

# Peep Sight Teaching Tool

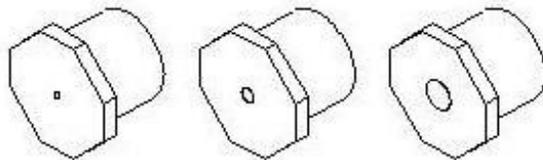
Over time we have found that some of our youth had some difficulty learning how to use peep sights. Explaining the sight picture was often difficult and time consuming. As a result we came up with this tool which has been very helpful in teaching youngsters how to properly use peep sights. All of the materials are available at your local hardware store.

## Bill of Materials

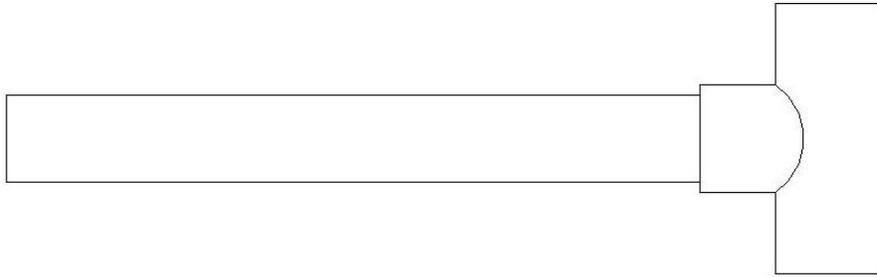
Part	Number or Length Required
1/2" PVC water pipe	3"
3/4" PVC water pipe	30"
1/2" x 1/2" x 1/2" PVC tee	2
3/4" x 3/4" x 1/2" PVC tee	2
3/4" x 3/4" x 3/4" PVC tee	1
3/4" PVC street ell	2
1/2" PVC plug (hex or octagonal head)	3
PVC cement	1 small tube or can

## Building Instructions

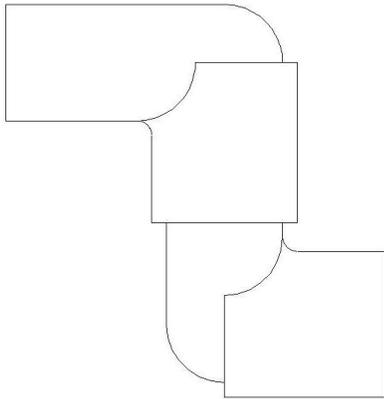
1. Cut the 3/4" PVC pipe into two pieces to end up with:
  - 1 piece 21" long
  - 1 piece 9" long
2. Cut the 1/2" PVC pipe to end up with 2 pieces, each one being 1 1/2" long.
3. Now we will make our sight aperture inserts by drilling holes in the center of the plugs as follows:
  - 1/16" hole in one plug
  - 1/8" hole in one plug
  - 1/4" hole in one plugThe holes should be centered in the middle of the hex or octagonal end of each of the plugs, as shown.



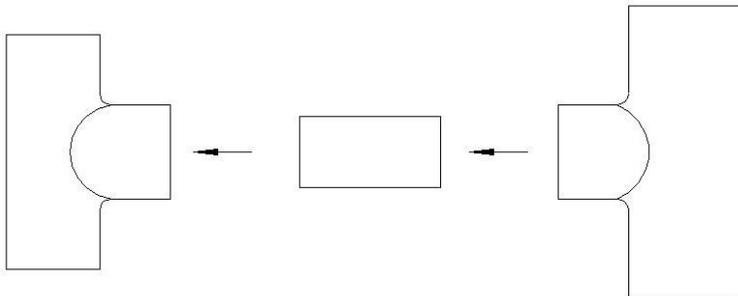
4. Take the 9" piece of  $\frac{3}{4}$ " pipe and attach the  $\frac{3}{4}$ " x  $\frac{3}{4}$ " x  $\frac{3}{4}$ " tee to one end. You can safely glue this joint right away. This will become the stock and butt of the tool. It should look like this:



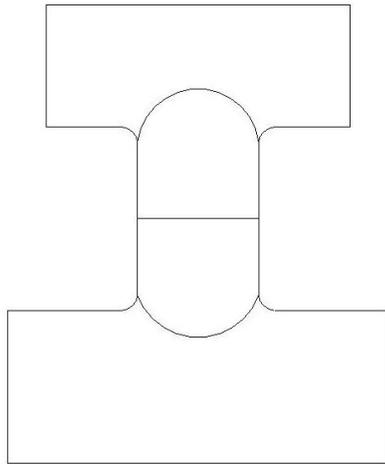
5. Take the two  $\frac{3}{4}$ " street ells and glue them together as shown. Be sure to get the two ends parallel.



6. Take one  $\frac{3}{4}$ " x  $\frac{3}{4}$ " x  $\frac{1}{2}$ " tee, one  $\frac{3}{4}$ " x  $\frac{3}{4}$ " x  $\frac{3}{4}$ " tee, and one of the 1  $\frac{1}{2}$ " long pieces of  $\frac{1}{2}$ " pipe and glue the three pieces together as shown, making sure to get the two open bores parallel with each other. Repeat this process with the remaining tees and  $\frac{1}{2}$ " pipe to make a second piece exactly like the first.



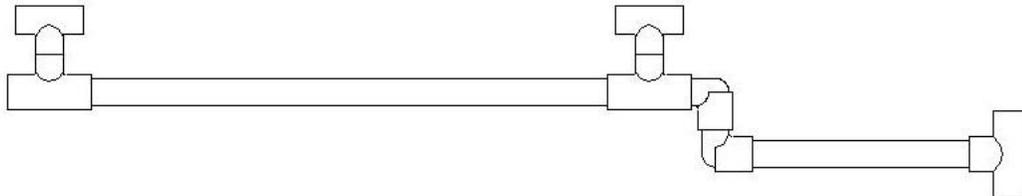
You should end up with two pieces that look like this:



7. Now assemble the two tee assemblies to the ends of the 21" long piece of  $\frac{3}{4}$ " pipe. Be sure to get everything square and parallel when gluing. You now have the barrel of the tool with the front and rear sights:



8. Now glue the two street ells to one end of the barrel assembly, once again keeping everything square and parallel. Once this is complete, you are done gluing pieces together. The stock can simply be friction fit into the street ell. This will allow you to cut the stock shorter if you wish to do so and also allows the stock to be removed so that the training tool takes less storage space. We found that a stock pipe length of about 6 or 7 inches worked better than 9 inches for our youth.



## ***Using the Peep Sight Training Tool***

Using the tool is fairly simple. We start the student with large apertures, having him or her line the sights up on a target. We then substitute progressively smaller apertures and have the student repeat the process with each one. They are able to pick up on the idea pretty quickly. Inserts are placed in the rear of the rear sight and in the front of the front sight, and are simply a press fit. They should not be glued in place.

1. Starting with no inserts in either the front or rear sights, have the student sight in on a target while viewing through the open sight bores. Once the student has mastered this, move on to the next step.
2. Place the 1/8" insert in the rear sight and have the student try again.
3. Remove the 1/8" insert and place the 1/16" insert in the rear sight and have the student try once more.
4. Add the 1/4" insert in the front sight and have the student try again.
5. Replace the 1/4" insert with the 1/8" insert in the front sight and have the student try once more.

Once the student is able to successfully sight in on a target with the 1/16" insert in the rear sight and the 1/8" insert in the front sight, he or she should have no trouble using the peep sights on any rifle or on any target.

We hope that you find this tool useful and that your youth find it an easy way to learn how to use peep sights.