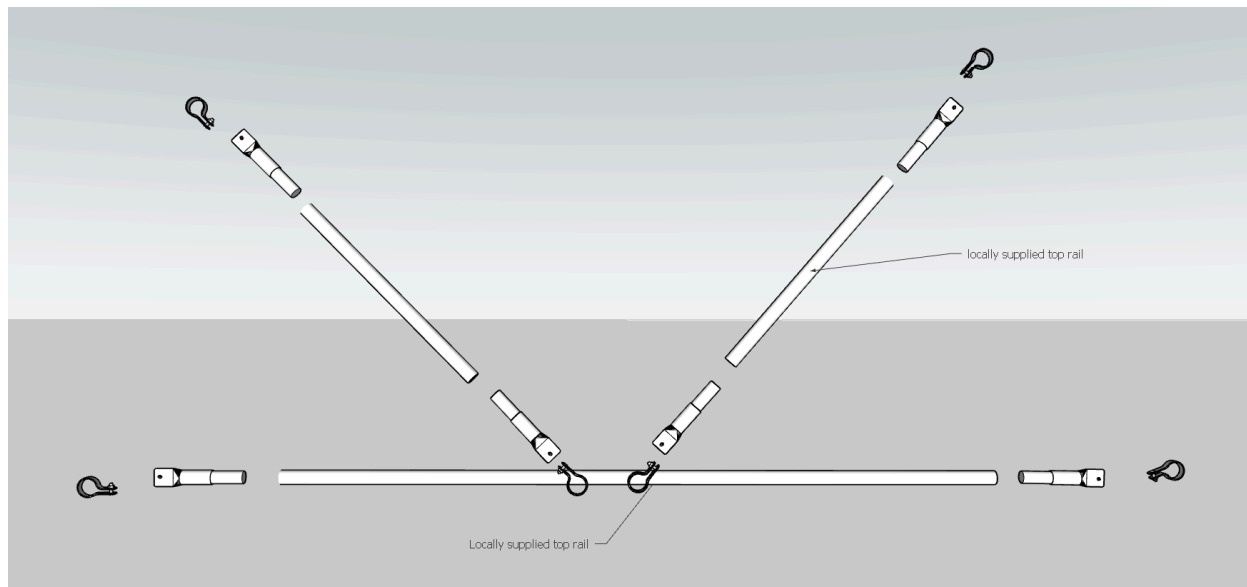


DIY Truss Kit

Last revision date 12/13/2025



Tools

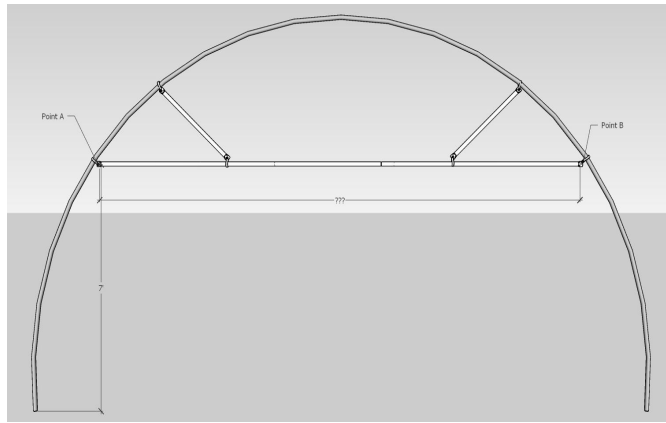
- Ladder
- Tape Measure
- Drill
- Saw
- Ratchet & Sockets

Parts Per Truss

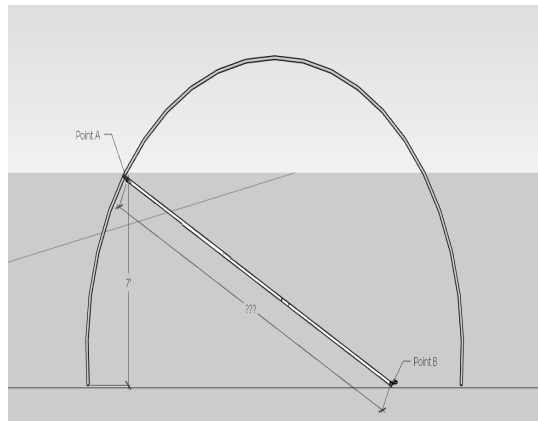
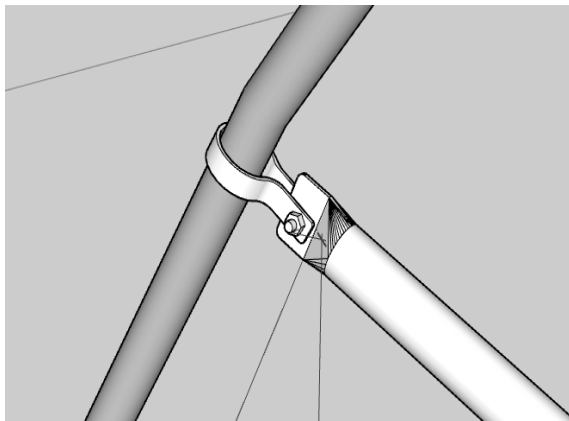
- 1 3/8" Tension Band (6)
- 5/16" carriage bolts for tension bands
- #8 screws
- Flat-Swage Adapter | 1 3/8" OD (6)
- 1 3/8" top rail (buy locally)

Installation

1. Determine the desired height of the horizontal crossbar from the ground. Then measure from one side of the hoop to the other (Point A to Point B). This will determine the length of the horizontal crossbar.



2. Cut the 1 3/8" top rail down to shorten the crossbar to your desired length. Minus the length of the two Flat-Swage Adapters. **If your crossbar needs to be longer than 10', do not cut off the swaged end.** You'll need it to connect to the next pipe—swage to open end—for a secure fit.
3. Connect the pipe to the flat-swage adapters. Align the flat sections, so they are on the same plane.
4. Once connected, use (2) #8 x 3/4" self-tapping screws at the joints to prevent twisting and separation.
5. Install a tension band over the hoop and connect the flat section to the tension band with a bolt and nut inserted through the tension band and the hole in the flat section.



6. Raise the opposite side of the crossbar to the hoop and attach it with a tension band, as in step 5.

7. Put a level on the bar and adjust it so it is level. Then tighten the bolts at the tension bands.
8. **Installing the diagonal supports on the kit** follows the same steps you have already taken. Determine the length of the brace you need, minus the length of the flat swage adapter. Cut a piece of pipe to fit between the adapters. Insert the swaged end of each adapter into the pipe and connect with (2) #8 screws. Make sure the flats are aligned before screwing them together. Install a tension band over the hoop, use a bolt to attach it to the diagonal brace, and secure it with the nut. Install a tension band on the horizontal crossbar. Install the other end of the diagonal with a bolt and nut to the tension band. Position the bar at a 45-degree angle, as shown below.
9. Tighten bolts on tension bands holding the diagonal brace in place. You should have a truss that resembles the one pictured below.

