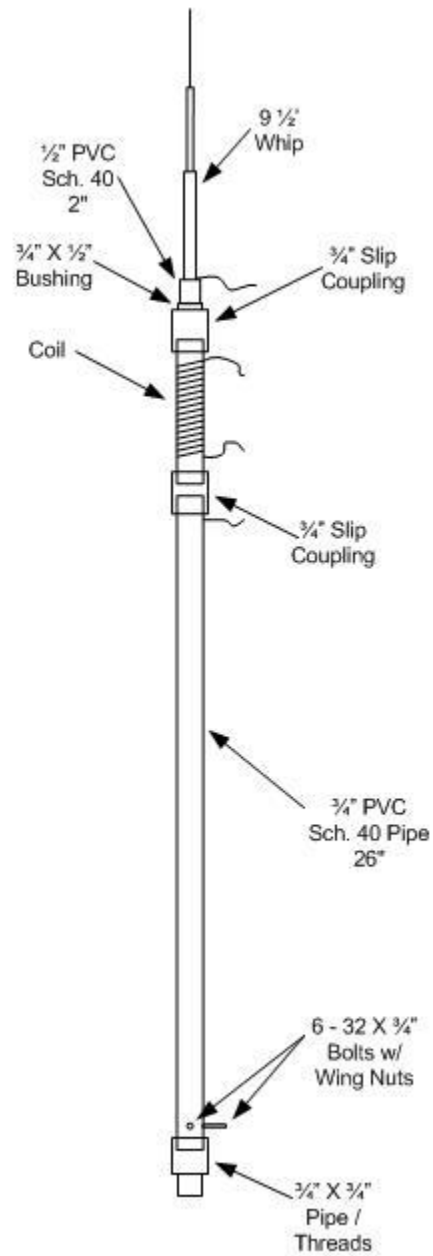
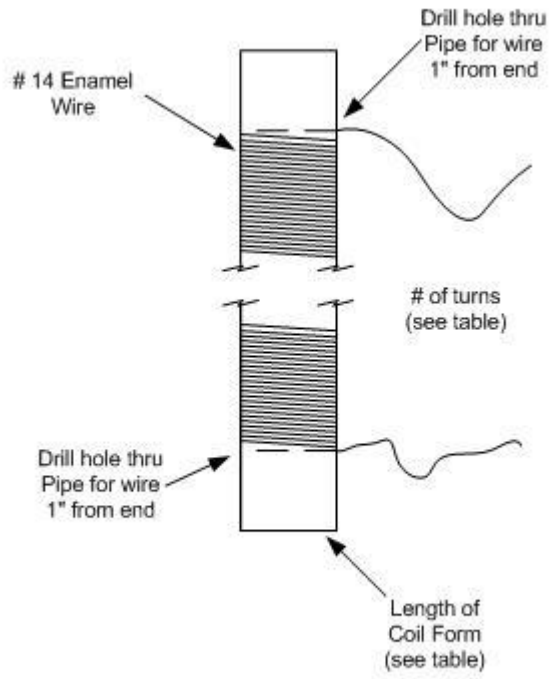
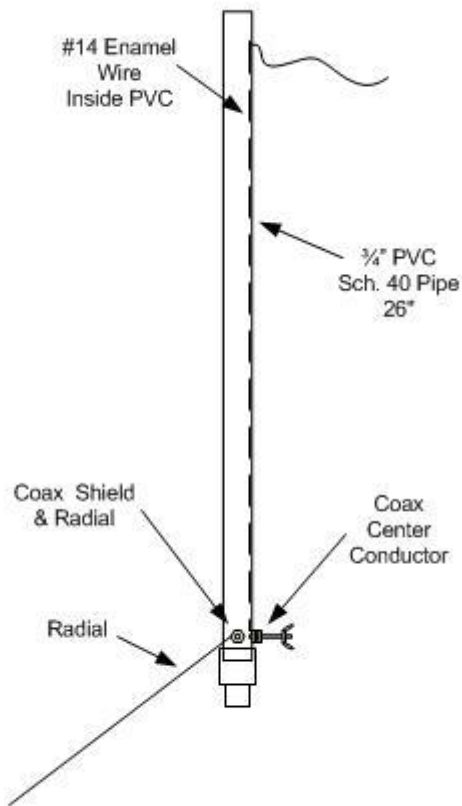


Home Built Buddistick Antenna







W3FF made the original instructions on building a home built Buddistick. He commercially manufactures the Buddipole and Buddistick. This is the Buddistick that I made. It was built similar to the instructions but I changed a few things. I didn't use the speaker wire, I used # 14 enamel wire for the coils and inside the bottom tube. The top piece I made from 1/2" PVC and drove a 3/8" X 24 coupling into the 1/2" PVC (it makes a tight fit). If you use the alternate whips I would do it differently (see below). Down Load the complete instructions below.

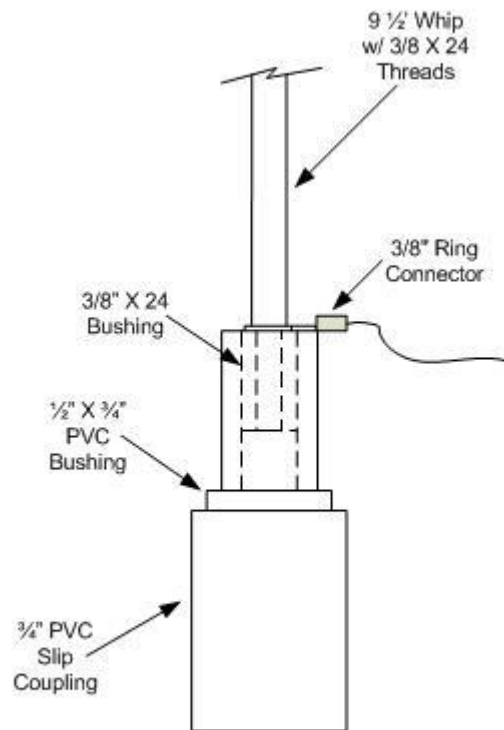
I made the bottom pole first. It is made from 3/4" PVC sch. 40, 26" long. I drilled a small hole 1" from the top and bottom (only through one side of the pipe). I then put in a # 14 enamel wire inside the pipe and put the wire out through the holes. The bottom wire only needs to be 1" but the top will need to extend out about 6". On the bottom I drill two holes (at right angles to one another) for 6 / 32 bolts (one of the holes need to be close to the wire). Insert the bolts and nuts. Scrape off the enamel off the bottom wire and secure it to the bolt closest to it (I soldered a lug on mine). Place a second nut to hold the

wire onto the bolt and then place the Wing nut on the bolt. On the other bolt place a Wing Nut on the bolt (this will be used for the coax shield and Radial).

Cut the coil forms according to the chart below (use 3/4" PVC). Drill a hole all the way through the PVC (this should be a tight fit for the # 14 enamel wire) 1" from each end, the holes should be oriented the same way. Push one end of the wire all the way through the pipe leaving about 6" exposed. Wind the number of turns indicated in the chart below and then push the end all the way through the pipe to secure the coil.

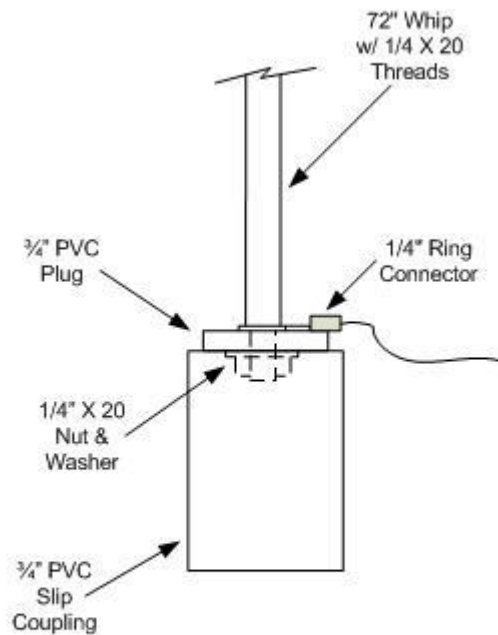
Band	Radial Length	Coils ?	Whip Length
10M	7'	No	56"
12M	8' 4"	No	56"
15M	9'	No	9 1/2'
17M	11'	No	9 1/2'
20M	15'	Yes	9 1/2'
30M	22'	Yes	9 1/2'
40M	31'	Yes	9 1/2'
60M	41'	Yes	9 1/2'

Down Load Buddistick Instructions:



Whip Mounting Detail 9 1/2' Whip w/3/8 X 24 Thread

Alternate Whip Mounting Detail 72" Whip w/1/4 X 20 Thread



Band	Coil Form	# of Turns	~ Wire Length
20M	3"	7 Turns	38"
30M	4"	18 Turns	6'
40M	6"	44 Turns	14' 6"
60M	10"	82 Turns	25' 6"

Operating & Tuning - Home Made Buddistick

Mounting your antenna, I put a 3/4" plug into a coupling (slip on one end for the plug and threaded on the other end for the antenna) and mounted the assembly on a spring clip. I can then place the spring clip on a table etc. It works good up to ~ 1" table, if thicker it will then lean to one side. I'm working on a different mount.

Attach the Radial and Coax, the Radial is an elevated Radial, it doesn't touch the ground.

Using the above chart as a starting point, hook-up your antenna analyzer and find the lowerest SWR. If the frequency is high then you will need to lengthened the radial, etc.

If you don't have an analyzer then you will have to use your SWR meter on your radio or tuner. To get the approximate setting for your tuner tune for maximum noise and then check the SWR.



Whip Mounting Detail 3/8" X 24



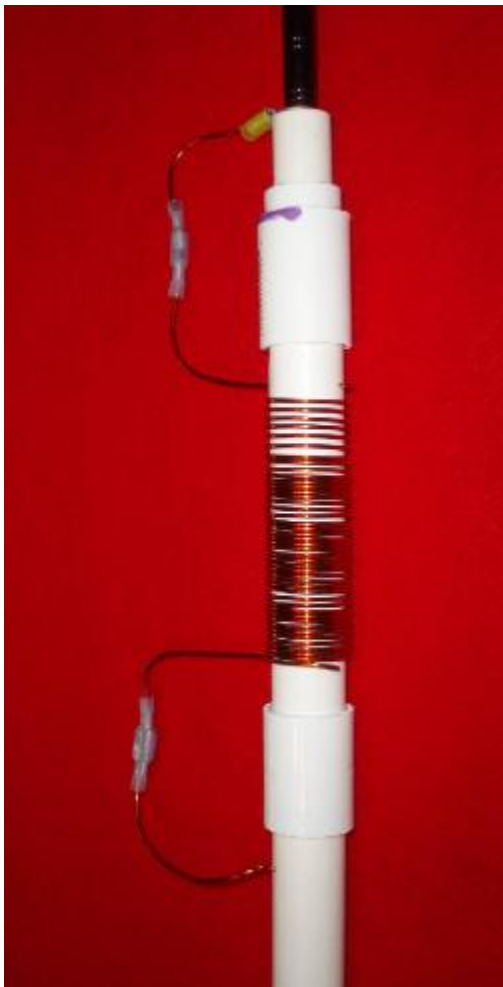
Buddistick Components Whip - Coils - Bottom Pole - Clamp



Buddistick Antenna Top Section



Buddistick Antenna / Bottom Section 10M, 12M, 15M, 17M
Configuration



Buddistick Antenna / 40M Coil / Bottom Section



Buddistick Antenna Mounted using clamp