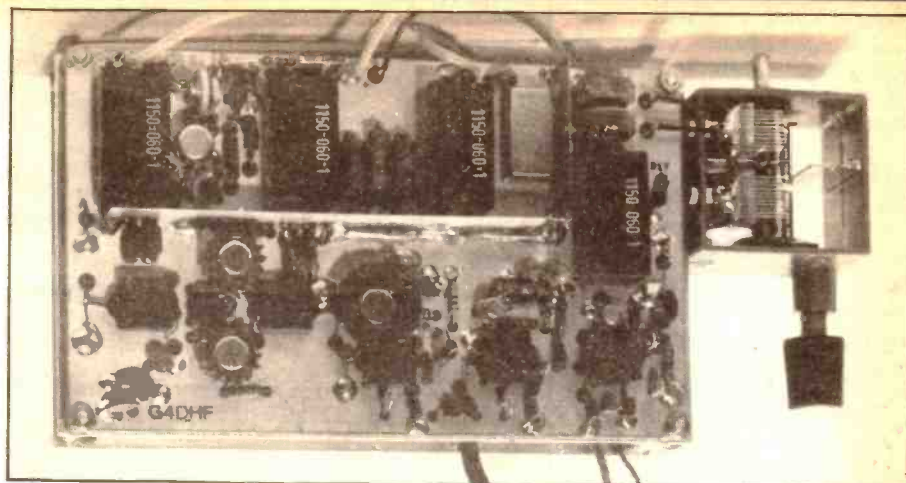


HT to one of the oscillators, adjust L3 until oscillation occurs. Changing to the collector, tune the second harmonic by adjusting TC1. As TC2 and L6 are resonated the output signal will appear across D9, and hence into the 50Ω dummy load. The output voltage is rectified by the diode, and monitored by the meter. Adjustments can be made until maximum voltage is obtained. Switch off all supplies, and connect the boards as shown in Fig. 4 into the VHF transceiver via a power meter. Connect a suitable antenna and tune the preselector via VC1 for maximum signal strength. The peak setting is the same in both transmit and receive conditions. Activating the transmitter should cause a response from the relays. Check that power input is correct, and if RF switching is used, adjust VR1 for a suitable delay time. Operation was found to be quiet and effective. The author was pleasantly surprised to find that the transverter still gave appreciable power output when driven with ½ watt, even though the 30dB pad was chosen for optimised performance. As SSB/CW was required at '4DHF, the relatively low wattage of the attenuator resistors were found to be quite adequate as the low duty cycle gives sufficient time between peak signals to dissipate the heat. When 10 metres FM is used it is best to keep the input power as low as possible, as rather larger wattage resistors would be required in order to cope with the increased dissipation.

Kits

A complete set of parts including the two PCB's (drilled), all components, switch, relays, cores, air-spaced capacitor, wire etc, excluding the crystals and screens is available



from WPO Communications for £61.00 including VAT & p&p.

We suggest you purchase the crystals as follows:

58MHz — ex Ambit International, 200 North Service Road, BRENTWOOD, Essex. CM14 4SG, price £3.71 inc.

The 61.5 and 65MHz units can be ordered from QSL Ltd, PO Box 19, Erith, Kent. These cost £5.23 each with delivery in two to three weeks. State HC-18U, 5th overtone, series resonance when ordering.

spirit of amateur radio, have freely offered advice and material assistance — often at the most unsociable hours in the early morning!

Additional construction notes for G4DHF transverter

by Tony Bailey G3WPO

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There are a number of points worth noting which will aid construction as follows.

Main PA/input circuit PCB

Start the assembly of this board by inserting 1mm PCB connection pins at the points marked on the drawing.

