
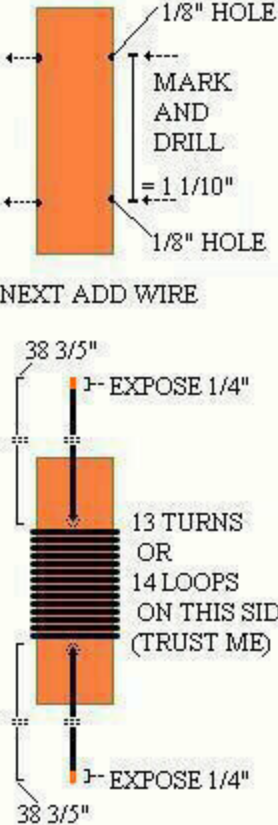
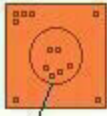
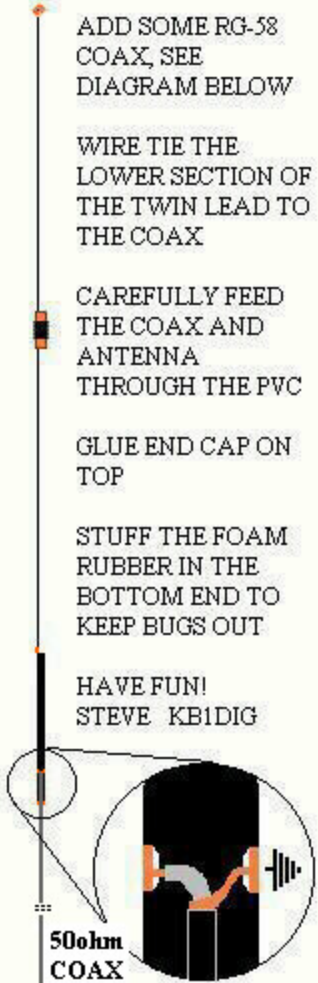


2 Meter Homebrew Vertical Antenna: This antenna is a 1/2 wave co-linear design and is built inside a 10 foot piece of 3/4 inch PVC water pipe. It is omnidirectional and has the gain of a small beam. Best of all, it can be built for less than \$10. Good luck!

PARTS	STEP 1	STEP 2	STEP 3	SHOULD LOOK LIKE THIS
<p>□ 3/4" PVC END-CAP</p> <p>10', 3/4" PVC IPS SCH40</p> <p>1/2" WOOD DOWL: CUT 2" LONG</p> <p>10' OF HOOK-UP WIRE: 20 GAUGE SOLID INSULATED</p> <p>COPPER CLAD 1"x1" CIRCUIT BOARD</p> <p>20" OF 300 ohm TWIN LEAD WIRE NOT FOAM TYPE</p> <p>2 WIRE TIES</p> <p>A PIECE OF FOAM RUBBER TO STUFF INTO THE BOTTOM</p>	<p>STRIP 1/2" OFF BOTTOM, TWIST WIRES TOGETHER, AND SOLDER</p> <p>NOW MEASURE AND EXPOSE ABOUT 1/8" OF TWIN LEAD WIRE ON BOTH SIDES</p> <p>STARTING FROM THE BOTTOM, MEASURE AND CUT</p> <p>LAST CUT IN STEP 1</p> 	<p>1/2" WOOD DOWL</p> <p>1/8" HOLE</p> <p>MARK AND DRILL</p> <p>1/8" HOLE</p> <p>NEXT ADD WIRE</p> <p>38 3/5"</p> <p>EXPOSE 1/4"</p> <p>13 TURNS OR 14 LOOPS ON THIS SIDE (TRUST ME)</p> <p>EXPOSE 1/4"</p> <p>38 3/5"</p> <p>ON TO THE NEXT STEP</p> 	<p>CIRCUIT BOARD</p>  <p>CUT INTO A CIRCLE THAT IS BIGGER THAN THE INSIDE DIAMETER OF THE PVC PIPE AND SMALLER THAN THE OUTSIDE DIAMETER OF THE PIPE</p> <p>DRILL A SMALL HOLE IN THE CENTER OF THIS CIRCLE AND SOLDER ONE END OF THE COIL WIRES TO IT</p> <p>SOLDER OTHER END OF THE COIL TO THE EXPOSED WIRE OF THE TWIN LEAD</p>	<p>ADD SOME RG-58 COAX, SEE DIAGRAM BELOW</p> <p>WIRE TIE THE LOWER SECTION OF THE TWIN LEAD TO THE COAX</p> <p>CAREFULLY FEED THE COAX AND ANTENNA THROUGH THE PVC</p> <p>GLUE END CAP ON TOP</p> <p>STUFF THE FOAM RUBBER IN THE BOTTOM END TO KEEP BUGS OUT</p> <p>HAVE FUN! STEVE KB1DIG</p>  <p>50ohm COAX</p>