

EKCO**Models A104, A144, U109, U143**

General Description : Five-valve (including rectifier), three wave-band superheterodyne receiver.

Power Supplies :

Models A104, A144 : A.C. mains, 200-250 volts, 40-100 c/s.

Models U109, U143 : A.C./D.C. mains, 200-250 volts.

Wavebands : S.W. 16-51 m.; M.W. 185-570 m.; L.W. 950-2150 m.

Intermediate Frequency : 460 kc/s.

Valve Analysis :

Model A104 : 225 volts input. Set tuned 1 Mc/s., no-signal conditions.

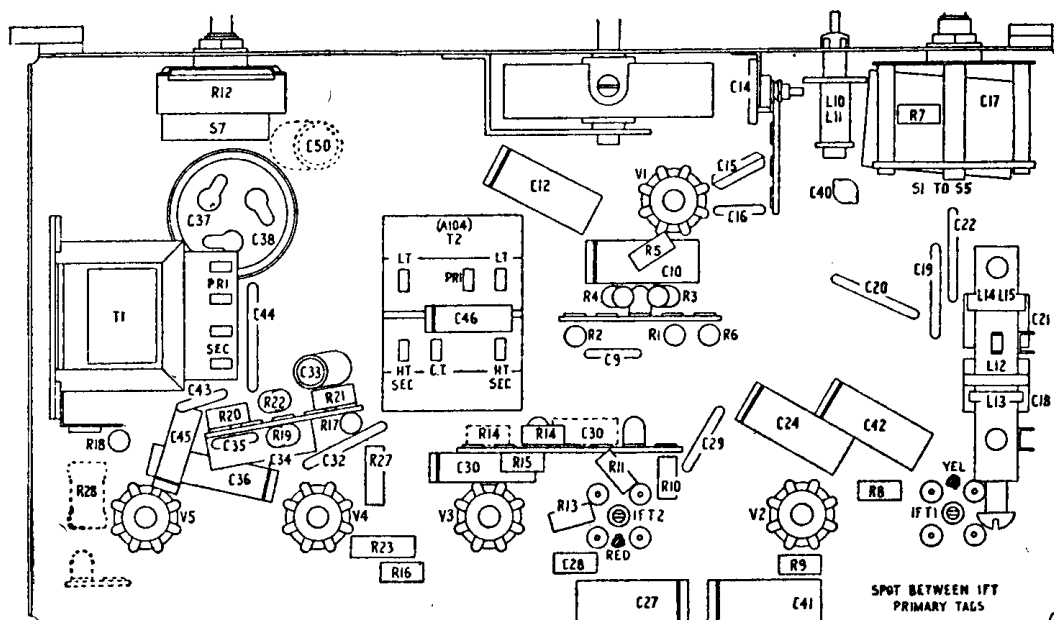
		<i>V_a</i>	<i>I_a</i>	<i>V_{g2}</i>	<i>I_{g2}</i>	<i>V_k</i>	<i>I_k</i>
V ₁	UCH ₄₂	208	1.7	85	2.4	2.6	7.4
V ₁	(osc.)	93	3.3	—	—	—	—
V ₂	UF ₄₁	193	5.2	97	1.6	2.2	6.8
V ₃	UBC ₄₁	121	0.4	—	—	2.2	0.4
V ₄	UL ₄₁	187	49.5	106	7.0	4.6	56.5
V ₅	UY ₄₁	235 A.C.	—	—	—	234	73.5

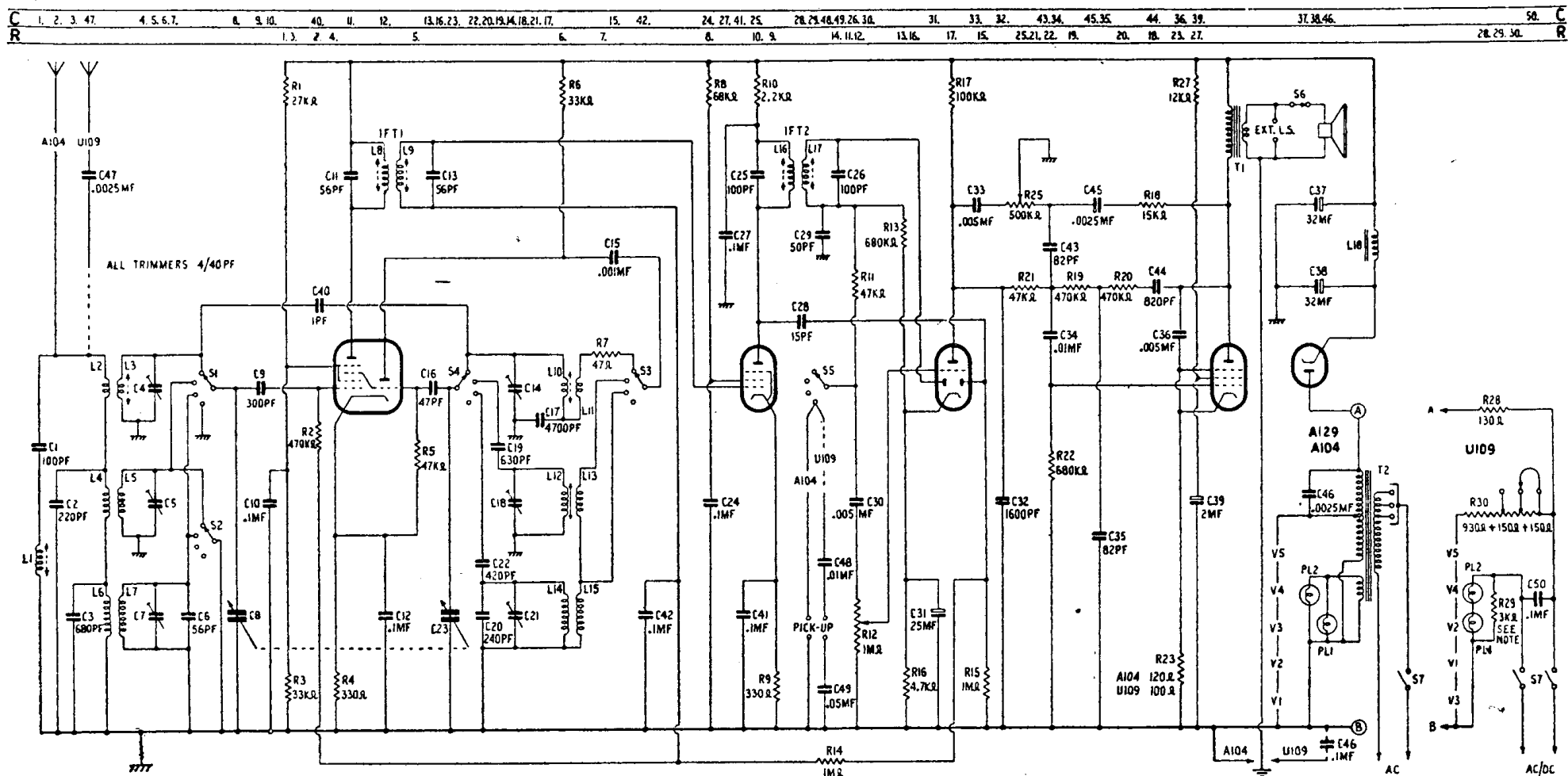
Notes : Pilot lamps on "A" models are rated 6.5 volts, 0.3 amp. and on "U" models 6.2 volts, 0.3 amp. Output on "A" models 2.5 watts, on "U" models 2 watts. External loudspeaker impedance 3 ohms at 400 c/s.

Alignment Summary : With gang fully closed, pointer should coincide with L.F. end of scale. Use conventional procedure, adjusting I.F. filter (L1) for minimum output. Alignment points are as follows :

	<i>Trimming Adjustments</i>	<i>Padding Adjustments</i>
M.W.	1300 kc/s. C18, C5	800 kc/s. L12
L.W.	250 kc/s. C21, C7	150 kc/s. Check calib.
S.W.	15 Mc/s. C14, C4	6.5 Mc/s. L10, L3

UNDER-
CHASSIS
VIEW





The valve heaters are wired in series on all models. On the "U" models, the chassis may be "live". R29 is a thermistor. C14 is not fitted on early U109s.