

# SERVICE DATA FOR HEALING RADIO

## RECEIVER MODEL 35E

REFLEX SUPER-HETERODYNE

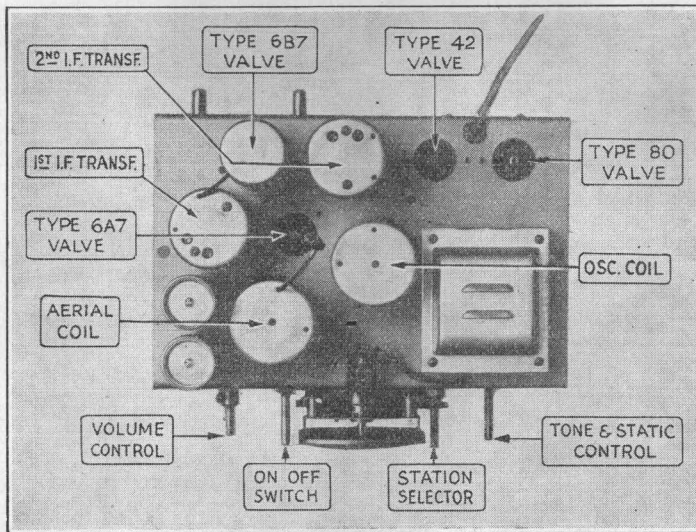


Diagram showing Chassis layout

### VALVES:—

6A7 Pentagrid Converter

6B7 Reflex Amplifier and Demodulator

42 Power Pentode

80 Full Wave Rectifier

PILOT LAMP:—6.3 V. .5 Amp.



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### VOLTAGE ADJUSTMENT.

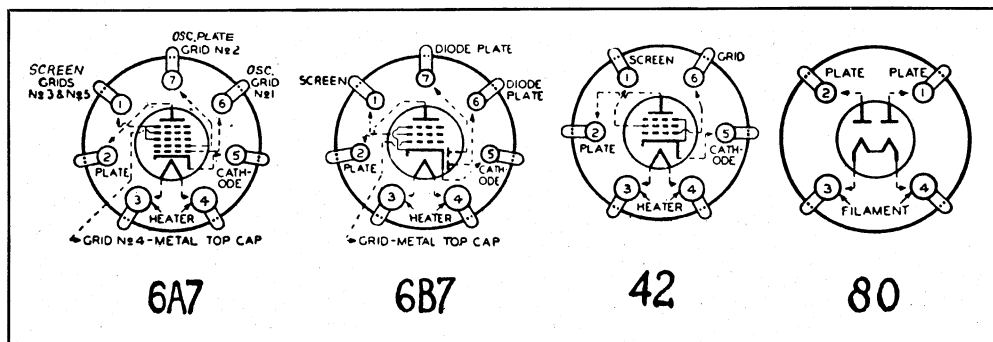
Before leaving the factory, the switch located behind the danger plate is set at 230 volts, and should the supply voltage differ, the necessary readjustment must be made.

### 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.	Ocs. Plate
6A7	6.2 A.C.	2.5 (B)	85 (C)	230 (C)	170 (C)
		32 (B)	110 (C)	240 (C)	170 (C)
6B7	6.2 A.C.	2 (B)	35 (C)	106 (C)	
		3.5 (B)	60 (C)	70 (C)	
42	6.2 A.C.	14 (B)	230 (C)	212 (C)	
		15 (B)	242 (C)	220 (C)	
80	4.8 A.C.				

Speaker field voltage drop—125 V. (C) Full on.

All voltages shown above the line, with volume control full on.

All voltages shown below the line, with volume control right off.

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 valve, and has a field resistance of 2500 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 35E operating instructions under "Tuning."

This receiver does not include A.V.C., and the manual control must be adjusted with care.

### **LINING.**

The Condenser unit trimmers from the control end are:—

Aerial Trimmer.

Oscillator Trimmer.

The I.F. is 465 K.C. The output from a suitable oscillator should be fed to the control grid of the 6A7 through a small fixed condenser of about .00025 Mfd. capacity, and the four I.F. trimmers adjusted until they are peaked. It may be necessary to repeat the operation several times to obtain the best adjustment.

Next, couple the test oscillator to the aerial circuit, select a signal of 1400 K.C., and adjust the gang trimmers for maximum output. Change the oscillator frequency to 600 K.C. and adjust the padder for maximum output. Repeat the operation until no further improvement can be made at either end of the band.

For fuller lining instruction see "General Service Notes."

### **DIAL.**

See "General Service Notes."

Read carefully the instructions for installation and operation of the Model 35E.

### **POSSIBLE FAULTS.**

See "General Service Notes."