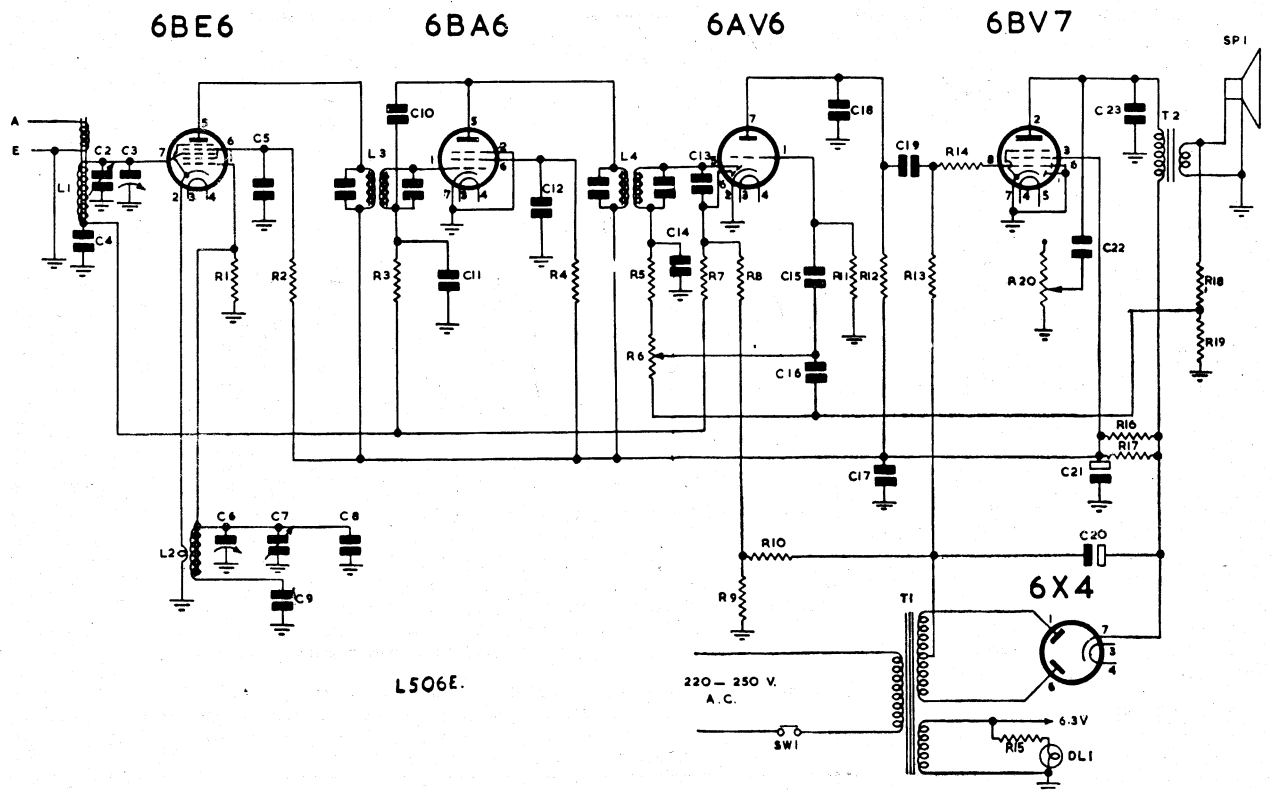


# HEALING

## MODEL L 506 E



L506E.

CIRCUIT DIAGRAM  
MODEL L506E

### COMPONENTS LIST

| Part No.           | DESCRIPTION                                      | Part No. | DESCRIPTION   |
|--------------------|--|----------|---|
| C1                 | Not Used.  | R6       | 500,000 ohm Potentiometer with S.P. Switch type RL810   |
| C2, C7             | Trimmer Condenser 3-30 pfd.                      | R7, R8   | 1 megohm $\frac{1}{2}$ Watt Carbon Resistor.            |
| C3, C6             | 12-450 pfd. Variable Condenser, 2 gang.          | R9       | 47 ohm $\frac{1}{2}$ W W.W. Resistor                    |
| C4                 | .1 mfd. 200 Volt Paper Condenser.                | R10, R18 | 100 ohm $\frac{1}{2}$ watt W.W. resistor.               |
| C5, C12, C17       | .05 mfd 400 Volt Paper Condenser.                | R11      | 10 megohm $\frac{1}{2}$ watt carbon resistor.           |
| C8                 | 15 pfd. Ceramicon Condenser type N750.           | R12      | 220,000 ohm $\frac{1}{2}$ watt carbon resistor.         |
| C9                 | 461 pfd. Silvered mica Condenser 1% Tol.         | R13      | 470,000 ohm $\frac{1}{2}$ watt carbon resistor.         |
| C10                | 6.8 pfd. Ceramic Condenser.                      | R15      | 3.3 ohm $\frac{1}{2}$ Watt Wire Wound Resistor.         |
| C11, C15, C19, C13 | 100 pfd. 400 volt mica Condenser.                | R16, R17 | 10,000 ohm 1 watt carbon resistor.                      |
| C14, C18           | 200 pfd. 400 Volt mica Condenser.                | R19      | 10 ohm $\frac{1}{2}$ W W.W. Resistor                    |
| C16                | 300 pfd. 400 volt mica Condenser.                | R20      | 50,000 ohm Potentiometer Type RL776                     |
| C20                | 24 mfd. 525 peak volt Electrolytic Condenser.    | L1       | Aerial Coil, Type RJ128                                 |
| C21                | 16 mfd. 350 peak volt Electrolytic Condenser.    | L2       | Oscillator Coil Type RJ125.                             |
| C22                | .033 mfd 400V Paper Condenser                    | L3, L4   | I.F. transformer type RJ103.                            |
| C23                | .01 mfd. 600 Volt Paper Condenser.               | T1       | Power transformer type RK48 200-0-200 Volt 6.3 V. @ 2A. |
| R1                 | 22,000 ohm $\frac{1}{2}$ watt carbon resistor.   | T2       | Speaker transformer EBB74 impedance 10,000 ohms.        |
| R2                 | 22,000 ohm 1 Watt Carbon Resistor.               | SP1      | Rola Speaker, Type 4-5F                                 |
| R3                 | 100,000 ohms $\frac{1}{2}$ Watt Carbon Resistor. | SW1      | S.P. Switch on volume control.                          |
| R4                 | 100,000 ohm 1 watt carbon resistor.              | DL1      | Dial Lights, 6.3 Volts, 0.3 amps.                       |
| R5, R14            | 47,000 ohm $\frac{1}{2}$ watt carbon resistor.   |          |   |

# Service Data for the Healing Receiver

## MODEL L 506E

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

Power Consumption: 30 Watts.

Frequency Range: 540-1630 Kc/s.

Intermediate Frequency: 455 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                        | RJ128 | .07          | .6        |
| Osc.                          | RJ124 | .4           | 1.8       |
| 1st I.F.                      | RJ103 | 18.5         | 18.5      |
| 2nd I.F.                      | RJ103 | 18.5         | 18.5      |

### Typical Working Voltages.

D.C. Voltage measured to chassis, aerial disconnected, no signal input  
Bias across resistor R9: 1.4 Volts. R10: 4.0 Volts.

| Valve | Use                    | 1000 OHM PER VOLT D.C. METER SCALES |                            |        |       |
|-------|------------------------|-------------------------------------|----------------------------|--------|-------|
|       |                        | A.C.                                | 50V.                       | 250V.  | 250V. |
|       |                        | Heater                              | Cathode                    | Screen | Plate |
| 6BE6  | Converter              | 6.1                                 | 0                          | 56     | 156   |
| 6BA6  | I.F.                   | 6.1                                 | 0                          | 54     | 156   |
| 6AV6  | Det. AVC.,<br>1st A.F. | 6.1                                 | 0                          |        | 70    |
| 6BV7  | 2nd A.F.               | 6.1                                 | 0                          | 156    | 208   |
| 6X4   | Rectifier              | 6.1                                 | 220V D.C. input to filter. |        |       |

### Typical Valve Currents

Milliamps.

| Valve | Use                   | Cathode | Screen | Plate | Osc. Grid. |
|-------|-----------------------|---------|--------|-------|------------|
| 6BE6  | Converter             | 5.7     | 4.6    | .9    | .2         |
| 6BA6  | I.F.                  | 4.5     | 1.3    | 3.2   |            |
| 6AV6  | Det. AVC.<br>1st A.F. | .4      |        | .4    |            |
| 6BV7  | 2nd A.F.              | 18.4    | 2.4    | 16.0  |            |
| 6X4   | Rectifier             |         |        |       |            |

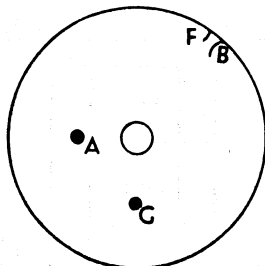
Total H.T. current 29m/a.

**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 trimmer 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



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.