

adjustment for resonance can be made by altering the length of elements 5mm at a time, but remember, adjustments to the front director length involve equal adjustment to the rear reflector

length. Resonance should be fairly broad centring at around 29.5 MHz.

When final adjustment is complete lower the antenna and fix the elements permanently with self tapping screws. Remove the tuning

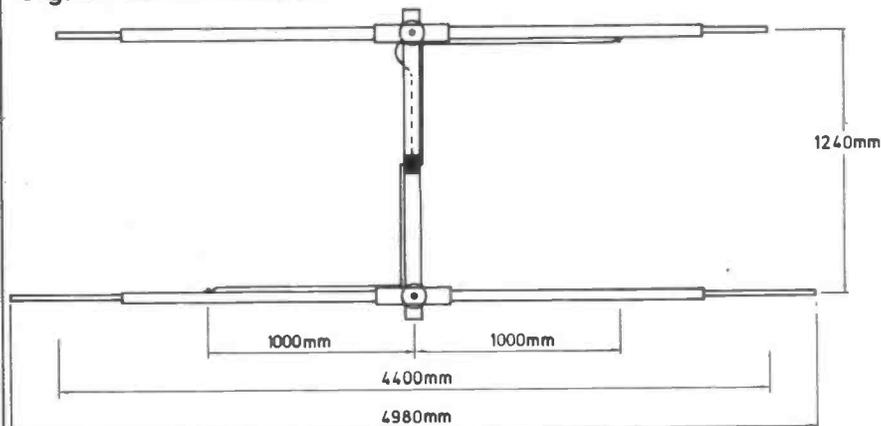
capacitor and replace it with a fixed capacitor of the same value as the minimum SWR setting of the tuning capacitor. If capacitance measuring equipment is not available it may be necessary to estimate the value from the adjusted position of the tuning capacitor. In the author's case this was achieved with 60pF. A 100 volt working capacitor is more than adequate for powers up to 10 watts.

Fill the moulded dipole centres with epoxy putty paying close attention to sealing around the coaxial cable entry. When it has set, seal all joints and screws with clear varnish to prevent corrosion. Run the coaxial cable underneath the boom and lead it away down the supporting pole.

Performance of this simple antenna far exceeds that of a vertical and in the author's case many Japanese, North American and Soviet stations have been worked with just 5 watts of FM.

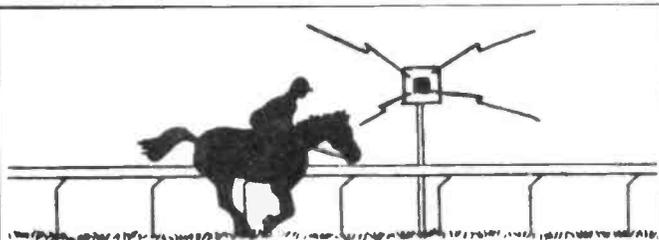
Although no originally is claimed for the design, the final dimensions were obtained through trial and error. The simplicity of the design does allow further experimentation.

Fig. 2 Aerial dimensions



Front driven element length
4400mm
Rear reflector element length
4980mm
Gamma match feed point
1000mm from boom
Element spacing 1240mm

Boom 25 mm O/D x 1350 length
(aluminium)
Gamma match
8mm x 1.5mm x 3265mm
(aluminium)
Distance between gamma match
and elements 10mm



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