

**BEETHOVEN****CONNOISSEUR****Model A.1188**

**General Description :** Nine-valve (including rectifier), eleven-wave-band, superheterodyne receiver with tuned R.F. stage and band-spread tuning on short-wave ranges. The A.1188 A.R.G. is an auto-radiogramophone incorporating the A.1188 chassis.

**Power Supply :** A.C. mains, 105-120 and 205-250 volts, 40-100 c/s.

**Wavebands :** *Either* M.W. 200-550 m.; S.W. 11, 13, 16, 19, 25, 31, 40, 50, 60 and 90 m. bands.

*Or* M.W. 200-550 m.; L.W. 1000-2000 m.; S.W. 7, 13, 16, 19, 25, 31, 40, 50 and 60 m. bands.

**Intermediate Frequency :** 465 kc/s.

**Valves :** (V1) EF50; (V2) ECH35; (V3) EF39; (V4) EBC33; (V5) EBC33; (V6) EL33; (V7) EL33; (V8) 5Z4G; (V9) EM34 (tuning indicator).

**Audio Output :** 7 watts.

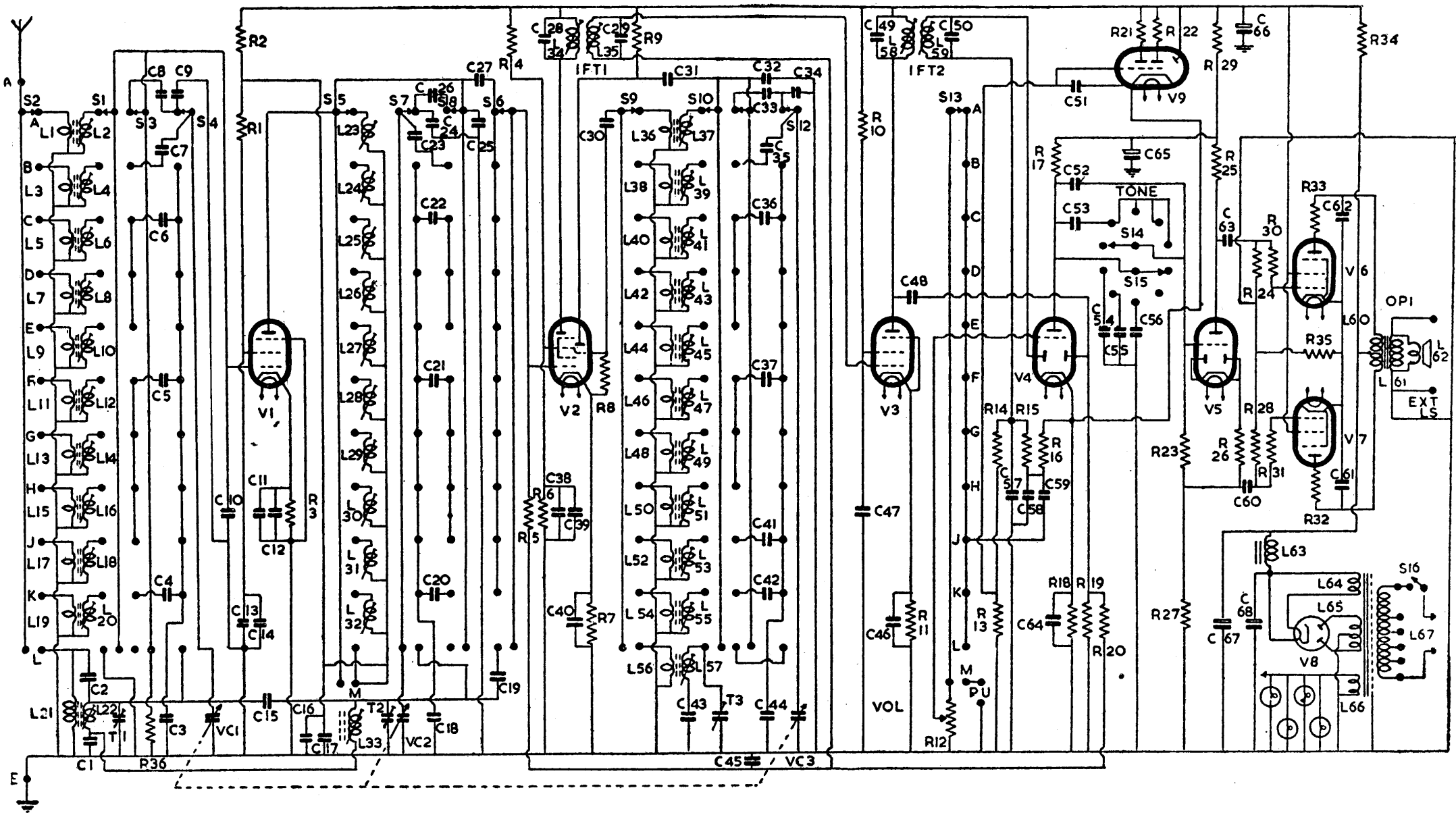
**Alignment Procedure :**

<i>Apply Signals as Stated Below</i>	<i>Tune Receiver to</i>	<i>Trim in Order Stated for Max. Output</i>
(1) 465 kc/s. to fixed plates of VC2 via 0.01	M.W. 550 m.	Core L59, L58, L35, L34
(2) 600 kc/s. to AE socket via dummy aerial	500 m.	Core L57, L33, L22
(3) 1.4 Mc/s. as above	214 m.	T3, T2, T1 and repeat (2) and (3)
(4) S.W. Bands	—	—

Alignment of the bandspread ranges should be effected with great care, as the normal signal generator is not accurate enough for satisfactory adjustment. Alignment in the factory is effected with crystal-controlled apparatus. Should any adjustment be necessary, the receiver should be tuned to a station of known frequency and the oscillator, R.F. and aerial inductances adjusted in that order for maximum output.

**Component Values :**

<i>Capacitors.</i>	C27 100 pF.	C54 0.005	R10 100k $\frac{1}{4}$ W.	<i>Inductors (Ohms).</i>
C1 0.02	C28 100 pF.	C55 0.002	R11 270 $\frac{1}{2}$ W.	L1 0.5
C2 5 pF.	C29 100 pF.	C56 0.001	R12 1M Pot.	L2-20 Very low
C3 400 pF.	C30 100 pF.	C57 100 pF.	R13 3M $\frac{1}{4}$ W.	L21 12.5
C4 375 pF.	C31 100 pF.	C58 100 pF.	R14 2M $\frac{1}{4}$ W.	L22 3.0
C5 200 pF.	C32 10 pF.	C59 0.01	R15 47k $\frac{1}{4}$ W.	L23-32 Very low
C6 110 pF.	C33 50 pF.	C60 0.05	R16 470k $\frac{1}{4}$ W.	L33 3.0
C7 70 pF.	C34 200 pF.	C61 0.002	R17 47k $\frac{1}{4}$ W.	L34 7.5
C8 50 pF.	C35 70 pF.	C62 0.002	R18 680 $\frac{1}{4}$ W.	L35 7.5
C9 200 pF.	C36 100 pF.	C63 0.05	R19 1M $\frac{1}{4}$ W.	L36-53 Very low
C10 10 pF.	C37 180 pF.	C64 25 (25 v.)	R20 1M $\frac{1}{4}$ W.	L54 0.6
C11 0.1	C38 0.1	C65 2 (350 v.)	R21 1M $\frac{1}{4}$ W.	L55 Very low
C12 0.005	C39 100 pF.	C66 16 (350 v.)	R22 1M $\frac{1}{4}$ W.	L56 1.0
C13 0.1	C40 0.1	C67 16 (450 v.)	R23 1M $\frac{1}{4}$ W.	L57 2.5
C14 100 pF.	C41 170 pF.	C68 16 (450 v.)	R24 250k $\frac{1}{4}$ W.	L58 7.5
C15 1 pF.	C42 300 pF.		R25 33k $\frac{1}{2}$ W.	L59 5.0
C16 0.01	C43 555 pF.		R26 1k $\frac{1}{4}$ W.	L60 800 Total
C17 0.01	C44 400 pF.		R27 33k $\frac{1}{4}$ W.	L61 0.3
C18 400 pF.	C45 0.1	<i>Resistors.</i>	R28 250k $\frac{1}{4}$ W.	L62 2.5
C19 100 pF.	C46 0.1	R1 1k $\frac{1}{2}$ W.	R29 10k $\frac{1}{2}$ W.	L63 135
C20 375 pF.	C47 0.1	R2 1k $\frac{1}{2}$ W.	R30 47k $\frac{1}{4}$ W.	L64 Very low
C21 200 pF.	C48 10 pF.	R3 180 $\frac{1}{4}$ W.	R31 47k $\frac{1}{4}$ W.	L65 130 Total
C22 110 pF.	C49 100 pF.	R4 33k $\frac{1}{2}$ W.	R32 100 $\frac{1}{4}$ W.	L66 Very low
C23 70 pF.	C50 200 pF.	R5 1M $\frac{1}{4}$ W.	R33 100 $\frac{1}{4}$ W.	L67 9.5 Total
C24 200 pF.	C51 0.1	R6 47k $\frac{1}{2}$ W.	R34 1.2k $\frac{1}{2}$ W.	
C25 10 pF.	C52 0.00025	R7 220 $\frac{1}{4}$ W.	R35 140 1 W.	
C26 50 pF.	C53 0.01	R8 47k $\frac{1}{4}$ W.	R36 1M $\frac{1}{4}$ W.	
		R9 33k $\frac{1}{2}$ W.		



CIRCUIT DIAGRAM—BEETHOVEN CONNOISSEUR MODEL A.1188 AND A.1188 A.R.G.