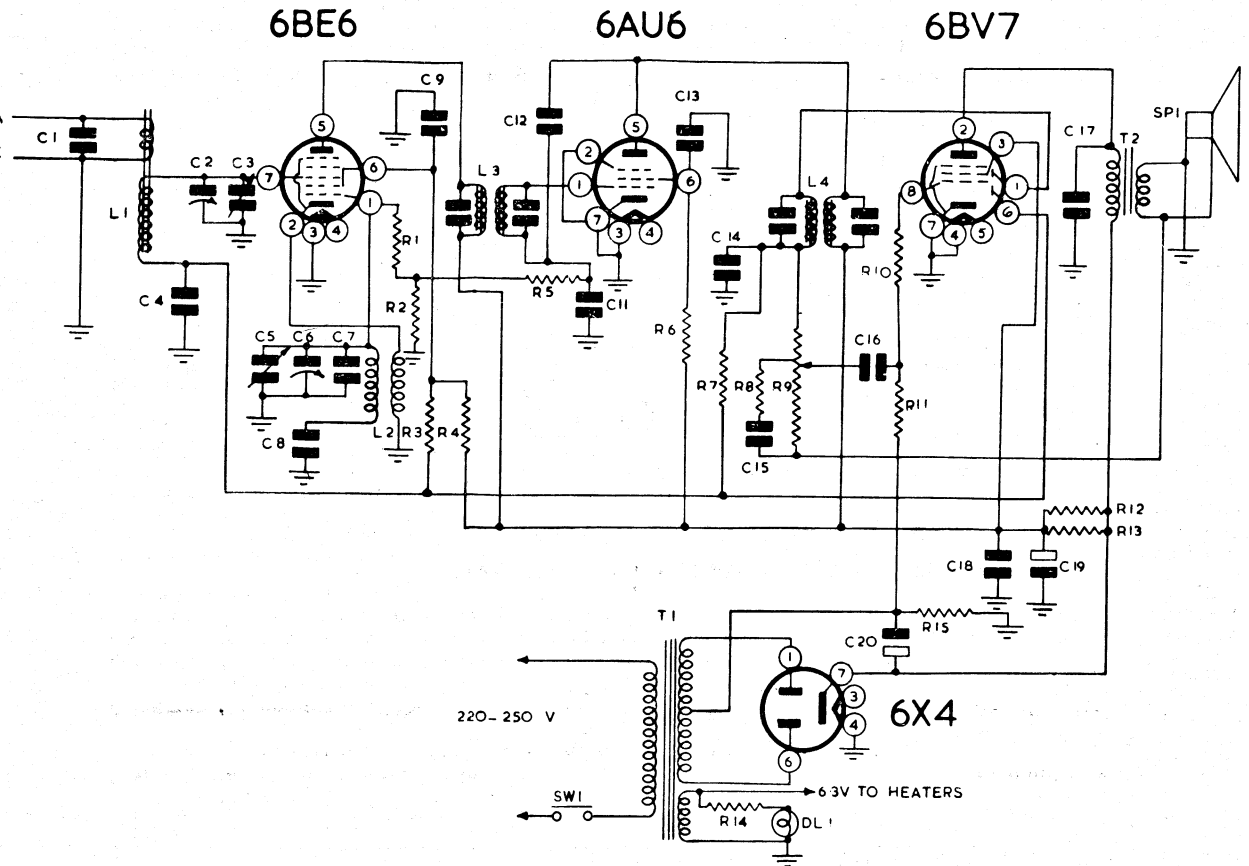


# HEALING

## MODEL 407 E



### COMPONENTS LIST

Part No.	DESCRIPTION	Part No.	DESCRIPTION
C1	100 pf 400 Volt Mica Condenser.	R6	22,000 ohms ½ Watt Carbon Resistor.
C2, C6	12-450 pfd. Variable Condenser, 2 gang.	R7	2.2 megohm ½ Watt Carbon Resistor.
C3, C5	Trimmer Condenser 3-30 pfd.	R8	10,000 ohm ½ Watt Carbon Resistor.
C4	.05 mfd. 200 Volt Paper Condenser.	R9	500,000 ohm Potentiometer tapped at 100,000 ohms, fitted with S.P. Switch Type RL768.
C7	15 pfd. Ceramicon Condenser type N750.	R10	4,700 ohm ½ Watt Carbon Resistor.
C8	461 pfd. Silvered mica Condenser 1% Tol.	R11	1 megohm ½ Watt Carbon Resistor.
C9, C13	.05 mfd 400 Volt Paper Condenser.	R12, R13	3,900 ohm 1 Watt Carbon Resistor.
C10, C11	.01 mfd 600 Volt Paper Condenser.	R14	3.3 ohm ½ Watt Wire Wound Resistor.
C12	6.8 pfd. Neutralizing Condenser.	R15	100 ohm ½ Watt Wire Wound Resistor.
C14	300 pfd. Mica Condenser.	L1	Aerial Coil Type RJ124.
C15	.02 mfd. 200 Volt Paper Condenser.	L2	Oscillator Coil Type RJ125.
C16	16 mfd. 350 peak volt Electrolytic Condenser.	L3, L4	I.F. transformer type RJ103.
C17	24 mfd. 350 Peak Volt Electrolytic Condenser.	T1	Power Transformer Type RK48. Primary 235 V. Secondary 200-0-200 V. at 40 M.A. 6.3 Volt at 2 amp.
C18	1,500 ohm ½ Watt Carbon Resistor.	SP1	Role Speaker Type 4C.
C19	6,800 ohm ½ Watt Carbon Resistor.	T2	Speaker Transformer Type EBB74. Impedance = 10,000 ohms.
C20	4.7 megohm 1 Watt Carbon Resistor.	DL1	Dial Lights, 6.3 Volts, 0.3 amps.
R1	33,000 ohm 1 Watt Carbon Resistor.		
R2	100,000 ohm ½ watt carbon resistor.		

# Service Data for the Healing Receiver

## MODEL 407E

Power Supply: 220-250 Volts A.C. 50 cycles

Power Consumption: 30 Watts.

Frequency Range: 540-1630 Kc/s.

Speaker Transformer Impedance: 10,000 ohms.

Dial Light: 6.3 Volt 0.3 amp.

D.C. RESISTANCE OF R.F. COILS			
Coil	Type	Primary Ohms	Sec. Ohms
Aerial Osc.	RJ124	15	.6
	RJ125	.4	1.8
1st I.F.	RJ103	18.5	18.5
2nd I.F.	RJ103	18.5	18.5

### Typical Working Voltages.

Bias across R.15: 3.3 Vo'ts.

Valve	Use	1000 OHM PER VOLT D.C. METER SCALES			
		A.C. Heater	50V. Cathode	250V. Screen	250V. Plate
		6BE6	Converter	6.0	0
6AU6	I.F.	6.0	0	132	171
6BV7	Det. AVC., A.F.	6.0	0	171	190
6X4	Rectifier	6.0	217V. D.C. input to Filter.		

### Typical Valve Currents Milliamps.

Valve	Use	Cathode	Screen	Plate	Osc. Grid.
6BE6	Converter	4.7	3.6	.9	.2
6AU6	I.F.	5.8	1.7	4.1	
6BV7	Det. AVC. A.F.	25.5	4.2	21.3	

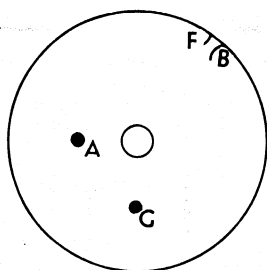
Total H.T. current 36m/a.

**Dial Adjustment:** With gang full in, pointer should be under the dot at the top right hand side of dial glass. Pointer position can be changed by sliding it along dial cord.

**Alignment:** Trimmers are mounted on gang, aerial trimmer being nearest the front. Set osc. trimmer at 1,400 K/cs and osc. coil slug at 600 K/cs. To align the aerial section, turn signal generator to high output and loosely couple to receiver by placing generator leads in close proximity to receiver. Do not directly couple to aerial and earth terminals. Adjust aerial trimmers at 1,400 K/cs and slide coil along ferrite rod, adjusting its position for maximum response at 600 K/cs.

### DIAL CORD ARRANGEMENT

SHOWN WITH  
GANG FULL IN



(C)

(D)

Anchor cord at A and pass through slot in drum at B, around drum 1/3rd turn clockwise, around pulley C, thread cord through a piece of 1½ m.m. sleeving 1" long, around bollard D, around drive shaft E, two turns clockwise (as viewed from front of receiver) around drum 2/3rds turn clockwise and pass through slot in drum at F, attach spring and anchor at G.

Clamp pointer to dial cord in its correct position with nylex sleeving under clamp.