

G WHIP ANTENNA PRODUCTS

G WHIP RESONANT END FED ANTENNA INFORMATION AND INSTALLATION

Please, Please, read this sheet before installation of your new antenna

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The antenna enclosed is resonant on the frequency/band it is designed for, it will not function on other bands so please do not try it as the VSWR will be high and you may damage your transceiver.

Also please note that the matching box (colours may vary) along with the transmission line should be installed out in free space, as with ANY HF antenna it should not be near any metalwork, window frames or other antennas as this will detune its resonant frequency.

Suggested fitting: Tie the supplied insulator to the short cord supplied to the hook on the left hand side of the matching box. (see picture below) then screw the insulator into the house facia board.

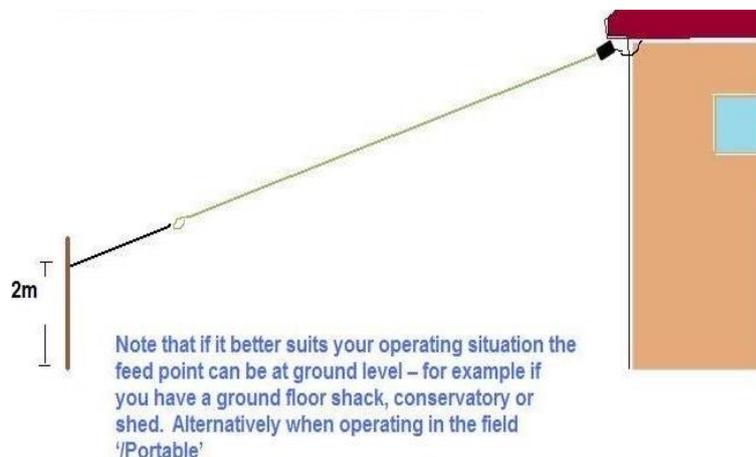


Fit your coax lead to the SO239 socket on the matching box and using the supplied self-amalgamating tape (stretch it to remove the backing) stretch the tape around the PL259 connector and coax to ensure a waterproof joint is made. Feed the coaxial cable around the thimble and secure it with the cable ties supplied. (see picture below), this is called a “strain relief” and protects the coaxial cable from being pulled out of the PL259 plug. 12 Mtrs of coax to the radio seems optimum.



Finally, unwind the green Kevlar wire from the winding spool and slope it down the garden, tie it off to a fence, post or tree with the supplied cord that is on the winding spool, try to keep the end of the green Kevlar wire a couple of metres above ground.

EXAMPLE



If your operating shack is at ground level then you can do the reverse by placing the box about 2 mtrs high off the ground and slope the wire back up to the fascia board. This completes the installation. Best performance is sloping, **no inverted V or L as you will destroy the radiation pattern and spot resonance. DO NOT MOUNT THE MATCHING BOX TO ANY METAL POLE DIRECTLY AS YOU ARE PROVIDED**

WITH A 2MTR CORD TO KEEP IT AWAY FROM METAL AS ALL ANTENNAS SHOULD BE MOUNTED!.

The end fed antenna is set to near the mid centre of the band, if you require a lower (CW) or higher frequency from where the antenna is set then please do the following adjustment.

At the end of the Kevlar line there is an insulator that attaches to the cord, carefully undo the stainless steel sliding rope lock and extend the line to lower the frequency or shorten the line to increase the frequency. **You will only need to shorten/lengthen the line by about 25/50/100mm for about 50 KHz shift, this will also depend on the sloping angle as all installations are different.**

Please note that the box is sealed but has a condensation hole at the side of the SO239 socket, there are no internal adjustments and if the box is opened damage may occur to the tuned circuits, also, the rubber seal will be broken.

Note: If you have bought the **40 High power** or the 60 Mtr or 80 Mtr version there are 2 additions, a coaxial lead (to join the matching box and choke balun together) and a common mode choke in a separate box. Connect the coax to the matching box and the other end to the choke, use the tape supplied to waterproof, then plug your coaxial lead into the choke and to your radio, approx 12 mtrs of coax seems good.

Good dx!.....**READ BELOW PLEASE**

NOTES ON TUNING: Several operators have asked for the antenna to be resonant at the CW end of the band, this is fine, but when we test everyone the exact mounting and circumstances can change between our location and your location, also, like any dipole antenna trimming is always needed as each installation is different due to ground capacitance.

To overcome this problem we have allowed **EXTRA Kevlar** on the far end of the antenna, remember, to lower the operating frequency simply extend the antenna length.

For instance. If you receive the 40 mtr antenna the total length is set at 19 mtrs (this is because of internal matching in the box), however, there is a further 2 mtrs FOLDED over on itself at the end of the line, **even at 19 mtrs the antenna may be too long.**

TO FIND RESONANCE: Install the antenna as previous instructions, tune your radio at 7.195MHz and note the VSWR, now repeat the procedure at 7.010MHz and also note the VSWR. This will give you an idea of where the resonance point is. If the VSWR goes down @ 7.010 then the resonant point could be lower than 7.010 and it means the antenna needs to be shortened, **DO NOT CUT THE KEVLAR LINE, simply fold it back on itself (twist it together),** continue the VSWR measurements until resonance is at its lowest where you want it. If you have an antenna analyser this is very simple to complete.

DISCLAIMER & SAFETY NOTICE: G Whip Antenna Products are not responsible for any injury, accident or damaged caused by installation of its products by a 3rd party. WATCH FOR WIRES WHEN INSTALLING ANTENNAS