

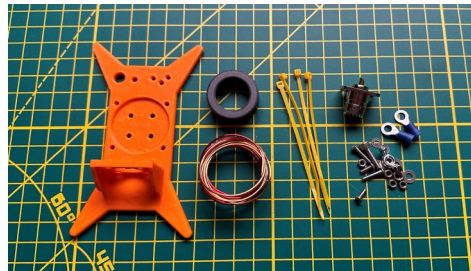
9:1 Un-Un Antenna Kit

By: KA6ETE

Assembly Instructions

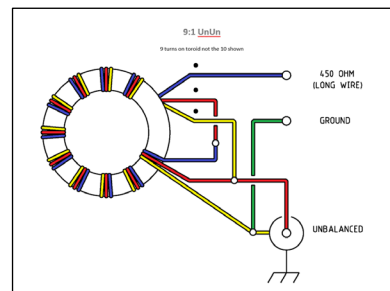
Kit Contents:

- Antenna Winder w/ incorporated 140 core Un-Un Mount (x1)
- SO-239 or BNC Panel Mount (x1)
- 140-61 Toroid Core (x1)
- 20" Enamel coated wire (x3)
- 4" Zip ties (x4)
- M3 screws and nuts for panel mount (x4)
- M4 screw with wingnut for antenna connection (x1)



Step 1:

After unpacking the contents of the kit and inventorying items begin with wrapping the 3 pieces of enamel coated wire around the toroid core. Each of the three (3) wires will pass through the center of the toroid core 9 times (disregard the 10 shown in the diagram below) leaving 1.5-2 inches at each end of the wire. While wrapping the wire around the core you want to keep the three (3) wires grouped together WITHOUT overlapping and evenly spaced, this can be adjusted some in step 3 if needed.



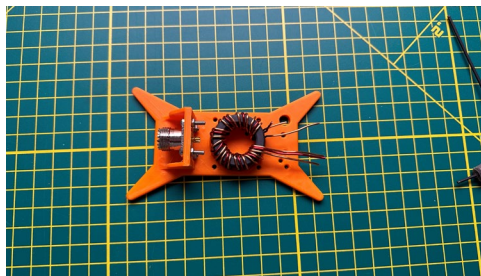
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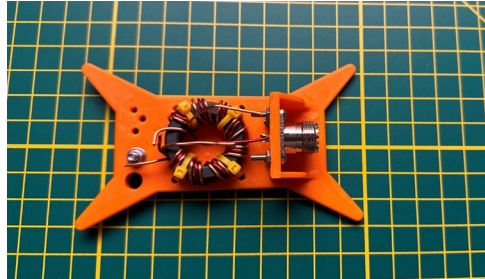
Step 2:

Due to the compact size of the antenna winder, you will now want to install the SO-239 or BNC panel mount onto the winder. With the 4 included M3 screws you will want to install the longer two (2) in the front. These will also provide a connection point for a counterpoise or radials for antenna tuning.



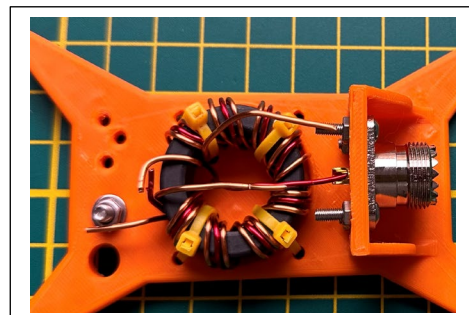
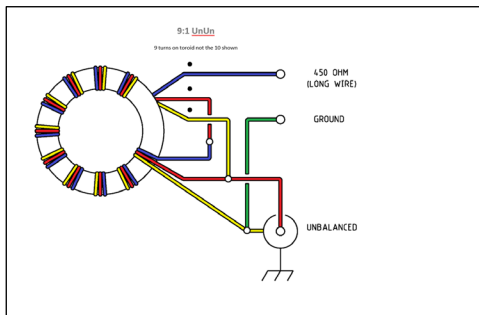
Step 3:

Now you will want to attach the wound toroid to the antenna winder using the four (4) included zip ties. When tightening the zip ties, you can use this opportunity to adjust the spacing between the groups of wires while making sure they do not overlap.



Step 4:

In the final step of constructing your 9:1 Un-Un you will be soldering all the needed connections and attaching the eyelets. Be sure to follow the diagram for proper connections on the 9:1 Un-Un and be sure to clean ALL the enamel coating off the wire where you will be soldering.



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Assembly Instructions

There are many different antenna wire lengths you can use, depending on which amateur radio bands you want it to work on. Below you will find a list of recommended lengths of antenna wire that have been found to work with the listed bands. I always recommend starting with the longest length of wire and shortening from there until you find it working in the areas you want.

Bands Covered (meters)	Wire Length (feet)	Minimum Coax Length (feet)
40-30-20-15	35-43, 49-63, 70-85	35
40-30-20-17	35-45, 54-64, 67-77	35
40-30-20-17-15-12-10	38-44, 55, 60, 68-73	50
80-40-30-20-17-15-12-10	68-73, 85, 92, 102, 120-125	65
160-80-40-30-20-17-15-12-10	135, 141, 173, 203	130