

CW Transmitter: 30/20m modifications

Written by Hans Summers
Saturday, 25 April 2009 07:52 -

This page describes some simple modifications that were made to this transmitter to allow operation on the 30m and 20m amateur bands, and permit automatic CQ!

COIL SURGERY: The first stage was to modify the pi-net coil for 30m and 20m.
10 turns: 30m
14 turns: 40m
27 turns: 80m (whole coil length)



RELAYS: This photo shows the installed coil and relays. The large transparent relay in a s

A 12-way rotary switch on the front panel controls both the band-switching relays AND the crystal select



UNDER THE CHASSIS: Under the chassis after the modifications. See the new 12-way rotary switch at

I later added another two crystals: 10.106 and 14.060.

In the background, my [80/40m RX](#) with frequency counter [and audio piped from my receiver front end](#).

NEW LOOK: New look front panel. At bottom left, there used to be 3



QRV ON 30M!: Transmitting on the 10.125 MHz crystal. Under the TX is a little [simple 50mA indicator](#) [e 30m direct conversion receiver](#) [80/40m RX](#)

The transmitter also tunes fine on 20m using a 14.060 MHz QRP calling frequency crystal. Power output

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cwtx30m/cq{gallery} **GO, MACHINE!:**

Look, no hands on the [Key/Crossbeacon](#) (seen here)

cwtx30m/crowded{gallery} **CROWDED!:**

Behind the rig, it's getting crowded now with all the cab