

# AMBASSADOR

# CORONET

**General Description :** Five-valve (including rectifier), three-waveband table receiver with internal plate aerial.

**Power Supply :** A.C./D.C. mains, 110 and 200-250 volts.

**Wavebands :** Two versions are manufactured : one for L.W., M.W. and S.W.; the other omits the L.W. band and includes an M.S.W. band.

**Intermediate Frequency :** 470 kc/s.

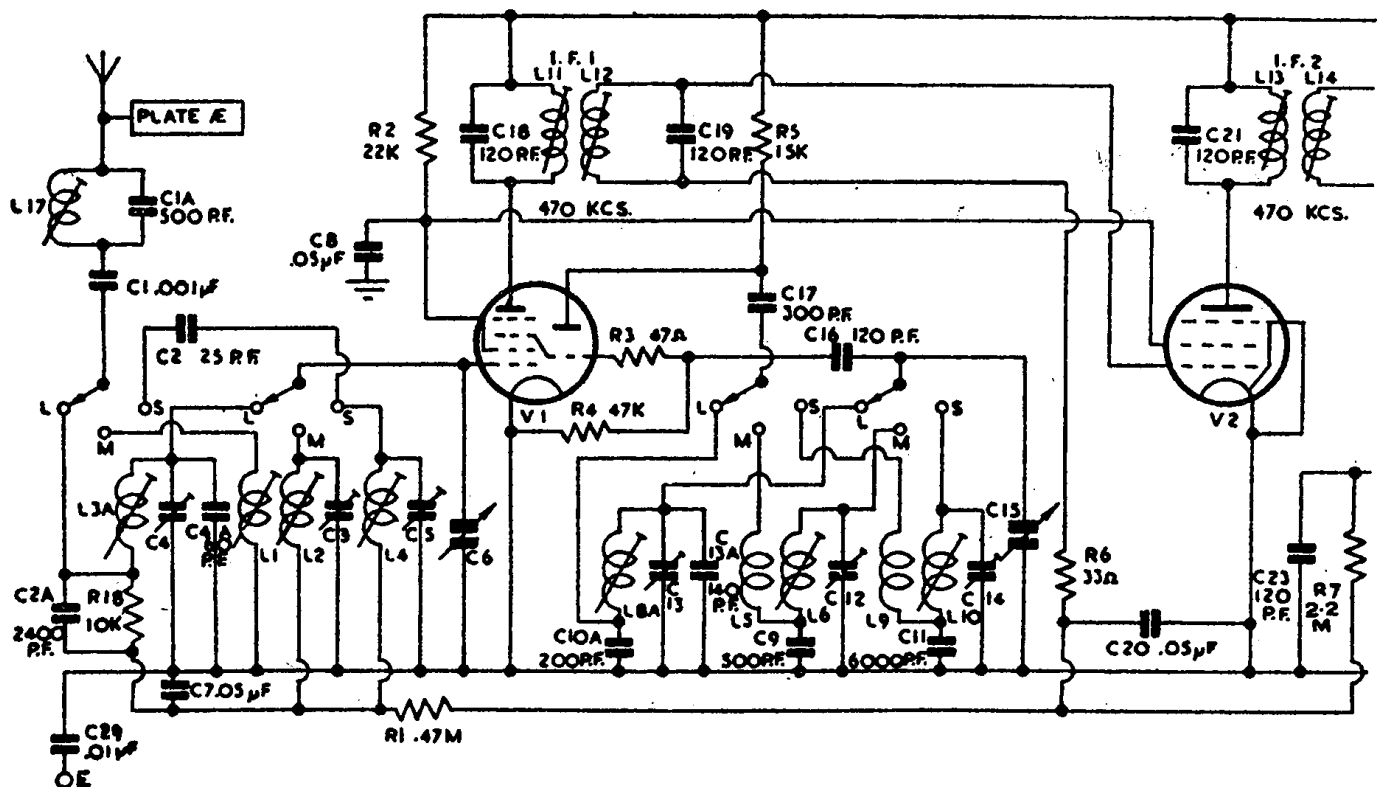
**Valve Analysis :** The figures given below indicate the voltages measured at the valve pins.

Valve	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V1 UCH42	14 A.C.	190	120	—	72	—	—	28 A.C.
V2 UF4I	41 A.C.	190	—	—	70	—	—	28 A.C.
V3 UBC4I	14 A.C.	79	—	—	—	—	—	0
V4 UL4I	86 A.C.	200	9	—	180	—	9	41 A.C.
V5 UY4I	86 A.C.	210 A.C.	—	—	—	—	220	117 A.C.

A 230-volt 5-8 watt pilot lamp is fitted.

**110-volt Operation :** For this voltage, the tap on the ballast resistor is connected to the bottom tag and a shorting link wired across the limiting resistor (R15) situated above the chassis behind the ballast resistor. The pilot lamp must be changed to a 110-volt type.

**Modification :** In later models, the application of A.V.C. to V1 has been changed so as to minimise the effect of modulation hum. An additional 120 pF. capacitor is inserted between the signal grid of V1 and the junction of



CIRCUIT DIAGRAM—

C6 and the wavechange switch. The signal grid is then connected to the A.V.C. line via a 470k resistor. The earthy ends of C2A, R18, L2 and L4 are connected to chassis.

**Alignment Instructions :** The R.F. instructions below refer to the four possible bands, though only three will be found in any particular model.

**I.F. :** Unsolder the white lead from pin 6 of V1. Connect the " earthy " lead from the signal generator to chassis and the " live " generator lead to pin 6 of V1. Set tone control to maximum treble and volume control to maximum and inject a 470-kc/s. signal. Adjust L14, L13, L12 and L11 for maximum output. Remove generator lead from pin 6 and resolder white lead.

**R.F. :** Connect " earthy " end of generator to chassis and " live " lead to aerial. Insert dummy aerial in series with generator leads. If no dummy aerial is available a 200-pF. capacitor should be wired in series with the " live " generator lead. Adjust L17 for minimum output at 470 kc/s.

Band	Set Pointer to	Set Signal Generator to	Adjust for Maximum	
			Osc.	Aerial
L.W.	1800 m. 1200 m.	166.6 kc/s. 250 kc/s.	L8A C13	L3A C4
M.W.	500 m. 200 m.	600 kc/s. 1500 kc/s.	L6 C12	L2 C3
M.S.W.	120 m. 60 m.	2.5 Mc/s. 5 Mc/s.	L8 C13	L3 C4
S.W.	7 Mc/s. 18 Mc/s.	7 Mc/s. 18 Mc/s.	L10 C14	L4 C5

On each band the trimming and padding adjustments should be repeated successively until no interaction is experienced.

