

Weedhopper PVC Wing Helper

Materials Needed: Total cost about \$12 to \$15 for each. I built 2 so I had one for each side.

5 – 5 ft pieces 1 1/2 PVC schedule 40. However you can get it I found it in 10 ft lengths you might find 20 ft.

2 - 10 ft pieces 1/2-inch schedule 40. 3/4 will work fine also. They will be cut to length to create the X bars.

2 - 45 degree angle connector pieces for 1 1/2.

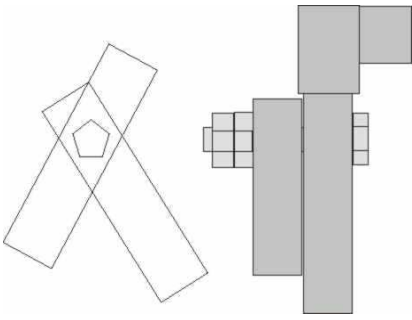
A little bit of PVC Glue. Glue the centerpiece to the 45-degree since it is all down pressure it will not come off

2 - 1/4 in bolts and nuts 3 1/2 in long to go through the top of the “A” and these stay in place.

8 - 1/4 in bolts long enough to go through the 1 1/2 in and either 1/2 or 3/4 PVC and nuts.

I used extra long ones - 4 inch since I had a bunch of them laying around it does not make any difference since once they are put in place and a nut spun on a little bit the structure cant move.

Note: The top piece shown below - you can leave the bolts in all the time. This is the top of the “A” frame.



The top piece angle connector just sits on top of this leg it is not glued on. The 5 ft centerpiece is glued to the 45 degree angle pieces.

Two pieces of 5 ft x 1 1/2 make up each side "A" shape when drilling the holes put it down a little ways so there is room for the 45 degree connector on top of one leg and when folded the leg without the connector will not hit the connector. See drawing above.

Assembly procedure:

1. To assemble open the above assembly and add the short pieces to create the A shape.
2. Attach the 5 ft piece with the 45-degree connectors on top of each "A" frame the system will now stand on its own. Both “A” frames are connected on top this is a slip fit no bolts or glue required.
3. Attach the 1/2 or 3/4 inch PVC to the legs so you have the X in place this will hold everything solid.
4. Pick it up and place it near where the end of your wing will be when you extend it from the root tube. Set the wing end on the top of the wing helper stand. It is now easier to assemble the wing and wing struts.

