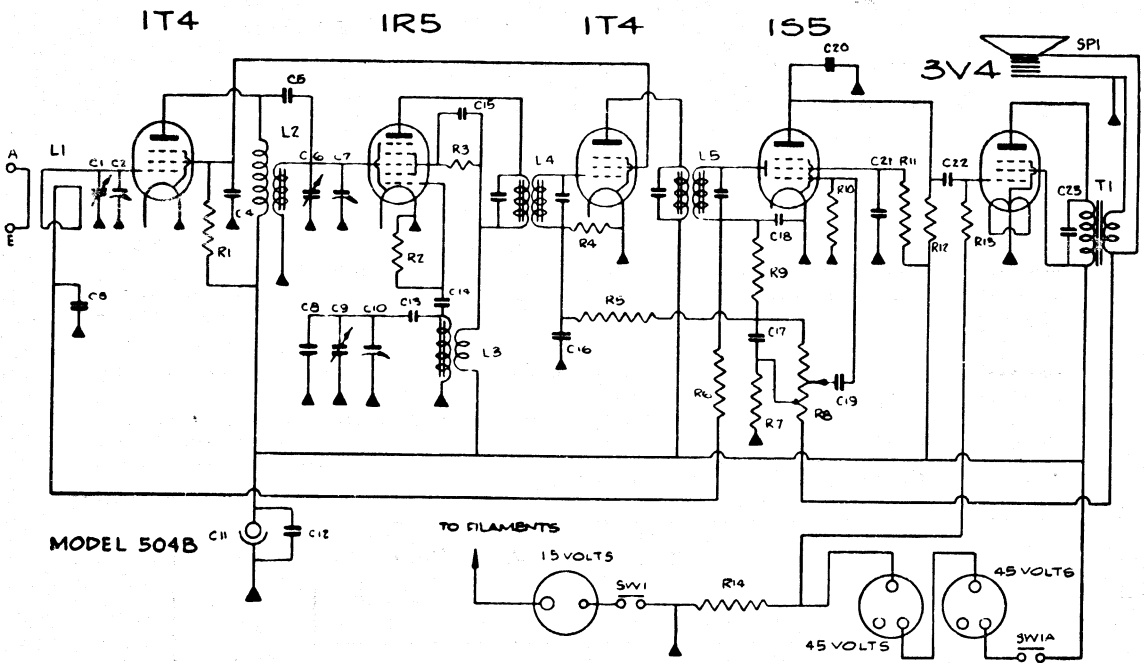


HEALING

MODEL 504 B



COMPONENTS LIST

Part No.	DESCRIPTION	Part No.	DESCRIPTION
C1, C6, C9	3-30 pfd Trimmer Condenser.	R4, R5, R6, R13	1 megohm ½ watt carbon resistor.
C2, C7, C10	12-450 pfd Variable Condenser, 3 gang.	R7	1,500 ohms ½ watt Carbon Resistor.
C3, C16	.05 mfd 200 volt Paper Condenser.	R8	1 megohm Potentiometer tapped at 20,000 ohms with double pole switch, type RL605A.
C4, C12	.05 mfd 400 volt Paper Condenser.	R10	10 megohm ½ watt carbon resistor.
C5	Part of Inductance L2.	R11	3.3 megohm ½ watt Carbon Resistor.
C8	15 pfd Ceramicon Condensers, type N750.	R12	470,000 ohm ½ watt Carbon Resistor.
C11	8 mfd 125 peak volt Electrolytic Condenser.	R14	450 ohm ½ watt W.W. Resistor.
C13	461 pfd 400 volt Silvered Mica Condenser, 1% Tol.	L1	Loop Aerial, type RJ92.
C14, C20	.0001 mfd 400 volt Mica Condenser.	L2	R.F. Coil, type RJ91A.
C15, C19, C21, C22, C23	.005 mfd 600 volt Paper Condenser.	L3	Oscillator Coil, type RJ90.
C17, C18	.0002 mfd 400 volt Mica Condenser.	L4, L5	I.F. Transformer, type RJ80.
R1	22,000 ohms ½ watt Carbon Resistor.	SP1	Speaker, type 6L, with F82 cone.
R2, R9	47,000 ohms ½ watt Carbon Resistor.	SW1, SW1A	Double Pole Switch, mounted on control R7.
R3	15,000 ohms ½ watt Carbon Resistor.	T1	Speaker Transformer, type GCL58. 10,000 ohms Impedance.

Service Data for the Healing Receiver

MODEL 504 B

Power Supply: A Battery: 1.5 volts.
B Battery: 90 volts.

Battery Current: A Battery: .3 amp.
B Battery: 15.5 m/a.

Frequency Range: 540 - 1610 kc/s.

Intermediate Frequency: 455 kc/s.

Speaker Transformer Impedance: 10,000 ohms.

D.C. RESISTANCE OF R.F. COILS			
Coil	Type	Primary Ohms	Secondary Ohms
Aerial	RJ92	0.1	1.0
R.F.	RJ91A	103	3.5
Osc.	RJ90	0.5	2.0
1st I.F.	RJ80	8.5	8.5
2nd I.F.	RJ80	8.5	8.5

Typical Working Voltages

Measured to chassis with no signal input. Filament voltages read across appropriate pins.

Bias voltage across resistor R14: 6.5 volts.

Valve	Use	1000 OHM PER VOLT D.C. METER SCALES		
		10 volt	50 volt	250 Volt
		Filament	Screen	Plate
1T4	R.F.	1.5	48	85
1R5	Converter.	1.5	43	85
1T4	I.F.	1.5	48	85
1S5	Det, AVC, 1st A.F.	1.5	5	15
3V4	2nd A.F.	1.5	85	80

Typical Valve Currents Milliamps

Valve	Use	Screen	Plate	Osc. Grid
1T4	R.F.	0.83	2.0	0.2
1R5	Converter	2.62	0.76	
1T4	I.F.	0.83	2.15	
1S5	Det, AVC, 1st A.F.	0.02	0.1	
3V4	2nd A.F.	1.1	4.7	

Chassis Removal: Push release knob on top of case hard down with blunt end of pencil while pulling panel outwards. Remove dial by unscrewing 2 screws near top edge of dial. Remove 4 countersunk screws attaching sides of panel to chassis.

Dial Adjustment: With gang full in, set the pointer centrally under the left-hand edge of the clear sections of the dial glass. Loosen drum to set the position.

Alignment: Set dial as above. Adjust oscillator trimmer on centre section of gang at approx. 1400 kc/s and the oscillator coil slug at approx. 600 kc/s. There is no need to remove chassis from panel for these adjustments. R.F. coil trimmer is on end section of gang. The aerial trimmer is accessible through a hole in the aerial/earth terminal board at rear of case and should be peaked with all batteries in place and the panel and chassis in the normal "tuning" position.

DRIVE SHOWN WITH GANG FULL IN

