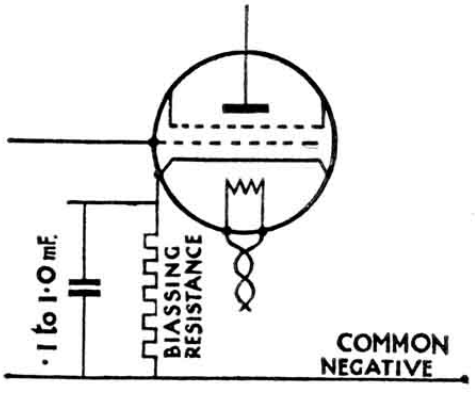
AUTOMATIC GRID BIAS FOR A.C. MAINS RECEIVERS

It is now standard practice to derive grid bias in A.C. mains receivers and amplifiers by utilising the voltage drop across a resistance connected between the negative terminal of the H.T. supply and the cathode of the valve. This arrangement has the advantage of automatically controlling the anode current, while if the biassing resistance is variable, the possibility of a dangerous rise in anode current while adjustments of bias are being made is avoided.

The accompanying diagrams show recommended circuits for automatic bias to various types of valves. The appropriate value of the biassing resistance for each type of Mullard A.C. valve will be found under the heading "Grid Bias," on the pages in which the valves are listed.

Biassing resistances should be capable of carrying continuously the full anode current of the valve. In the case of output valves it is recommended that the resistance should consist of two parts—one of fixed value and the other variable—to permit a range of adjustment.

DIAGRAM No. 1.



Automatic Bias for Indirectly-heated Screened-Grid Valve or H.F. Pentode.