

Playground Assembly Instructions

Before You Begin

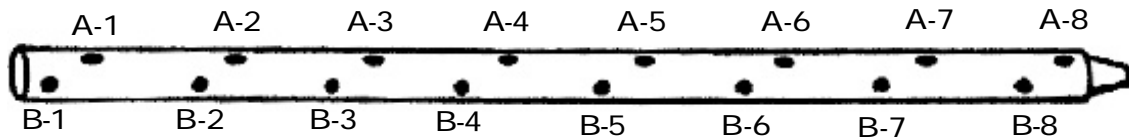
- Locate the playground set on firm, level ground.
- Assemble the playground on or close to its permanent location
- Two people are recommended to assemble the playground.

Recommended Tools

- 3/8" Power Drill
- #2 Square Drive Bit (included)
- 1/2" Wrench
- Hammer or mallet
- Tape Measure

Plastic Crayon Log

The plastic log is shaped like a crayon with holes along the entire length.



The log has two sides, an A Side and a B Side (both of which have 8 holes that are 14 inches apart.) The only difference between the A Side and B Side is that they are offset 3 inches from each other. The A Side is the side containing the hole closest to the crayon tip. The B Side is the side containing the hole closest to the bottom. (*Hint: B Side has the Bottom hole.*)

The holes are numbered from the bottom of the log up to the top. So on the A Side, A-1 is on the bottom, and A-8 is at the crayon tip end. On the B Side, B-1 is on the bottom and B-8 is at the crayon tip end.

The bottom of the log also shows which side is the A Side and which is the B Side. Make sure you understand which side is which before you begin assembling the playground.

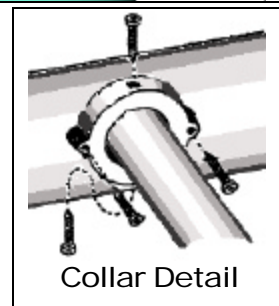
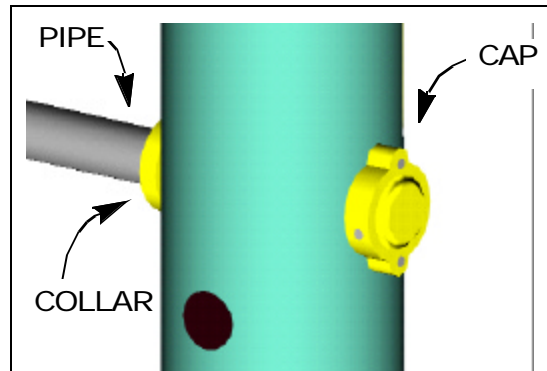
Pipe Caps and Collars

Caps and Collars are used whenever a metal pipe intersects a log. It is a special system designed to fasten the metal pipe to the log and then to lock the pipe securely so it cannot move or rotate. A Collar is used on the *inside* of the log, and a Cap is used on the *outside* of the log.

The Caps and the Collars have an inner lip which fits snugly into the hole in the crayon log. This means you do not have to worry about alignment, because alignment is automatic.

To attach the Collar, push it into the correct hole in the crayon log, until it fits snugly. Then secure the Collar to the log with two Long Screws (#10 x 1-1/2"). You may find it easiest to attach all the collars to the logs before assembling the playground. Remember, the Collars go only on the *inside* of the log wherever a pipe will be used through the log.

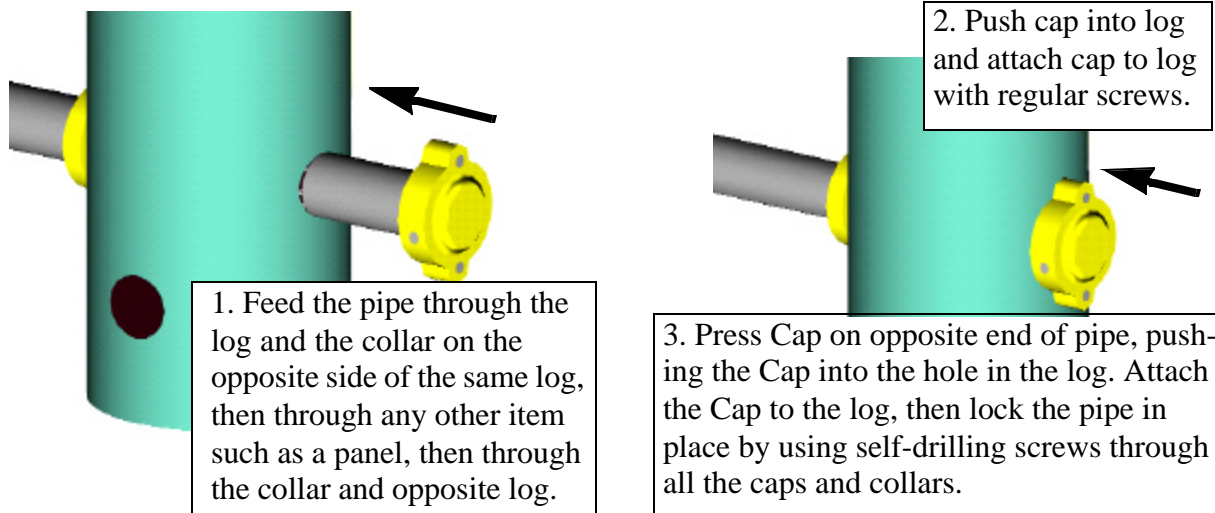
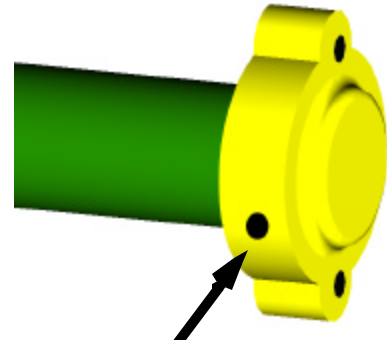
The *outside* of the log will take a Cap, which will attach to the end of the pipe and secure it snugly against the crayon log.



TIP: Since straight pipes are fed through both crayon logs and anything between them, it is easiest to attach a cap to the end of the straight pipe before feeding it into place. This also provides a comfortable handle to use for positioning the pipe and to be used for pushing the pipe through the logs.

To attach a Cap to the *first* end of the straight pipe, simply slide the cap over the end of the pipe, push it on snugly, and attach the Cap to the pipe by driving a self-drilling screw through the side of the cap and into the pipe. Do not over-tighten the screw or you will distort the cap. If distorted too much, the cap will no longer fit into its hole in the log. If this occurs, simply back the screw off slightly until it is no longer distorted.

When assembling the playground, feed the straight pipes through the logs and other items (such as panels, etc.) as described in the more detailed assembly instructions. The cap on the end of the pipe helps you to feed it through the holes as you assemble the playground.



1. Feed the pipe through the log and the collar on the opposite side of the same log, then through any other item such as a panel, then through the collar and opposite log.

3. Press Cap on opposite end of pipe, pushing the Cap into the hole in the log. Attach the Cap to the log, then lock the pipe in place by using self-drilling screws through all the caps and collars.

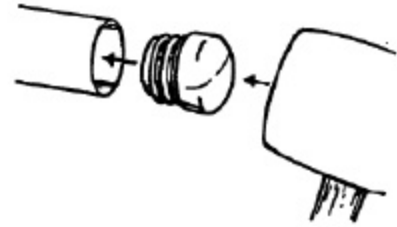
Once the first end of the pipe is secured with a cap and attached to a log, slide a cap over the other end of the pipe (which should be protruding slightly through the log), then wiggle the cap as you push it into the log. It should fit in snugly. Attach the cap to the log using 2 regular screws. Then secure the cap to the pipe by driving one self-drilling screw through each side of the cap and collar, and through the pipe.

Colors: Each cap and collar typically contrasts the color of the plastic part against which it is attached. Yellow caps and collars are typically used next to parts of every color except yellow. Blue caps and collars are typically used to contrast with yellow parts. If your playground comes with a mixture of colors for the caps and collars, you may choose to attach them without regard to color if you wish.

End Caps

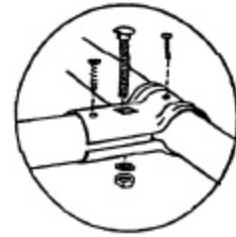
End Caps are inserted wherever there is an open end of a pipe after the playground has been assembled. (For this model, there will be 4 End Caps, one for each end of the open pipe on the tower support bottom braces, and one for each end of the open pipe on the outside climber support bottom braces.)

Tap the End Plug into the open end of the pipe using a hammer or mallet as shown.

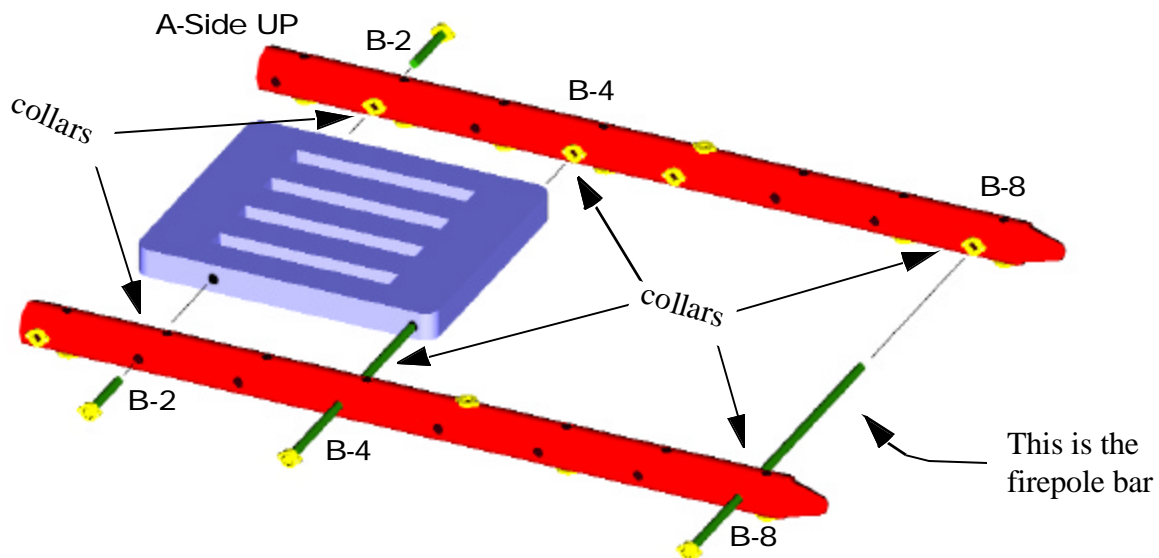


T-Clamp

T-Clamps are used to attach two pipes together at a junction. The two-piece clamp fits around the pipe forming a T-shape and is fastened with a carriage bolt and a nut. When all is positioned, drive four self-drilling screws through the T-Clamp and into each pipe.



Assemble the First Tower Side



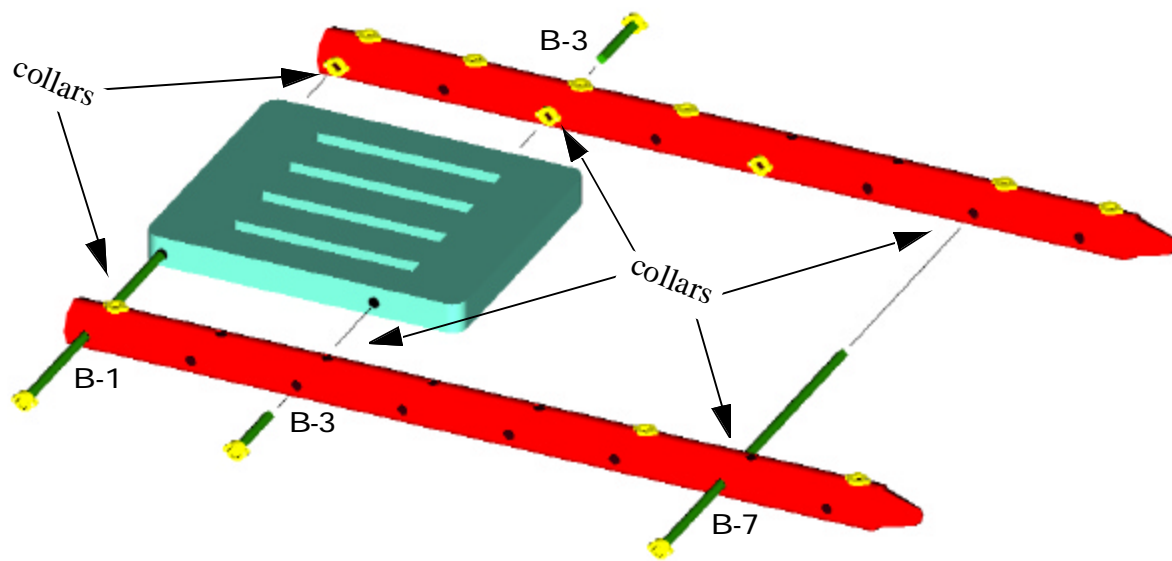
Select two of the crayon logs to use for one side of the tower. Attach a collar at each of the locations shown on the drawing. There should be 3 collars on each log ... attached on both logs at locations B-2, B-4 and B-8.

Place the two logs flat on the ground, with the A Side facing up. The collars should be facing each other. Feed a 52" pipe through the B-8 hole on both logs. Cap the pipe and lock the pipe in place using self-drilling screws through both caps and both collars.

Place the Panel between the logs near the bottom end (see drawing) and slide a 52" pipe through the B-4 hole, then through the top end of the Panel, then through the B-4 hole on the opposite log. Secure the pipe with caps on both ends.

On each log, feed a 9-1/2" pipe through B-2 and into the Panel. (You could have already attached the cap on the end of the pipe before feeding it into the hole.) Attach the Cap to the log, then lock the pipe into place through each cap and collar.

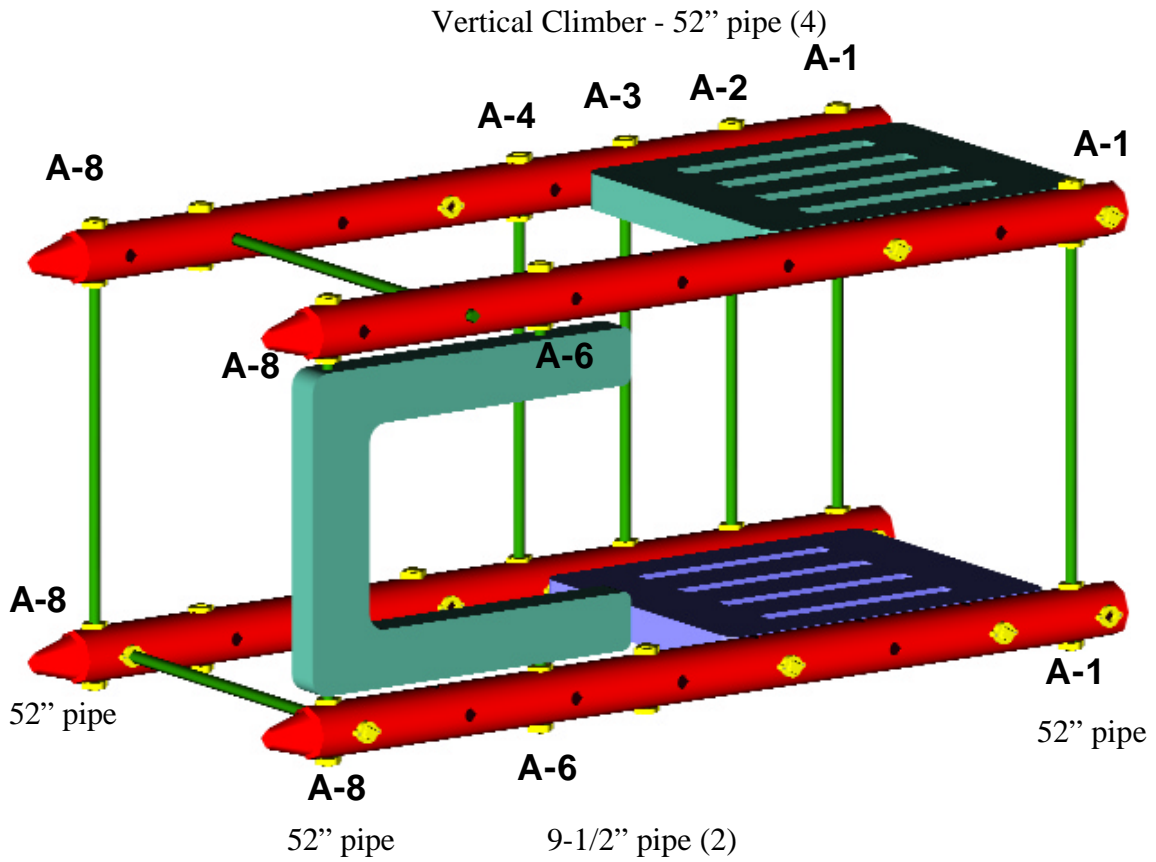
Assemble the Second Tower Side



Select two more crayon logs to use for the opposite side of the tower. Attach a collar at each of the locations shown in the diagram below. There should be 3 collars on each log ... attached on both logs at locations B-1, B-3 and B-7

Place the two logs flat on the ground, with the A Side facing up. The collars should be facing each other. Feed a 52" pipe through the B-1 and the B-7 holes, and feed a 9-1/2" pipe through the B-3 hole into each side of the panel. Fasten all caps to the logs, then fasten all caps and collars to all pipes.

Putting the two sides together



Lift it up so it stands like a tower

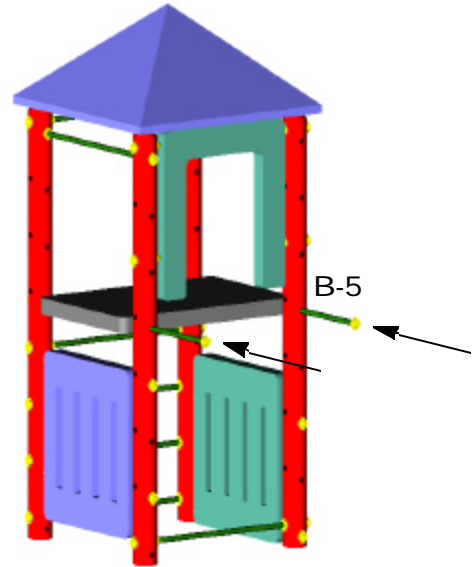
Raise it up so it stands upright. Place it where you want it to be located when fully assembled.

Deck Assembly

Note: There is not enough room to have a collar on the inside of all 4 logs where the deck is to be placed. For this reason, only two (2) collars will be attached to the inside of the logs where the deck pipes will go, and these two collars should be attached to the inside of the B-5 hole on the two logs *opposite* the mouse hole. This will force the deck snugly against the logs on the side where the slide is attached.

Overview: The easiest way to assemble the deck is to first slide the pipes in place without the deck, then to set the deck on top of the pipes (which then help support the weight of the deck). This allows you to hold the deck by one end (while it is supported at the other end) so you can remove the pipe enough to feed it back through the logs, but this time feeding it through the deck as well.

1. Slide two (2) 52" pipes through the B-5 holes next to the mouse hole, then through the collar on the opposite log and through the log itself.
2. Place the deck across the top of both pipes.
3. Lift one end of the deck (while the other end rests on the top of the other pipe) and slide the pipe out from beneath the deck, then feed it back through. This time, the pipe should be fed through the B-5 hole of the log, then through the deck, then through the collar and the opposite log.
4. Do the same with the second pipe, pulling it back so you can feed it through the deck as well.
5. Use two long screws to attach the first cap on each pipe to its log.
6. Attach a cap to the opposite end of the pipe, fitting it snugly into the hole in the log before attaching it firmly into place using the long screws.
7. Finally, lock the pipe in place using self-drilling screws through both of the designated holes in each of the caps and collars.



Attaching the Roof

The tower will automatically become should be positioned as a perfect square.

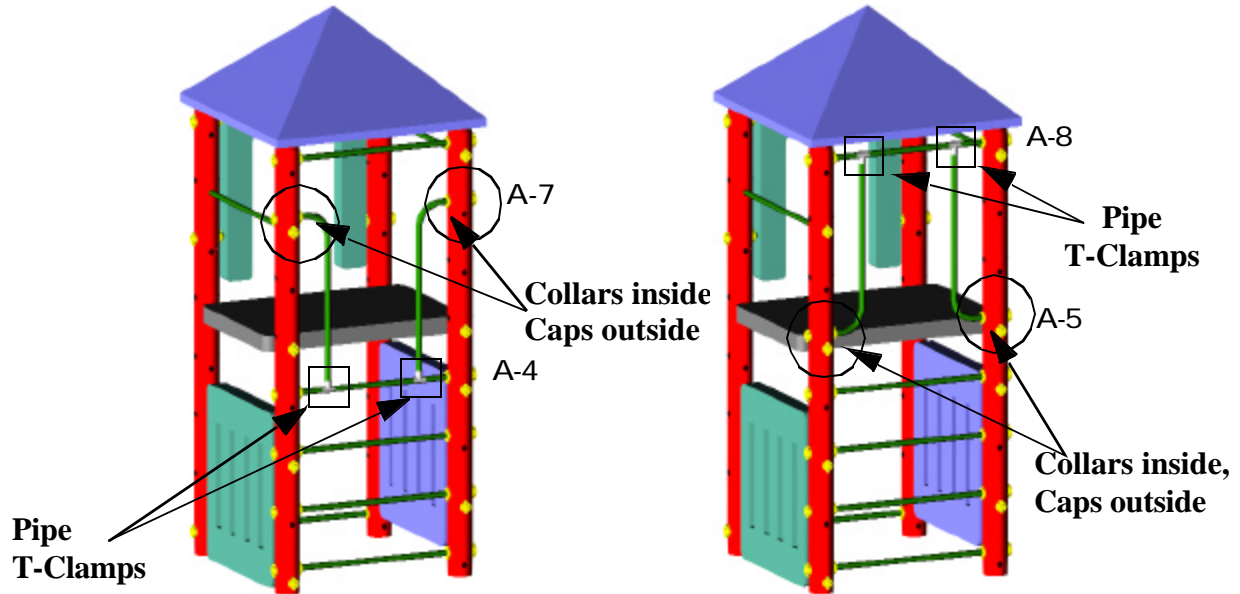
To attach the roof, first push it up so the first 2 corners catch on 2 of the crayon logs. This allows you to hang the roof in that position (you can actually release the roof and it should hang in place). Then push the roof up so it lays across the top of all 4 crayon logs.

Straighten the roof if necessary, then attach the roof by driving a long screw through the top of the roof and into the top of the crayon log. (It is easiest to do this from a stepladder. You may want to use a flashlight to shine from below so you can see from above where the log touches the roof, or touch the roof from below with your finger so you can see the position of the shadow.)

J-Handles

J-handles can be attached in either of the following two layouts. In the first instance, the J-handles are inverted and attached by pipe clamps to the top step of the vertical climber. In the alternate instance, the J-handles are attached with pipe clamps at the top. (See section on installing Pipe Clamps.) Check the drawing of the specific playground to see which method to use. Your playground may have the handles positioned at a different height, but the diagrams below show which holes are used for the specific configurations shown.

Always use collars on the inside of the log, and caps on the outside, as shown in the diagrams below. Be sure to fasten the pipes to the caps and collars with self-drilling screws.



Diagonal Tower Supports

Slide two (2) "C"-Braces through the A-5 holes on the outside as shown, with collars on the outside of the tower, and caps on the inside of the tower. Next, slide two (2) 52" pipes through the B-1 holes as shown, with collars on the outside and caps on the inside.

