

# SERVICE DATA FOR HEALING RADIO

## RECEIVER MODEL 65E

SUPER-HETERODYNE WITH A.V.C.

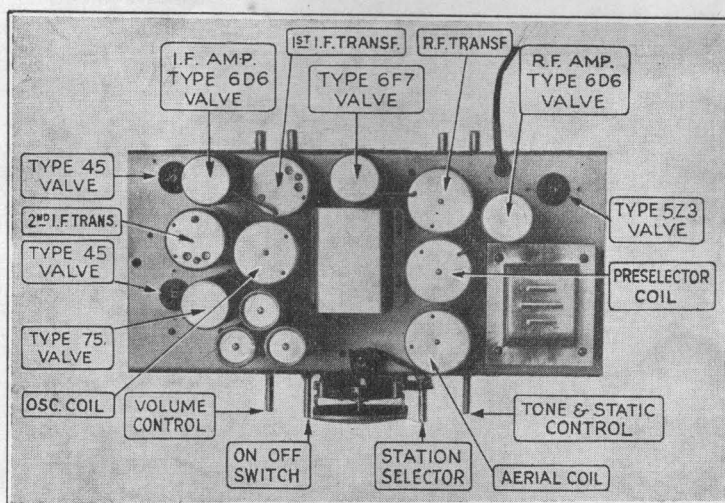


Diagram showing Chassis layout

### VALVES:—

6D6 R.F. Amplifier

6F7 Oscillator Modulator

6D6 I.F. Amplifier

75 Diode Demodulator & A.F. Amplifier

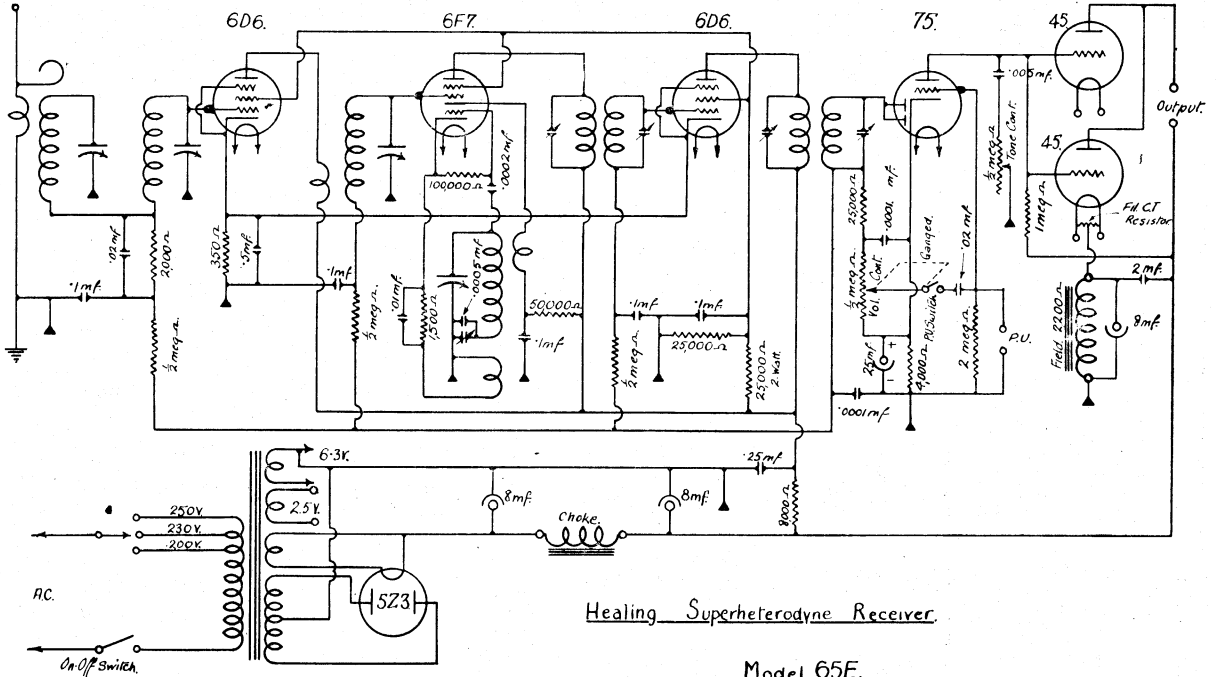
45 } Parallel Power Output

5Z3 Full Wave Rectifier

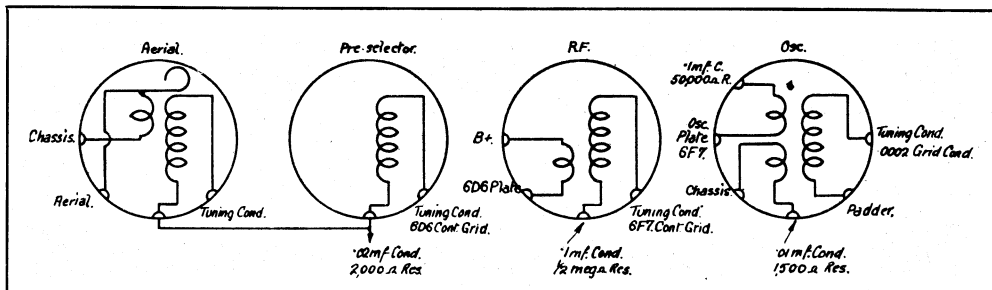
PILOT LAMP:—6.3V .5 Amp.

# HEALING

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Circuit Diagram of Model 65E.



Coil Winding Connections Viewed from Inside of Chassis.

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### VOLTAGE ADJUSTMENT.

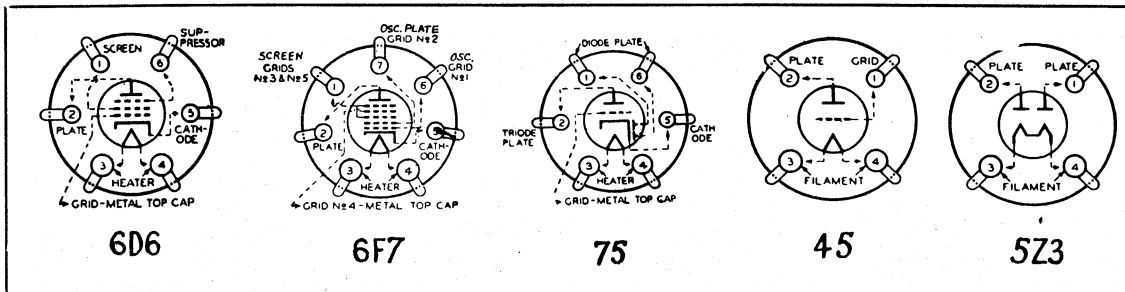
Before leaving the factory the switch located behind the danger plate is set at 230 volts, and should the supply voltage differ the necessary readjustment must be made.

### CAUTION.

Disconnect the power plug from the supply outlet before making any adjustment to the receiver assembly.

### VALVES.

Make sure the valves are in good condition, of the correct type, and are properly fitted into the correct sockets before operation.



Valve Connections Viewed from Bottom of Socket.

### VALVE VOLTAGES.

Valves.	Filament.	Cathode.	Screen.	Plate.	Osc. Plate.
6D6 R.F.	6 A.C.	3.5 (A)	80 (C)	225 (C)	85 (C)
6F7	6 A.C.	7 (A)	80 (C)	225 (C)	
6D6 I.F.	6 A.C.	3.5 (A)	80 (C)	225 (C)	
75	6 A.C.	.8 (A)		50 (C)	
45	2.35 A.C.	Plate to Filaments		{ 220 (C)	
45	2.35 A.C.		{ 220 (C)		
5Z3	4.75 A.C.				

Speaker field voltage drop, 150 V. (C).

Smoothing Choke voltage drop, 30 V. (C).

High tension to Filaments of parallel 45's, 240 V. (C).

All voltages measured with the aerial disconnected and the receiver off station.

All the voltages given above are those indicated when using a 1000 ohm per volt meter.

Scales: 0—10 (A)—50 (B)—250 (C)—750 (D) volts.

Meters of different resistance will not indicate similar readings at the points measured.

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### **SPEAKER.**

The electro-dynamic Speaker is matched to the power valves, and has a field resistance of 2200 ohms. The voltage drop across the field is shown below the valve table.

The field is connected across the cathode and plate pins of the five-pin plug, and the input to the transformer is connected to the heater pins. Make sure the plug is connected to the receiver before operation.

### **OPERATION.**

See Model 65E operating instructions under "Tuning."

### **LINING.**

The I.F. is 175 K.C. The condenser unit trimmers from the control end are:—

- Aerial trimmer.
- Pre-selector trimmer.
- Oscillator trimmer.
- R.F. trimmer.

See "General Service Notes" for lining method.

### **AUDIO AMPLIFIER.**

Reference to the circuit diagram will show that the 75 is direct coupled to the 45's, which are in parallel. In this arrangement the plate and cathode resistors of the 75 are comparatively critical, and the values shown should not be varied. Variation will result in unbalance of the circuit, which may be detrimental to the associated valves. At all operating times the three valves must be in the circuit.

### **DIAL.**

See "General Service Notes."

Read carefully the instructions for installation and operation of the Model 65E.

### **POSSIBLE FAULTS.**

See "General Service Notes."