

Instructions for the BW

The only Triband Vertical Antenna that can be set up in less than FIVE minutes with no tools!

<http://www.wa3wsi.homestead.com>

The BW is a triband vertical antenna. It is designed to work on 20m, 30m and 40m. It is designed to be configured as a ground mounted antenna. It works well on the ground, but has been used on a vessel with excellent results too. The six ground radials should be used for proper operation although I have used only three ground radials on a boat with excellent results. The BW has been tested operating with 100 watts, but a 50w limit is recommended for normal use. If you made the High Wind Pole Support Kit (HWPS-Kit), you now have an antenna that will withstand wind gusts of up to 50 mph.

Directions to Erect the BW

1. Push the PVC rod into the ground with the collar on it - leave about eight inches above ground
2. Remove the rubber cap from the top of fishing pole
3. Tilt top of pole down and grab the top eyelet on pole
4. Pull the top section out and twist so it stays extended
5. Remove bottom cap from pole and insert the pole onto PVC ground rod
6. *If you have a HWPS-Kit, slip the yellow support ring assembly over the bottom pole section until it is about 2" below the top of the bottom pole section and guy the bottom pole with the supplied 7" stakes.*
7. Wrap the small bungee cord loop around the top of the bottom pole section and overlap the bungee cord over the black plastic tie-down. This will support the coil form and will easily slide up or down on the pole - *see picture below.*
8. Insert swivel from vertical radiator wire into rod top section eyelet
9. Fully extend pole sections by twisting together each section
10. Insert radiator wire into proper coil form connector
 - Top connector for 40M
 - Bottom connector for 30M
 - Top connector for 20M with wire jumper installed to shut coils
11. Connect antenna coax to antenna connector on coil form and adjust the small bungee cord wrap so that the top section of the pole has a bow to it.

12. Clip the ground radial wires - two each with three radial wires on each clip
13. Spread out each ground wire to achieve equal spacing around antenna
14. *If you have a HWPS-Kit, use the 3.5" stakes to tie-down each ground radial wire.*

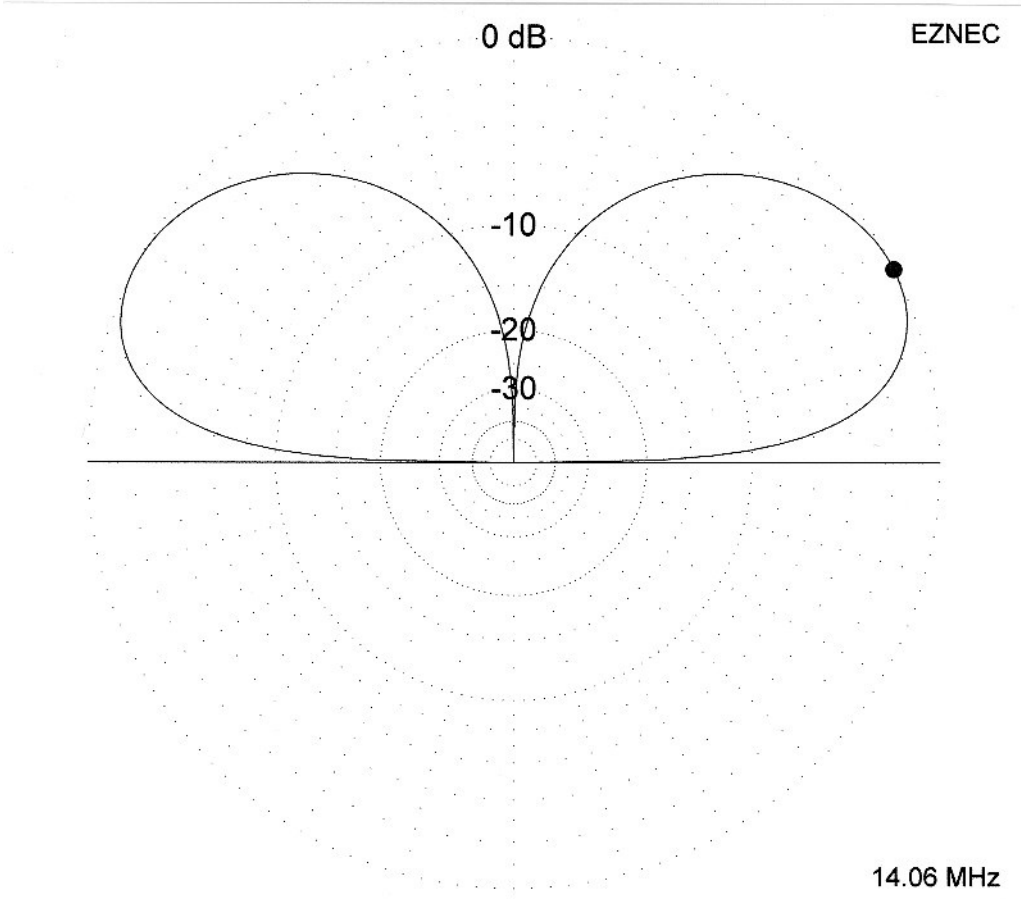
This looks like it would take some time, but after one or two times, you will have the BW up in less than five minutes. It usually takes me about three minutes to erect my BW. Most of all – have FUN with this antenna!

BW Notes

- Note 1: The droop on the ground radials is important for low SWRs.
- Note 2: Use 25' of coax for best results.
- Note 3: Do not wrap the radiator wire around the fishing pole as this will detune the antenna.
- Note 4: If your rig has a tuner, you can also use your BW on 10M, 15m and the WARC Bands.



Coil Form Support



Vertical over real ground

Elevation Plot		Cursor Elev	27.0 deg.
Azimuth Angle	0.0 deg.	Gain	-0.2 dBi
Outer Ring	-0.2 dBi		0.0 dBmax
Slice Max Gain	-0.2 dBi @ Elev Angle = 27.0 deg.		
Beamwidth	44.4 deg.; -3dB @ 9.5, 53.9 deg.		
Sidelobe Gain	-0.2 dBi @ Elev Angle = 153.0 deg.		
Front/Sidelobe	0.0 dB		