

ALL BAND-CHANGE SWITCH
SECTIONS GANGED AS
ONE CONTROL.

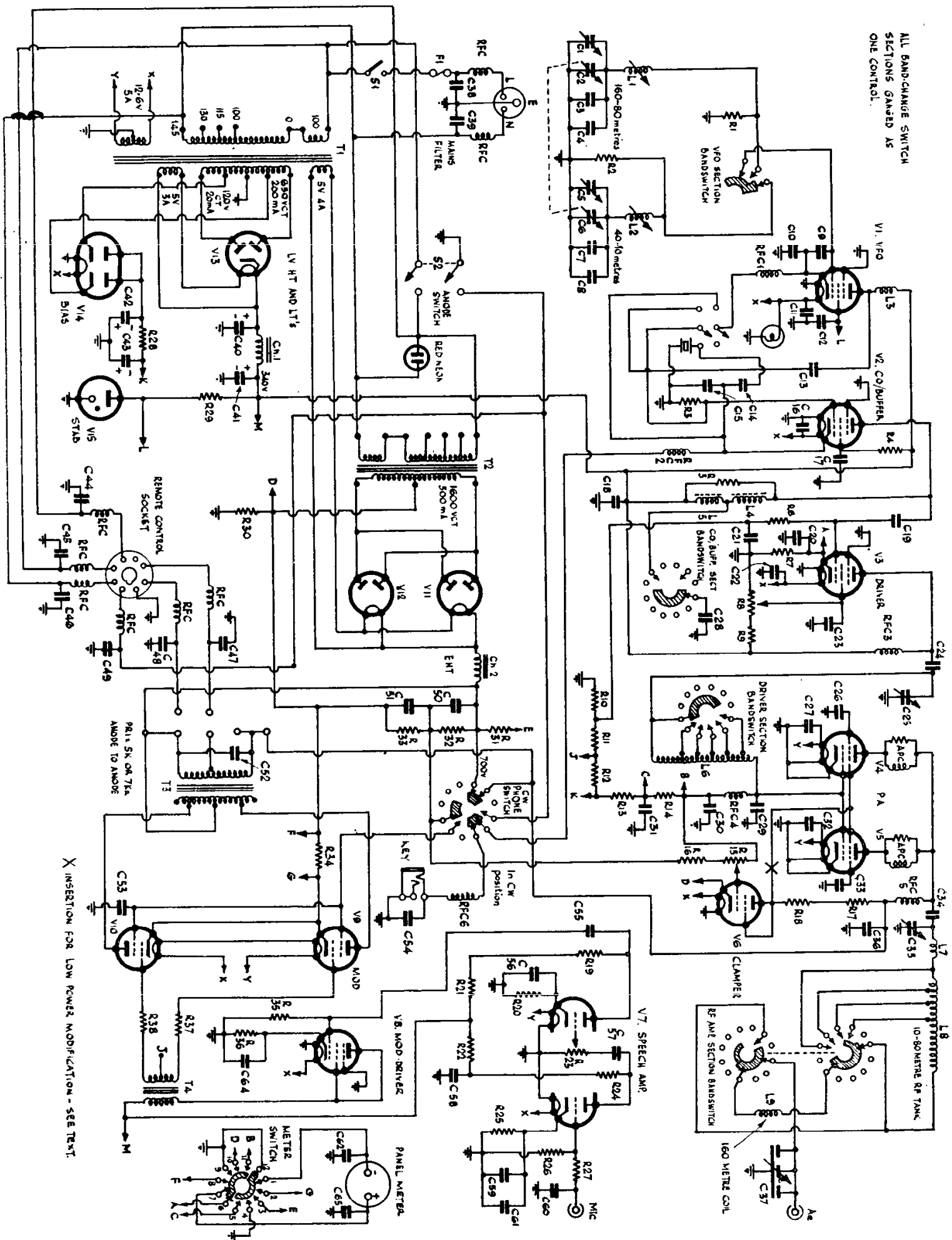


Table of Values

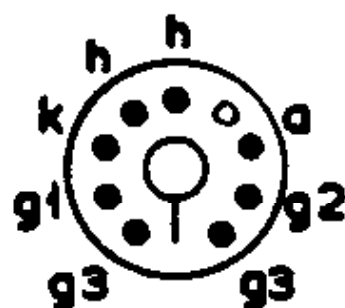
Circuit of the DX-100U CW/AM Phone Transmitter

| | | | | |
|--|---------------------------------------|--|---|-------------------------|
| C1, C5 = 20 $\mu\mu\text{F}$ | - C26, C28, C33 = .001 μF | R9 = 6,500 ohms | Ch2 = 6 Hy 500 mA | V4, V5 = 6146 (QVO6/20) |
| C2 = 35 $\mu\mu\text{F}$ | C34, C36 = .001 μF , 2 kV | R11 = 470 ohms | L1 = 114.5 μH | V6 = 6AQ5 |
| C3, C7, C19, C29 = 47 $\mu\mu\text{F}$ | C35 = 300 $\mu\mu\text{F}$ | R14 = 5.55 ohms | L2 = 9.3 μH | V7 = 12AX7 |
| C4 = 10 $\mu\mu\text{F}$ | C37 = 500 $\mu\mu\text{F}$: 500 | R15, R23 = $\frac{1}{2}$ -megohm potentiometer | L3 = 28.0 μH | V9, V10 = KT88 |
| C6 = 11 $\mu\mu\text{F}$ | C40, C41 = 40 μF , elect. | R16, R24, R26, R35 = 470,000 ohms | L4 = 6.5 μH | V11, V12 = 5R4GY |
| C8 = 4.7 $\mu\mu\text{F}$ | C42, C43 = 20 μF , elect. | R17, R18 = 10,000 ohms | L5 = 15 μH | V13 = 5U4G |
| C9, C10, C55, C57 = 510 $\mu\mu\text{F}$ | C50, C51 = 125 μF , elect. | R20, R25, R27 = 4,700 ohms | L6 = 10-160m. driver | V14 = 6AL5 |
| C11, C12, C16, C17, C18, C20, C21, C22, C23, C27, C30, C31, C32, C38, C39, C44, C45, C46, C47, C48, C49, C54, C61, C62, C63 = .005 μF | C52 = .02 μF , 2 kV | R28, R37, R38 = 1,000 ohms | L7, L8 = 10-80m. PA tank | V15 = 6AL5 |
| C13 = 100 $\mu\mu\text{F}$ | C53, C58 = 0.1 μF | R29 = 15,000 ohms, 5w. | L9 = 160m. PA coil | V15 = 6AL5 |
| C14 = 22 $\mu\mu\text{F}$ | C56, C59, C64 = 2 μF | R30, R34 = 0.1 ohm | S1 = SPST toggle | V15 = 6AL5 |
| C15 = 150 $\mu\mu\text{F}$ | C60 = 220 $\mu\mu\text{F}$ | R31 = 1 megohm | S2 = DPDT toggle | V15 = 6AL5 |
| C24 = 68 $\mu\mu\text{F}$ | R1 = 22,000 ohms | R32, R33 = 15,000 ohms | APC = Anti-parasitic chokes on resistor forms, 4t. on 47 ohms | |
| C25 = 75 $\mu\mu\text{F}$ | R2, R10, R12, R13 = 2,200 ohms | R36 = 680 ohms | T1 = 650-120-0v./200 mA | |
| | R3, R19, R22 = 100,000 ohms | RFC = Filter chokes | T2 = 800-0v./500 mA | |
| | R4, R5, R21 = 47,000 ohms | RFC1, RFC2, RFC4 = 1.1 mH choke | T3 = Mod xformer, 2,800-ohm sec./5,000-ohm pri., A-A. | |
| | R6 = 27,000 ohms | RFC3 = 2.5 mH choke | T4 = Driver xformer, 2 : 1. | |
| | R7 = 1.02 ohms | RFC5 = 1 mH 500 mA choke | V1 = 6AU6 (EF84) | |
| | R8 = 25,000-ohm potentiometer | Ch1 = 7 Hy 200 mA | V2, V8 = 6CH6 | |
| | | | V3 = 5763 | |

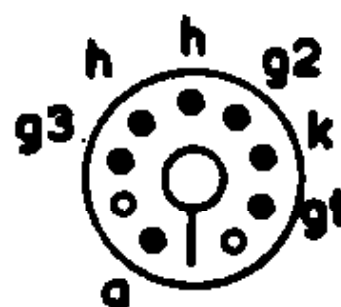
Fig. 2. Circuit complete of the DX-100U, for which all values are given here. Input up to 150 watts is easily obtainable on any HF band, with ample modulation capability.



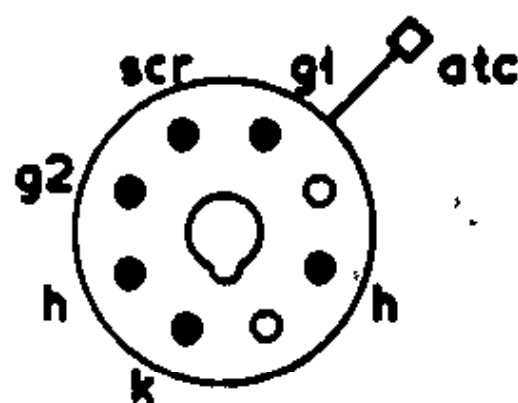
V1-6AU6



V2:V8-6CH6



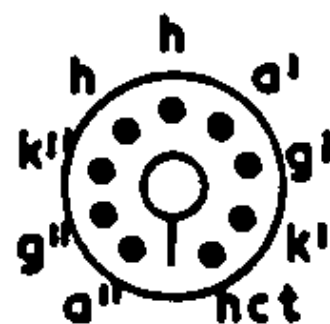
V3-5763



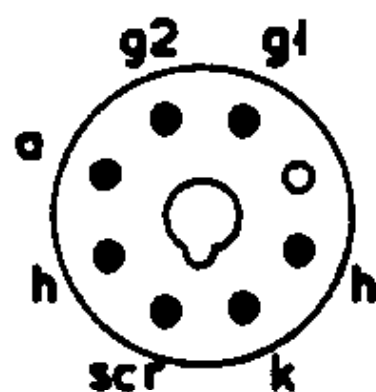
V4:V5-6146



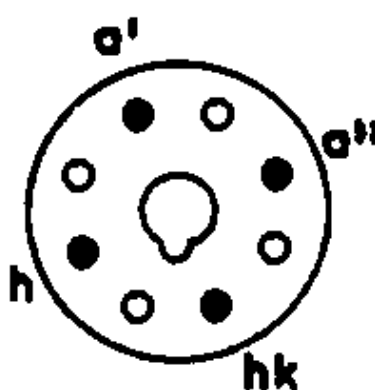
V6-6AQ5



V7-12AT7

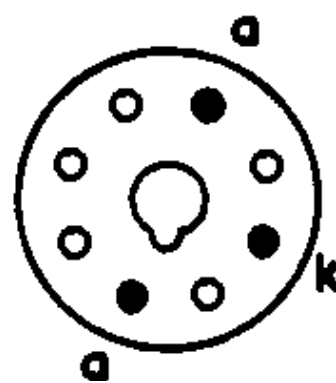


V9:V10-KT88



V11:V12-5R4GY

V13-5U4G



V15-OA2



V14-6AL5