

CERT Pole Plans The Base

These instructions have NO provisions for base anchors or guy wires to prevent this base/antenna assembly from toppling due to wind or other factors. Before using this assembly, provide safety measures to prevent toppling and possible injury to personnel. Do not erect or use this assembly near power lines or utility lines.

These directions and the list of components are for building an antenna base to accommodate a telescoping painters's pole, available in various lengths from Home Depot, Lowe's, Harbor Freight and other sources. I purchased everything at Home Depot, so if you are working with products from other stores, compare fit and sizing before you start. After constructing a base, you have a number of choices for finishing off your project. See "Vertical Mast and Antenna," page 2.

Base Components:

<u>Qty:</u>	<u>Item:</u>
1	10-ft. length of 1-1/2" PVC (\$4.50) Note: check to be sure that <u>your</u> telescoping pole can be inserted into 1-1/2" PVC pipe);
2	1-1/2" Tee connectors (\$3);
2	22.5 deg. 1-1/2" ABS elbows [female/female] (\$3)
1	PVC glue
2	1/4" x 3/4" thumb screws (\$1/pr.)

Assembly:

- (1) Cut the 10 ft. length of 1-1/2" PVC into 7 pieces as follows:

<u>Qty:</u>	<u>Part:</u>
2	30" back legs;
1	32" front leg;
1	3" piece for joining the Tee's;
2	2-1/2" pieces to join back legs and elbows;
1	The remaining length (approx. 20") will be the vertical pole support piece.

After cutting, layout all the above pieces, elbows and connectors and dry fit them together to be sure you have them assembled correctly - photo #1.

- (2) Drill 2 holes (#7 or 3/16ths") 3/4" in from the edges of Tee connector, and tap 1/4"-20 thread. Insert thumb screws. [photo #2]
- (3) Glue the front leg into the front Tee connector - the one **without** the winged screws. [photo #1]
- (3) Assemble/glue the two Tee connectors together with the 3" piece of PVC.
Tip: Temporarily insert the vertical piece into the front connector and the back legs into the back Tee connector (the one **with** the winged screws) so that you can align the upright piece at 90 deg. after applying glue and putting the pieces together. [photo #3]
- (4) Assemble/glue the short 2-1/2" pieces to the ABS elbow connectors and then an elbow connector to each rear leg. [photo #1]

That's it! No other gluing after this point!

- (5) Assemble base. Rear legs can be rotated to compensate for uneven or sloped ground. [photo #4]

The base is finished! Now, you need to work on the vertical mast and attach an antenna.

