

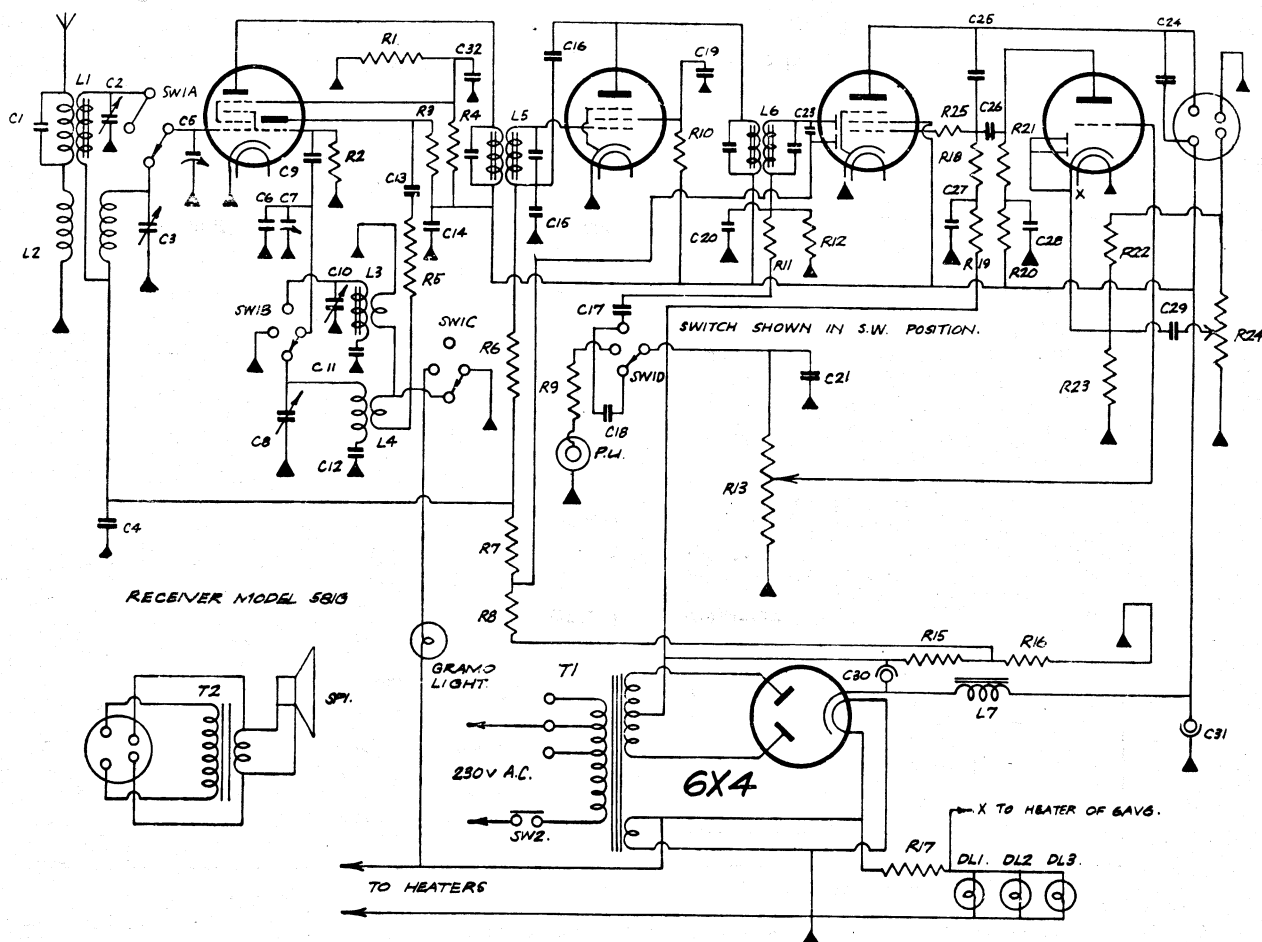
MODEL 581G

6AE8

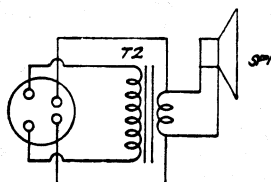
6BA6

6BV7

6AV6



RECEIVER MODEL 581G



Part No.	DESCRIPTION	Part No.	DESCRIPTION
C1, C9, C23	100 pfd. Mica Condenser.	R12	220,000 ohm 1/2 watt Carbon Resistor.
C2, C3, C8, C10	3-30 pfd. Trimmer Condenser.	R13	500,000 ohm Carbon Potentiometer tapped 100,000 ohms Type RL702.
C4, C13, C14, C19, C32	.05 mfd. 400 volt Paper Condenser.	R14, R22, R25	47,000 ohm 1/2 watt Carbon Resistor.
C6	10 pfd. Ceramicon Condenser.	R15	56 ohm 1/2 watt Wire Wound Resistor, 10 per cent. tolerance.
C5, C7	12-450 pfd. Variable Condenser, 2 gang.	R16	39 ohm 1/2 watt Wire Wound Resistor, 10 per cent. tolerance.
C11	430 pfd. Silvered Mica Condenser, 2 1/2 per cent. tolerance.	R17	1 ohm 3 watt Wire Wound Resistor.
C12	.005 mfd. Mica Condenser.	R18	470,000 ohm 1/2 watt Carbon Resistor.
C15	.01 mfd. 600 volt Paper Condenser.	R21	220,000 ohm 1 watt Carbon Resistor.
C16	5 PF Neutralising Condenser.	R23	2,200 ohm 1/2 watt Carbon Resistor.
C17, C26, C29	.02 mfd. 600 volt Paper Condenser.	R24	50,000 ohm Linear Potentiometer, Type RL703.
C18	.001 mfd. 600 volt Paper Condenser.	L1	Aerial Coil (B'cast), Type RJ85.
C20, C21	200 pfd. Mica Condenser.	L2	Aerial Coil (S.W.) Type RJ88.
C22, C24	.005 mfd. 600 volt Paper Condenser.	L3	Oscillator Coil (B'cast) Type RJ87.
C25	25 pfd. Mica Condenser.	L4	Oscillator Coil (S.W.) Type RJ89.
C27	0.1 mfd. 200 volt Paper Condenser.	L5, L6	I.F. Transformer, Type RJ83
C28	0.25 mfd. 400 volt Paper Condenser.	L7	Power Choke, Type 14/60.
C30	24 mfd. 525 PV Electrolytic Condenser.	T1	Power Transformer, Type RK41, 200, 230 250 volts. Secondary 272-0-272 volts @ 60 M.A., 6.3 volts @ 3 amps.
C31	16 mfd. 350 PV Electrolytic Condenser.	T2	Speaker Transformer, Type CBG64, 7000 ohms.
R1	33,000 ohm 1 watt Carbon Resistor.	SP1	Rola Speaker, Type 12M.
R2	33,000 ohm 1/2 watt Carbon Resistor.	DL1,	Dial Lamp, 6.3 volts, 0.3 amps.
R3, R4	33,000 ohm 2 watt Carbon Resistor.	DL2, DL3	6 volt, 3 watt SBC Double Contact.
R5	470 ohm 1/2 watt Carbon Resistor.	SW1A, B, C, D.	Wave Change Switch, Type RL698.
R6, R9, R11, R19, R20	100,000 ohm 1/2 watt Carbon Resistor.	SW2	S.P.S.T. Switch on back of 50,000 ohm potentiometer.
R7, R8	1 megohm 1/2 watt Carbon Resistor.		
R10	100,000 ohm 1 watt Carbon Resistor.		

Service Data for the Healing Receiver

MODEL 581G

Power Supply: 200-250 volts A.C. 50 cycle.

Power Consumption: 46 watts.

Frequency Range: B/C 540-1630 Kc/s
S/W, 6-18 Mc/s.

Speaker Transformer Impedance: 7000 ohms.

Dial Lights: 6.3 volt 0.3 amps.

Gramo Light: 6/8 volt 3 watt S.B.C. double contact.

D.C. RESISTANCE OF R.F. COILS			
Coil	Type	Primary	Sec. Ohms
		Ohms	
Aerial B/C.	RJ85	24	3.2
Osc. B/C.	RJ87	0.1	1.9
1st I.F.	RJ83	8.5	8.5
2nd I.F.	RJ83	8.5	8.5
Negligible resistance in S/W coils			

Typical Working Voltages.

D.C. voltages measured to chassis with no signal input.

Bias across R.16 = 2.2 volt.

Bias across R.15 and R.16 = 5.3 volts.

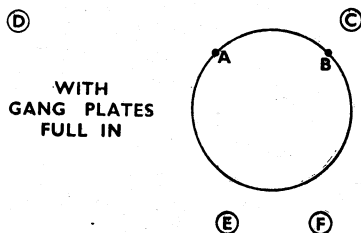
Valve	Use	10V.	1000 OHM PER VOLT D.C. METER SCALES.			
		A.C. Filament	50 V. Cathode	500 V. Screen	500 V. Plate	500 V. Osc. Plate
6AE8	Converter	6.1	0	90	250	105
6BA6	I.F.	6.1	0	80	250	-
6AV6	1st A.F.	5.0	0.8	-	60	-
6BV7	Det. A.V.C. 2nd AF.	6.1	0	250	235	-
6X4	Rectifier	6.1	280 volt D.C. input to filter.			

TYPICAL CURRENTS.

Milliamps.

Valve	Use	Cathode	Screen	Plate	Osc. Plate	Osc. Grid
6AE8	Converter	10.0	2.5	2.1	5.1	0.37
6BA6	I.F.	6.6	1.8	4.8	-	-
6AV6	1st A.F.	0.5	-	0.5	-	-
6BV7	Det. AVC. 2nd A.F.	37.0	4.5	32.5	-	-
6X4	Rectifier	57.5	-	-	-	-

DIAL CORD ARRANGEMENT:



1st dial cord (dial drive): Anchor cord at B and bring out hole A, around drum $1\frac{1}{4}$ turns anticlockwise, around pulley F $2\frac{2}{3}$ of a turn clockwise, around drive spool E 2 turns clockwise around drum anti clockwise to point B and through to spring.

2nd dial cord (pointer drive): Anchor cord at point B, around drum almost 1 turn clockwise, around pulley C, around pulley D, around dial drum clockwise to point A, and through to spring. Anchor spring at point B.

Dial Adjustment: To correctly position pointer, turn gang full in, and set pointer directly behind a dot near station 2CR.

Alignment: Use standard procedure. Trimmers and slugs to be adjusted at 600 Kc/s, 1400 Kc/s, 7 Mc/s and 17 Mc/s.

Position of trimmers: Trimmers are located directly under gang.