

Using a G5RV on 160M

By G8MNY

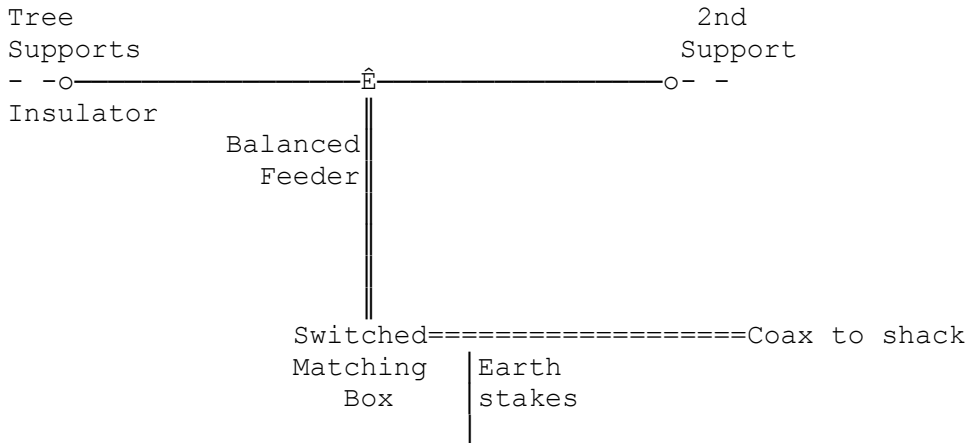
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(8 Bit ASCII graphics use code page 437 or 850, Terminal Font)

To use a G5RV or any HF dipole conveniently to a Marconi T aerial to topband you will need..

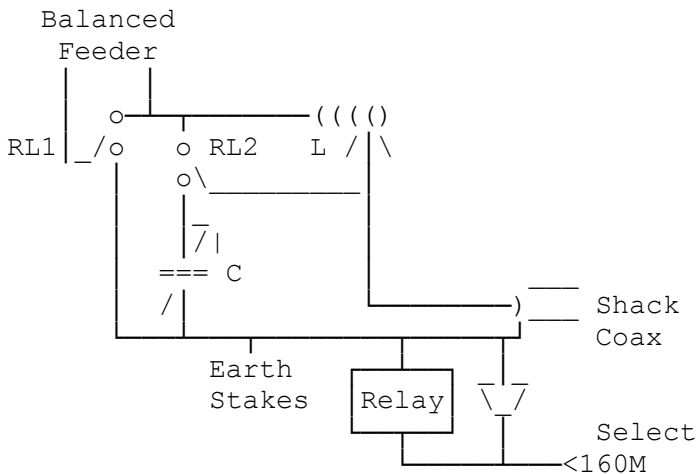
- 1/ A good earth
- 2/ A matching coil
- 3/ Double Pole Relay/switch
- 4/ Outdoor Box

AERIAL



SWITCHED MATCHING BOX

This has to house the relay or manual double pole high voltage switch with the loading coil.



This circuit is with no HF balun for use on a G5RV or half sized G5RV. If a dipole is used with then a switched balun & more complex switching is needed.

With the relay released L is shorted out & the feeder is connected to the coax in the normal way.

With the relay operated the feeder is shorted together & connected to the coax via the L & a SWR trimming cap C. The voltages can be very high (1kV) so a relay or switch with good contact separation & contacts to spacing is need.

TUNING

Generally a series L (tapped 60 turns on a 3cm dia former) is all that is needed to get the resonated Z down to near 50/75 Ω with most aerials. But if the SWR is still too high at resonance the C across the coax (via RL2 contact) of 100-2000pF should bring the Z to an exact match.

BOX

A black plastic box is best. Hermetically sealed boxes really don't seal that well outdoors. A better approach is to leave a breathing hole in the bottom (lowest point) so that any water can drain away, but put a fine mesh over it to stop insects. Paint up & spray all parts with a light oil to resist rusting.

Grease up well, all screws & connectors use outside so any water has nowhere to go.

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