

EVER READY HOME BATTERY RECEIVER Model H

General Description : Two-valve, two-waveband, straight receiver for local-station reception.

Power Supplies : H.T. 90 volts; L.T. 1.5 volts. Battery leads: Yellow, H.T. —; Brown, L.T. +; Red, H.T. +; black, L.T. —.

Wavebands : M.W. 195–525 m.; L.W. 840–2000 m. Exact coverage depends upon aerial coupling.

Valves : (V1) DF91; (V2) DL92.

Circuit : Conventional leaky-grid detector and audio-output stages. Reaction control, however, also serves as a volume control by varying damping across what would otherwise be an oscillatory circuit. The frequency coverage is wide, the actual limits being determined largely by the size of the aerial and the amount of aerial coupling (*i.e.*, by adjustment of T.C.I). In cases where it is desired to receive a station about 500 m. a wander lead has been provided which when plugged into the A1 socket and the aerial fed into A2 will increase the total capacity across the tuned circuit.

Interference : Where the local station is very powerful, it is advisable to try the receiver with a very short aerial. Where the local station signal strength is not so great, the full (50 ft.) length of aerial wire supplied with the set may be used. In some parts of the country it may become necessary to fit a wave-trap; a suitable type is available from the manufacturers.

Voltage checks : With Avo Model 7 testmeter, 100-volt range.

	V_a	V_s	V_g
V1	68	13	—
V2	79	79	11

Absolute values: V1 $V_a = 75$ v.; $V_s = 23$ v.

Consumption : H.T. 7 mA.; L.T. 150 mA.

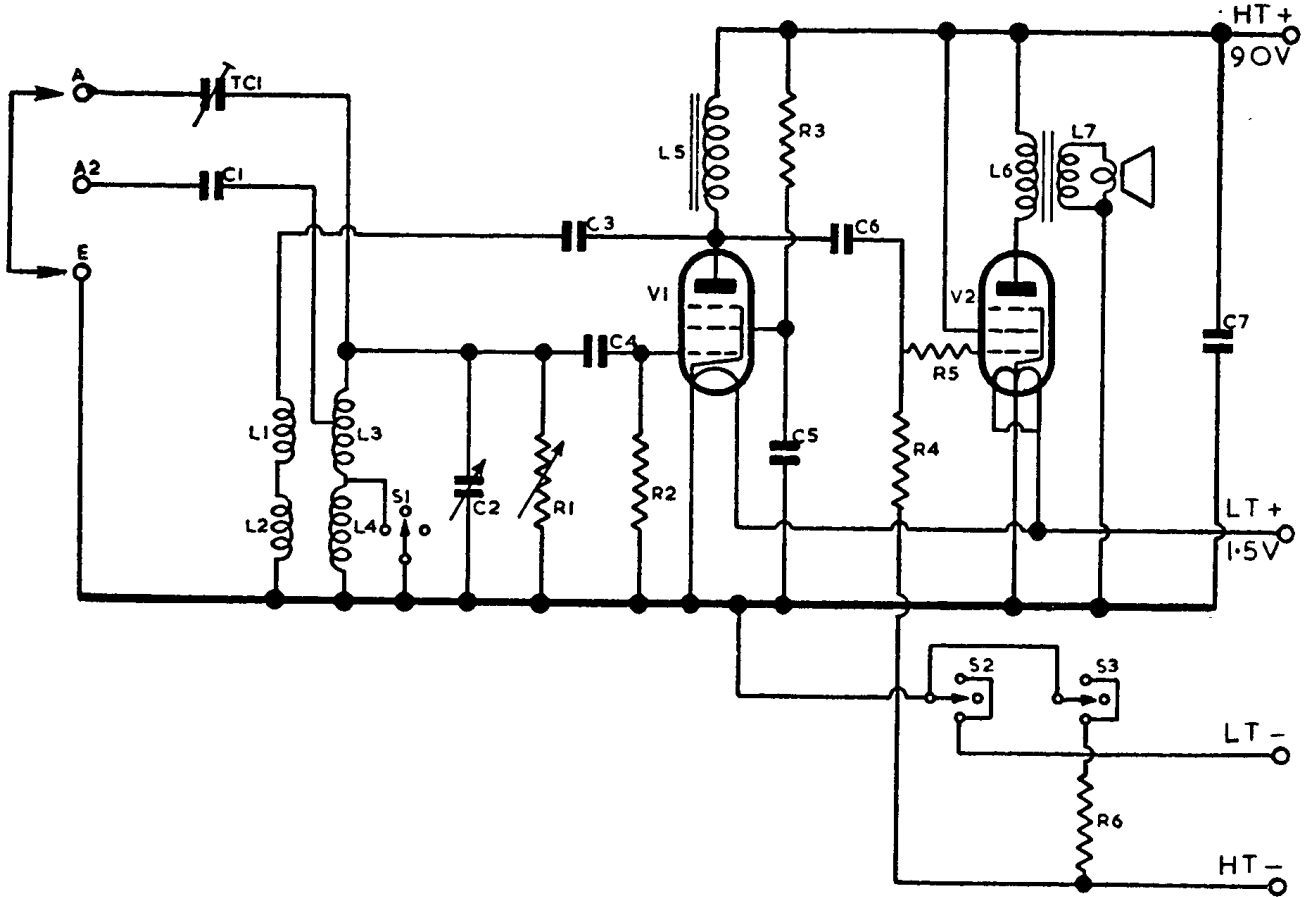
Chassis : To remove chassis: (1) remove two screws fixing chassis to shelf; (2) remove the knobs and unscrew the lock-nut from beneath the wave-change knob. The chassis can then be lifted out.

Component Values :

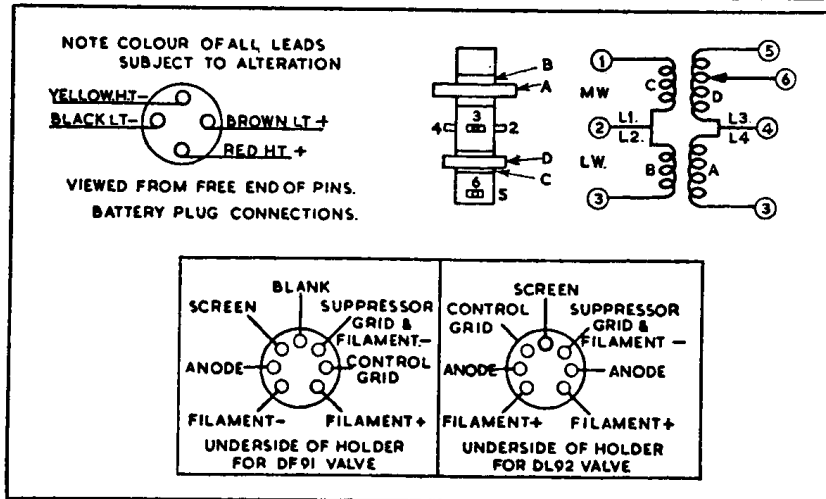
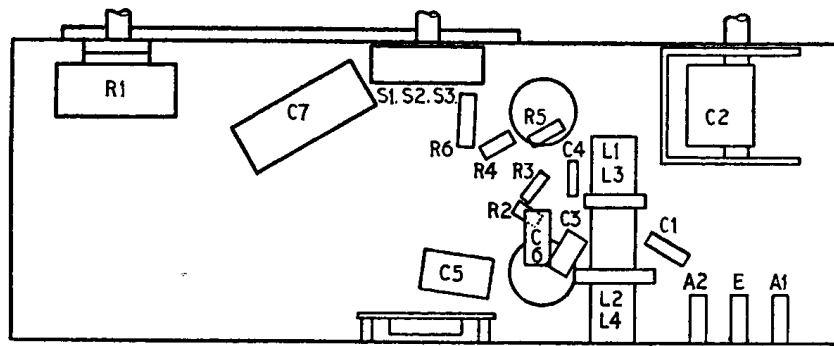
Capacitors.
 TC1 50 pF. max.
 C1 100 pF.
 C2 550 pF. max.
 C3 75 pF. (5%)

C4 100 pF.
 C5 0.1 (150 v.)
 C6 0.002 (350 v.)
 C7 4 (150 v.)

Resistors.
 R1 100k Pot.
 R2 1M
 R3 220k
 R4 4.7M
 R5 220k
 R6 1600 (10%)



CIRCUIT DIAGRAM—EVER READY MODEL H



UNDER VIEW OF CHASSIS AND SOCKET CONNECTIONS