



<b>Heathkit HW-9 Block Diagram</b>	
Ver.	1.2
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**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

**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.

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

**TP103 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