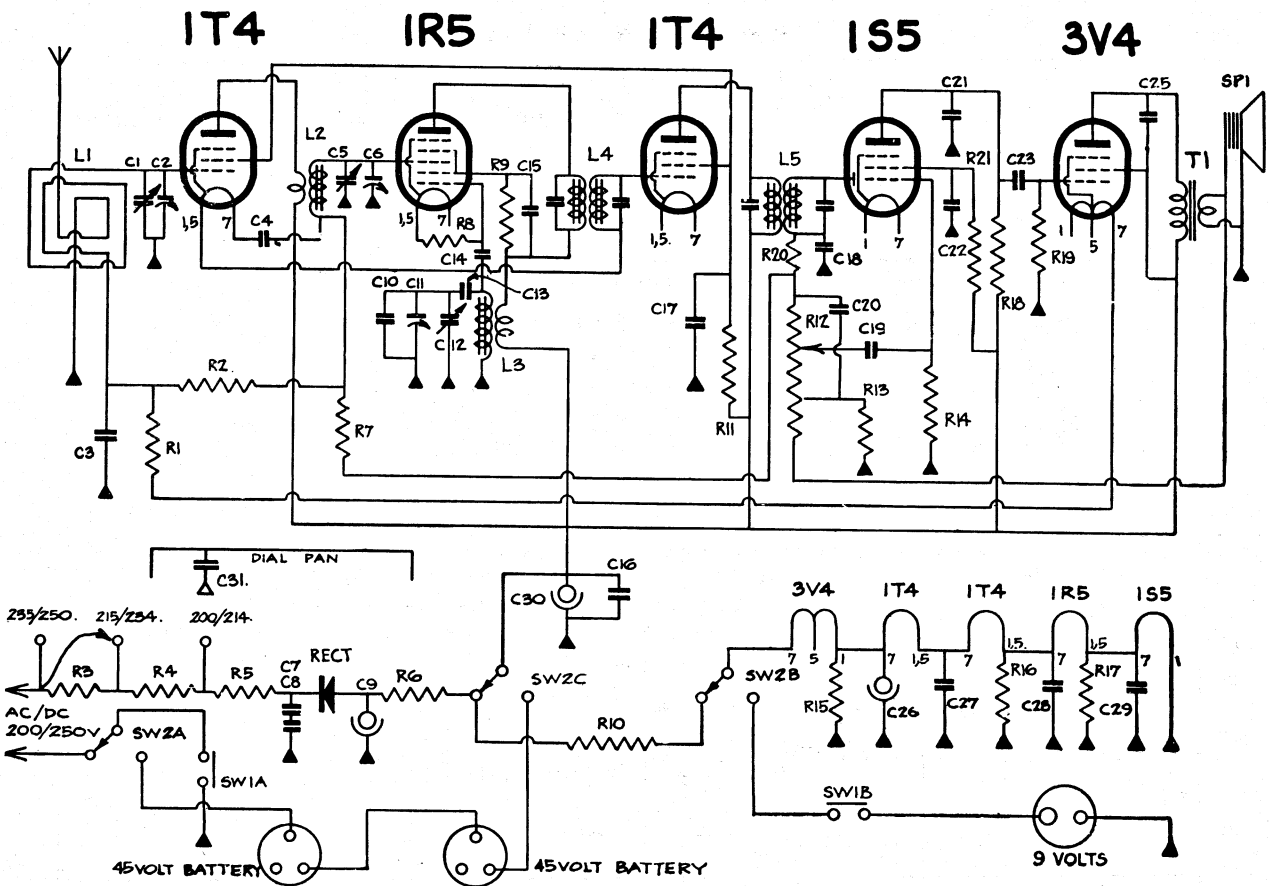


# HEALING

## MODEL 500 H



### COMPONENTS LIST

Part No.	DESCRIPTION	Part No.	DESCRIPTION
C1, C5, C12	Trimmer Condenser 3-30 pfd.	R8, R20	47,000 ohms ½ watt Carbon resistor.
C2, C6, C11	12-450 pfd. variable condenser 3 gang.	R9	15,000 ohms ½ watt Carbon resistor.
C3, C4	.05 mfd. 200 volt paper condenser.	R10	1,770 ohms 9 watt w.w. resistor 5% tol.
C7, C8	.02 mfd. 600 volt paper condenser.	R11	22,000 ohms ½ watt Carbon resistor.
C9	25 mfd. 250 volt working Electrolytic Condenser.	R12	1 megohm potentiometer tapped at 20,000 ohms with double pole switch. Type RL605.
C10	15 pfd. Ceramicon Condenser.	R13	1,500 ohms ½ watt carbon resistor.
C13	461 pfd. Silvered Mica Condenser 1% tol.	R14	10 megohms ½ watt carbon resistor.
C14, C21	.0001 mfd. Mica Condenser.	R15, R16	800 ohms ½ watt carbon resistor.
C15, C19	.005 mfd. 600 volt paper condenser.	R17	600 ohms ½ watt carbon resistor.
C22, C23, C25	.0001 mfd. Mica Condenser.	R18	470,000 ohms ½ watt carbon resistor.
C16, C17	.05 mfd. 400 volt paper condenser.	R21	3.3 megohms ½ watt carbon resistor.
C18, C20	.0002 mfd. Mica Condenser.	L1	Loop aerial type RJ92.
C26	100 mfd. 12 volt working Electrolytic Condenser.	L2	R.F. coil, type RJ91.
C27, C28, C29	.1 mfd. 200 volt paper condenser.	L3	Osc. Coil, type RJ90.
C30	40 mfd. 250 volt working Electrolytic Condenser.	L4, L5	I.F. Transformer, type RJ80.
C31	.01 mfd. 600 volt paper condenser.	RECT.	Dry metal Rectifier 250V., 70 m/a, ½ wave, type MU58.
NOTE: C9, C26, C30 included in same can.		SP1	6½" permagnetic Speaker Type 6L.
R1	4.7 megohm ½W. Carbon resistor.	T1	Speaker Transformer, type GCL58, 10,000 ohms impedance
R2, R7, R19	1 megohm ½W. Carbon resistor.	SW1A } SW1B }	Double pole switch mounted on potentiometer R12.
R3	100 ohms 3 watt w.w. resistor.	SW2A } SW2B }	4 pole 2 way switch, type RL608 or AK28098. (1 section of switch not used.)
R4	150 ohms 3 watt w.w. resistor.	SW2C }	
R5	200 ohms 4½ watt w.w. resistor.		
R6	1,600 ohms 9 watt w.w. resistor 5% tol.		

# Service Data for the Healing Receiver

## MODEL 500 H

Power Supply: 200 to 250 volts A.C. or D.C.

1-9 volt Battery type 739.

2-45 volt Batteries type 482.

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	Sec. Ohms
Aerial	RJ92	0.1	1.0
R.F.	RJ91	103	3.5
Osc.	RJ90	.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.

		1000 OHMS PER VOLT D.C. METER SCALES.					
Valve	Use	10 volt		250 volt		250 volt	
		Filament		Screen		Plate	
		Battery	Mains	Battery	Mains	Battery	Mains
1T4	R.F.	1.5	1.3	60	60	90	90
1R5	Convertor	1.5	1.3	55	55	90	90
1T4	I.F.	1.5	1.3	60	60	90	90
1S5	Det. AVC.	1.5	1.3	7	7	17	17
	1st A.F.	Note: 1S5 H.T. voltage read low because of high value resistors.					
3V4	2nd A.F.	3.0	2.6	90	90	87	87

Output voltage of Rectifier: 192.

Voltage applied to filament chain at pin 7 of 3V4 : A.C. 7.8; Battery 9.

All above voltages for mains operation are taken with 230 volts A.C. 50 c/s. applied, and with mains tapping set to the 230 volt (centre) tapping position.

### Typical Valve Currents.

Milliamps

Mains readings taken with 230 volts input.

Valve	Use	Screen		Plate		Osc. Grid	
		Battery	Mains	Battery	Mains	Battery	Mains
1T4	R.F.	.9	.9	2.3	2.3		
1R5	Convertor	2.75	2.75	1.1	1.15	.2	.21
1T4	I.F.	.45	.5	1.2	1.35		
1S5	Det. AVC.	.02	.02	.12	.12		
	1st A.F.						
3V4	2nd A.F.	.76	1.05	3.7	5.0		

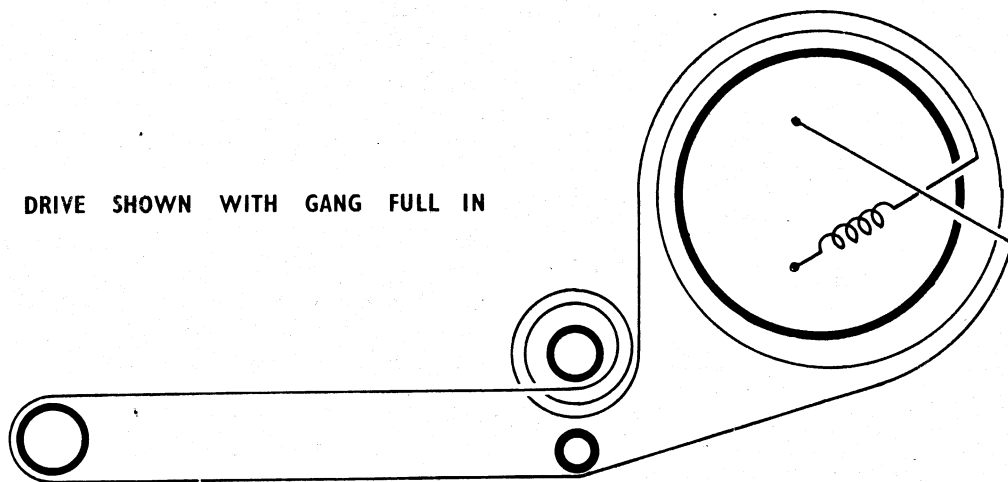
Total H.T. current: Battery=13.3 m/a, Mains=15 m/a.

Total Filament current: Battery=50 m/a, Mains=47 m/a.

# HEALING

## MODEL 500 H — *Continued*

**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.



**Chassis Removal:** Set changeover switch at rear of case to the "Battery" position. Push release knob on top of case hard down with end of pencil while pulling panel outwards. Remove dial (see note), then unscrew countersunk screws on each side of panel. Do not remove screws near the pivot point of the panel. Note: Dial removal applies only to serial numbers 1776 upwards.

**Caution:** The chassis is of standard A.C.-D.C. construction, that is, the chassis is directly connected to one side of the power mains. While the case is closed the receiver is safe, all exposed metal parts being insulated, volume control shaft and dial drive included. As it is necessary to expose the chassis when servicing, due caution should be exercised to ensure that the mains are correctly polarised.

**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.