



RangeBooster 1.0 Quarter Wave Ground Plane Antenna

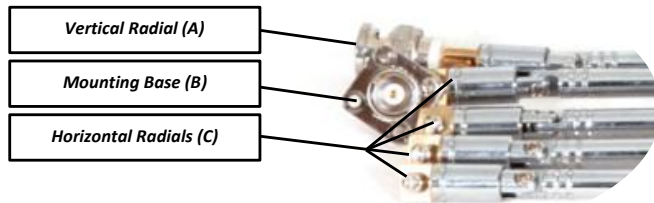


Package Contents:

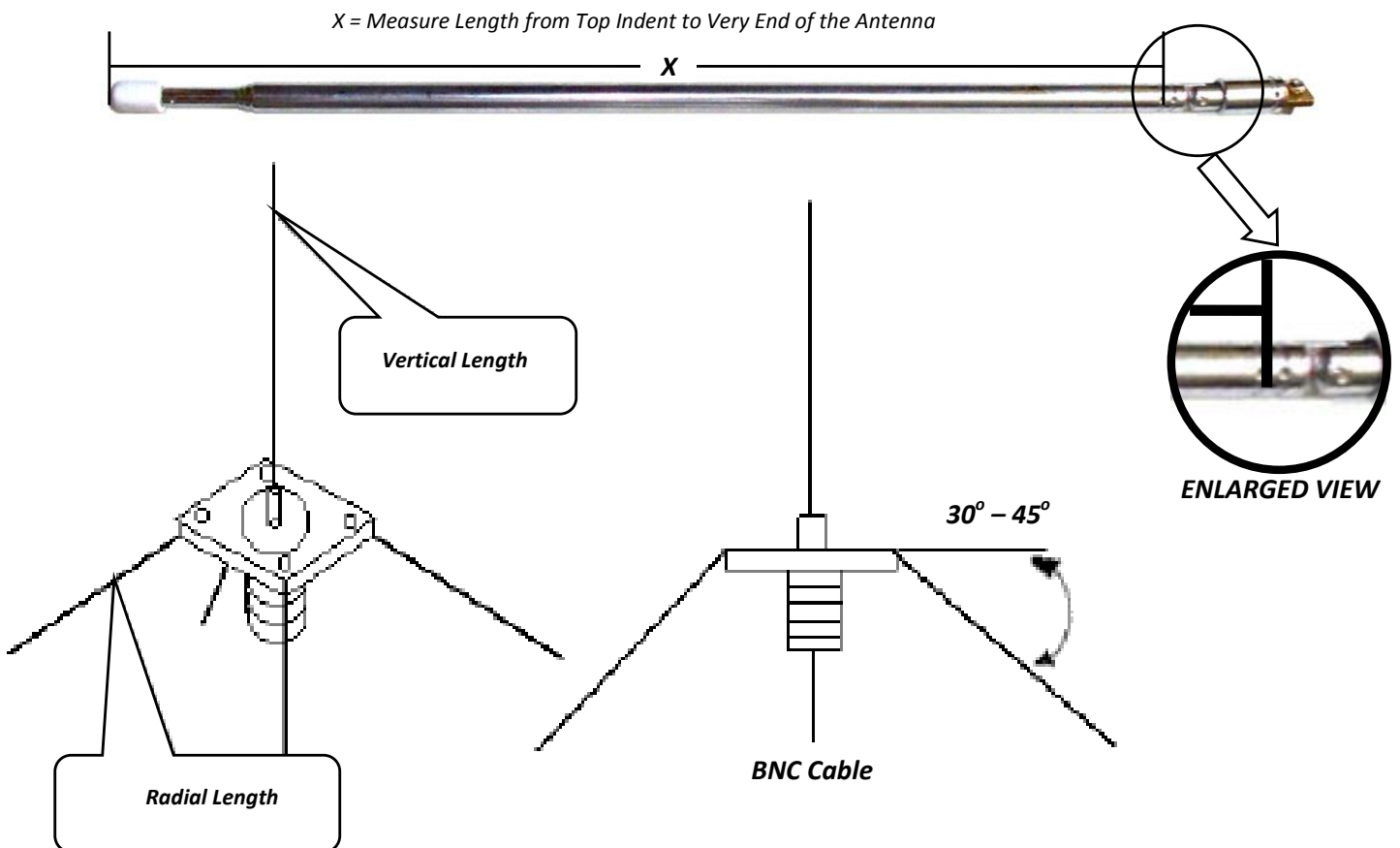
- 4 – Horizontal Radials (1 with pre-attached BNC Female x BNC Female Mounting Base)
- 1 – Vertical Radial with BNC Male Adapter
- 1 – Cable is Optional and Available at www.dagcoelectronics.com

Assembling Your Antenna

- 1) Attach the 3 remaining Horizontal Radials (C) to the Mounting Base (B) already attached to a horizontal radial. Removing their screws, and insert through the mounting base and into each radial.
- 2) Attach the Vertical Radial (A) to the Mounting Base (B)
- 3) Adjust Horizontal Radials to point downward and tilt them at 30-45° angles
- 4) Attach Cable to transmitter and Antenna Mounting Base (B)
- 5) Tune your Antenna by adjusting both the Vertical Radial and Horizontal Radial Lengths (See Tuning Your FM Antenna Section)
Please note that all measurements are from the base of the antenna (see below pictures), not from the connector (to verify you are measuring correctly, the length of a fully extended antenna is 33 inches).



Tuning Your FM Antenna



Tuning Your FM Antenna (continued)

Frequency to Length Conversions

Frequency (MHz)	Vertical Length (Inches)	Radial Length (Inches)	Frequency (MHz)	Vertical Length (Inches)	Radial Length (Inches)	Frequency (MHz)	Vertical Length (Inches)	Radial Length (Inches)	Frequency (MHz)	Vertical Length (Inches)	Radial Length (Inches)
87.0	32.28	32.28	92.3	30.42	30.42	97.6	28.77	28.77	102.9	27.29	27.29
87.1	32.24	32.24	92.4	30.39	30.39	97.7	28.74	28.74	103.0	27.26	27.26
87.2	32.20	32.20	92.5	30.36	30.36	97.8	28.71	28.71	103.1	27.24	27.24
87.3	32.16	32.16	92.6	30.32	30.32	97.9	28.68	28.68	103.2	27.21	27.21
87.4	32.13	32.13	92.7	30.29	30.29	98.0	28.65	28.65	103.3	27.18	27.18
87.5	32.09	32.09	92.8	30.26	30.26	98.1	28.62	28.62	103.4	27.16	27.16
87.6	32.05	32.05	92.9	30.23	30.23	98.2	28.59	28.59	103.5	27.13	27.13
87.7	32.02	32.02	93.0	30.19	30.19	98.3	28.57	28.57	103.6	27.10	27.10
87.8	31.98	31.98	93.1	30.16	30.16	98.4	28.54	28.54	103.7	27.08	27.08
87.9	31.95	31.95	93.2	30.13	30.13	98.5	28.51	28.51	103.8	27.05	27.05
88.0	31.91	31.91	93.3	30.10	30.10	98.6	28.48	28.48	103.9	27.03	27.03
88.1	31.87	31.87	93.4	30.06	30.06	98.7	28.45	28.45	104.0	27.00	27.00
88.2	31.84	31.84	93.5	30.03	30.03	98.8	28.42	28.42	104.1	26.97	26.97
88.3	31.80	31.80	93.6	30.00	30.00	98.9	28.39	28.39	104.2	26.95	26.95
88.4	31.76	31.76	93.7	29.97	29.97	99.0	28.36	28.36	104.3	26.92	26.92
88.5	31.73	31.73	93.8	29.94	29.94	99.1	28.33	28.33	104.4	26.90	26.90
88.6	31.69	31.69	93.9	29.90	29.90	99.2	28.31	28.31	104.5	26.87	26.87
88.7	31.66	31.66	94.0	29.87	29.87	99.3	28.28	28.28	104.6	26.85	26.85
88.8	31.62	31.62	94.1	29.84	29.84	99.4	28.25	28.25	104.7	26.82	26.82
88.9	31.59	31.59	94.2	29.81	29.81	99.5	28.22	28.22	104.8	26.79	26.79
89.0	31.55	31.55	94.3	29.78	29.78	99.6	28.19	28.19	104.9	26.77	26.77
89.1	31.52	31.52	94.4	29.75	29.75	99.7	28.16	28.16	105.0	26.74	26.74
89.2	31.48	31.48	94.5	29.71	29.71	99.8	28.14	28.14	105.1	26.72	26.72
89.3	31.44	31.44	94.6	29.68	29.68	99.9	28.11	28.11	105.2	26.69	26.69
89.4	31.41	31.41	94.7	29.65	29.65	100.0	28.08	28.08	105.3	26.67	26.67
89.5	31.37	31.37	94.8	29.62	29.62	100.1	28.05	28.05	105.4	26.64	26.64
89.6	31.34	31.34	94.9	29.59	29.59	100.2	28.02	28.02	105.5	26.62	26.62
89.7	31.30	31.30	95.0	29.56	29.56	100.3	28.00	28.00	105.6	26.59	26.59
89.8	31.27	31.27	95.1	29.53	29.53	100.4	27.97	27.97	105.7	26.57	26.57
89.9	31.23	31.23	95.2	29.50	29.50	100.5	27.94	27.94	105.8	26.54	26.54
90.0	31.20	31.20	95.3	29.46	29.46	100.6	27.91	27.91	105.9	26.52	26.52
90.1	31.17	31.17	95.4	29.43	29.43	100.7	27.88	27.88	106.0	26.49	26.49
90.2	31.13	31.13	95.5	29.40	29.40	100.8	27.86	27.86	106.1	26.47	26.47
90.3	31.10	31.10	95.6	29.37	29.37	100.9	27.83	27.83	106.2	26.44	26.44
90.4	31.06	31.06	95.7	29.34	29.34	101.0	27.80	27.80	106.3	26.42	26.42
90.5	31.03	31.03	95.8	29.31	29.31	101.1	27.77	27.77	106.4	26.39	26.39
90.6	30.99	30.99	95.9	29.28	29.28	101.2	27.75	27.75	106.5	26.37	26.37
90.7	30.96	30.96	96.0	29.25	29.25	101.3	27.72	27.72	106.6	26.34	26.34
90.8	30.93	30.93	96.1	29.22	29.22	101.4	27.69	27.69	106.7	26.32	26.32
90.9	30.89	30.89	96.2	29.19	29.19	101.5	27.66	27.66	106.8	26.29	26.29
91.0	30.86	30.86	96.3	29.16	29.16	101.6	27.64	27.64	106.9	26.27	26.27
91.1	30.82	30.82	96.4	29.13	29.13	101.7	27.61	27.61	107.0	26.24	26.24
91.2	30.79	30.79	96.5	29.10	29.10	101.8	27.58	27.58	107.1	26.22	26.22
91.3	30.76	30.76	96.6	29.07	29.07	101.9	27.56	27.56	107.2	26.19	26.19
91.4	30.72	30.72	96.7	29.04	29.04	102.0	27.53	27.53	107.3	26.17	26.17
91.5	30.69	30.69	96.8	29.01	29.01	102.1	27.50	27.50	107.4	26.15	26.15
91.6	30.65	30.65	96.9	28.98	28.98	102.2	27.48	27.48	107.5	26.12	26.12
91.7	30.62	30.62	97.0	28.95	28.95	102.3	26.32	26.32	107.6	26.10	26.10
91.8	30.59	30.59	97.1	28.92	28.92	102.4	26.29	26.29	107.7	26.07	26.07
91.9	30.55	30.55	97.2	28.89	28.89	102.5	26.27	26.27	107.8	26.05	26.05
92.0	30.52	30.52	97.3	28.86	28.86	102.6	26.24	26.24	107.9	26.02	26.02
92.1	30.49	30.49	97.4	28.83	28.83	102.7	26.22	26.22	108.0	26.00	26.00
92.2	30.46	30.46	97.5	28.80	28.80	102.8	26.19	26.19			



For warranty service, contact DAGCO Electronics:
sales@dagcoelectronics.com <http://www.dagcoelectronics.com>