

ZEROFIVE-ANTENNAS 10-40 meter MULTIBAND GROUNDPLANE VERTICAL ANTENNA

INSTALLATION TIPS MANUAL

Unpacking your vertical

Your vertical comes shipped in 1 carton with 3 packs inside for model 10-40 . There are 2 radial packs and a vertical element pack. The assembled base section with transformer is the 4th pack. Unwrap the bubble packing from the base section and put it aside. Unpack the vertical section which has 2 tubing piles side by side and slide the tubing into the next smaller size up to the black marks for all the sizes. you will have to alternate between the 2 piles to get the single vertical element. Next slide the whole element into the base section and tighten the clamp. Make sure you do not over tighten the clamps. Unpack one of the radial packs and start with the 3 smaller pieces of tubing and slide them into the next bigger 3 sizes up to the black marks. The next 3 pieces are the inner elements which have a clamp on each end. Slide the sections you just prepared into one end of the inner element up to the black mark. Now you have 3 complete radials. Assemble the next radial pack the same way and you will now have six.

MOUNTING

Your ground plane will work best mounted in your yard on a pole cemented in the ground. It is best to keep it between 6 to 8 feet off the ground for best performance and to reduce the risk of coming in contact with the ends of the radials. It will also be better for cutting the grass under the vertical. The ground plane accepts up to a 1 5/8 inch outside diameter mast or 1 1/4 water pipe up into the base tube. It is secured by tightening the three 5/16 bolts with a 1/2 inch box wrench. Only tighten the bolts enough to hold the vertical in place. DO NOT OVERTIGHTEN THESE BOLTS.

SUPPORT MAST, GROUND MOUNTING

Use a 10 foot length of 1 1/2 to 1 5/8 inch outside diameter strong pipe. This should be cemented 3 feet in the ground and 7 feet sticking out. The hole should be 12 inches diameter and 36 inches deep. Back fill with 2 inches of gravel at the bottom and pack it down. Put your pipe in the center of the hole and plumb it straight. You may want to tie it off so it does not shift while you pour the cement. You can use regular bags of cement to fill the hole up. Once it is dry you are ready to mount your new ground plane vertical. You will mount the base section with the vertical element first. You will need a step ladder to reach the top. Stand the vertical upright and slide it over the top of your mast and tighten the two 5/16 bolts. DO NOT OVERTIGHTEN THESE BOLTS. Next you will be installing the radials. Do one at a time by sliding the big end with the clamp over one of the solid mounting pegs. Tighten the clamp and repeat for the last 5 radials. After the radials are installed, check to see if the feed wire is touching any of the radials. It should be centered between 2 of them. You do not want this wire to touch any metal and arc over to ground.

SELECTING YOUR COAX AND GROUNDING

Good quality coax is a must for any high power high performance installation. 75 feet is the minimum required length to use for this vertical. Rg-213 coax is best suitable for use with this vertical. It is low in loss and flexible. It is best to use 2 ground rods 8 feet long each, they should be driven in 1 foot outside of the edge of the concrete one on each side. Connect them together with #8 wire and run the wire up the mast to the bottom bolt on the base tube.

SELECTING A TUNER

You will need a wide range tuner for this vertical on all bands. Palstar or LDG has a great line of tuners that will work with this vertical. You can also run a remote tuner at the feed point, but will require a model capable of handling the maximum power you intend to run.