



TP-103 HFO Output Freqs

80M	= 18.330 MHz
40M	= 21.830
30M	= 24.830
20M	= 28.830
17M	= 32.830
15M	= 35.830
12M	= 39.580
10M	= 42.830

TP101 Pre Mix Freqs

80M	= 12.3307 MHz
40M	= 15.8307
30M	= 18.8307
20M	= 22.8307
17M	= 26.8307
15M	= 29.8307
12M	= 33.5807
10M	= 36.8307

Transmit Frequency Path
 HFO (TP103) minus VFO (TP102) minus the XMIT BFO = Xmit Freq

Receive Frequency Path
 The Receive Signal minus the Premix Signal = the IF Freq (8.8307 Mhz). **40M example:**
 7.000 Mhz Rcv. minus Premix Sig (TP101) 15.8307 = 8.8307 Mhz IF freq.

Note: the diode symbol indicates one or more diodes that are biased on or off to act as a T-R switch by the T12 or R12 control leads. The HFO diodes are switched by the Band Switch

**Heathkit HW-9
Block Diagram**

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Ver.	Drawn by:	Date:
1.2	R. Patrick Kr7w	14 Oct, 2006