

Installation Manual

Model CFM-95SL

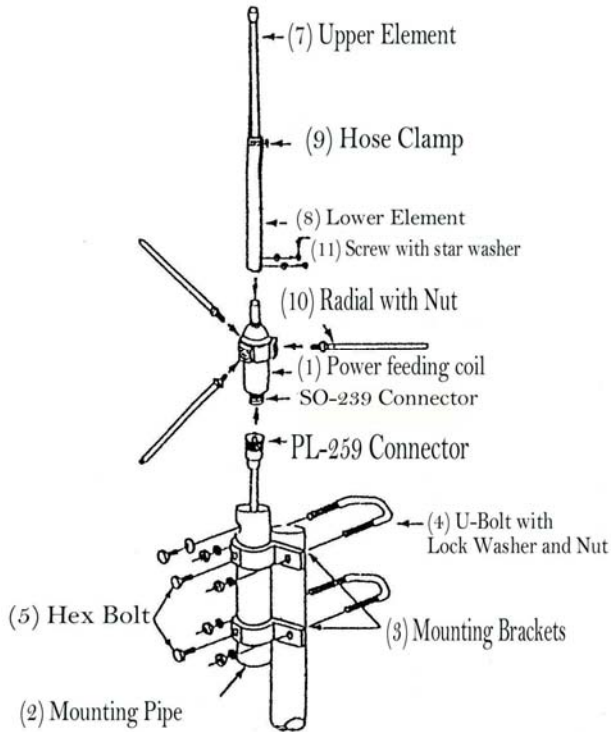
5/8 wave LPFM Broadcast Base Station Antenna

Specifications:

- Frequency range: 88-108MHz
- Impedance: 50 Ohm
- Gain: 3.4dBi
- VSWR: Less than 1.5:1
- Band-width after tuning. 3MHz
- Max Power input: 200 Watts
- Length: 88MHz 98 inches (2490mm)
- 108MHz 75 inches (1905mm)
- Weight: 2lbs 7ozs (1.1kgs)
- Mast size required: 1inch - 2.5inches (25-62cm)

Parts list:

No.		No.
1	Power feeding coil	1
2	Mounting pipe	1
3	Mount bracket	2
4	U-bolt w/lock washer and nut	2
5	Hex bolt	2
6	Hex bolt w/lock washer	1
7	Upper element	1
8	Lower element	1
9	Hose clamp	1
10	Radial with nut	3
11	Screw with star washer	2



Note:

In order to keep the high gain of your CFM-95SL antenna, please use high quality coax of 50 Ohm impedance.

CFM-95SL		
Tuning Instructions	Length of upper element	
Frequency MHz	mm	inches
108	380	15
106.5	445	17.5
103	508	20
100.5	546	21.5
99	610	24
97	673	26.5
95	737	29
93	800	31.5
91.5	864	34
90	927	36.5
88	991	39

Assembly Instructions:

- 1) Determine the transmit frequency using the chart. Adjust the length extending beyond the lower element. It is not necessary for the upper element measurement to be exact. If within 1/2 inch of the target length, SWR will be within acceptable levels.
- 2) Attach the assembled elements to the power feeding coil.
- 3) Attach the three radials to the power feeding coil and tighten the nuts with a wrench.
- 4) Assemble the two mounting brackets to the support pipe. Pass your coax through the pipe and connect to the SO-239 connector.
- 5) Slide the power feeding coil into the mounting pipe and secure it with the hex bolt.

The antenna is now ready to be used. Keep the tuning chart for future use should you ever need to re-tune it. If possible, check your system for SWR of less than 1.5:1 before transmitting.



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