

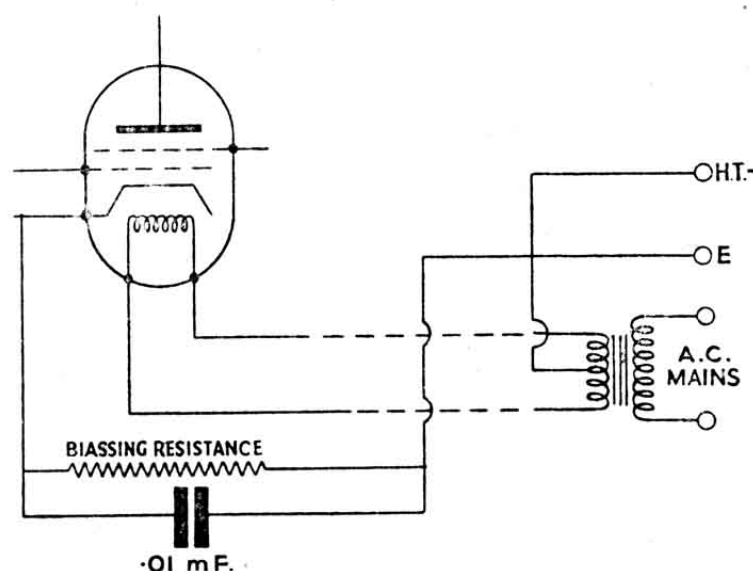
AUTOMATIC GRID BIAS

It is often convenient to obtain grid bias in A.C. all-mains receivers by utilising the voltage drop across a resistance connected between the negative terminal of the H.T. supply and the cathode. This so-called "free" grid bias arrangement has the advantage of automatically controlling the value of the anode current, and, if the biasing resistance is variable, avoids the possibility of a dangerous rise in anode current while adjustment to grid bias is being made.

The accompanying diagrams show recommended automatic bias circuits for various types of valves and suitable values for the decoupling resistance and by-pass condensers. Beneath each diagram are given the appropriate values of biasing resistance for each type of Mullard A. C. mains valve.

The resistance should be of the wire-wound type and must be capable of carrying continuously the full anode current of the valve.

I. Indirectly-heated screened-grid valves.



Valve Type.	Value of Biasing Resistance (Ohms).
S.4V	600
S.4VA	300
S.4VB	200

Mullard the Master Valve