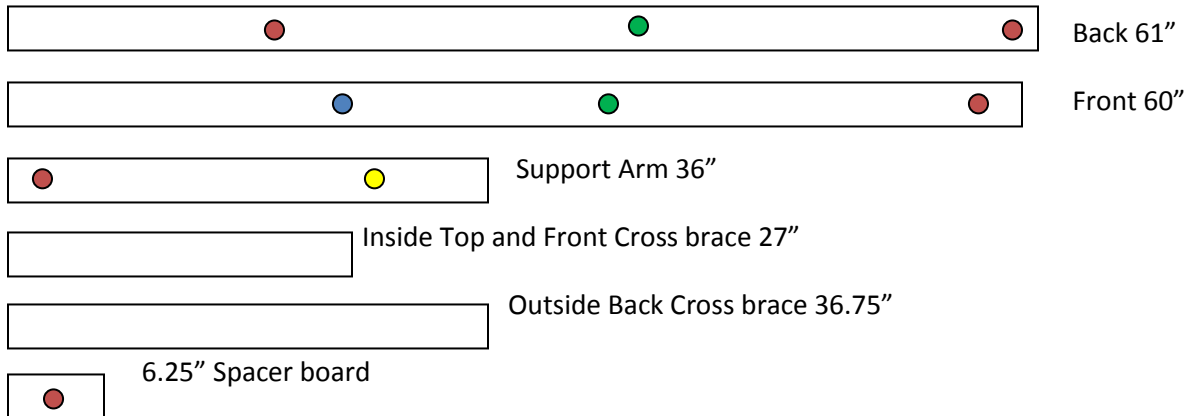


This target stand design is a modified version of the stand from <http://www.texasarchery.org/Documents/BransonStand/Bransonstand.htm>



Red circles are  $\frac{1}{4}$ " holes. Yellow, Blue and Green circles are  $\frac{5}{16}$ " or  $\frac{3}{8}$ " holes

#### Supply List

- 4 8 foot 2"x4"
- 1 36.75" board as back cross brace. The width and height don't matter
- 12  $\frac{1}{4}$ " washers
- 6  $\frac{5}{16}$ " washers
- 4  $\frac{1}{4}$ " hex nuts
- 2  $\frac{1}{4}$ " wing nuts
- 4  $\frac{1}{4}$ " 6" carriage bolts
- 2  $\frac{1}{4}$ " 4" carriage bolts
- 4" deck screws for cross braces and spacer

Cut the first two 8 foot 2x4, into two pieces each which are 60" long for the front legs and 36" long for the support arms.

On the 60" pieces drill a  $\frac{5}{16}$ " or  $\frac{3}{8}$ " hole that is 27 " from the ground. Drill a  $\frac{1}{4}$ " hole 3" from the top that will be where the target pivots open.

On the 36" support arm drill a  $\frac{1}{4}$ " hole that is  $3\frac{5}{8}$ " from one side and a  $\frac{5}{16}$ " or  $\frac{3}{8}$ " hole that is 10.5" from the other side.

Cut the remaining two 8 foot 2x4 into three pieces each which are 61" long for the back legs, 27" long for the inside cross braces, and 6.25" long to act as a spacer board. Discard the remaining few inches.

On the 61" board drill a  $\frac{1}{4}$ " hole that is 1.5" from the top of the board. Drill another  $\frac{1}{4}$ " hole that is 22.5" from the bottom of the board. On the side that has a hole 1.5" from the top you will have to cut the corner off about 1" long to make sure the target sits flush.

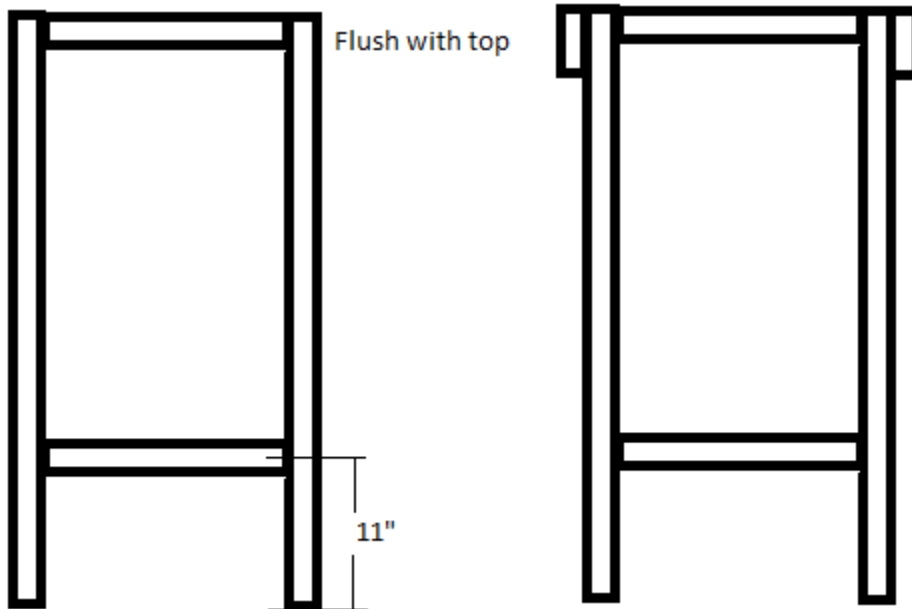


\*You should drill pilot holes before screwing in the wood to prevent splitting

On the 27" boards don't drill any holes. These will be used as cross braces.

On the 6.25" board drill a 1/4" hole that is 3" from one side.

Next start by screwing\* one 27" cross brace on the inside flush with the top of the two 60" boards. The second inside cross brace goes between the two 60" boards as well but center it 11" from the bottom



Now screw\* the 6.25" boards flush on top with the 60" boards. Make sure that the board is facing the correct way so the holes line up.

Put a 4" carriage bolt through the 36" 1/4" hole and the 61" 1/4" hole that is 22.5" from the bottom, but don't tighten very much. Line the boards up flat and drill through the 36" board's 5/16" or 3/8" hole into the 61" board. This hole will be use to keep the stand together when it is laid flat. Do this for both 61" boards. These will make the green hole on the first page

Next insert a 6" carriage bolt through the 61" board into the 6.25" spacer and 60" board on both sides. Tighten until the nut won't easily come off but you can still pivot the boards easily.

Line up the 61" board, the 36" support arm and 60" board flat and drill through the 61" and 36" boards green hole into the 60" board to make sure they all line up. These three holes should all line up and is where the 6" carriage bolt goes when the stand is laid flat.

Now finish assembling the target. There should be a 4" carriage bolt going through the 61" board and the 36" support arm. A 6" carriage bolt goes through the 61" board, 6.25" spacer and 60" board at the top. The last 6" carriage bolt goes through the 60" board and the 36" support arm.

With the target all set up screw in the last 36.75" back cross brace on. Make sure that when you place it on the back of the 61" legs that it doesn't interfere with the movement of the 36" support arms.



