

## TUNING THE SILVER BULLET SABER 1000

The following is my steps used to tune the antenna to specific bands. On the 80, 40 and 30 meter bands very little rotating the collar right or left is needed. Tuning the 20, 17, 15, and 12 meter bands some collar rotating is needed to fine tune the frequency. When I reference a click what I mean is moving the collar up one turn of wire, when the collar is moved up or down a click is heard.

Using a 102 inch whip

1 clicks from the bottom	3.550
10 clicks from the bottom	3.753
20 clicks from the bottom	3.975
56 clicks from the bottom	5.300
83 clicks from the bottom	7.187
97 clicks from the bottom	10.100
106 clicks from the bottom	14.280
110 clicks from the bottom	18.100

To receive 12 and 10 meters use a shorter whip.

This was with my setup that uses  $\frac{3}{4}$  inch pipe 3 feet in the ground With 3 feet above ground with antenna on top. Three 35 to 40 foot radials on top of the ground. All of the above SWR readings were below 1.5 SWR.

You're tuning may vary from the above due to installation and ground, radials, other antennas, and type of soil, but this is a good starting point. Also the coil can be used with different size whips which of course will change these settings.

The coil is not rated, but it has been used with as much as 200 watts PEP. If you are using the coil for digital or modes that are 100% duty then do not run more than 30 watts.

The 80-10 meter Silver Bullet Base antenna can be mounted either using a pair of 2" U clamps, the supplied zinc coated thumb screws or simply drilling out the mounting holes and mount directly to your 1 inch diameter or smaller mount.



Using common U Bolts the coil can be mounted on a standard TV antenna mast pipe. Attached the braid (ground) side of the coax to the U bolt and the center conductor to the coil input

Using the supplied zinc coated thumb screws the coil can be mounted on a 1 inch diameter or smaller pipe or ground rod. Tightening up on the thumb screws will make contact with your mount and using the supplied ¼ 20 nut on one of the thumb screws to mount the braided (ground) end of the coax. Perfect for the apartment balcony installation.



To connect coax cable to the base vertical you need to make a pig tail connection for both the center conductor as well as the ground braided conductor. The center conductor connects to the tuning coupler via the #8 screw mounted thru the base of the coil. Loosen the wing nut and attached the center conductor between the fender washers then tighten the wing nut (hand tight). The ground, braided side can go either on the one of the supplied thumb screws mount, or directly to your ground radial system. It's a good idea to waterproof your connections the best you can.