

# Silver Bullet Otophone

Thank you for purchasing our Silver Bullet Otophone antenna.

- Assemble the base to your mast,
- Attach both Silver Bullet Mini coils,
- Add two whips, and
- Connect your coax.



The tuning process stated here is with 102" stainless steel whips. Tuning will vary using longer or shorter whips. Tuning the Otophone is similar to tuning our Silver Bullet Mini. The difference is you have two coils in a dipole configuration. Just put the collars on **both** coils at about the same setting.

For 20 meters, bring the collar so the top of the collar just covers the stainless steel winding on the top of **both** coils. Some adjustment will be needed depending on height, roof material, etc. Use of an antenna analyzer to make this process easy.

For 40 meters, the bottom of the collar should have about 6 stainless steel turns from the bottom of the coil to the bottom of the collar. Fine tune by twisting the collar clockwise or counterclockwise, or move the collar up or down one click at a time.

Power rating: 200 watts SSB, 100 watts CW and 25 watts in digital modes.

The Otophone will tune 10, 12, 15, 17, 20 and 40 meters. Please visit our website [www.wolfrivercoilsllc.com](http://www.wolfrivercoilsllc.com) and view the YouTube video section on tuning our SB 1000 and SB Mini. For email support, contact us at [www.wrcoils@hotmail.com](mailto:www.wrcoils@hotmail.com).

Larry Peterson WA9TT performed several studies of the Otophone on 40 and 20 meters.

The Otophone antenna was tuned to 20 meters at 18 feet above the ground on a house roof. The SWR at 14.2 MHz was 1.1:1 (1.5:1 at 14.0 and 1.3:1 at 14.35 MHz).

Many JT65 signals were copied and compared to a Force 12 C-3 Yagi at 51'. The Otophone performed well again up against such stiff competition. The received signal difference was 10 dB, or only a 10x received power difference.

The Otaphone with 102" whips was tuned to 7.100 MHz with a 1.3:1 SWR. Several JT65 signals were copied and compared with an IAC Double Bazooka antenna mounted higher at 35'. The received signal difference between antennas was only 4.4 dB, or less than one S-unit difference.

Conclusions:

- The Otaphone is a very good dipole that can be tuned to the desired band.
- SWR results are quite satisfactory when two coils are used, one on the ground side and the other on the center conductor side of the coax feedline.
- The received power results are very good when the Otophone antenna is properly resonated, when compared to antennas which are superior in height and design.