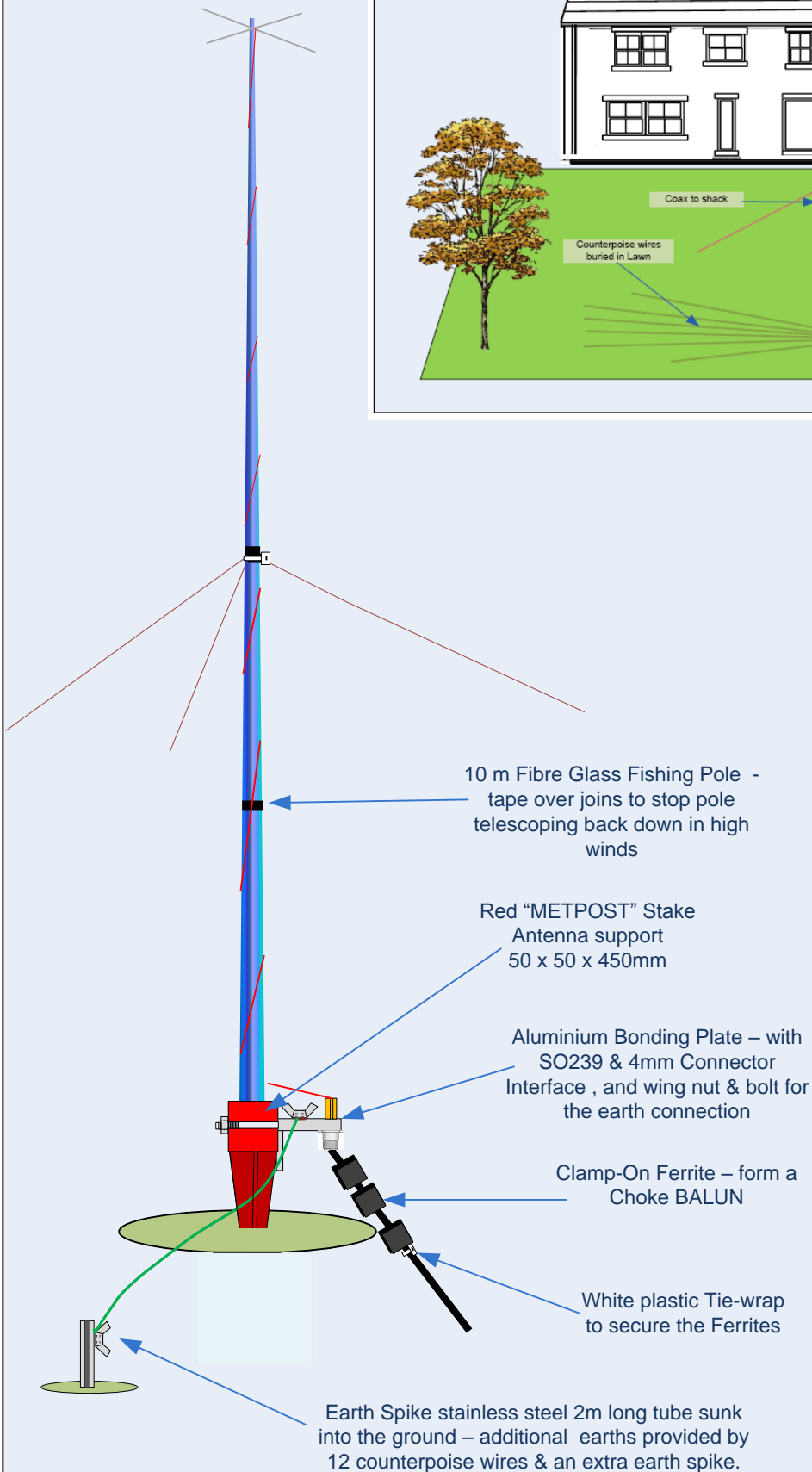
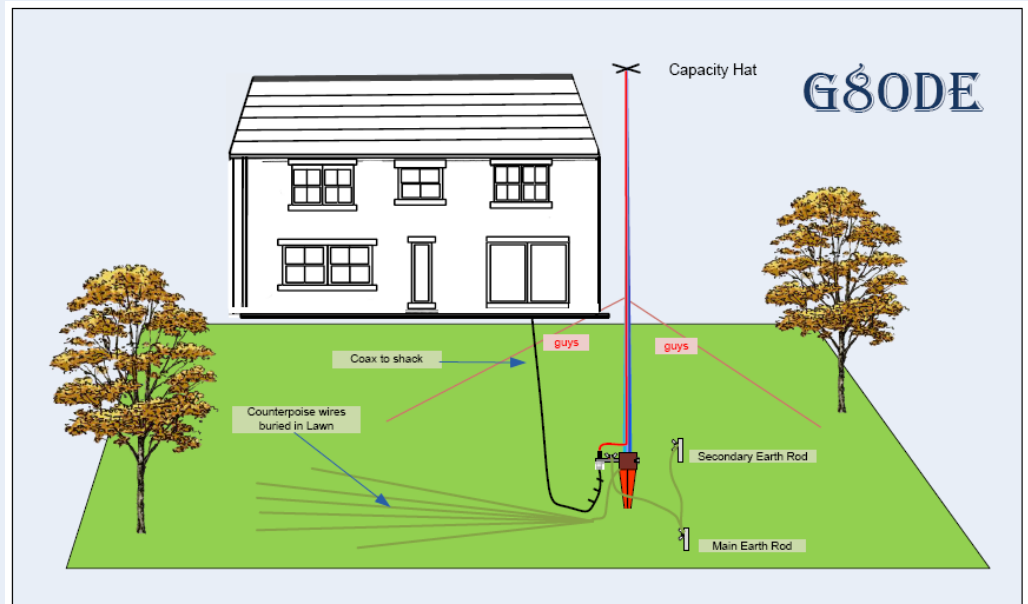


40 m Fibre Glass Vertical Antenna – G8ODE



Tuning the Antenna

This antenna requires a good earthing system. Twelve 4m wires were buried in the lawn by using a spade to create a slit to drop the wire into. Later an additional 10m surface wire was added to bring the SWR down to 1.25:1 reading.

The wire is cut using the formula
 $\frac{1}{4} \text{ wave} = \frac{234}{F \text{ MHz}} \text{ ft.}$ This works out as 33.2 ft (10.12m).

When spiral wrapping the antenna wire, cut the wire slightly over-size, and wind a few 1" (25mm) spaced turns at the bottom. These can be unwound during tuning, and the antenna shortened more easily without having to keep dropping the antenna each time.

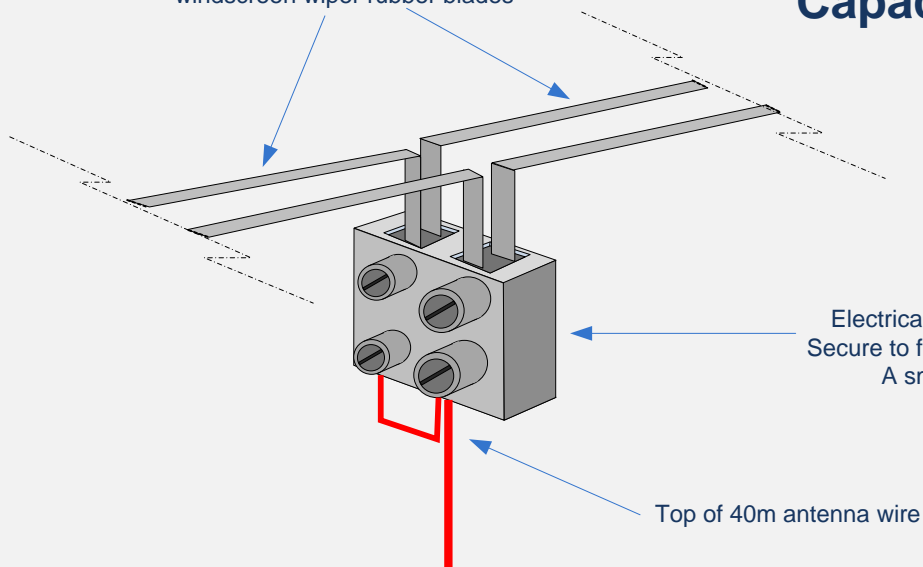
The ferrite Choke BALUN will help to keep the RF out of the shack.

40 m Fibre Glass Vertical Antenna – G8ODE



12 inch (300mm) Stainless steel retaining strips from old windscreen wiper rubber blades

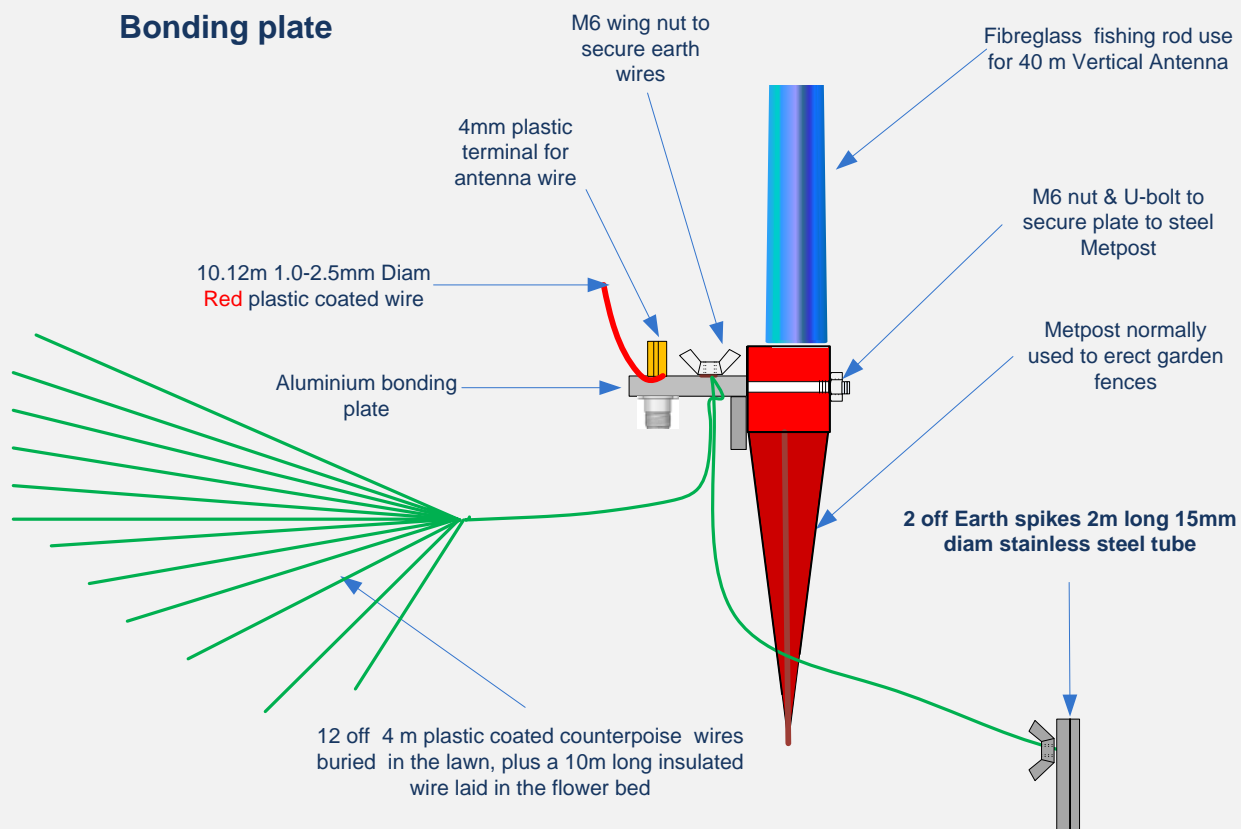
Top of 40m Antenna Capacity Hat



Electrical connector block
Secure to fibre glass pole with
A small tie-wrap

Top of 40m antenna wire

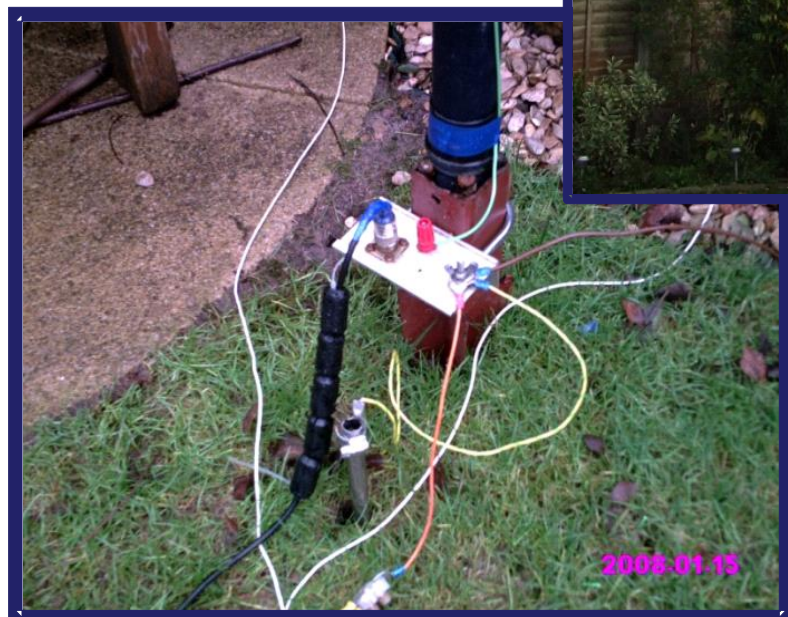
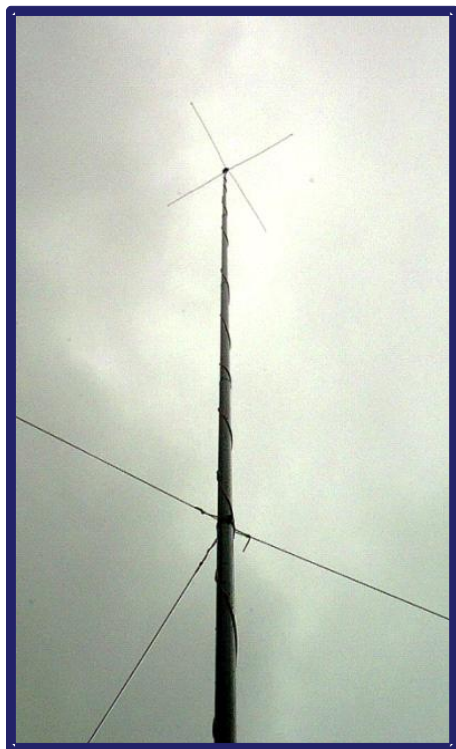
Mast's Antenna & RF Earth Bonding plate



40m Quarter - Wave Fishing Pole End fed ($SWR < 1.3:1$)



Here's one I made earlier & it works very well even at 400 watts !
In practice the 3 guy ropes half way up have worked very well even with gusts of wind up to 50mph. The thin top half take the strain and just gently flexes.



G8ODE