

SERVICE DATA FOR HEALING RADIO

RECEIVER MODEL 55C

AC-DC SUPER-HETERODYNE WITH A.V.C.

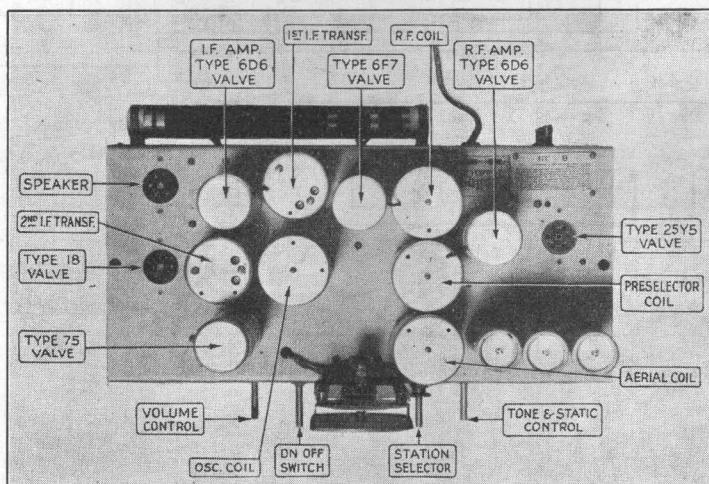


Diagram showing Chassis layout

VALVES:—

6D6 R.F. Amplifier	6F7 Oscillator Modulator
6D6 I.F. Amplifier	75 Diode Demodulator & A.F. Amplifier
18 Power Pentode	25Y5 Half Wave Rectifier

PILOT LAMP:—

3.5 V. .15 Amp.

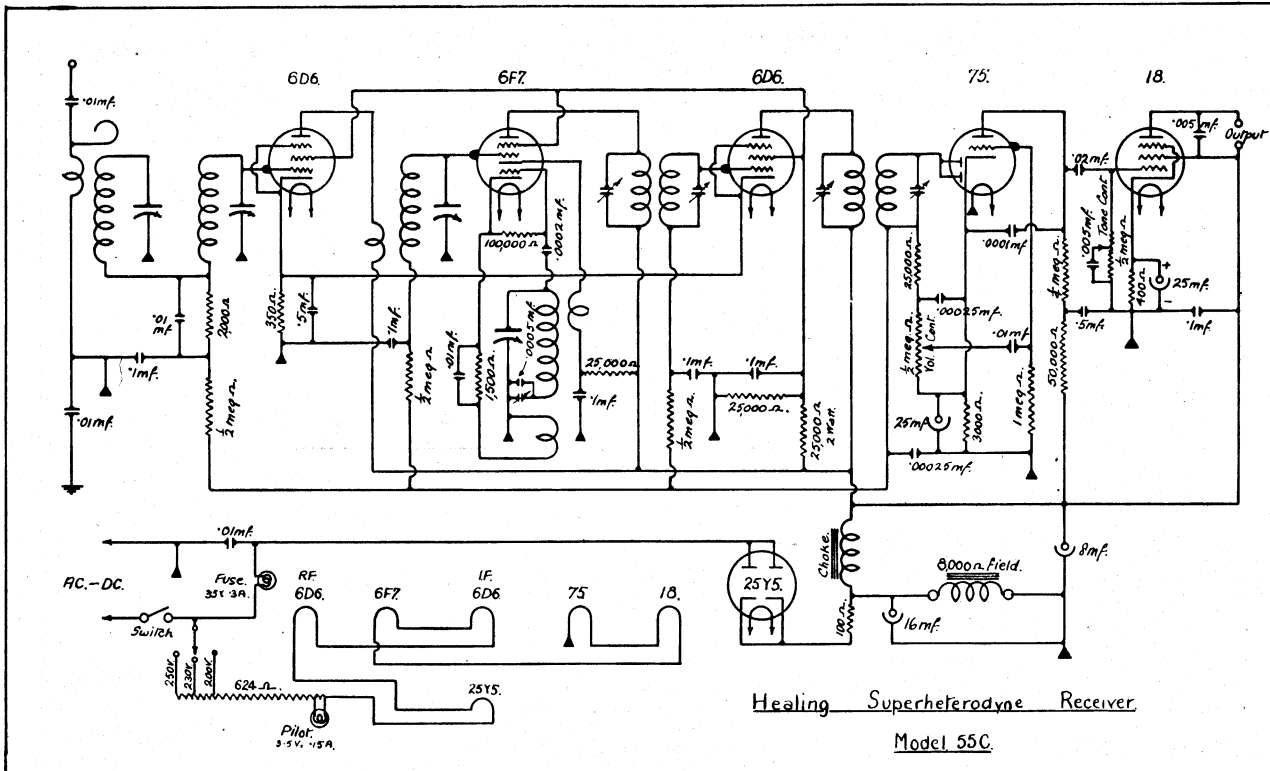
FUSE:—

3.5 V. .3 Amp.

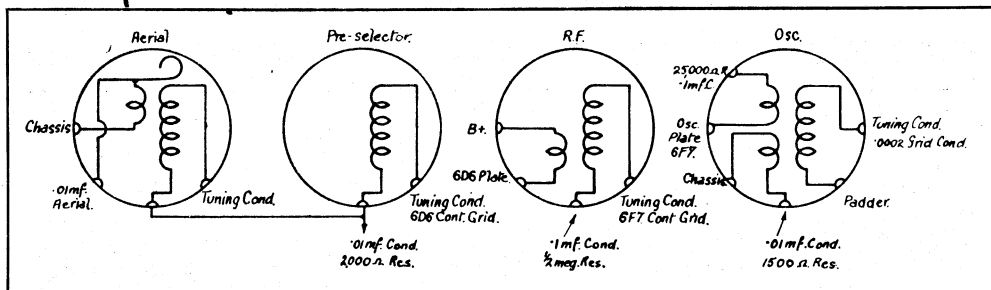
Miniature Lamps

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Circuit Diagram of Model 55C.



Coil Winding Connections Viewed from Inside of Chassis.

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VOLTAGE ADJUSTMENT.

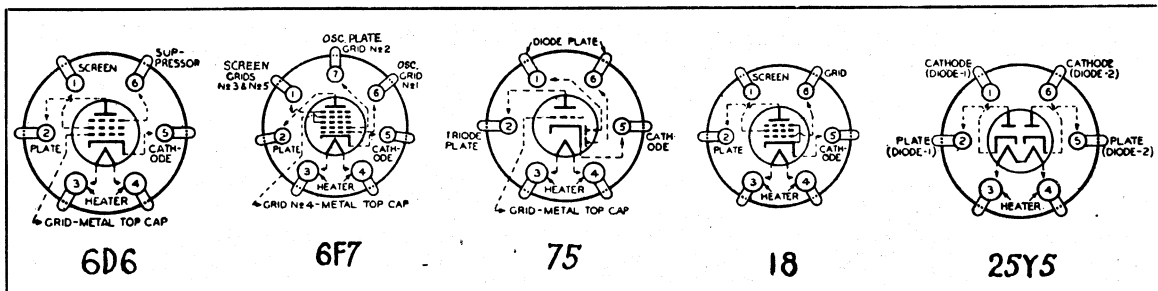
Before leaving the factory the switch located behind the danger plate is set at 230 volts, and should the supply voltage differ the necessary readjustment must be made.

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: Receiver operating on A.C. 230 volts.

Valves.	Cathode.	Screen.	Plate.	Osc. Plate.
6D6 R.F.	5 (A)	95 (C)	182 (C)	106 (C)
6F7	8 (A)	95 (C)	182 (C)	
6D6 I.F.	5 (A)	95 (C)	182 (C)	
75	1.0 (A)		116 (C)	
18	11 (B)	182 (C)	165 (C)	
25Y5	205 (C)			

Voltage drop from 25Y5 cathode to smoothing choke output, 25 (B).
Speaker field voltage drop, 196 (C).

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

Receiver Operating on D.C. 230 Volts.

Valves.	Filament.	Cathode.	Screen.	Plate.	Osc. Plate.
6D6 R.F.	6.1 (B)	5 (A)	95 (C)	185 (C)	106 (C)
6F7	7 (B)	8 (A)	95 (C)	185 (C)	
6D6 I.F.	6.1 (B)	5 (A)	95 (C)	185 (C)	
75	6.2 (B)	1.0 (A)		116 (C)	
18	14.5 (B)	11 (B)	182 (C)	165 (C)	
25Y5	21.5 (B)	214 (C)			

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Speaker field voltage drop, 206 (C).

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

All the voltages given 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.

SPEAKER.

The electro-dynamic Speaker is matched to the power valve, and has a field resistance of 8000 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 across the heater pins. Make sure the plug is connected to the receiver before operation.

OPERATION.

See Model 55C 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.

SPECIAL WARNING.

All the control shafts and the dial scale assembly are insulated from the main chassis, which at certain times may be at a dangerous potential. When testing the chassis extra care should be exercised, as accidental contact between earth and the chassis, or individual circuit points and the chassis, may result in a serious shock.

When testing on an A.C. supply it is advisable to test from the chassis to earth with an indicating lamp or meter, and connect the plug in the position showing no potential difference between these points. This cannot always be done with D.C., as the receiver will only work one way, and the line may not be earthed on the negative pole.

DIAL.

See "General Service Notes."

Read carefully the instructions for installation and operation of the Model 55C.

POSSIBLE FAULTS.

See "General Service Notes."