

# Service Data for the Healing Receiver

## MODEL 502C

Power Supply—200 to 260 Volts AC or D.C.

Power Consumption—50 Watts.

Frequency Range—540-1620 Kc/s.

Intermediate Frequency—455 Kc/s.

Speaker Transformer Impedance — 3,000 ohms.

Dial Lights—6 volt, .15 amp.

D.C. Resistance of R.F. Coils.			
Coil	Type	Primary Ohms	Secondary Ohms
Aerial . . .	RJ11	50	3.5
Osc. . . . .	RJ60	2.1	—
1st I.F. . . .	RJ49C	7.0	7.0
2nd I.F. . . .	RJ49C	7.0	7.0

### Typical Working Voltages.

D.C. measured to chassis, aerial disconnected and no signal input.

Valve	Use	AC Heater	1,000 Ohms per volt D.C. Meter Scales.		
			50V. Cathode	250V. Screen	250V. Plate
12SA7GT	Osc. Mod.	12.6	—	96	173
12SK7GT	I.F.	12.6	2.5	96	173
12SQ7GT	Det. AVC	12.6	—	—	57
50L6GT	1st A.F.	50	6	96	225
	2nd A.F.				
35Z5GT	Rectifier	35	242 Volts at input to filter.		

### Typical Valve Currents.

Milliamps.

Valve	Use	Cathode	Screen	Plate	Osc. Grid.
12SA7GT	Osc. Mod.	10.1	7.6	2.0	.45
12SK7GT	I.F.	7.8	1.65	6.25	
12SQ7GT	Det. AVC.	.3		.3	
50L6GT	1st A.F.	43	.8	42.2	
	2nd A.F.				
35Z5GT	Rectifier	Total current 61 m/a.			

**Dial Adjustment:** If the dial pointer is indicating incorrectly on the stations the trouble may usually be rectified by tuning to one extremity of the dial movement and then to the other. This allows the slider to make contact with two stops on the slider bar. These stops have been adjusted in the factory, so that they correspond exactly with full in/out positions of the gang. Under normal conditions the stops should not require resetting; however, if adjustment is necessary the gang should be fully meshed and the needle set to the line located above and to the left of the .55 Mc/s marking and the stops reset. Refer to page 257 for details of dial drive mechanism.

**Alignment:** Refer to page 255 for alignment-procedure. Unless a new oscillator coil has been fitted, its slug should not be altered.

### Trimmer Positions.—

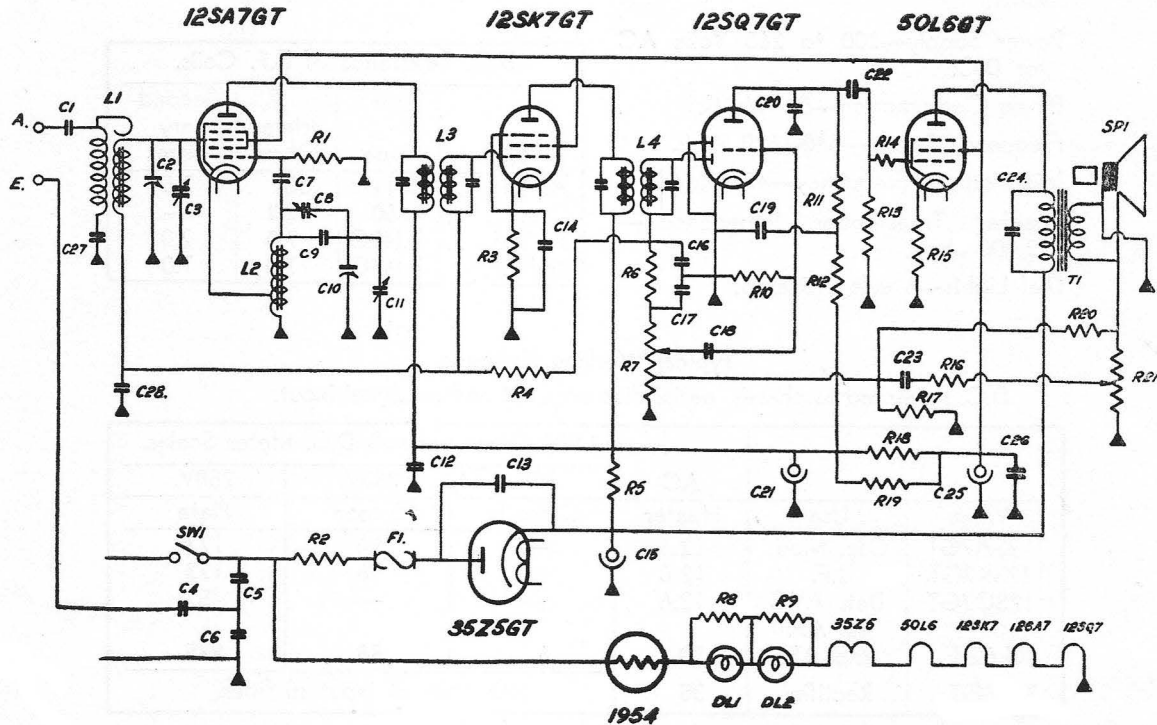
Aerial Trimmer: At rear of gang.

Osc. Trimmer: Underneath chassis nearest the back.

Osc. Padder: Underneath chassis furthest from back.

# HEALING

## MODEL 502 C—Continued



### COMPONENTS LIST

Circuit Reference No.	DESCRIPTION	Circuit Reference No.	DESCRIPTION
C1, C4, C5, C6, C22, C27	0.02 uF 600 volt Paper Condenser.	R7	500,000 ohm Carbon Potentiometer, Type RL 360.
C2, C10	Variable Condenser, 15 pF to 400 pF.	R10	10 megohm 1 watt Carbon Resistor, 10% tol.
C3	Trimmer Condenser, Type TC2A.	R11	250,000 ohms 1 watt Carbon Resistor, 10% tol.
C7	50 pF 400 volt Mica Condenser.	R12	100,000 ohms ½ watt Carbon Resistor, 10% tol.
C8, C11	Trimmer Condensers, Type 4128/1.	R13	0.5 megohm ½ watt Carbon Resistor, 10% tol.
C9	.00045 uF 400 volt Silvered Mica Condenser, 2½% tol.	R14	10,000 ohms ½ watt Carbon Resistor, 10% tol.
C12, C26, C28	0.05 uF 400 volt Paper Condenser.	R15	150 ohms 1 watt Wire Wound Resistor, 10% tol.
C13	0.01 uF 600 volt Paper Condenser.	R16	1,000 ohms ½ watt Carbon Resistor, 10% tol.
C14	0.1 uF 200 volt Paper Condenser.	R17	1,500 ohms ½ watt Carbon Resistor, 10% tol.
C15	32 uF 525 peak volts Electrolytic Condenser.	R18, R19	15,000 ohms 1 watt Carbon Resistor, 10% tol.
C16, C17	0.0001 uF 400 volt Mica Condenser.	R20	15,000 ohms ½ watt Carbon Resistor, 10% tol.
C18	0.01 uF 600 volt Mica Condenser.	R21	50,000 ohms Carbon Potentiometer, Type RL 351.
C19	0.1 uF 400 volt Paper Condenser.	L1	Aerial Coil Type, RJ11.
C20	0.0002 uF 400 volt Mica Condenser.	L2	Oscillator Coil, Type RJ60.
C21	16 uF 525 volt Electrolytic Condenser.	L3, L4	I.F. Transformer, Type RJ49C.
C23	0.05 uF 200 volt Paper Condenser.	DL1, DL2	Dial Light, 6 volts 0.15 amp.
C24	0.005 uF 600 volt Paper Condenser.	F1	½ amp. Fuse.
C25	8 uF 525 volt Electrolytic Condenser.	SP1	Permagnetic Speaker, Type 8K.
R1	20,000 ohm ½ watt Carbon Resistor.	SW1	Semi-rotary Switch, 240 volt 2 amp.
R2, R8, R9	100 ohm 5 watt Wire Wound Resistor, 10% tol.	T1	Speaker Transformer, Z = 3,000 ohms.
R3	350 ohm 1 watt Wire Wound Resistor, 10% tol.		
R4	2 megohm ½ watt Carbon Resistor.		
R5	4,000 ohm 1 watt Carbon Resistor, 10% tol.		
R6	50,000 ohm ½ watt Carbon Resistor, 10% tol.		