
Model – Base Loop

Operating Manual, Version 1, July 4, 2019

Operation

The Base Loop is designed to operate from 10-40 meters, and is rated at 100 PEP SSB, 50 CW, or 25 watts for sporadic use of digital modes (10 watts for continuous use of digital modes).

Deployment

It is recommended that the Base Loop be installed on a 1.25 inch mast, as depicted in the following image.



Excess RF Exposure Warning

In the United States, the Federal Communications Commission has established guidelines for human exposure to Radio Frequency (RF) electromagnetic fields. The commission's requirements are detailed in parts 1 & 2 of the FCC's rules and regulations {47 CFR, 1.1307(b), 1.1310, 22.1091, 2.1093}. It is the responsibility of the owner/operator of this device to follow all applicable warnings and precautions regarding human exposure to RF fields. Additional references: <http://www.arrl.org/rf-exposure>

Support Contacts

If you have questions about your antenna, please feel free to email us at alphaantenna@gmail.com

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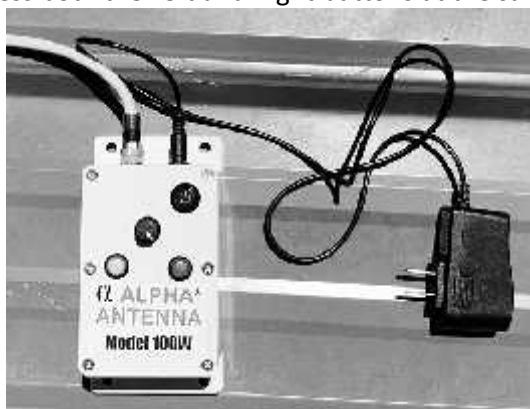
Antenna Assembly Instructions

Please follow the steps listed below to assure proper operation of this antenna and to deploy as depicted.

Step	Assembly Operation
1	Install the Base Loop on your mast: a. Install the hardware that has 4 U-bolts towards the top of your mast. This is the hardware that holds the inner and outer loops. b. Install the hardware that has 2 U-bolts just below the hardware in 'a'. This is the hardware that holds the grey Alpha Match box.
2	Attach the Outer Loop Element to the grey Alpha Match box by attaching (screw-on) the PL-259 connectors on the Outer Loop to the SO-239 connectors.
3	Connect the included RG-6 remote control cable to the grey Alpha Match box.
4	Connect the RG-6 remote control cable and power adapter to the Remote Control.
5	Now it is time to connect the antenna with your feedline to your radio. Attach your feedline's PL259 to the SO239 on the T-Connector in the center of the (small) coupling loop at the antenna, then connect the other end of the feedline to your equipment.

Operation

Included is the Remote Control pictured before, which has a Lighted power button, Speed control knob, and Left/Right tuning buttons. **WARNING** – Never press both the Left and Right buttons at the same time.



Tuning

The following technique has proven to be the easiest method for tuning the Base Loop in nearly all scenarios:

- 1) Press the Power Button so the light turns ON.
- 2) Turn the Speed Control knob on the Remote control to the far right, which is the fastest tuning position.
- 3) Then use an inline SWR Meter, your rig's internal SWR meter, or analyzer to tune for the minimum SWR by pressing and holding either the Left or Right button on the Remote Control.
Note 1 – The tuning speed will increase when the tuning knob is turned Right and decreased when turned Left.
Note 2 – Some will try to listen for the noise floor to peak, as an indication that one is close to a minimum SWR.
Tip– It takes approximately 90 seconds to tune from 40 to 10 meters with the Speed control knob turned right.
- 4) After performing step '2', you can further tune the Base Loop by slowing the Speed Control by turning the Speed Control knob to the left, which is a slower tuning position. Then tap either the Left or Right button till the SWR on your rig's internal meter, antenna analyzer, or inline SWR meter is as low as possible.
- 5) Press the Power Button so the light turns OFF when you are ready to operate.