BLUE STAR ANTENNAS

P1 PORTABLE VERTICAL SYSTEM

Weighs in at just 1 LB 8 oz.
But provides lots of radiating power
QRP - 150 Watts.

Ham Bands & Beyond 7 Mhz to 450 Mhz
Covers 60 and 80 Meters W/Optional Coil.

Features

- Easily sets up in minutes!
- Easily tuned, **NO TUNER REQUIRED**!
  Great for the ARES Operator, Field Day,
  RV or Camper, Motel or Condo Owner!
- **SAR**, **Search and Rescue**
  Covers Public Service Frequency's.
  Shelter Operations
- **Deed Restricted** This is your ultimate System!

It will mount to almost any object!

Limited only by your imagination!

- Tables
- Deck Railings
- Motel or Condo Railings,
- Fences, Wood, Chain link
- Camera Tripods
- BBQ Grills
- Many other locations!

Options:

- Tripod Mount
- Dipole Mount
- 3 – 5 Mhz Coil
- 25 FT RG-58 A/U Stranded Coax
- Ground Mounting Stake

Instructions:

- Find a support for the universal mount.
- Attach it with "C" clamp.
- Adjust the universal mount to the P1 Portable in a vertical position.
- Assemble the antenna as shown
- Attach the counterpoise wire.
- Connect 50 Ohm Coax from the rig to the antenna
- Adjust the Slider and whip to the frequency you want to operate.

DO NOT REMOVE OR LOOSEN THE SCREW FROM THE SLIDER RING

Frequency Chart:

This chart provides a starting point for you configuration. All measurement may vary with each location and setup. All measurements were taken with AEA HF Analyst.

- 6 Meter Band uses both base rods and whip
- 2 Meters, 220 1.25 CM, 440 70 CM Bands use the whip only. Adjust length for correct frequency and lowest VSWR.
- 28.300 = coil @ 6 1/4 " with whip fully extended
- 18.110 = coil @ 5 5/8 " with whip fully extended
- 14.200 = coil @ 5" with whip fully extended
- 5335 = 60-80 Meter Coil with whip extended 20"
- 5400 = 60-80 Meter Coil with whip extended 19 1/4"
- 3950 = 60-80 Meter Coil + Main Coil @ 3 1/4" Whip extended 30 1/2"
- 4000 = 60-80 Meter Coil + Main Coil @ 3 1/4" Whip extended 29 3/4"

Adjust Slider on main coil, whip length, counterpoise for lowest VSWR. With careful adjustment you should be able to SWR below 1.6:1 Depending on band and location.

When operating on 75-80 meters attach the 60-80 coil to the bottom of the main coil with the included 3/8-24 stud.

When operating on 60 Meters use only the 60-80 coil and tune with the whip as per the chart
Stare with approximately ¼ wavelength of counterpoise for the band you are working, and adjust as necessary.

The bottom of the main coil has the wire attached

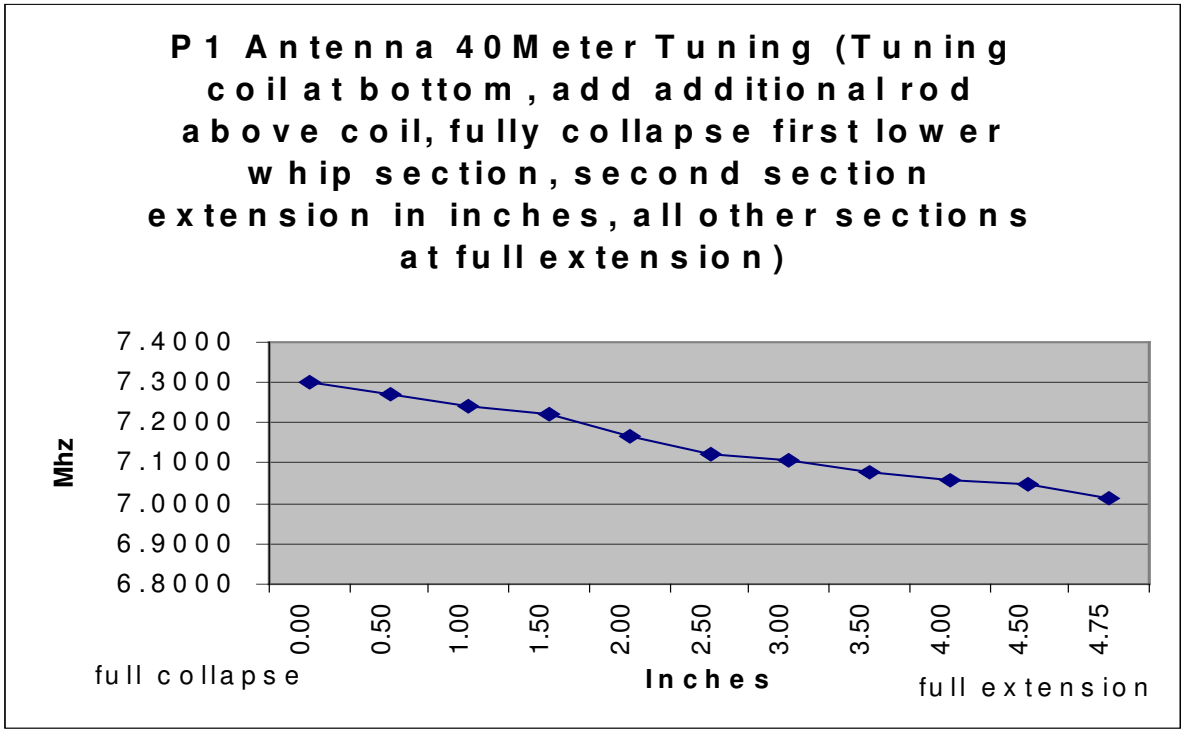
28.300	Mounting Base	2 Base Rods	Main coil @ 6 ¼ inches	Whip fully extended
18.110	Mounting Base	2 Base Rods	Main coil @ 5 5/8 inches	Whip fully extended
14.200	Mounting Base	2 Base Rods	Main coil @ 5 inches	Whip fully extended
5335	Mounting Base	2 Base Rods	60-80 Meter Coil	Whip extended 20 inches
5400	Mounting Base	2 Base Rods	60-80 Meter Coil	Whip extended 19 ¼ inches
3950	Mounting Base	2 Base Rods	60-80 Meter Coil + Main Coil @ 3 1/4”	Whip extended 30 ½ inches
4000	Mounting Base	2 Base Rods	60-80 Meter Coil + Main Coil @ 3 ¼	Whip fully extended

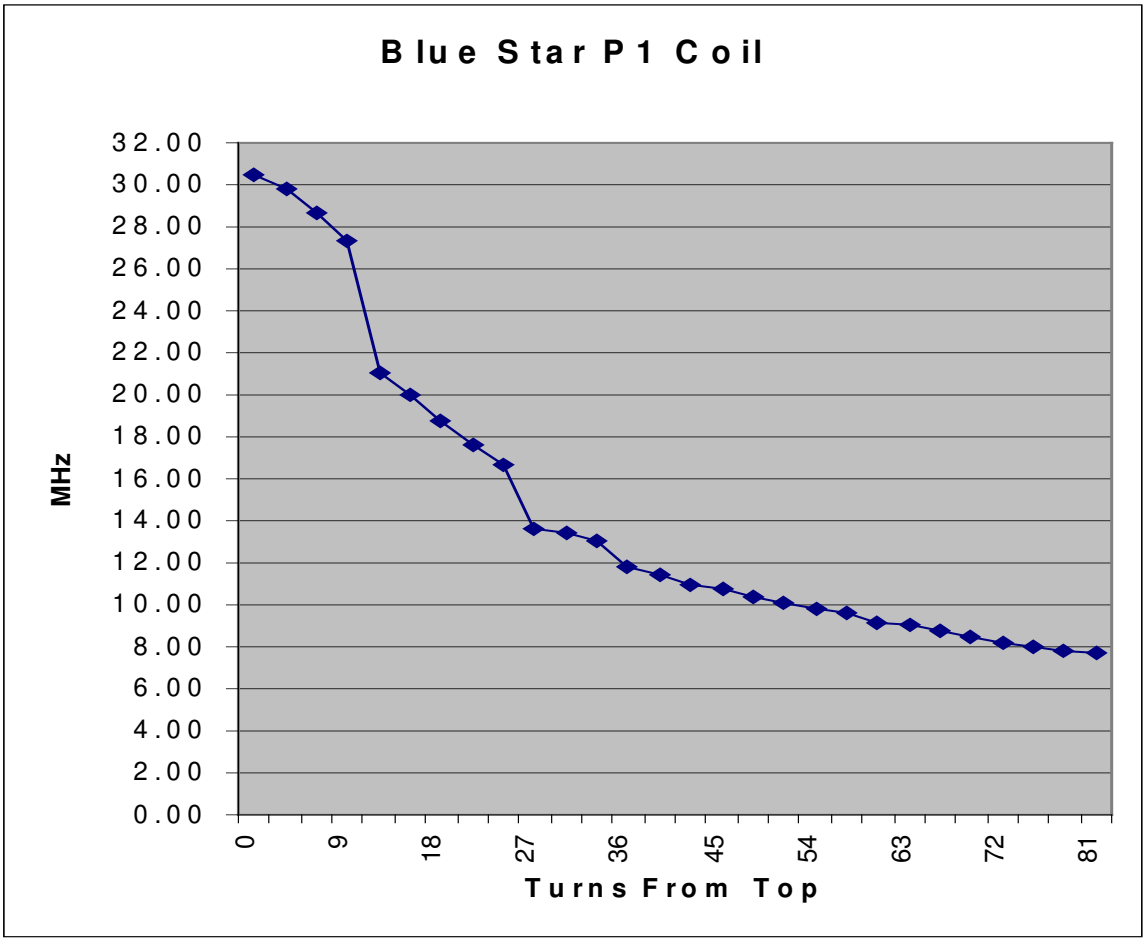
Counterpoise wire should be approximately. ¼ wavelength for the frequency being operated is a good starting point. Do not cut the wire just roll up the UN-used portion.

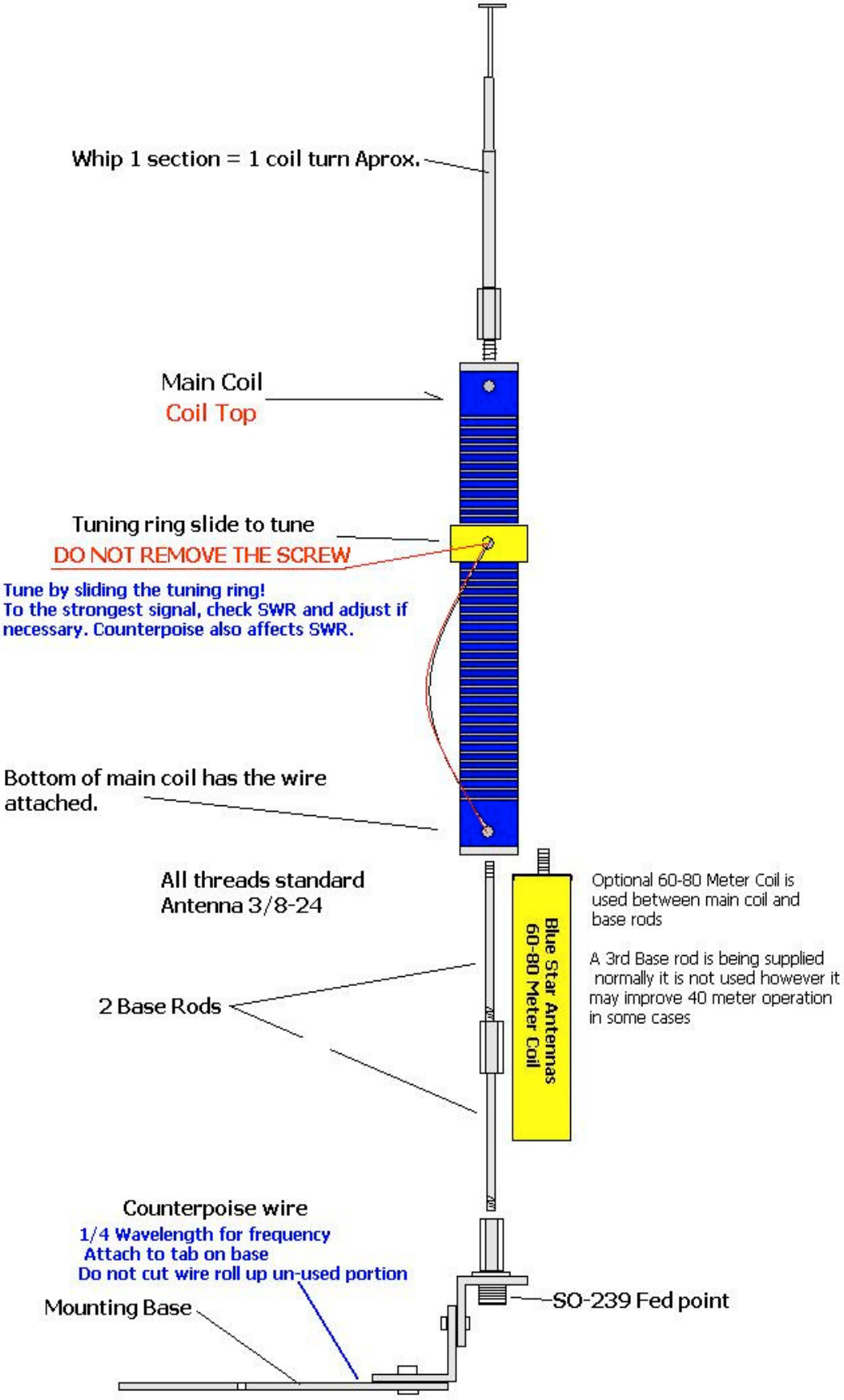
Freq. In MHz	Length in Ft
3.500	70
4.000	61
7.000	35
7.300	33
10.100	24
10.150	24
14.000	17
14.350	17
18.070	13
18.170	13
24.890	9
24.990	9
28.000	8
29.700	8

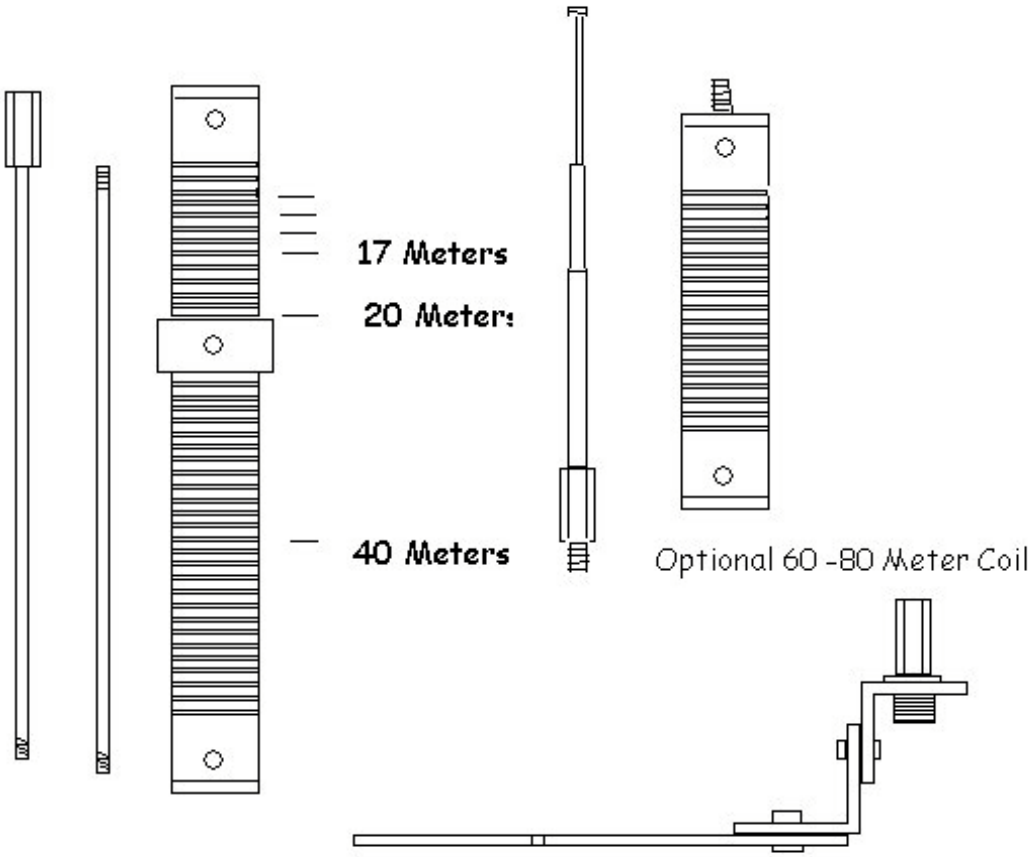
Freq. In MHz	Length in Ft
45.000	5.47
50.000	4.92
52.000	4.73
144.000	1.71
145.000	1.70
146.000	1.68
218.000	1.13
220.000	1.12
432.000	0.57

Charts Courtesy of Dave WB9EEH






Whip 1 section = 1 coil turn Aprox.
Main Coil
Coil Top
Tuning ring slide to tune
DO NOT REMOVE THE SCREW
Tune by sliding the tuning ring!
To the strongest signal, check SWR and adjust if necessary. Counterpoise also affects SWR.
Bottom of main coil has the wire attached.
All threads standard Antenna 3/8-24
Blue Star Antennas
60-80 Meter Coil
Optional 60-80 Meter Coil is used between main coil and base rods
A 3rd Base rod is being supplied normally it is not used however it may improve 40 meter operation in some cases
2 Base Rods
Counterpoise wire
1/4 Wavelength for frequency
Attach to tab on base
Do not cut wire roll up un-used portion
Mounting Base
SO-239 Fed point


17 Meters
20 Meters
40 Meters
Optional 60 -80 Meter Coil