

EVER READY - PERSONAL

CAPACITORS		Values (μ F)	Loca- tion
C1	V1 pent. C.G. ...	0.0001	D7
C2	A.V.C. decoupling ...	0.1	D6
C3	1st I.F. transformer {	0.0001	A2
C4		0.0001	A2
C5	V1 osc. C.G. ...	0.0001	D6
C6	H.T. R.F. by-pass ...	0.1	B1
C7	M.W. fixed trim. ...	0.000015	G7
C8	M.W. tracker ...	0.00043	E7
C9	V2 S.G. decoup. ...	0.1	F5
C10	2nd I.F. transformer {	0.0001	C2
C11		0.0001	C2
C12	I.F. by-pass ...	0.0001	H6
C13	A.F. coupling ...	0.005	H6
C14	V3 S.G. decoup. ...	0.1	H7
C15	I.F. by-pass ...	0.0001	H7
C16	A.F. coupling ...	0.01	H7
C17*	G.B. by-pass ...	20.0	C1
C18	Tone corrector ...	0.005	B1
C19*	H.T. reservoir ...	2.0	A1
C20†	Aerial M.W. trim. ...	—	F7
C21†	Aerial tuning ...	0.00037§	F6
C22†	Osc. tuning ...	0.00037§	F6
C23†	Osc. M.W. trim ...	—	F7

* Electrolytic. † Variable. ‡ Pre-set.

Intermediate frequency 465 kc/s.

§ Swing value, min. to max. ¶ Two 47,000 Ω in series.

RESISTORS		Values (ohms)	Loca- tion
R1	V1 pent. C.G. ...	1,000,000	D7
R2¶	V1 osc. C.G. ...	94,000	D5
R3	Osc. H. T. feed ...	22,000	F4
R4	V2 S.G. feed ...	22,000	F4
R5	A.V.C. decoupling ...	2,200,000	F5
R6	Volume control ...	1,000,000	H6
R7	V3 pent. C.G. ...	6,800,000	F4
R8	I.F. stopper ...	22,000	H6
R9	V3 S.G. feed ...	2,200,000	F4
R10	V3 pent. load ...	470,000	H7
R11	V4 C.G. ...	1,000,000	H5
R12	V4 G.B. ...	1,000	F4

OTHER COMPONENTS		Approx. Values (ohms)	Loca- tion
L1	Frame aerial ...	1.25	—
L2	Osc. tuning coil ...	27	D6
L3	Osc. reaction coil ...	0.75	D6
L4	1st I.F. trans. {	8.25	A2
L5		8.25	A2
L6	2nd I.F. trans. {	8.25	C2
L7		8.25	C2
L8	Speech coil ...	10.0	B1
T1	Speaker trans. {	580.0	B2
S1	L.T. circuit switch {	1.2	D3
S2		—	B3

CIRCUIT ALIGNMENT

I.F. Stages.—Connect signal generator leads to control grid (pin 6) of **V2**, via a 0.1 μ F capacitor, and chassis. Turn gang to minimum capacitance and volume control to maximum, and feed in a 465 kc/s (645.16 m) signal. Using a non-metallic trimming tool, adjust the cores of **L6** and **L7** (chassis location G5, G3) for maximum output, keeping the input low to avoid A.V.C. action and overloading. Transfer "live" signal generator lead, with series capacitor, to control grid (pin 6) of **V1** and adjust the cores of **L4** (D5) and **L5** (D3) for maximum output. Do not repeat the alignment of **L6** and **L7**.

R.F. and Oscillator Stages.—Couple the signal generator output via a loop of wire set up on the bench at a minimum distance of two feet from the open lid of the receiver. With gang at maximum capacitance the 560 m calibration line on the tuning drum should coincide with the black groove at the centre of the escutcheon. The drum may be adjusted in position by slackening its grub screw.

M.W.—Tune to 250 m on scale, feed in a 250 m (1,200 kc/s) signal, and adjust **C23** (F7) for maximum output. Tune to 500 m on scale, feed in a 500 m (600 kc/s) signal, and adjust the core of **L2** (D6) for maximum output. Repeat the 250 m adjustment to **C23**, and finally adjust **C20** (F7), at this same wavelength, for maximum output.

