



CIRCUIT ALIGNMENT

Connect signal generator, via a suitable dummy aerial, to A and E sockets. Switch set to MW, and turn the sensitivity control to maximum.

Feed in a 220 m (1,362 KC/S) signal, tune it in, and adjust C9 and C11 in turn for maximum output, keeping C11 in such a position that the receiver is just short of oscillation. It is advisable finally to check the setting of C9, readjusting C11 if necessary, on the aerial with which it is to be used; and after final adjustment, C9 should be sealed with wax.

VALVE ANALYSIS

Valve	Anode Volts	Anode Current (mA)	Screen Volts	Screen Current (mA)
V1 S23*	114	1.5	60	0.75
V2 HL2	50	1.25	—	—
V3 PT2	106	3.75	114	1.25

* Or S21

COMPONENTS AND VALUES

Resistances		Values (ohms)
R1	V2 anode resistance	50,000
R2	V2 grid leak	2,000,000
R3	Sensitivity control, variable ..	50

Condensers		Values (μF)
C1	V1 cont. grid decoupling ..	0.1
C2	V2 grid condenser	0.0002
C3	V2 anode H.F. by-passes	0.0005
C4		0.001
C5	L.F. coupling to T1	0.1
C6	T1 filter condenser	0.0005
C7	T2 primary by-pass	0.002
C8	Aerial circuit tuning	—
C9	Aerial circuit trimmer, pre-set	—
C10	H.F. transformer sec. tuning ..	—
C11	Reaction condenser, variable ..	0.0005

Other Components		Values (ohms)
L1	Aerial coupling coil	10.0
L2	Aerial tuning coils	2.5
L3		15.5
L4	H.F. transformer pri. coils	6.0
L5		9.0
L6	Reaction coils	4.0
L7		4.0
L8	H.F. transformer sec. coils	2.5
L9		13.5
L10	V2 anode H.F. choke	95.0
L11	T1 filter choke	—
L12	Speaker speech coil	4.0
T1	Intervale trans.	1500.0*
T2	Speaker input trans.	4350.0*
S1-S3	Waveband switches, ganged ..	1.0
S4	H.T. switch	—
S5	L.T. switch	—