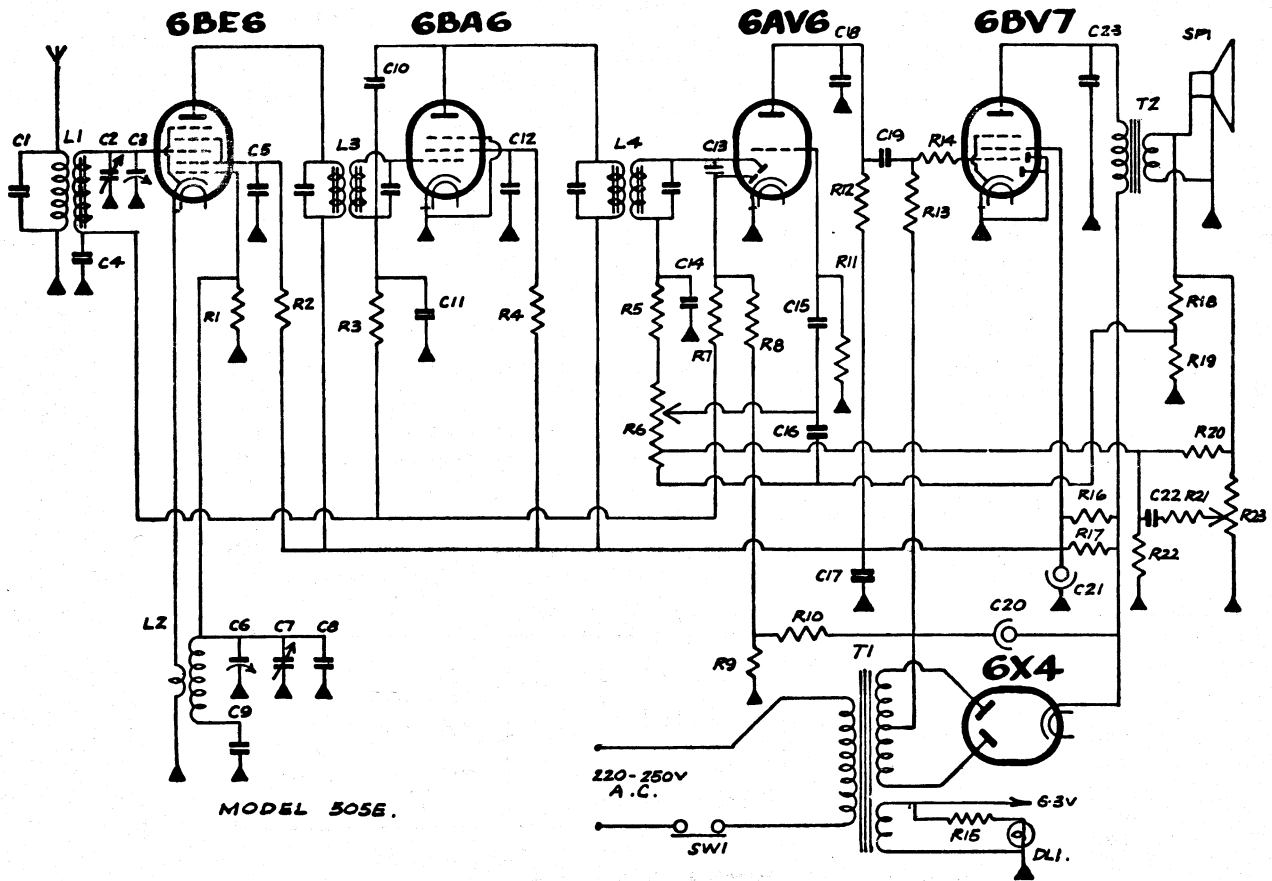


HEALING

MODEL 505E



COMPONENTS LIST

| Part No. | DESCRIPTION | Part No. | DESCRIPTION |
|--------------------|---|----------|--|
| C1, C13 | 100 pfd. 400 volt mica Condenser. | R6 | 500,000 ohm potentiometer tapped at 100,000 ohm with S.P. switch type RL728. |
| C2, C7 | Trimmer Condenser 3-30 pfd. | R7, R8 | 1 megohm ½ watt carbon resistor. |
| C3, C6 | 12-450 pfd. Variable Condenser, 2 gang. | R9, R18 | 50 ohm ½ watt W.W. resistor. |
| C4 | .1 mfd. 200 volt paper Condenser. | R10 | 100 ohm ½ watt W.W. resistor. |
| C5, C12, C17 | .05 mfd. 400 volt paper Condenser. | R11 | 10 megohm ½ watt carbon resistor. |
| C8 | 15 pfd. Ceramicon Condenser type N750. | R12 | 220,000 ohm ½ watt carbon resistor. |
| C9 | 461 pfd. Silvered mica Condenser 1% Tol. | R13 | 470,000 ohm ½ watt carbon resistor. |
| C10 | 6.8 pfd. Ceramicon Condenser. | R15 | 3.9 ohm ½ watt W.W. resistor. |
| C11, C15, C19, C23 | 01 mfd. 600 volt paper Condenser. | R16, R17 | 10,000 ohm 1 watt carbon resistor. |
| C16 | 300 pfd. 400 volt mica Condenser. | R19 | 10 ohm ½ watt carbon resistor. |
| C14, C18 | 200 pfd. 400 Volt mica Condenser. | R20 | 15,000 ohm ½ watt carbon resistor. |
| C20 | 24 mfd. 525 peak volt Electrolytic Condenser. | R21 | 2,000 ohm ½ watt carbon resistor. |
| C21 | 16 mfd. 350 peak volt Electrolytic Condenser. | R22 | 1,500 ohm ½ watt carbon resistor. |
| C22 | .05 mfd. 200 volt paper Condenser. | R23 | 50,000 ohm potentiometer type RL587. |
| R1 | 22,000 ohm ½ watt carbon resistor. | L1 | Aerial coil type RJ85D. |
| R2 | 22,000 ohm 1 watt carbon resistor. | L2 | Oscillator coil type RJ98. |
| R3 | 100,000 ohm ½ watt carbon resistor. | L3, L4 | I.F. transformer type RJ103. |
| R4 | 100,000 ohm 1 watt carbon resistor. | T1 | Power transformer type RK42 200-0-200 Volt 6.3 V. @ 2A. |
| R5, R14 | 47,000 ohm ½ watt carbon resistor. | T2 | Speaker transformer EBB74 impedance 10,000 ohms. |
| | | SP1 | Rola speaker type 5C. |
| | | SW1 | S.P. Switch on volume control. |
| | | DL1 | 6.3V, 0.3 amps. |

Service Data for the Healing Receiver

MODEL 505E

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

Power Consumption: 30 Watts.

Intermediate Frequency: 455 kc/s.

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 | RJ85D | 2.4 | 3.2 |
| Osc. | RJ98 | .1 | 1.9 |
| 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 | A.C. | 1000 OHM PER VOLT D.C. METER SCALES | | |
|-------|------------------------|------|-------------------------------------|--------------|--------------|
| | | | Heater | 50V. Cathode | 250V. Screen |
| | | 6BE6 | Converter | 6.1 | 0 |
| 6BA6 | I.F. | 6.1 | 0 | 54 | 156 |
| 6AV6 | Det. AVC., 1st A.F. | 6.1 | 0 | | 70 |
| 6BV7 | 2nd A.F. | 6.1 | 0 | 156 | 208 |
| 6X4 | Rectifier | 6.1 | 220 V. 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. 1st A.F. | .4 | | .4 | |
| 6BV7 | 2nd AF. | 18.4 | 2.4 | 16.0 | |

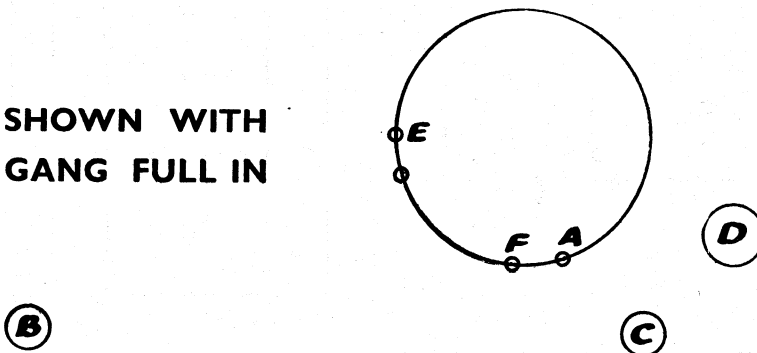
Total H.T. current 29m/a.

Dial Adjustment: With gang full in, pointer should be under the dot at the top left 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 1400 K/cs and osc. coil slug at 600 K/cs. Adjust aerial trimmers at 1400 K/cs and aerial coil slug at 600 K/cs.

DIAL CORD ARRANGEMENT

SHOWN WITH
GANG FULL IN



Anchor cord at A and pass through hole in drum, around drum 2/3 of a turn anticlockwise, around pulley B, around bollard C, around drive spool D 3 times clockwise, around drum 1/2 turn and through hole E, attach spring to cord and anchor at F.