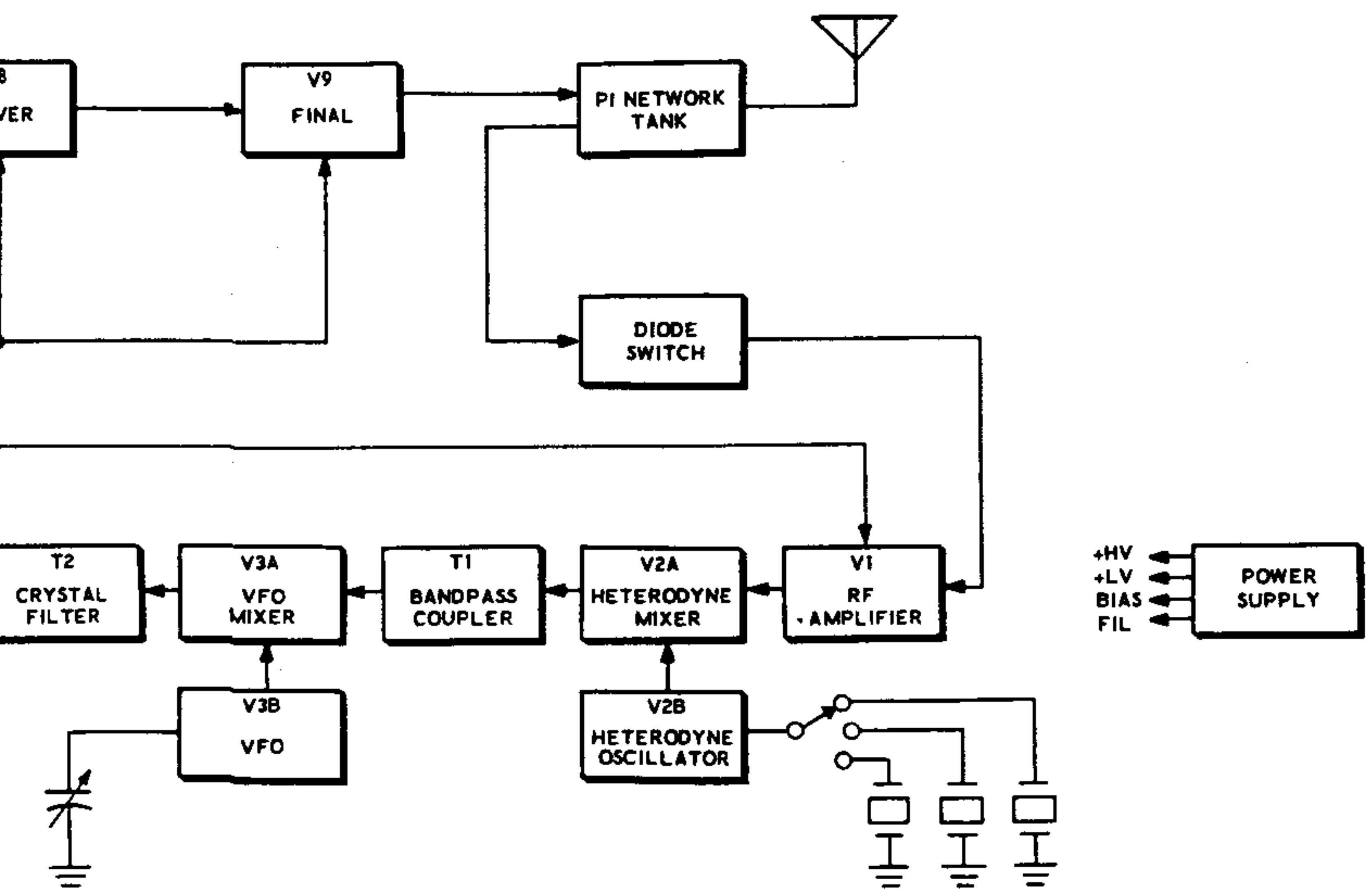


BLOCK DIAGRAM



BLOCK DIAGRAM

September 26, 1968
HW-16 Novice Transmitter
Bulletin No: HW-16-1

Side Tone

When using the HW-16 with a VFO sometimes a partial operation of the sidetone oscillator takes place due to an increased loading on the bias voltage. This can be corrected by changing R-69 from a 120K ohm resistor to a 220K ohm resistor [PN 1-29]. Also, the original schematic shows R-16 as a 4700 ohm resistor which is incorrect. R-16 should be shown as a 5600 ohm resistor.


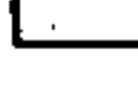
September 9, 1971
HW-16 Novice Transmitter
Bulletin No: HW-16-2

Resistor Failure

Due to repeat failure of a resistor in the field, the following change should be made in all units being serviced:
CHANGE: R21 22K 1 Watt to 2 Watt [PN 1-11-2].

**SCHEMATIC OF THE
HEATHKIT®
CW TRANSCEIVER
MODEL HW-16**

NOTES:

1. RESISTOR, CAPACITOR AND DIODE NUMBERS ARE IN THE FOLLOWING GROUPS:
0-99 PARTS OF TRANSMITTER AND RECEIVER CIRCUITS IN CLOCKWISE ROTATION
201-299 PARTS OF POWER SUPPLY CIRCUIT FROM RIGHT TO LEFT.
2. ALL RESISTORS ARE 1/2 WATT UNLESS MARKED OTHERWISE. RESISTOR VALUES ARE IN OHMS (K = 1,000, MEG = 1,000,000).
3. ALL CAPACITOR VALUES ARE IN μFD UNLESS MARKED OTHERWISE.
4.  THIS SYMBOL INDICATES A DC VOLTAGE WITH KEY UP.
 THIS SYMBOL INDICATES A DC VOLTAGE WITH KEY DOWN.
5. ALL VOLTAGES TAKEN WITH AN 11 MEGOHM VTVM FROM THE POINT INDICATED TO CHASSIS GROUND. VOLTAGES MAY VARY $\pm 10\%$ WITH A LINE VOLTAGE OF 120 VAC AND CONTROLS SET AS FOLLOWS:
RF GAIN - FULL CLOCKWISE; PWR LEVEL - FULL CLOCKWISE;
BAND SWITCH - 3.5 MHz; AF GAIN - FULL CLOCKWISE.
6. ALL SWITCH WAFERS SHOWN IN FULL COUNTERCLOCKWISE POSITION, AS VIEWED FROM THE KNOB END OF THE SHAFT.
7. REFER TO THE CHASSIS PHOTOGRAPHS AND CIRCUIT BOARD X-RAY VIEWS FOR THE PHYSICAL LOCATION OF PARTS.
8. THE BANDSWITCH PANEL MARKINGS ARE IN MEGAHERTZ. THE BANDSWITCH SCHEMATIC CONTACTS ARE IDENTIFIED IN WAVELENGTHS.
3.5 MHz CORRESPONDS TO 80 METERS
7 MHz CORRESPONDS TO 40 METERS
21 MHz CORRESPONDS TO 15 METERS

