Using a G5RV on 160M

By G8MNY

(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**
Tree Supports
- -o- E-oo-
Insulator Balanced Feeder

Switched= Coax to shack
Matching Box Earth stakes

**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 50/75Ω 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 & spay all parts with a light oil to resist rusting.

Grease up well, all screws & connectors use outside so any water has no where to go.

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