



RESISTORS		Values	Locations
R1	V1 C.G.	5.6MΩ	E3
R2	V1 osc. C.G. . .	27kΩ	E4
R3	M.W. osc. damping	82kΩ	D4
R4	V1 C.G.	4.7MΩ	E3
R5	Osc. anode feed . .	22kΩ	D3
R6	A.G.C. decoupling	1.8MΩ	D3
R7	I.F. stopper	100kΩ	D3
R8	Volume control . .	1MΩ	C4
R9	V3 C.G.	10MΩ	E3
R10	V3 anode load . . .	1MΩ	E3
R11	V3 S.G.	2.7MΩ	E3
R12	V4 C.G.	1.8MΩ	D3
R13	V4 G.B.	470Ω	D3

OTHER COMPONENTS		Approx. Values (ohms)	Locations
L1	L.W. aerial coil . .	13.0	D3
L2	M.W. aerial coil . .	0.86	C4
L3	1st I.F. trans. {	14.8	B2
L4		14.8	B2
L5	Osc. tuning coil . .	3.17	D4
L6	Osc. reaction coil .	(total)	
L7	2nd I.F. trans. {	14.8	B1
L8		14.8	B1
L9	Speech coil	3.0	D3
T1	O.P. trans. { Pri. . .	520.0	C4
			C4
S1, S2	Waveband switches .	—	E4
S3, S4		—	E3
S5, S6	Battery switches . .	—	C4

Intermediate frequency 470kc/s

R.F. and Oscillator Stages

3.—Turn the gang to maximum capacitance and check that the line separating the M.W. and L.W. scales coincides with the station indicator on the cabinet. If adjustment is necessary, slacken the grub screw on the tuning control knob, then rotate the tuning knob and tighten grub screw.

4.—Place the signal generator output leads close to the ferrite rod aerial L2. Switch the receiver to M.W. and tune it to 500m. Feed in a 600kc/s signal and adjust L5 (D4) and L2 (C4) for maximum output. To adjust L2, slide its former (inside the handle) along the ferrite rod, resealing with wax when the operation is completed.

5.—Tune the receiver to the 230m calibration mark on the scale, feed in a

CIRCUIT ALIGNMENT

Equipment Required.—An accurately calibrated signal generator; an audio output meter; a non-metallic trimming tool. Remove cover from handle (two screws).

I.F. Stages

1.—Switch the receiver to M.W. Short circuit C9 to chassis, and turn volume control to maximum. Connect the audio output meter across L9. Connect signal generator output to C3 (B2) and chassis.

2.—Feed in a modulated 470kc/s signal and adjust the cores of L8, L7 (B1), L4 and L3 (B2) in that order for maximum output. Repeat these adjustments until no improvement in output can be obtained. Remove the short circuit from C9.

CAPACITORS		Values	Locations
C1	L.W. aerial tuning . .	145pF	D4
C2	M.W. aerial trimmer .	25pF*	A2
C3	Aerial tuning	386pF*	B2
C4	V1 C.G.	100pF	E4
C5	1st I.F.T. tuning . .	65pF	B2
C6		65pF	B2
C7	V1 osc. C.G.	100pF	D4
C8	L.W. osc. tuning . . .	360pF	E4
C9	Oscillator tuning . .	166pF*	B2
C10	M.W. osc. trimmer . .	25pF*	A2
C11	Osc. anode coup. . . .	470pF	D3
C12	2nd I.F.T. tuning . .	65pF	B1
C13		65pF	B1
C14	V2 neutralizing	5.6pF	D3
C15	A.G.C. decoup.	0.1μF	D3
C16	I.F. by-pass	100pF	D3
C17	A.F. coupling	470pF	E3
C18	V3 S.G. decoupling . .	0.01μF	E3
C19	A.F. coupling	0.01μF	E3
C20	V4 C.G.	1220pF	E4
C21	Tone corrector	0.005μF	C4
C22	H.T. decoup.	16μF	D4

* Swing value, min. to max.

Valve		Anode		Screen	
		(V)	(mA)	(V)	(mA)
V1 DK96	{ mixer	63.8	0.66	63.8	0.17
	{ osc.	32.2	1.63	—	—
V2 DF96	..	63.8	1.46	63.8	0.5
V3 DAF96	..	—	0.04	—	0.012
V4 DL96	..	61.85	3.19	63.8	0.59

VIDOR - CN439