



2 Meter SSB
OMNIDIRECTIONAL
HORIZONTAL
Triangle Loop
antenna DIY Project

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2m Triangle Loop

- ◆ Inexpensive Omni horizontal Loop for 2 meters SSB & Digital modes.
- ◆ Made from one aluminum 36" Rule from ACE Hardware store.
- ◆ Parts List: 36" Aluminum Rule, 1/4" X 1" Nylon screw, 3 ea. 1/4" Nylon nuts, Chassis mount SO-239 connector, 1 ea. "Beta" or Stauff saddle clamp mount assy, #10x32x1/2" machine screw, #10x32 star nut, 9" x #12 awg solid wire.
- ◆ Total cost less than \$10 for antenna. Mast clamp = \$2 to \$12 (depends on source)
- ◆ Time to build 30 minutes to 1 hour.

Gap spacing adjusts
resonant Frequency
(Nylon screw & 3 nuts)



Horizontal 2 meters Triangle Loop
ACE Hardware 36"
Aluminum Yardstick

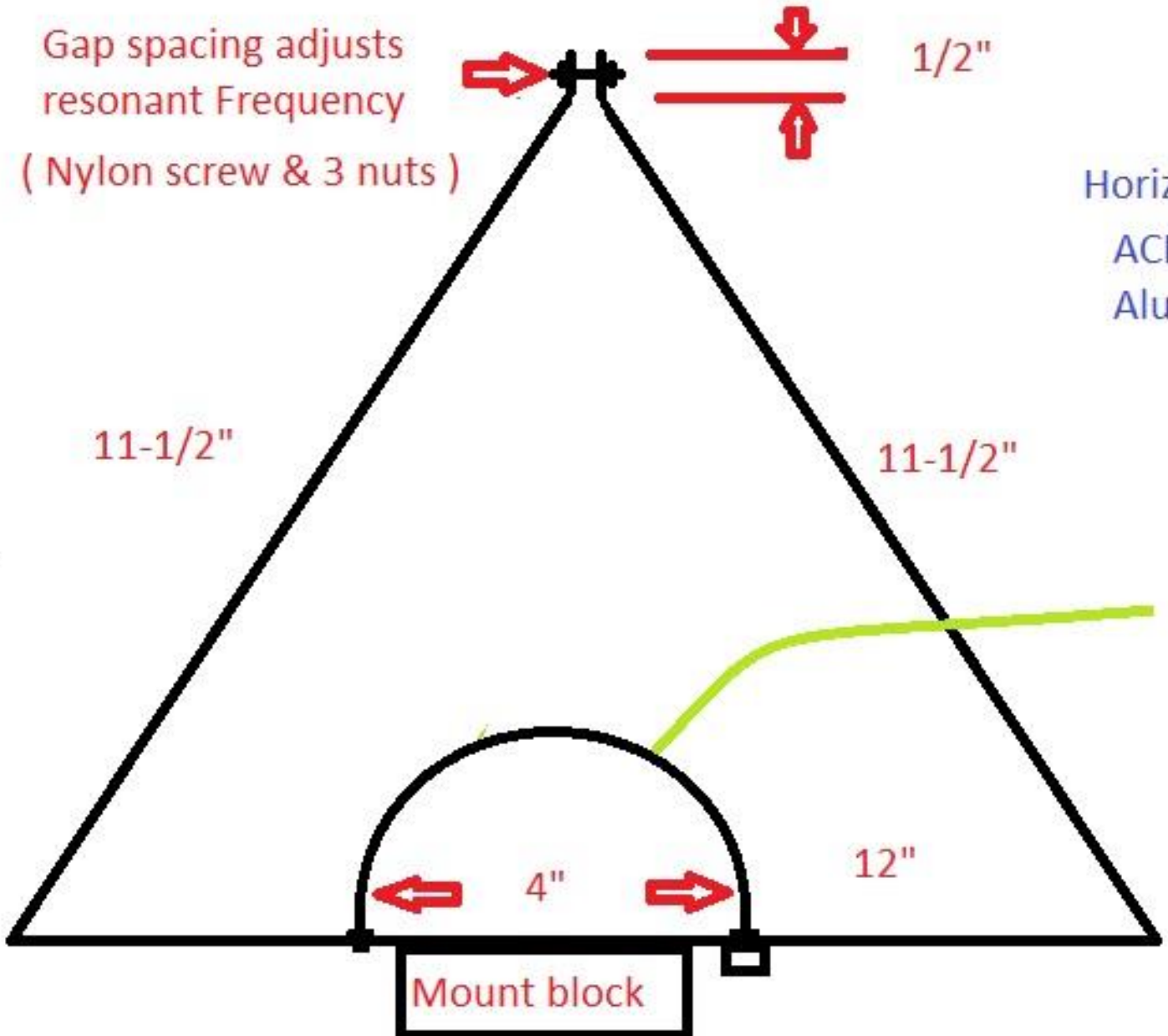
11-1/2"

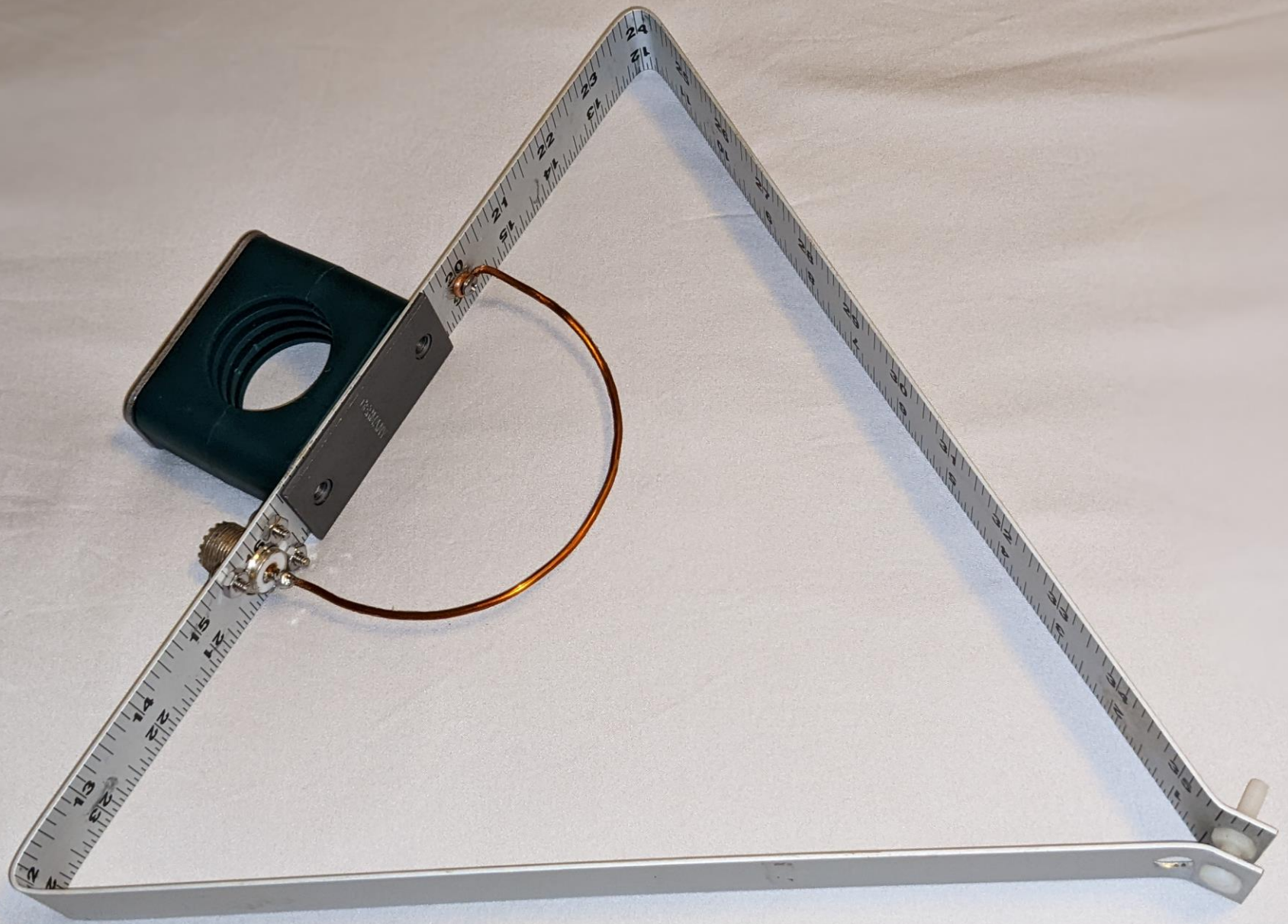
11-1/2"

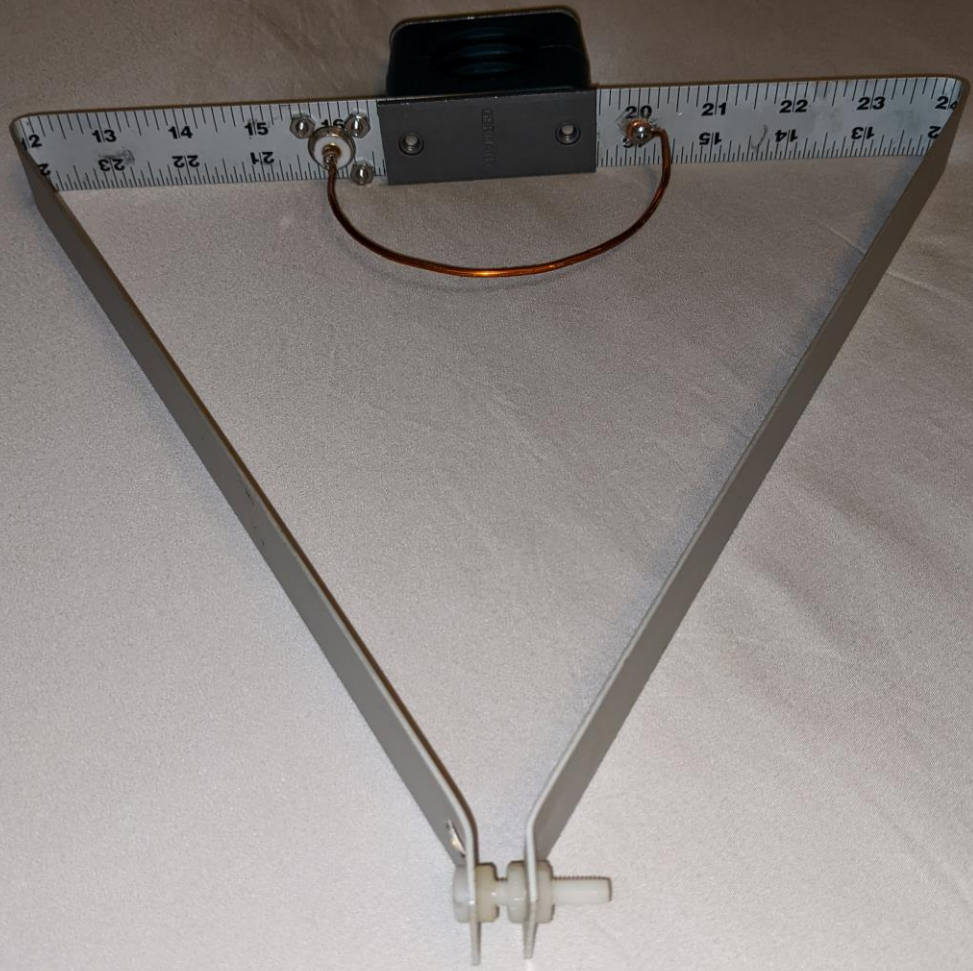
Loop wire 8" long



Mount block









Results

- ◇ Resonance = 144.200 MHz
- ◇ VSWR at Resonance = 1.03:1
- ◇ Bandwidth 2.160 MHz (at VSWR 2.15:1)
- ◇ Return Loss (RL) = 36 dB
- ◇ Impedance = 49.4 Ohms
- ◇ R = 49.4 Ohms X = -1.43 Ohms
- ◇ Estimated Gain = +4 dBi (approx. +1.78 dBd)