

PVC Rally Sign Holders

Here's my variant of Pat McMahon's rally sign holders. I've yet to run across a better method to hold the 24"x24" plasticboard signs used at Timing Controls. These things stand up well in wind, don't require pounding into the earth (which is pretty much solid granite most places in Prescott, AZ), don't pose a hazard to the competitors, and don't take up a lot of space when taken apart. They're also relatively inexpensive to make (around \$45 for 3 sign holders). Sure as heck beats using rocks and rebar! ;-)

Bill of Materials to make three sign holders:

- 5 – 10' x 1" SCH40 PVC
- 1 – 4' x 1/2" SCH40 PVC
- 18 – 1" PVC 90 elbows
- 6 – 1" PVC T's
- 3 – 1" to 1/2" PVC T's

Cut the 1" PVC into the following lengths:

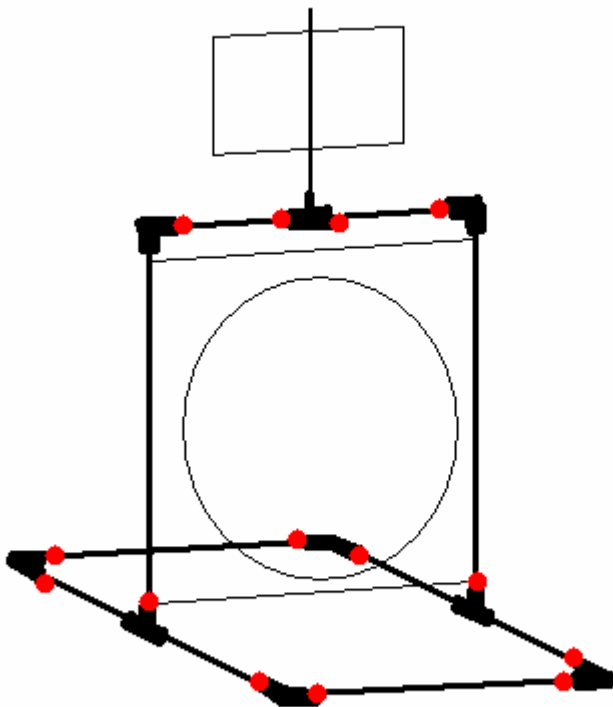
- 6 – 22" long pieces for the ends of the base
- 18 – 10 1/4" long pieces for the sides of the base and the top bar
- 6 – 27" long pieces for the uprights

Cut the 1/2" PVC into 3 - 16" lengths

Cut a 3/16" to 1/4" wide slot, 26" long down each 27" piece of 1" PVC used for the uprights. Leave a 1" section without the cut at one end of this piece to go into the T. I used a table mounted circular saw with two blades back-to-back to rip this slot.

Drill a 3/16" hole 1 1/2" from one end of each 16" section of 1/2" PVC. This is for attachment of the large LED "Masano" count down clocks used at ATC & STC.

Here's a diagram of how all the parts fit together. The red dots indicate places to possibly use glue. FWIW, I didn't use glue and simply friction fit the pieces together...



Notes:

- I used 1" PVC. Other variants I've seen have used 1 1/4" PVC for the major structural pieces. The 1" is a bit lighter and is holding up OK so far for me...YMMV. If you do use the 1 1/4" tubing, adjust the sizes of the 90 elbows & T's and decrease the length of the pieces used for the ends of the base and top bar by 1/4" (to 21 3/4" and 10" respectively).
- If you don't use the "Masano" LED clocks, substitute a 22" long section of 1" PVC for the 2-10" pieces joined with a 1" to 1/2" T used as the top bar.