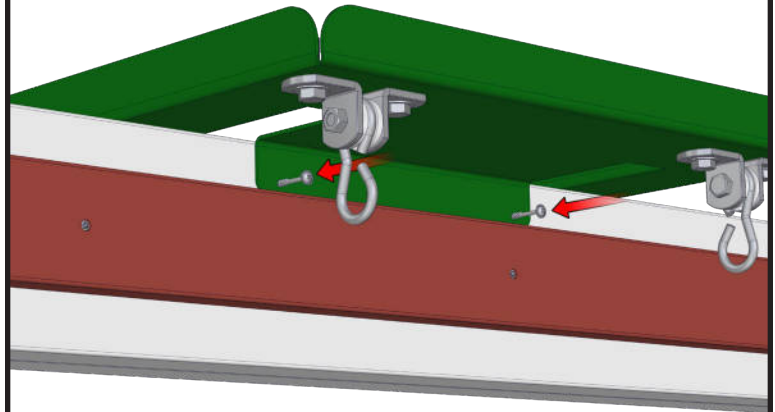
Step 3.

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



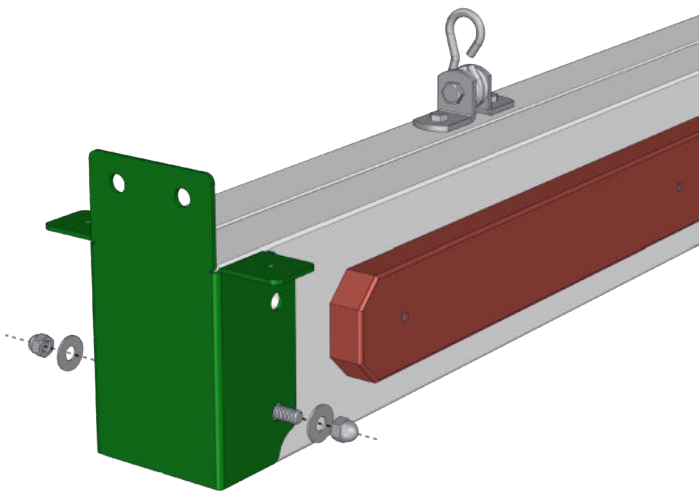
Step 4.

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



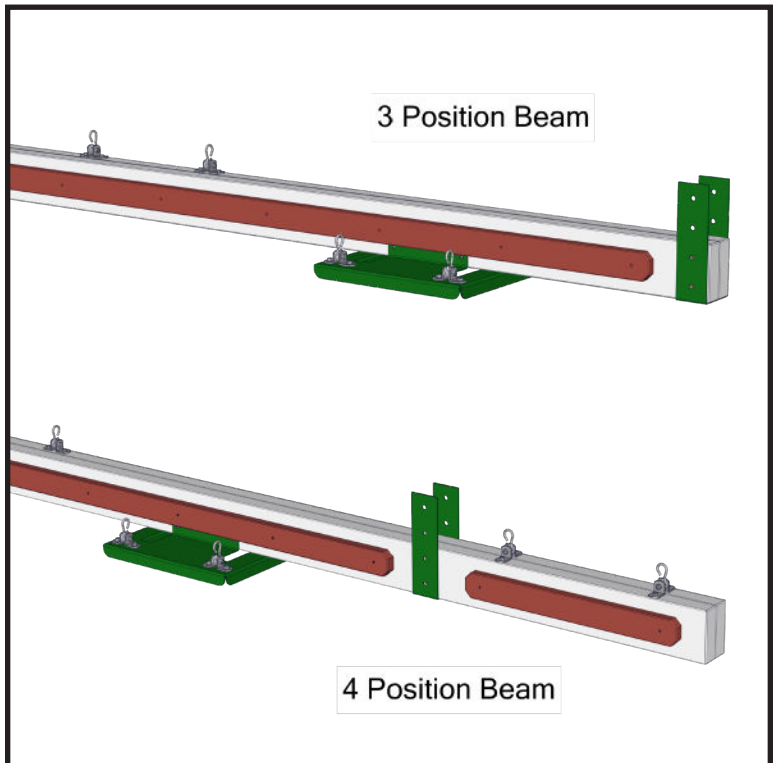
Step 5.

Fasten the side tabs of the bracket using 1 3/4" washer head screws.



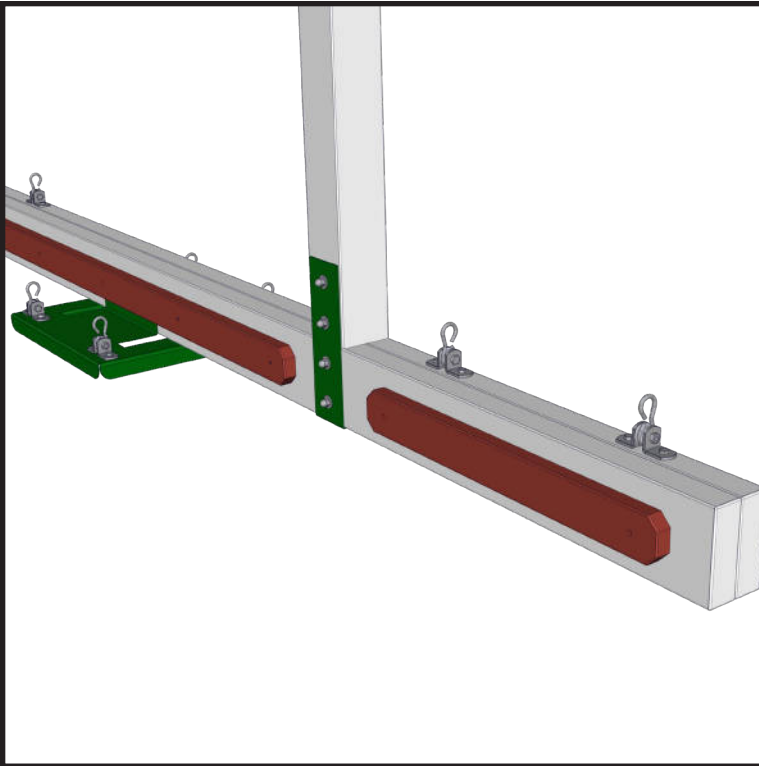
Step 6.

Locate the swing beam bracket and place it on the end of the swing beam. Fasten the bracket with 4 7/8" threaded rods, washers and acorn nuts.



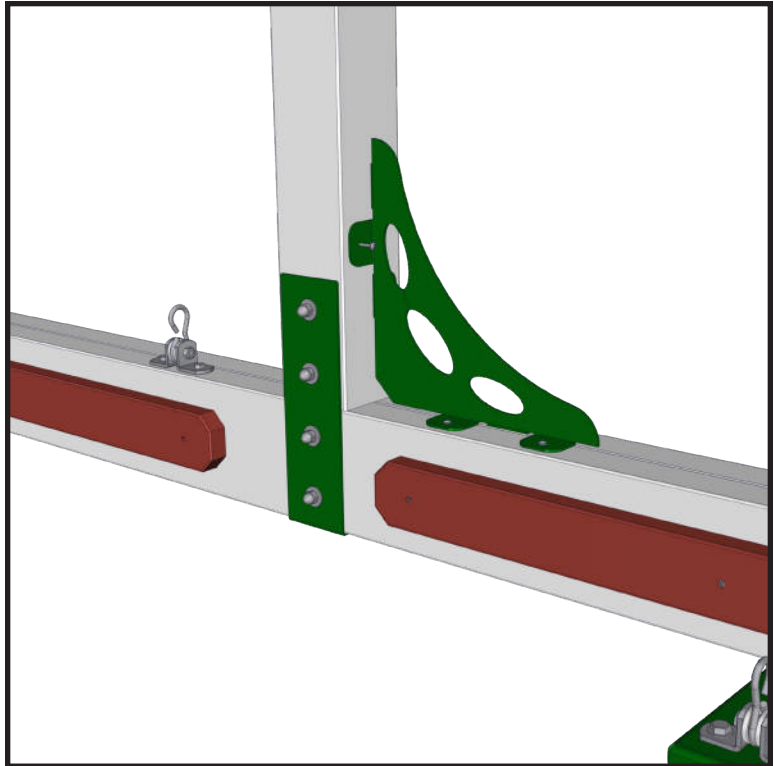
Step 7.

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. Fasten the bracket with 4 7/8" threaded rods, washers and acorn nuts. Only hand tighten these nuts at this point.



Step 8.

Find the 4x4 end post and place it in the beam strap. Fasten the 4x4 post using the same threaded rods as the last step. Make sure the post is square with the swing beam then tighten all the nuts.



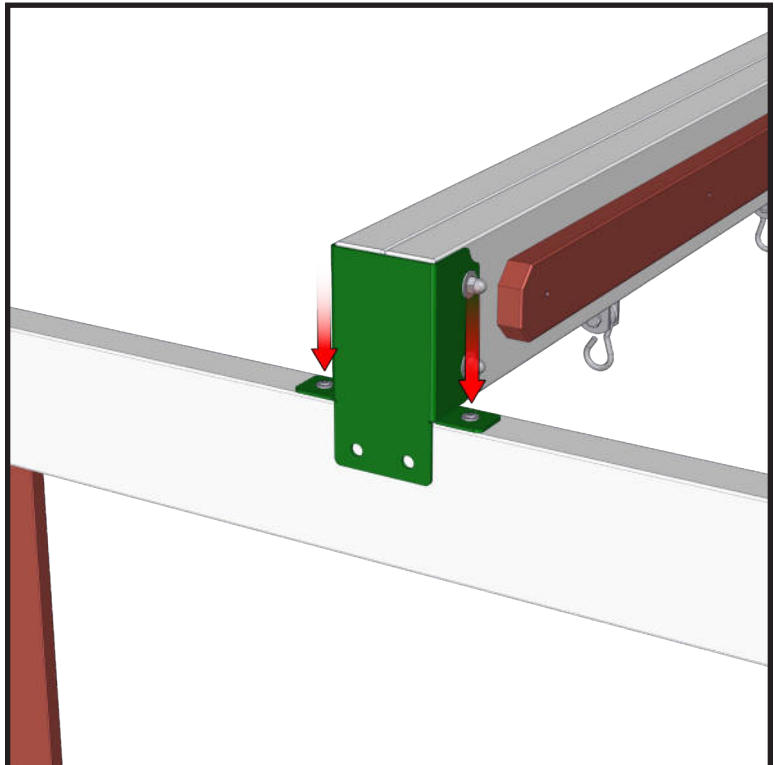
Step 9.

Place the corner bracket on the inside of the swing beam and end post. Fasten it with 1 3/4" washer head screws.



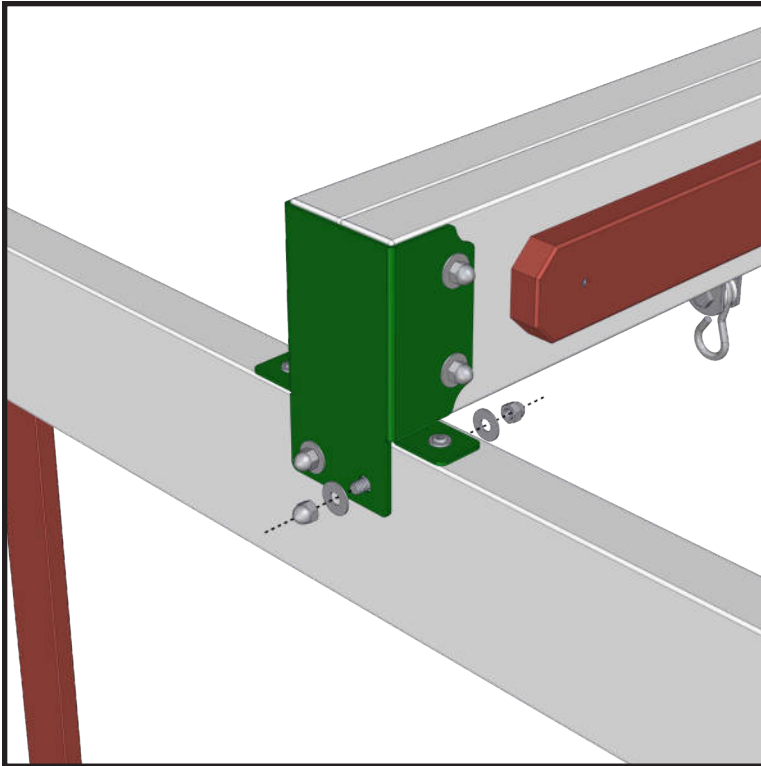
Step 10.

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. Otherwise check the swing beam to see if it is level then trim the post accordingly.



Step 11.

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



Step 12.

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



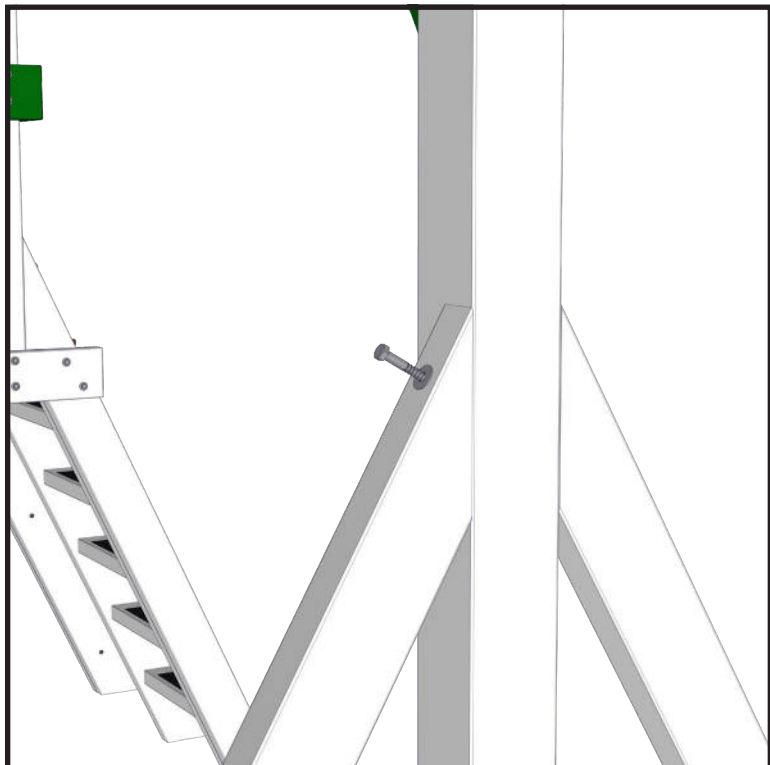
Step 13.

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 14.

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 15.

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 16.

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



Step 17.

Install the swings to finish the swing frame assembly.

Climbing Set Assembly



Ground Runner 2x4

Top Ladder

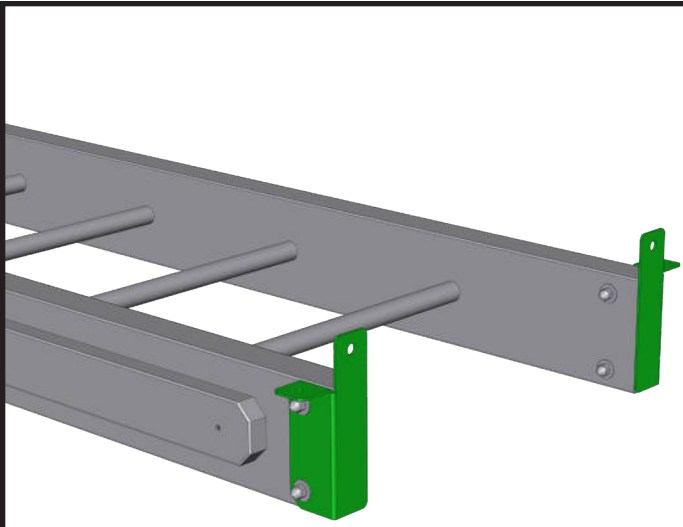
End Ladder

Side Brace 2x4's

Climbing Set Brackets

Step 1.

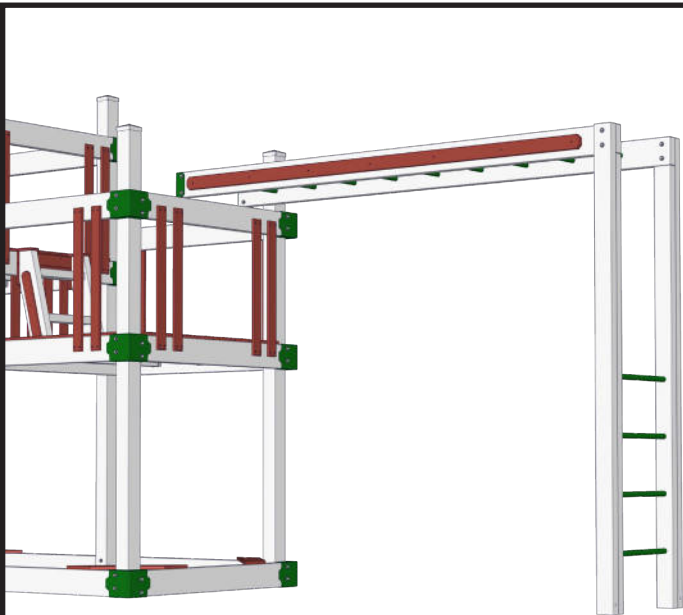
Locate these pieces to start the climbing set assembly.



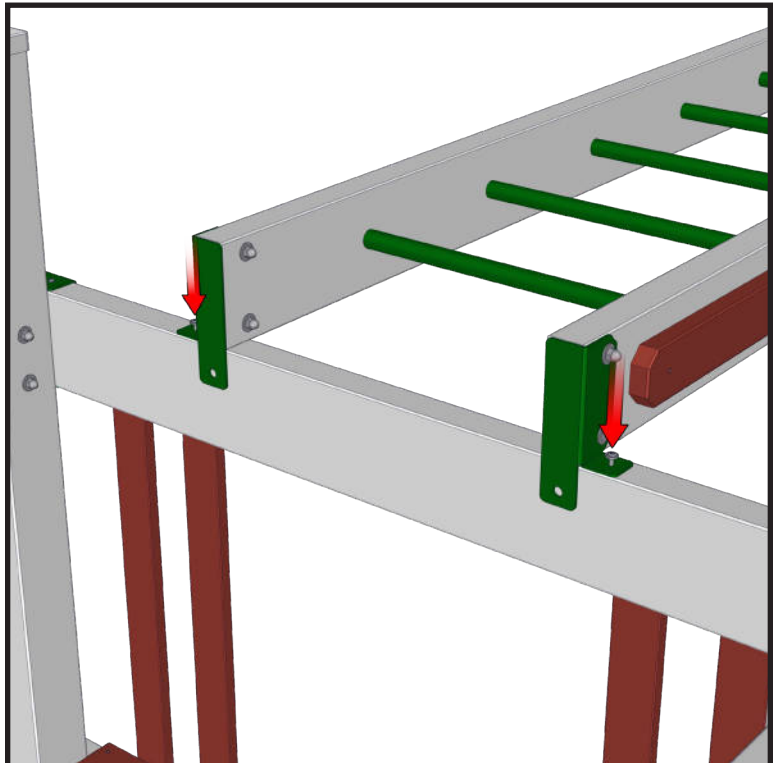
Step 2.
Place the climbing set brackets on the end of the top ladder and fasten them with 2 $\frac{5}{8}$ " threaded rods.



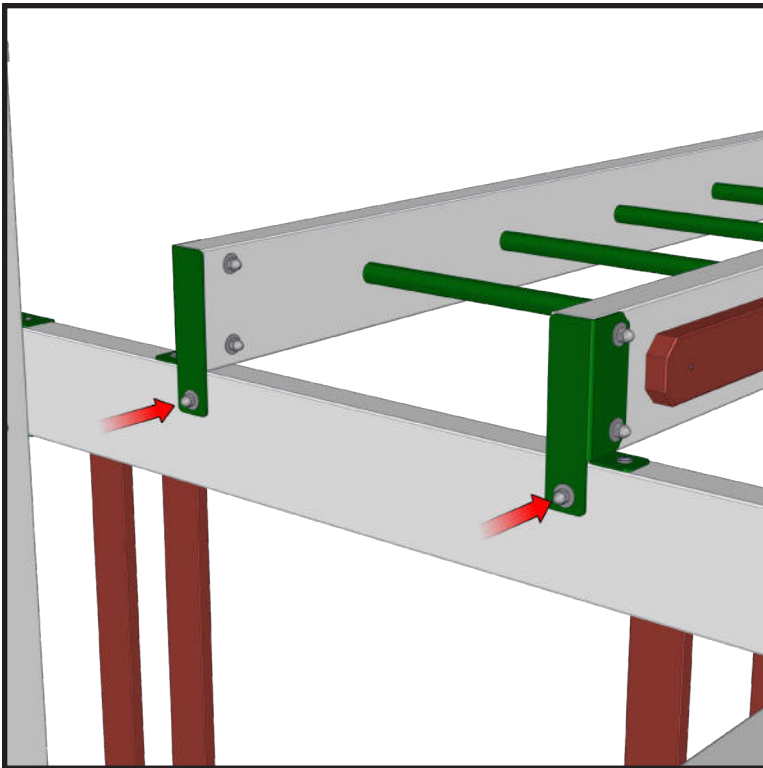
Step 3.
Place the end ladder on the top ladder and fasten them together using 4 $\frac{1}{8}$ " threaded rods.



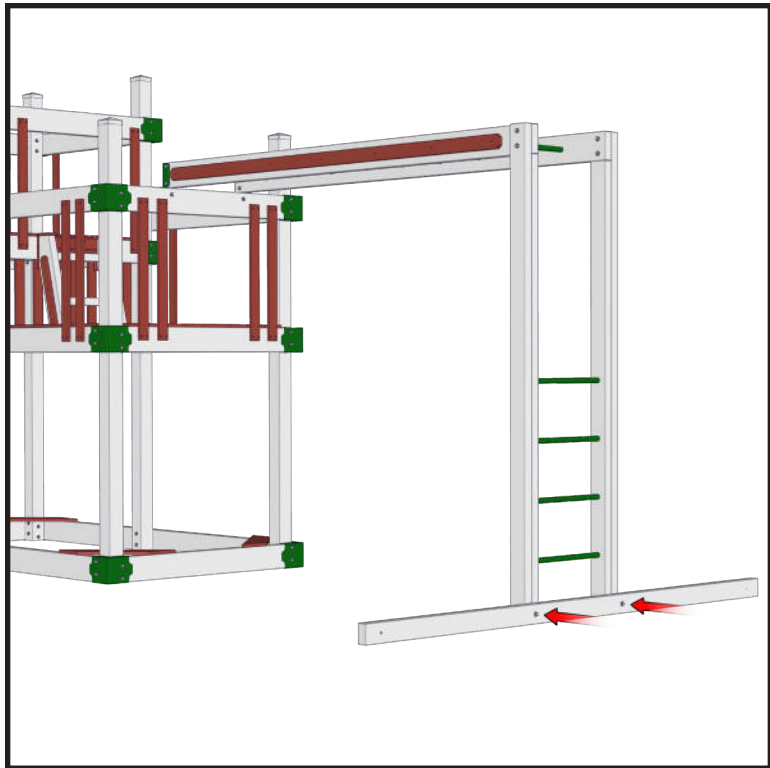
Step 4.
Flip the climbing set over and place it in position on the tower.



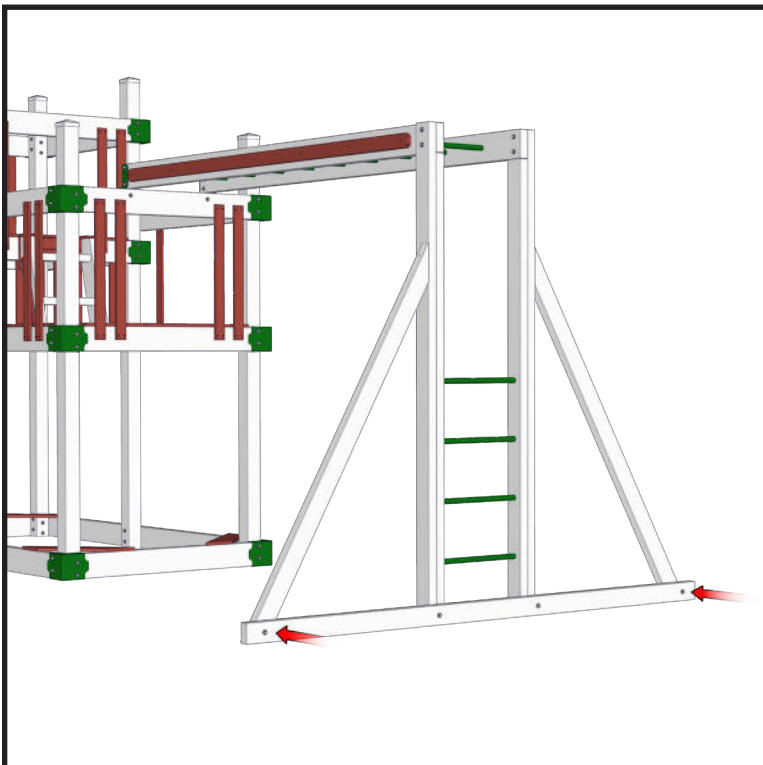
Step 5.
Center the climbing set on the tower railing then fasten the brackets to the railing using 3" star head lags.



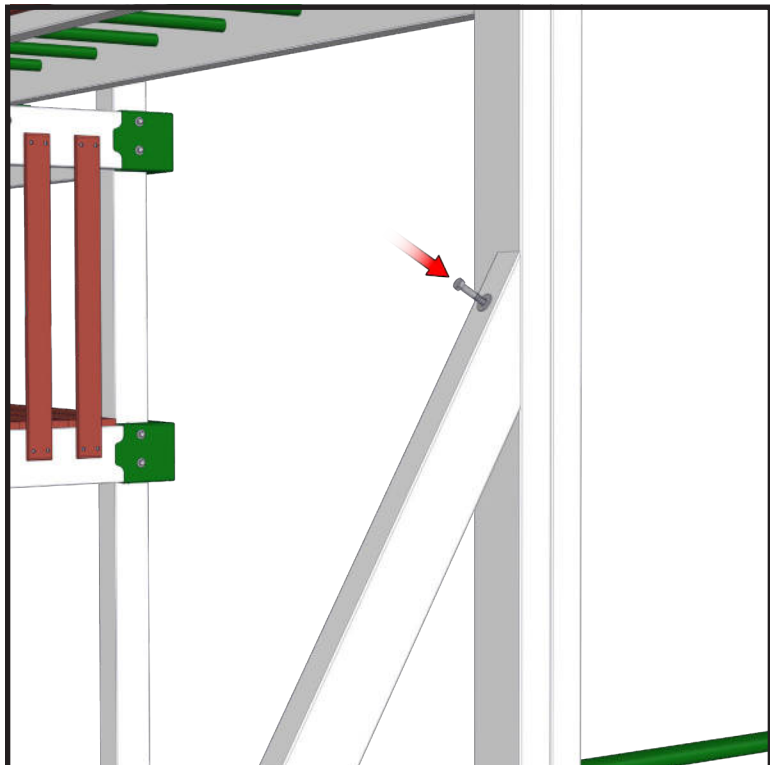
Step 6.
Drill two $\frac{7}{16}$ " holes through the 2x6 railing using the holes in the brackets as a guide then fasten them using 2 $\frac{3}{4}$ " threaded rods.



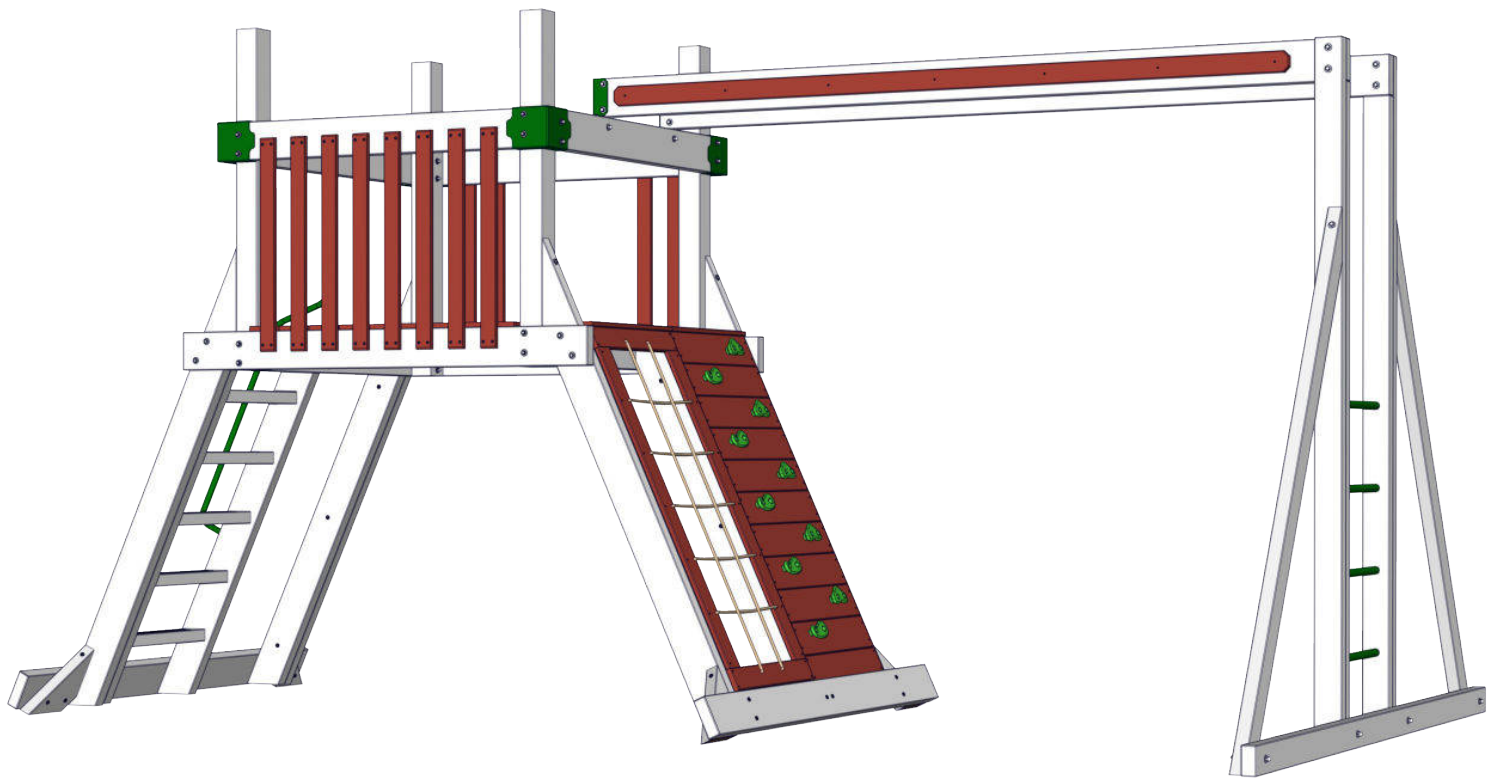
Step 7.
Place the ground runner 2x4 on the end of the ladder and fasten it with 6 $\frac{1}{8}$ " threaded rods.



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

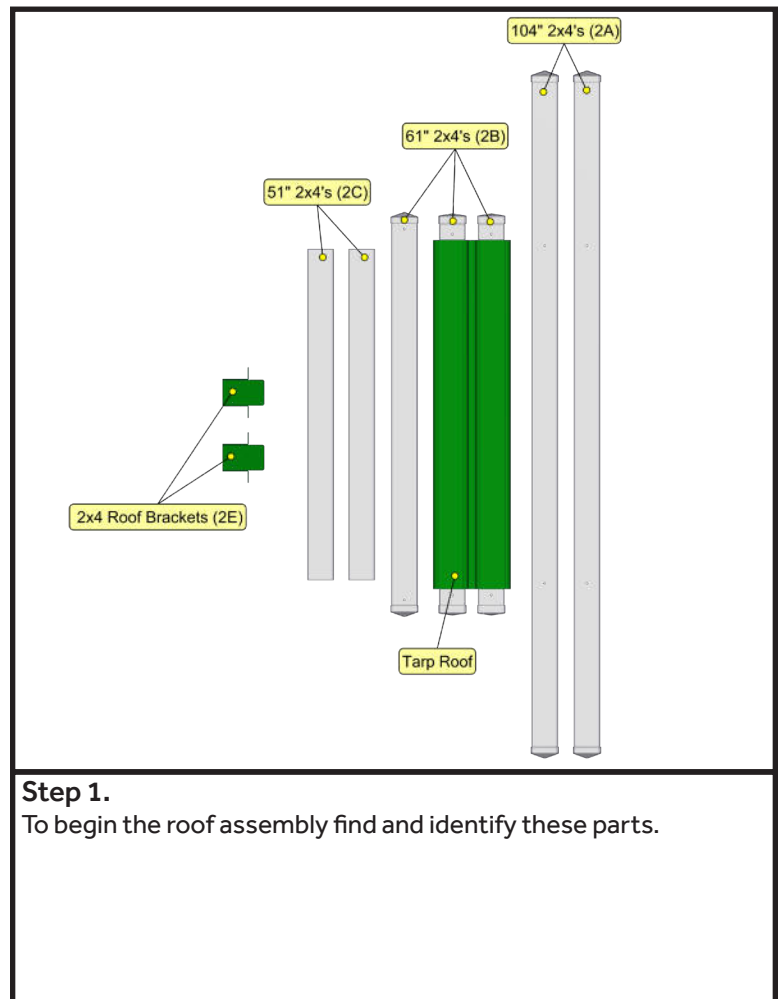


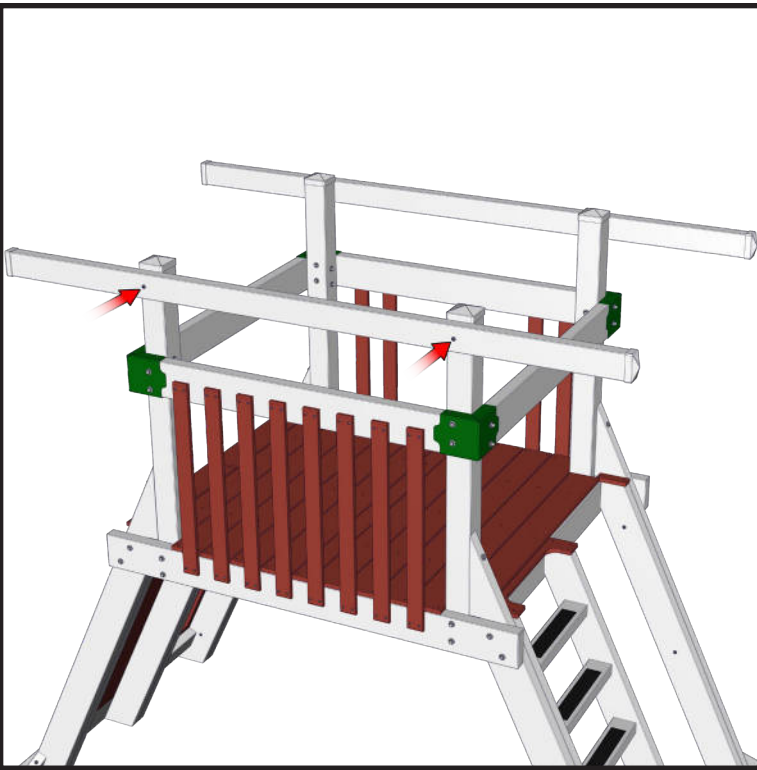
Step 9.
Fasten the top ends of the 2x4 braces using 4" hex head lags with $\frac{3}{8}$ " washers.
The 2x4's are pre-drilled but you will have to drill a $\frac{1}{4}$ " hole in the ladder.



Tarp Roof Assembly

Follow these instructions if your playset has a tarp roof.

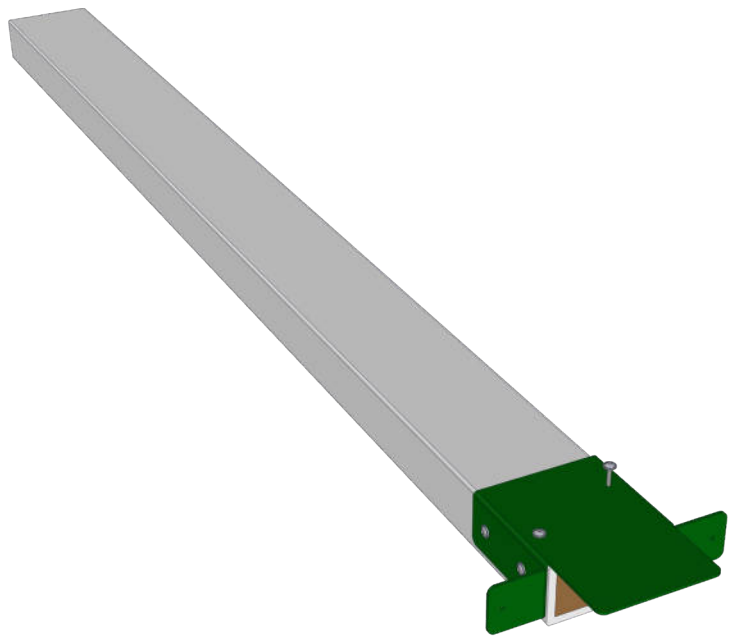




Step 2.

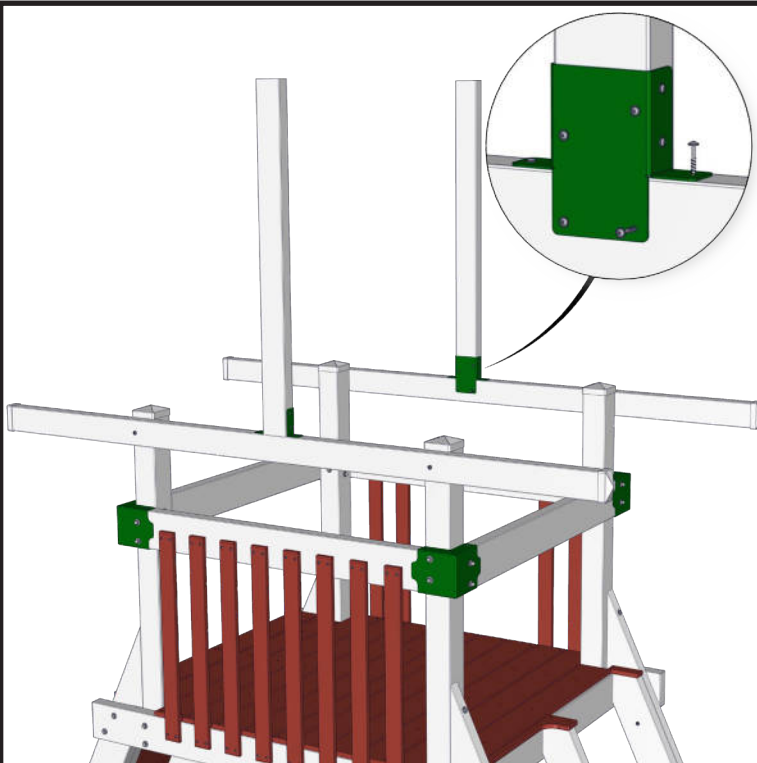
Fasten the 104" 2x4's to the 4x4 posts using 3 1/2" star head lags. The pre-drilled holes should be centered on the 4x4 posts.

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



Step 3.

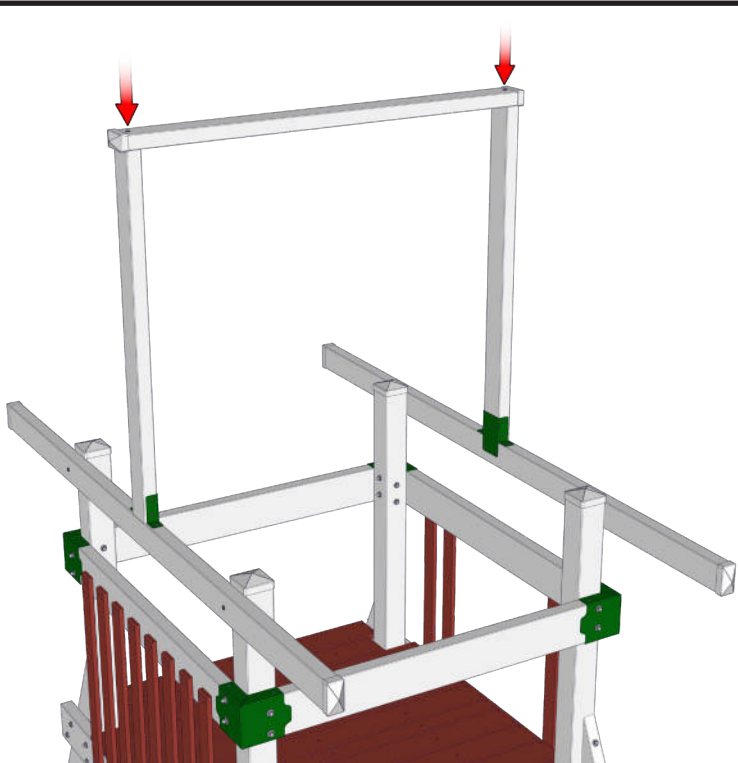
Next fasten the roof 2x4 brackets to the 51" 2x4's. Use six 1 3/4" washer head screws per bracket.



Step 4.

Place the 2x4's with the brackets in the center of the 104" 2x4's with the brackets facing in.

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

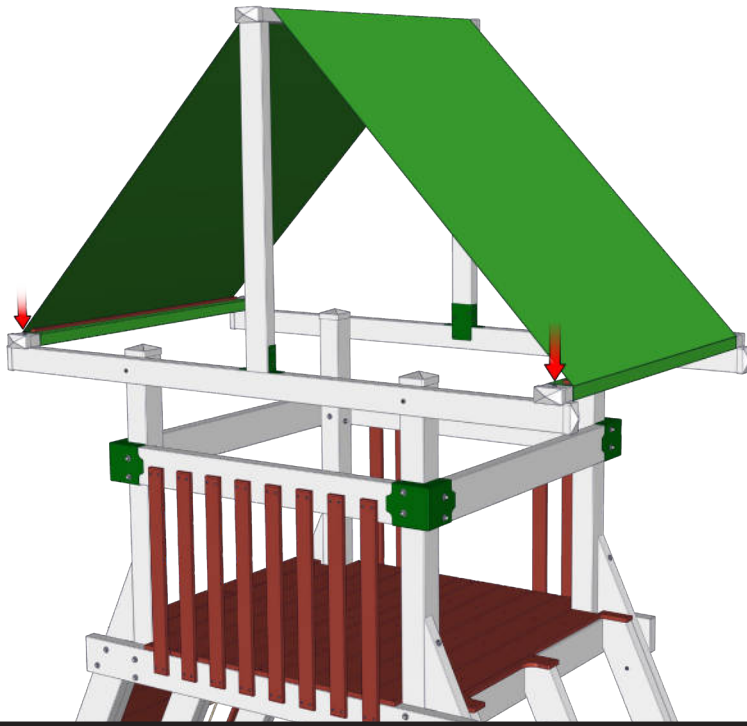


Step 5.

Place the 61" 2x4 on top of 51" 2x4's and fasten it with 3 1/2" star head lags.

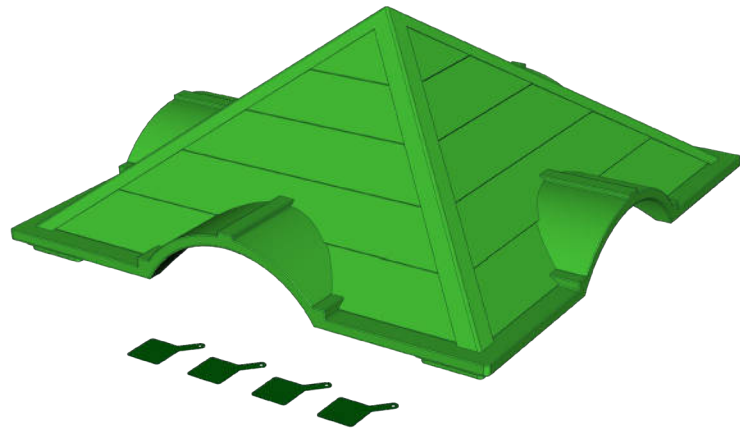
Gable/Pyramid Roof Assembly

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



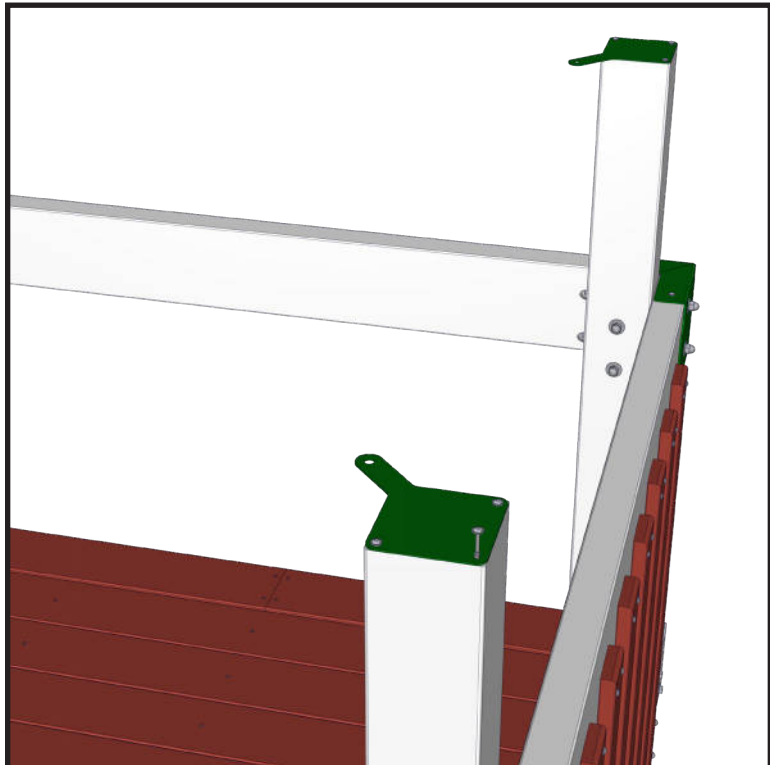
Step 6.

Place the 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.



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.

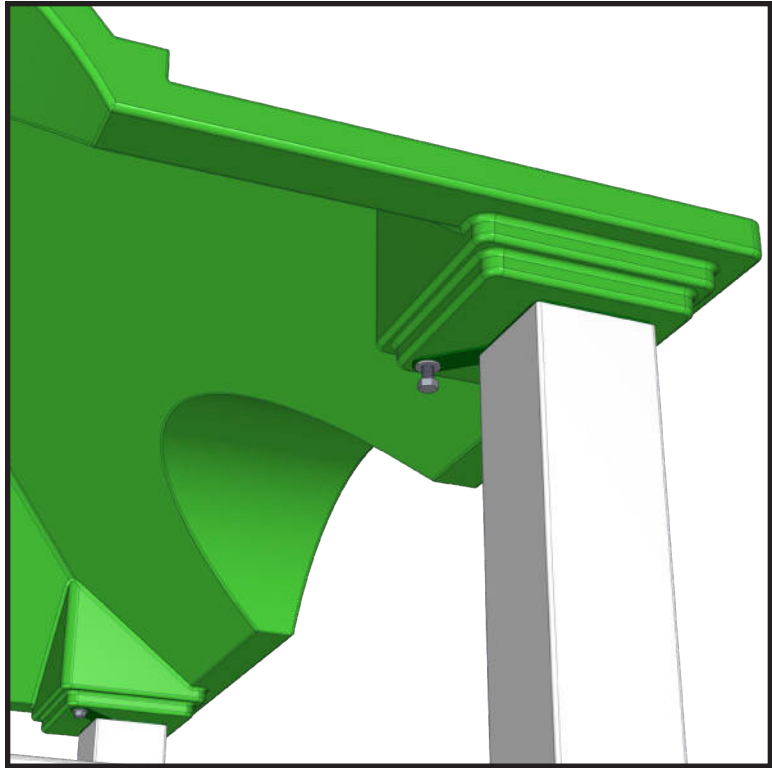


Step 2.

Place the mounting brackets on the 4x4 posts with the tab facing inwards. 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 Roof.

Accessories



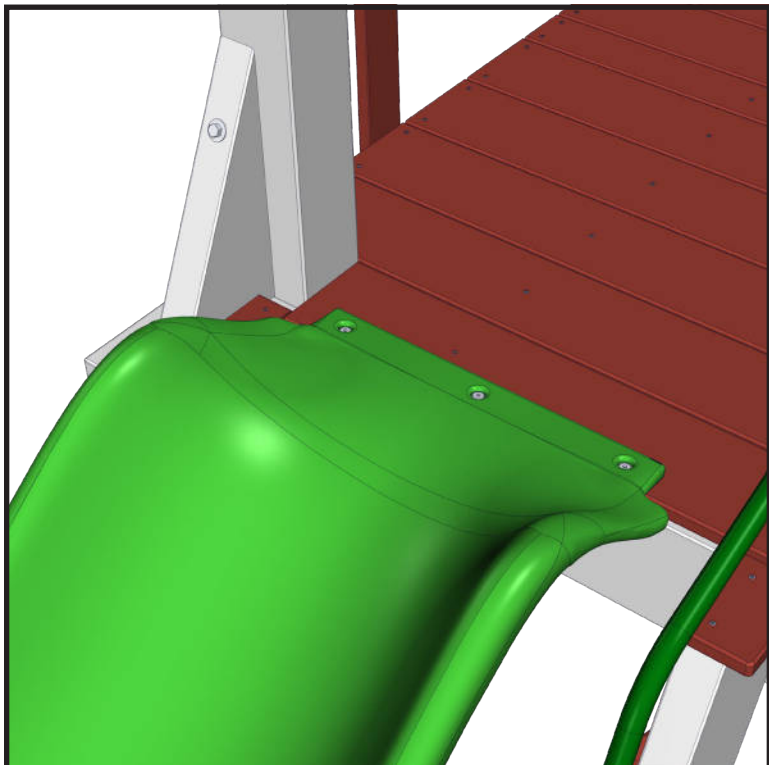
Ladder Handrail

Place the ladder handrail in position on the ladder then fasten it with three 1 ½" washer head lags.



Wonder Wave Slide

Locate the wonder wave slide and place it in position.



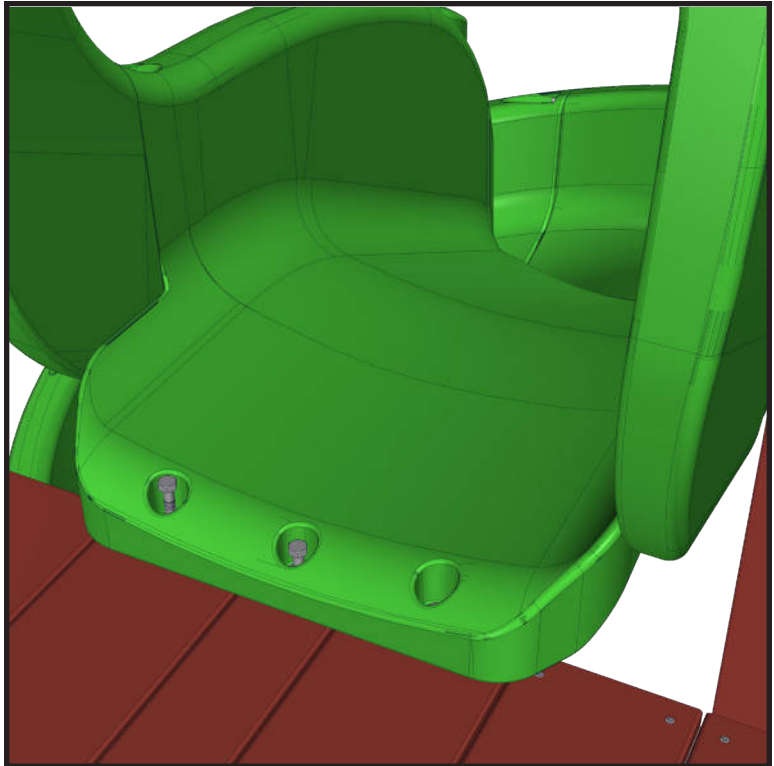
Wonder Wave Slide

Fasten the slide with three 1 ½" wafer head lags. Make sure the lags go into the 2x6 below and not just the floorboards.



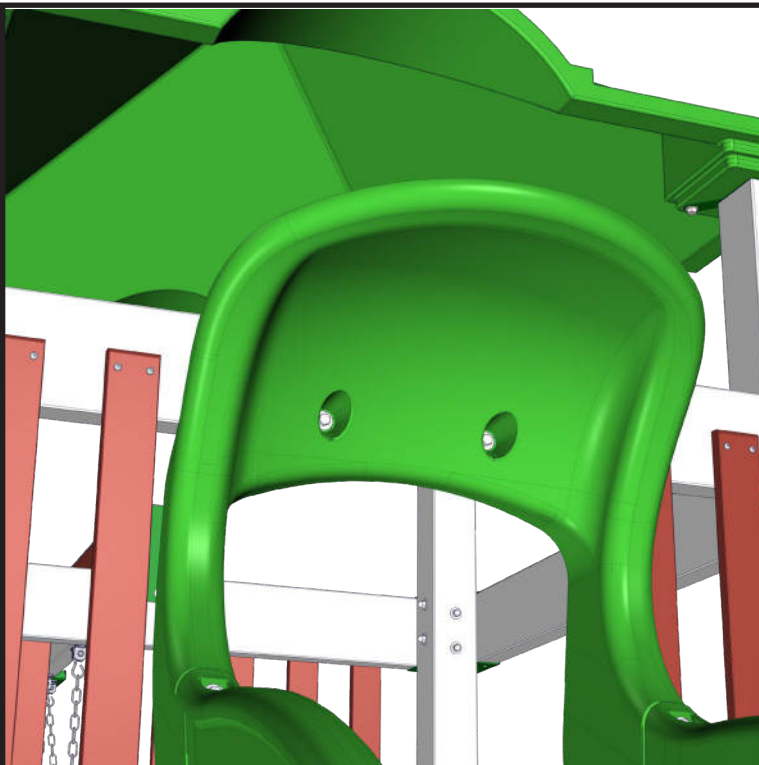
Super Spiral Slide

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



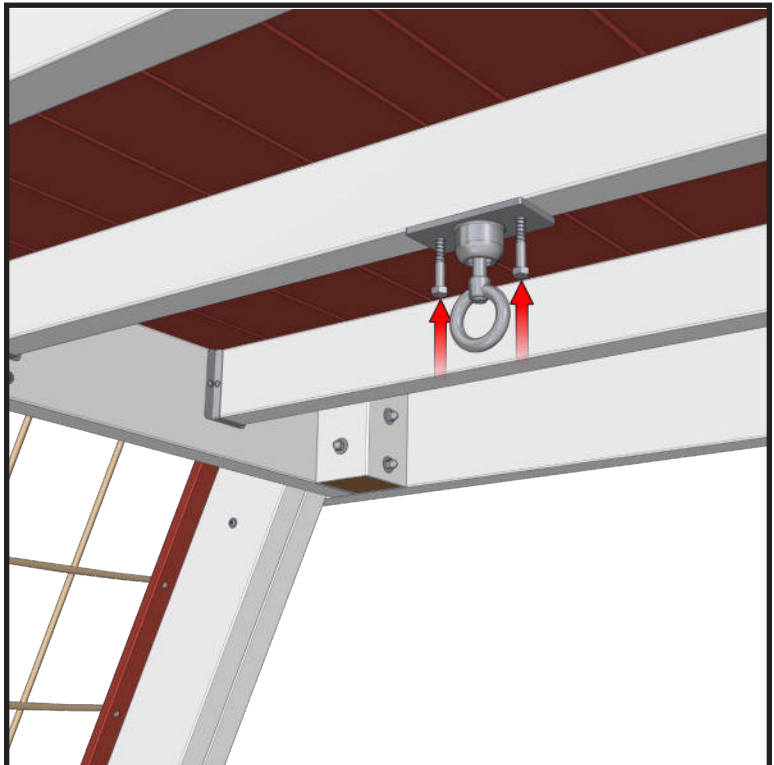
Super Spiral Slide

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.



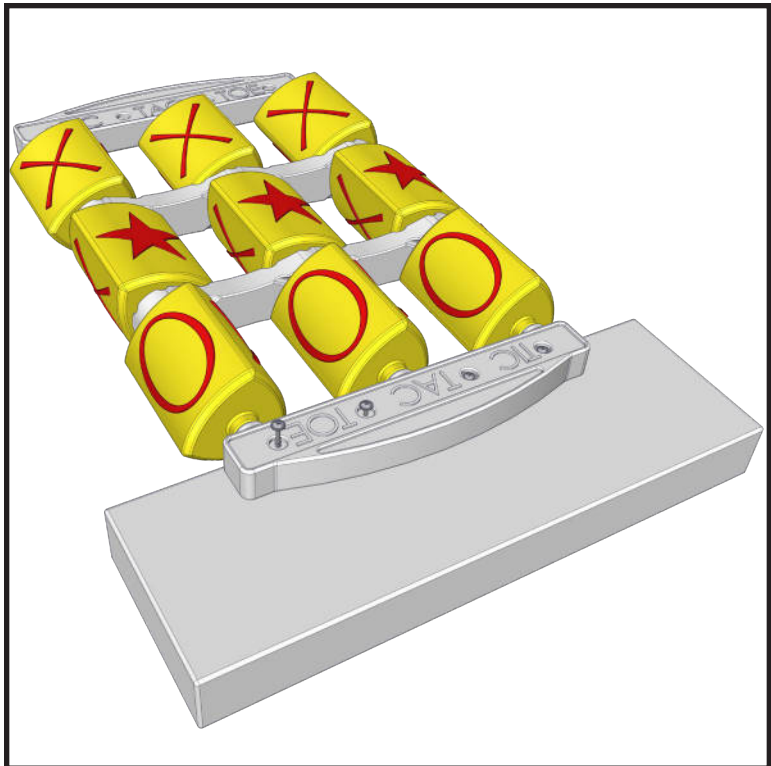
Tire Swing

The tire swing gets installed on the center 2x4 floor joist. Attach the mounting base using the included lags.



Tire Swing

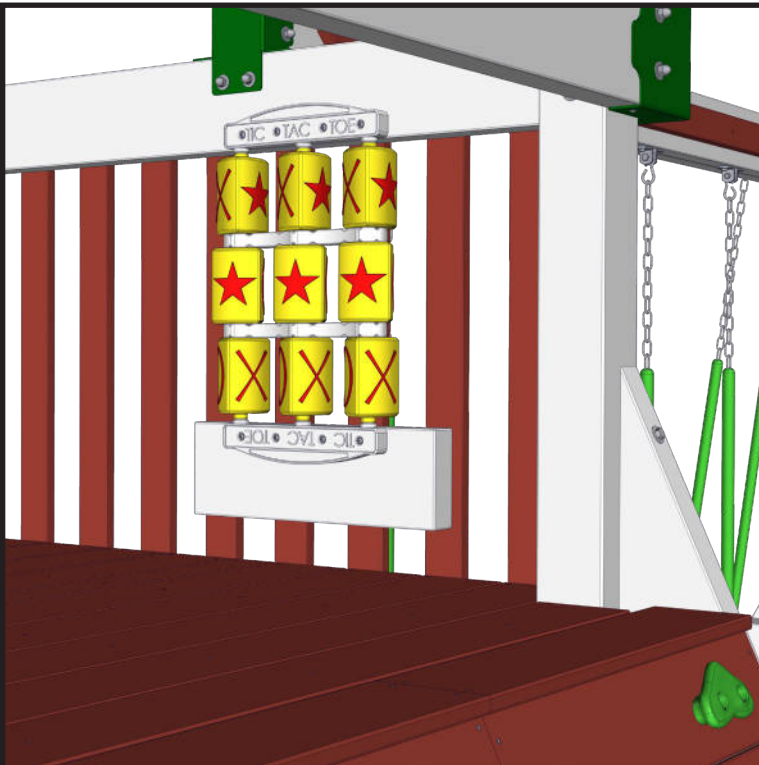
Attach the chains to the mounting base to finish the tire swing.



Tic Tac Toe Panel

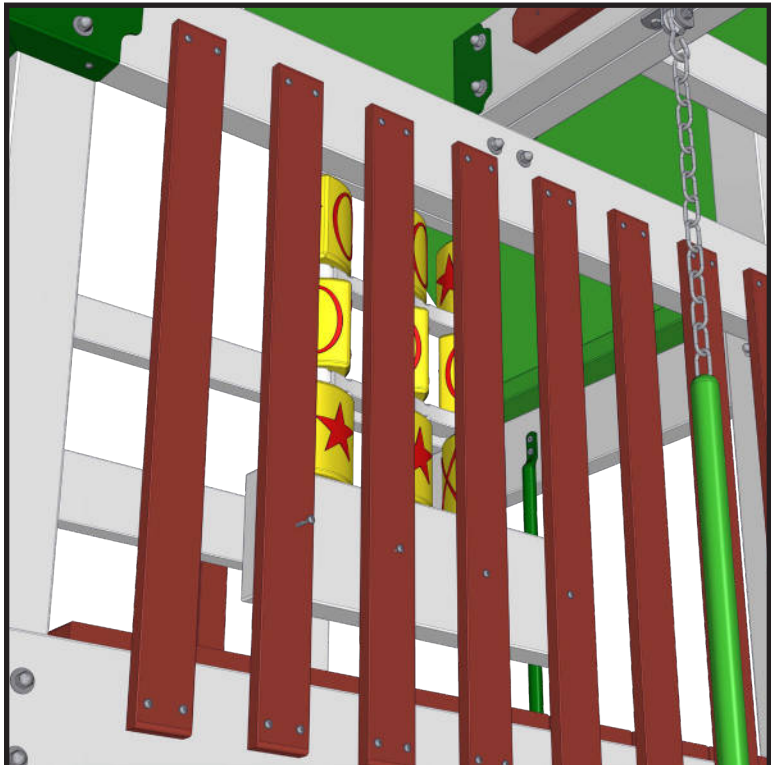
The tic tac toe panel comes with a 18 1/2" 2x6.

Fasten one end of the panel to the 2x6 using four 1 3/4" washer head screws.



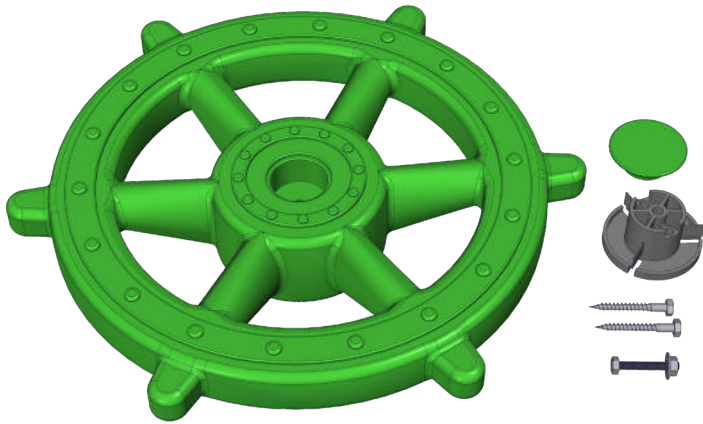
Tic Tac Toe Panel

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



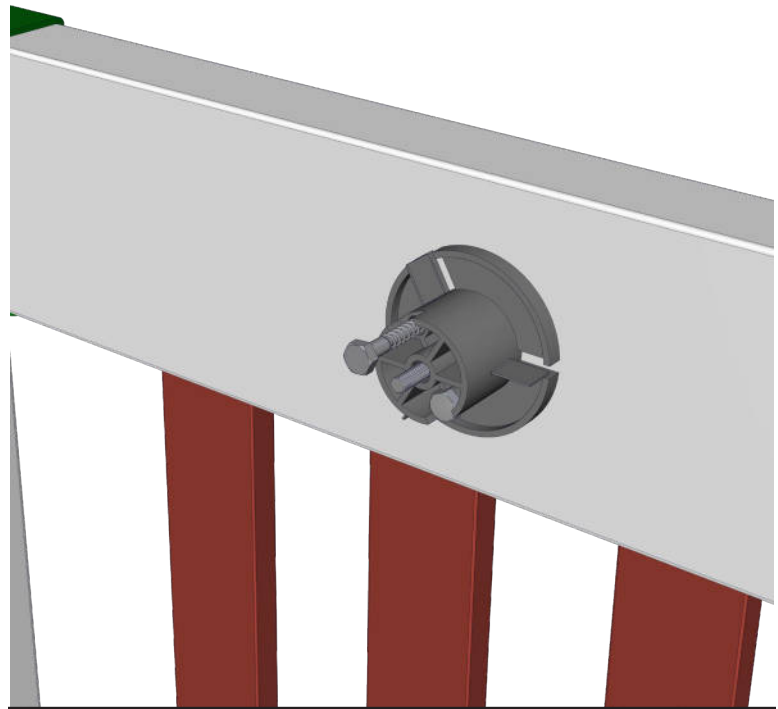
Tic Tac Toe Panel

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



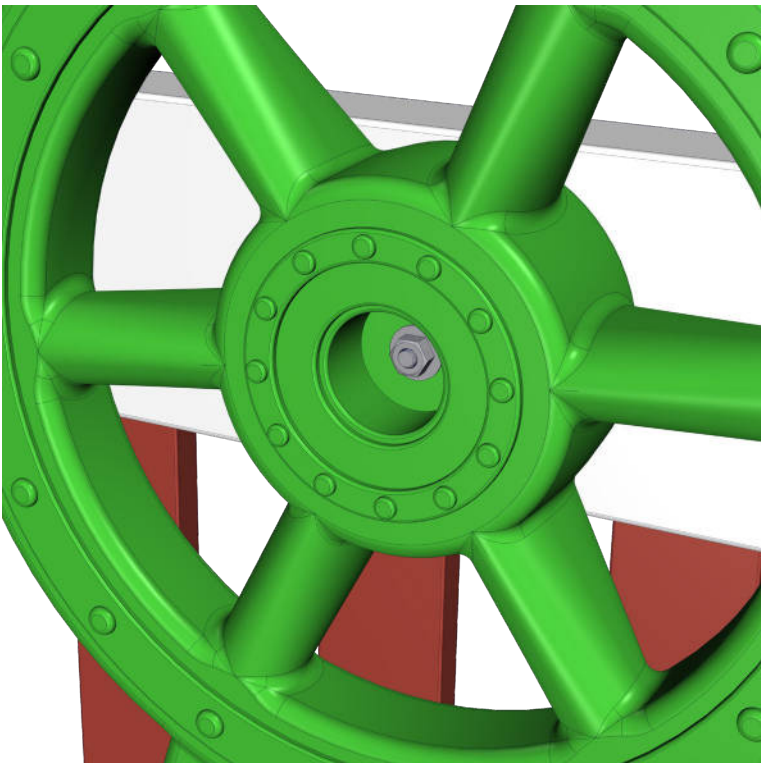
Ships Wheel

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



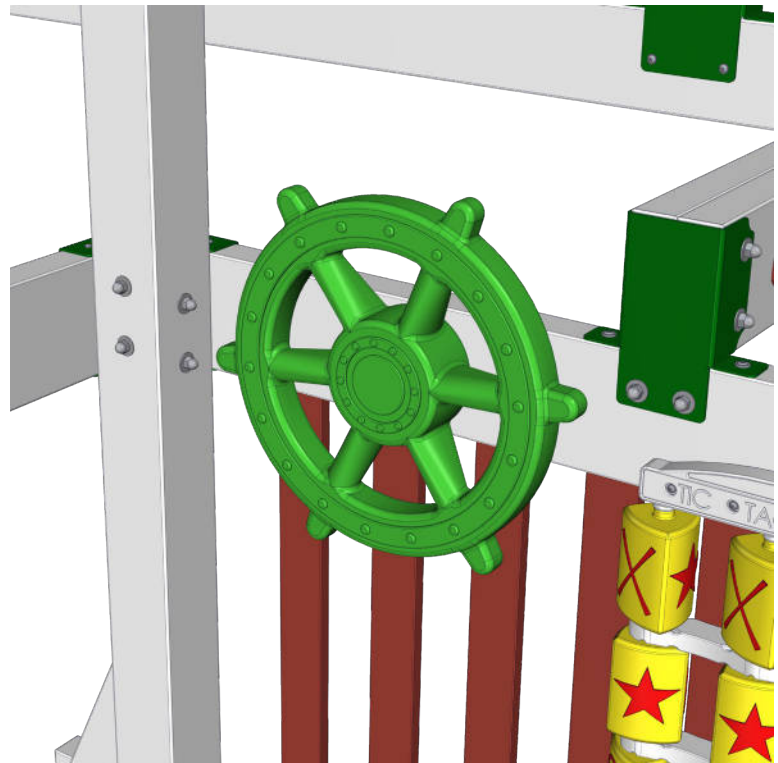
Ships Wheel

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



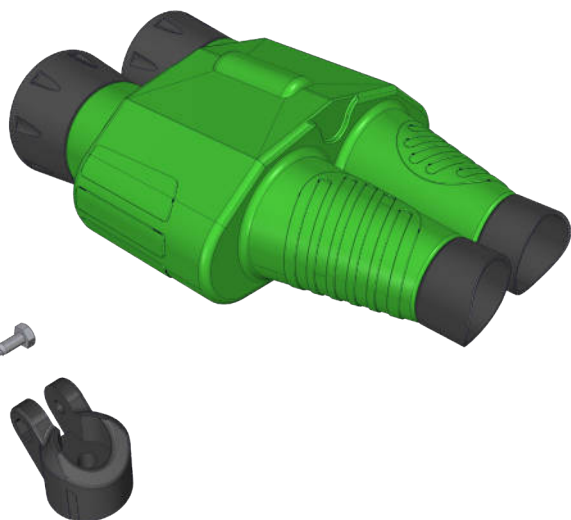
Ships Wheel

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



Ships Wheel

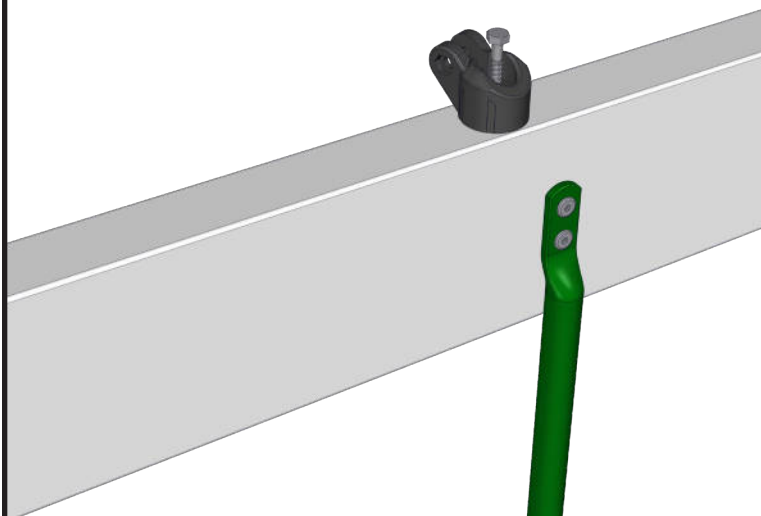
Install the cover to finish the ships wheel.



Binoculars

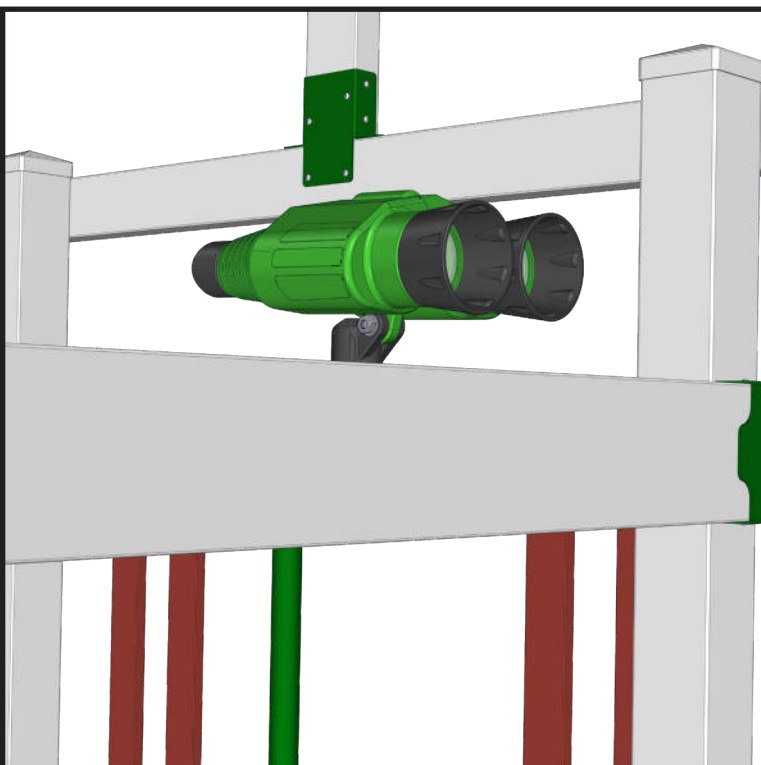
The binoculars should come with a mounting base, a bolt and a lag.

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



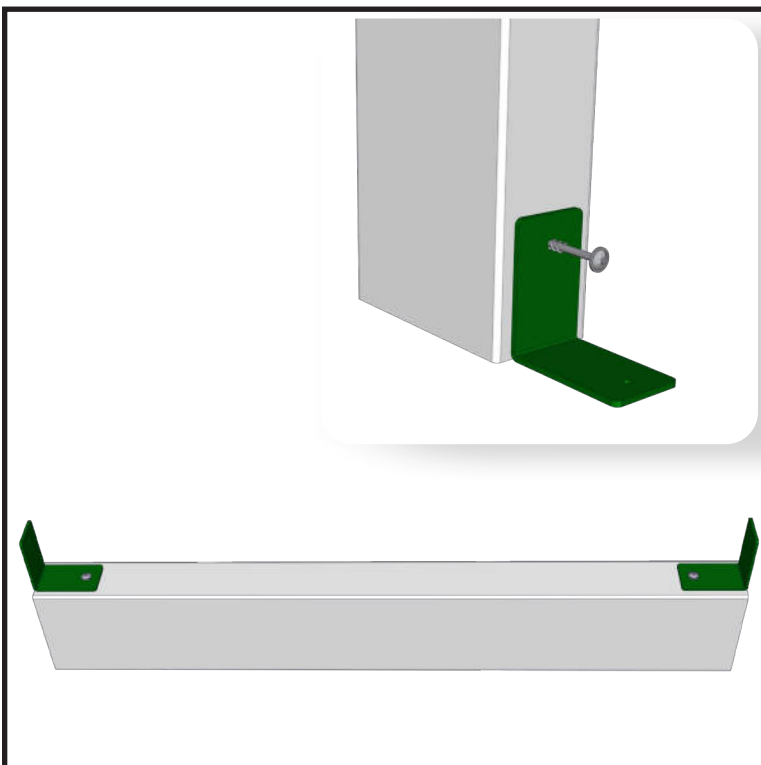
Binoculars

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



Binoculars

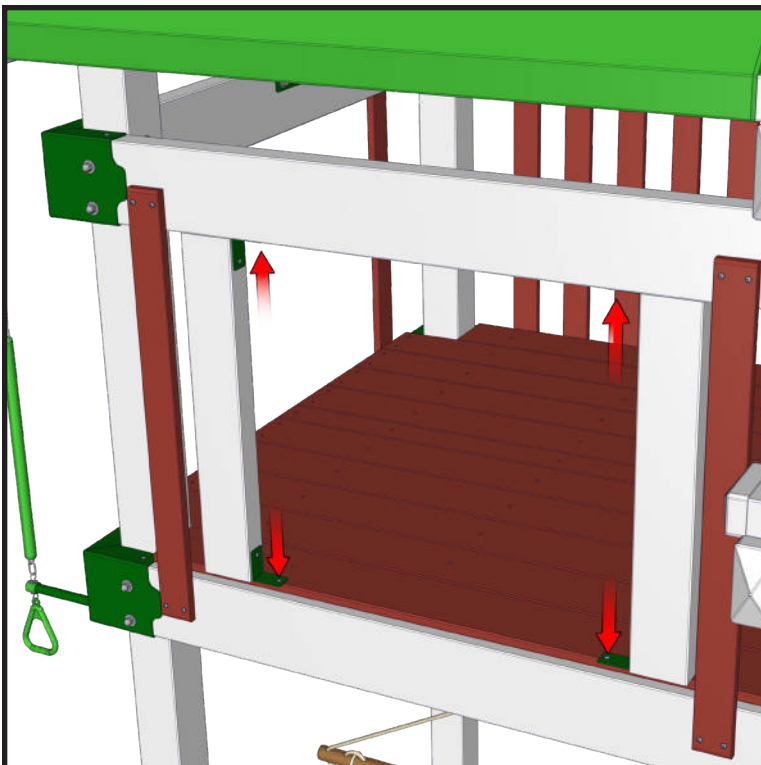
Attach the binoculars to the base using the bolt.



Framing for Bubble Panel and Peek-A-Boo Panel

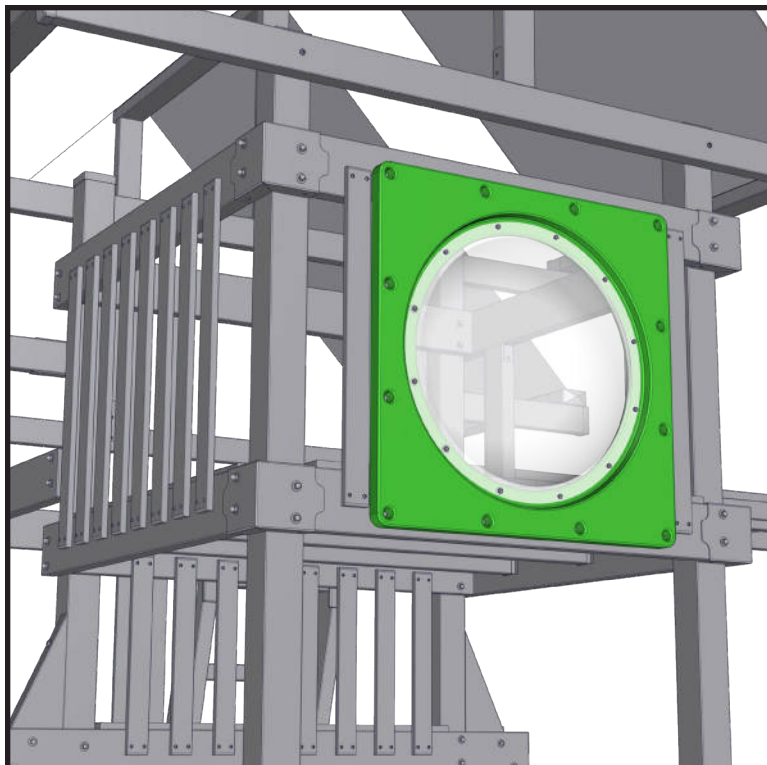
Find the 26" 2x4's and small angle brackets.

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



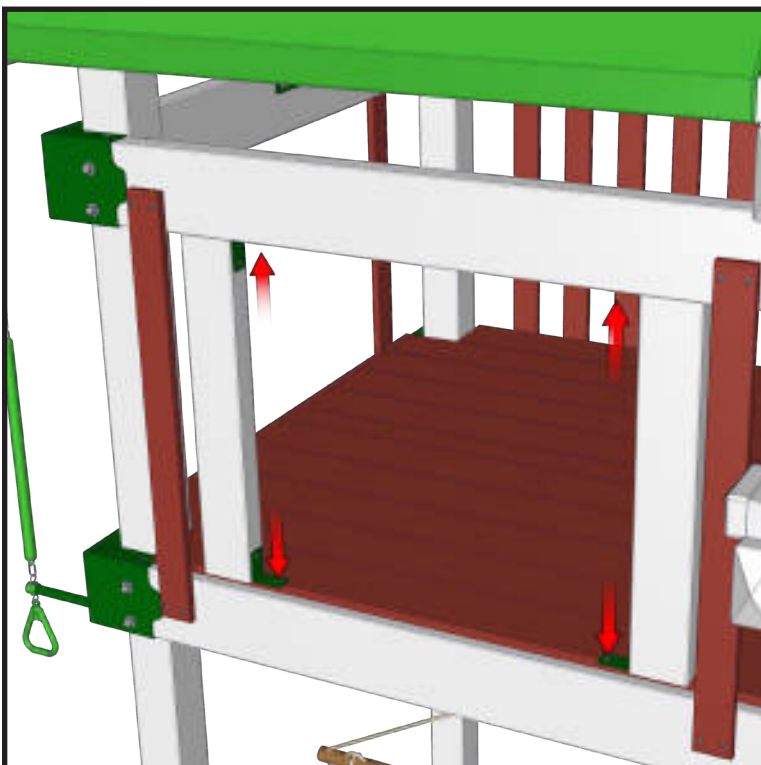
Framing for Bubble Panel and Peek-A-Boo Panel

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



Framing for Bubble Panel and Peek-A-Boo Panel

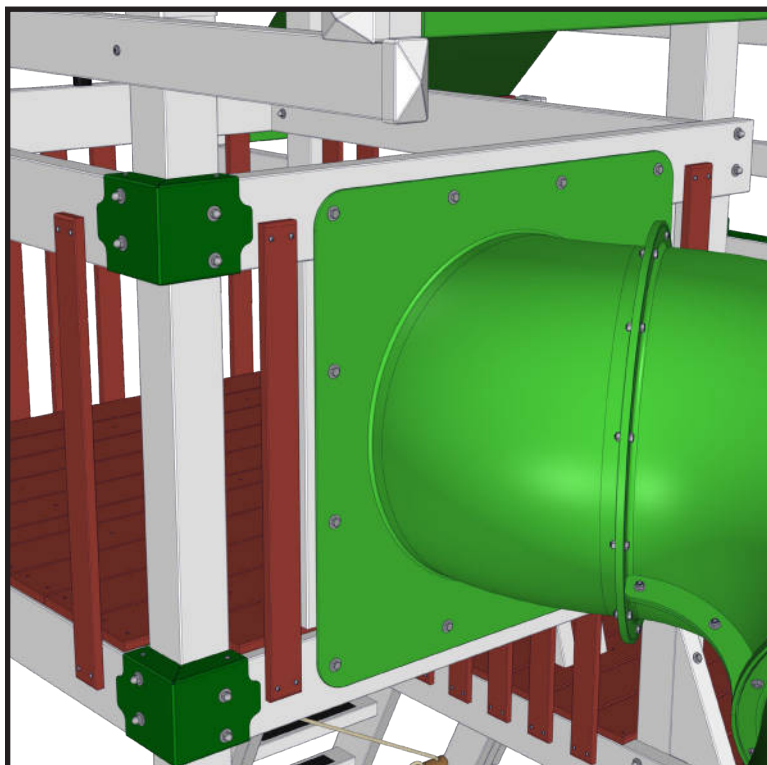
Place the bubble panel in position after installing the 2x4's.
Center it in each direction then fasten it with 1 3/4" washer head screws.



Side Winder Slide, Tornado Tube & Tunnel Express Slide

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

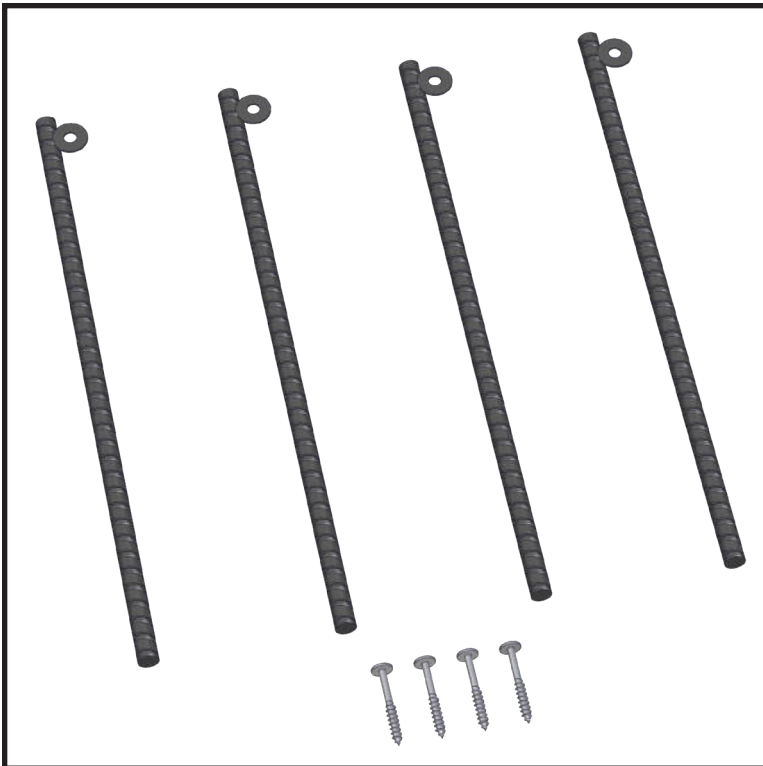
Fasten the 26" 2x4's using 1 3/4" washer head screws.
Measure the panel width to determine the 2x4 spacing.



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.

