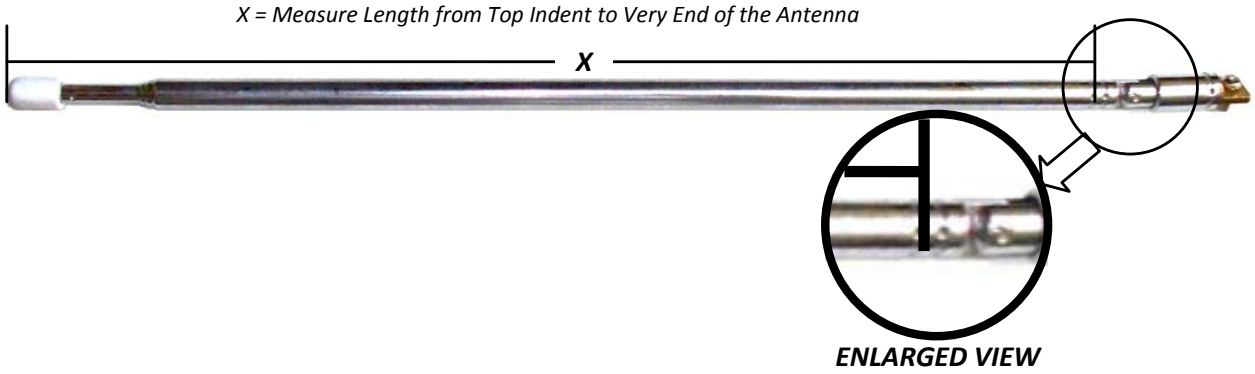
Tuning your FM Antenna

DAGCO Electronics has done the best to assist you in tuning the 33" extendable antenna, but leave it ultimately in the hands of the end-user! Measure from the base of the metal part of the antenna to the end of the white tip (if fully extended it is 33") until it matches the approximate length below. In tuning an antenna, even a fraction of an inch can make all of the difference. Once the Antenna is Tuned, connect it to the BNC Female Antenna Port on the back of your FM Transmitter. If you experience static or are not 100% satisfied with the range, simply adjust (even a 1/16" may make a huge difference).



FREQUENCY TO VERTICAL LENGTH CONVERSION CALCULATIONS

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