

EKCO PBUI79

Three-valve, plus rectifier and tuning indicator, three-waveband superhet with manual tuning and six push-button circuits. A variable tone control is provided and sockets for a low impedance loudspeaker with a switch for silencing the internal speaker. Suitable for operation from DC or AC mains, 200-250 v, 40-100 cycles. Marketed by E. K. Cole, Ltd., Southend-on-Sea, Essex.

AERIAL input may be fed via one of two sockets for long or short aerials. On MW and LW signals pass to the primary, L3, which is coupled to the first section of the bandpass filter unit.

L6 is the MW winding and L4 and L5 the LW inductance. These are tuned by VC1 section of the ganged condenser. An IF filter circuit comprising L1 and C3 are in series in the aerial and earth circuit.

The secondaries of the bandpass unit L8 (MW) and L7 (LW) are tuned by VC2 section of the ganged condenser and signals pass direct to the grid of the frequency changer V1.

On SW signals are fed via the coupling coil L10 to the tuning grid coil L9.

V1 is cathode biased by R3, decoupled by C10, and the oscillator section employs tuned grid circuits L15 (SW) L17 (MW) and L19 (LW). Feedback from the oscillator anode is obtained via R6 to the windings L16, L18, L20.

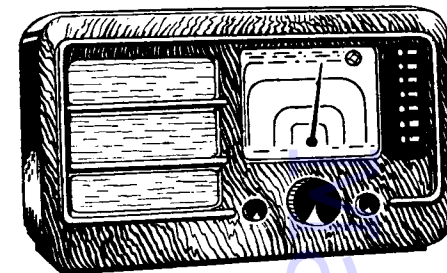
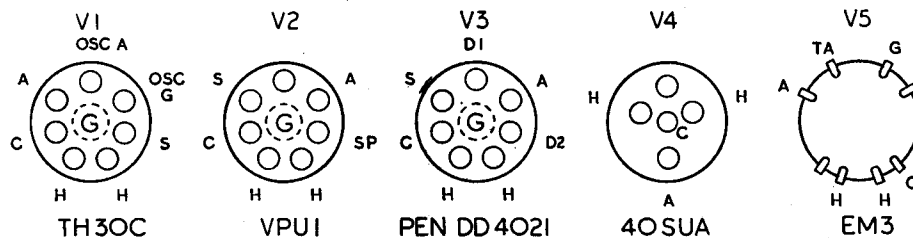
On press-button operation the grid of V1 is taken direct to the first windings (L6, L5, L4) of

RESISTORS

R	Ohms	R	Ohms
1	.1 to .25 meg	14	1 meg
2	100,000	15	500,000
3	200	16	500,000
4	300	17	120
5	11,500	18	200
6	140	19	1,000
7	1,500	20	120
8	300	21	50,000
9	50,000	22	10,000
10	5 meg	23	5,000
11	750,000	25	50
12	1 meg	VR1	850,000
13	2 meg	VR2	20,000

CONDENSERS

C	Mfd	C	Mfd
1	.001	22	.04
2	.001	23	.1
3	40 mmfd	24	.1
4	.1	25	15 cm
5	.0002	26	140 mmfd
6	.0018	27	.05
7	.06	28	140 mmfd
8	.04	29	.0001
9	2	30	.004
10	.1	31	40 mmfd
11	.04	32	.01
12	25 mmfd	33	.25
13	680 mmfd	34	.1
14	305 mmfd	35	.8
15	.0075	36	.0025
16	.01	37	.05
17	280 mmfd	38	.1
18	2	39	.24
19	140 mmfd	40	.8
20	140 mmfd	41	.1
21	140 mmfd		



the bandpass unit, VC1 being disconnected. Across the coils special stabilised pre-set condensers are shunted according to the particular button in use.

The normal oscillator coil assembly is switched out of circuit and the oscillator grid condenser, C12, is connected to two oscillator master coils, L21, L22, which are precision set and locked, and should not be adjusted for any reason whatsoever. Across these master coils may be switched one of six iron dust cored inductances which may be adjusted for the required station in conjunction

Continued overleaf.

WINDINGS

L	Ohms	L	Ohms
1	13	19	3
3	8	20	1.5
4	5.3	21	1.5
5	20	22	8
6	2.5	23	5.2
7	22	24	4.2
8	2.5	25	3.5
9	very low	26	3
10	very low	27	2
11	4	28	1.7
12	4.2 and 4.4	29	240
13	3.8	30	.5
14	4	31	25
15	very low	32	3
16	.5	33	410
17	2	34	2.5
18	1	35	2.5

A universal three-valve set with magic eye tuning and half-wave rectifier, the PBUI79 has push-button tuning for six stations and manual tuning over three bands.

