

Service Data for the Healing Receivers

MODELS 499E, A449E and A499E

Power Supply—200 to 250 volts A.C., 50 cycles.

Frequency Range—550-1,620 kilocycles, 7,890 to 24,000 kilocycles.

Intermediate Frequency—455 kilocycles.

Speaker Field—2,000 ohms.

Speaker Transformer Impedance—5,500 ohms.

Dial Lights—6 volt .5 amp.

Typical Valve Voltages (measured to chassis)—

		1,000 ohms per volt D.C. meter scales.				
		A.C.				
Valve	Use	Filament	50 V.	250 V.	250 V.	250 V.
			Cathode	Screen	Plate	Osc. Plate
EK2G	Osc. Mod.	6.2	4.5	45	230	} 190 on B.C. 100 on P.B.
6U7G	1st I.F.	6.2	4.5	45	230	
6B8G	Det. A.V.C. 2nd I.F., 1st A.F.	6.2		55	55	
6V6G	2nd A.F.	6.2	11	230	220	
80	Rectifier	4.9				

Voltage Across Speaker Field—130 volts.

Voltage measurements taken with aerial disconnected and no signal input. Switch on broadcast position, except where noted.

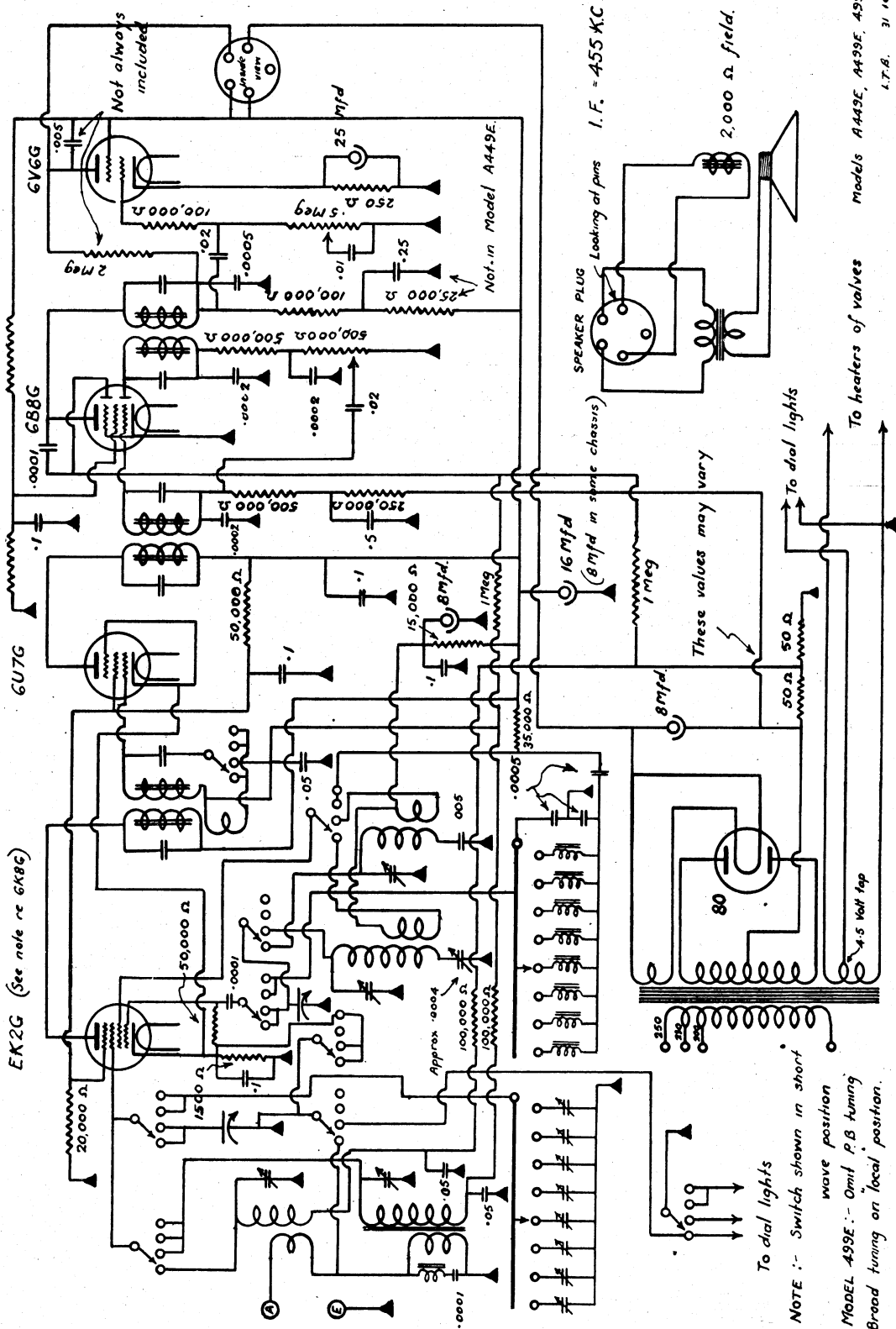
See pages 153 and 117 for alignment procedure.

Trimmers.—In the Models A449E and A499E the aerial trimmers are nearest the back of the chassis, whilst in the Model 499E, they are nearer the front. The short-wave trimmers may be easily identified because of their connection to the enamelled wire on the short-wave coils.

Special Note re 6K8G Valve.—In some chasses this valve was used as the oscillator instead of the EK2G, with a slightly different circuit. The 6K8G screen and oscillator plate inputs were fed from the high tension through a 15,000 ohm resistor, giving a voltage of approximately 100. The screen of the 6U7G I.F. valve was also run at about 100 volts, being fed from the high tension through 50,000 ohms, with 40,000 ohms to earth. The remaining difference between the two arrangements is that A.V.C. was applied to the 6K8G on short-waves, the grid return of the short-wave coil being made to the same point as the broadcast grid return.

The Model 499E differs from the A449E and A499E in that push-button tuning is not included. The wave change switch has three positions: short-wave, broadcast, and broadcast local. In this latter position the sensitivity is reduced by means of a 1,500 ohm resistor in the EK2G and 6U7G cathodes and the first I.F. is broadened.

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To dial lights

NOTE :- Switch shown in short wave position

To dial lights

To heaters of valves Models A449E, A499E, 499E

To heaters of valves Models A449E, A499E, 499E

Circuit Diagram of Models 499E, A499E, and A449E