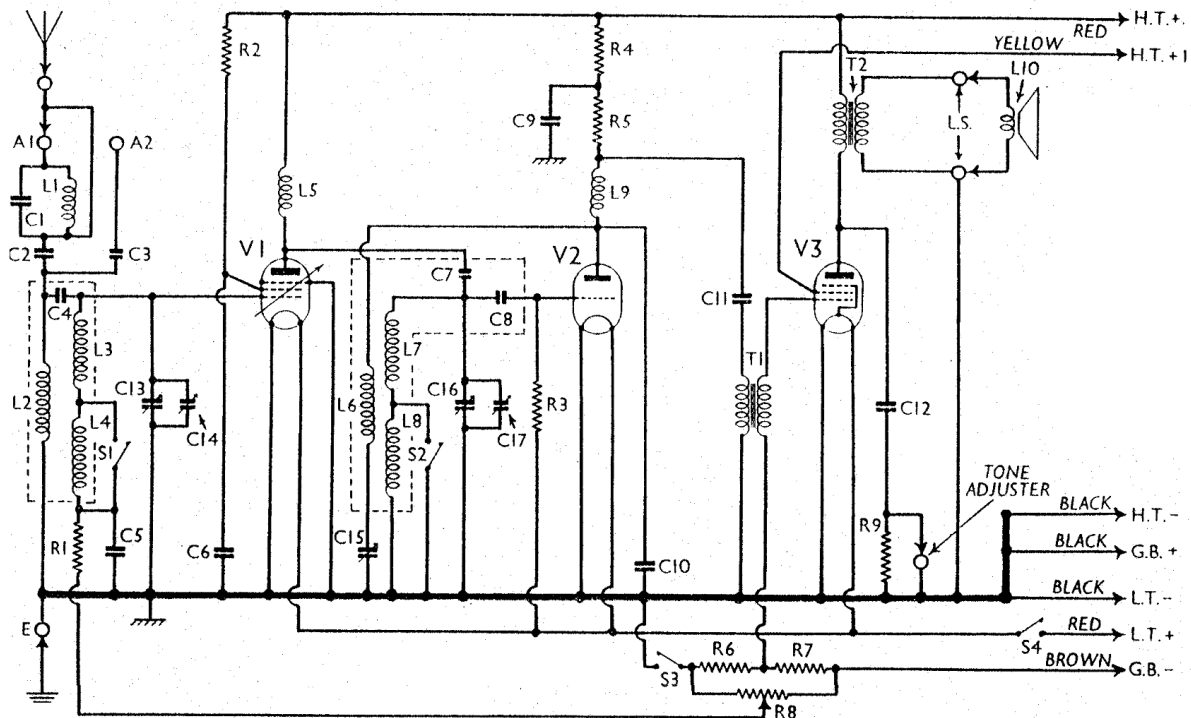


# EVER READY - 5012 & 5024



Circuit diagram of the Ever Ready 5024 battery receiver. The 5012 is very similar.

## COMPONENTS AND VALUES

RESISTANCES	Values (ohms)
R1	V1 C.G. decoupling .. 110,000
R2	V1 S.G. H.T. feed .. 40,000
R3	V2 grid leak .. 2,100,000
R4	V2 anode decoupling .. 11,000
R5	V2 anode load .. 40,000
R6	G.B. potential divider .. 800
R7	V1 gain control .. 1,500
R8	V1 gain control .. 3,000
R9	Part of T.C. filter .. 31,000

CONDENSERS	Values (μF)
C1	Droitwich rejector tuning .. 0.0003
C2	Aerial series condensers .. 0.0003
C3	Capacitive aerial coupling .. 0.000008
C4	V1 C.G. decoupling .. 0.000005
C5	V1 S.G. by-pass .. 0.1
C6	V1 to V2 H.F. coupling .. 0.1
C7	V2 C.G. decoupling .. 0.00005
C8	V2 C.G. condenser .. 0.00005
C9	V2 anode decoupling .. 0.5
C10	V2 anode H.F. by-pass .. 0.0002
C11	L.F. coupling to T1 .. 0.1
C12	Part of T.C. filter .. 0.01
C13	Aerial circuit tuning .. 0.0005
C14	Aerial circuit trimmer .. 0.0005
C15	Reaction control .. 0.0005
C16	V2 C.G. circuit tuning .. 0.0005
C17	V2 C.G. circuit trimmer .. 0.0005

OTHER COMPONENTS	Approx. Values (ohms)
L1	Droitwich rejector coil .. 20.0
L2	Aerial coupling coil .. 24.0
L3	Aerial tuning coils .. 3.0
L4	V1 anode H.F. choke .. 15.0
L5	Reaction coil .. 550.0
L6	V2 grid tuning coils .. 2.4
L7	V2 grid tuning coils .. 15.8
L8	V2 anode H.F. choke .. 350.0
L9	Speaker speech coil .. 1.2
T1	Intervalve trans. { Pri. 930.0 Sec. 8,800.0
T2	Output trans. { Pri. 830.0 Sec. 0.3
Sr, S2	Waveband switches .. 0.3
S3	G.B. circuit switch .. 0.3
S4	L.T. circuit switch .. 0.3

## VALVE ANALYSIS

Valve voltages and currents given in the table below are those measured in our receiver when it was operating with a new H.T. battery reading, 128 V on load. The volume control was at maximum, but the reaction control was at minimum, and there was no signal input.

Voltages were measured on the 1,200 V scale of an Avometer, chassis being negative.

Valve	Anode Voltage (V)	Anode Current (mA)	Screen Voltage (V)	Screen Current (mA)
V1 K50M	126	1.8	95	0.5
V2 K30D	40	1.7	—	—
V3 K70B*	125	3.0	128	0.6

\* Marked "A" in our case.

## GENERAL NOTES

**Switches.**—S1 and S2 are the wave-change switches, both *closed* on M.W. and *open* on L.W. S3 and S4 are the G.B. and L.T. circuit switches, both *closed* when the set is on, and *open* when it is off. The switches are identified in our under-chassis view. S1 is beneath L1.

**Coils.**—L1 is in two sections on a tubular former beneath the chassis. L2-L4 are in a screened unit on the chassis deck, also containing C4, while L6-L8 are in a further screened unit, also containing C7 and C8. L5 and L9 are two H.F. chokes, mounted beneath the chassis.

## CIRCUIT ALIGNMENT

Rotate gang until pointer is at higher wavelength end of scale. Push a flat-ended rod through hole in side of gang cover and against the vanes. Rock gang until rotors can be felt to be fully in mesh. If pointer does not coincide with horizontal lines at end of scale, release centre fixing screw and adjust pointer suitably.

Rotate gang until pointer is at lower wavelength end of scale and switch set to M.W. Connect signal generator to A1 and E sockets, feed in a 202 m. signal, and adjust C14 and C17 for maximum output.

