



Figure 1-2

2. First stage (V1003) (Fig. 1-2)

- a. Functions as cathode follower.
- b. Input impedance is high.
- c. Input can be shunted by R 1000 and C1000 when SW1000 plunger is pushed in.
 - (1) This limits bandpass for older letter series plug-ins.
 - (2) Letter series plug-in response was not controlled above 30 mc.

(3) Operating a letter series plug-in on an extension with a TU-5 input pulse will allow you to see these aberrations, plus any introduced in the extension.

(4) Plug-ins (1A1, etc.) that can use full bandpass have a hole cut in the back plate to prevent pressing the switch plunger in.

d. R1003, R1004, and R1013 are cathode load resistors.

(1) R1004 can be adjusted to DC balance the vertical amplifier.

e. R1002 and C1002 are decoupling in the plate circuit.

f. L1013 and L1023 are parasitic suppressors.

g. D1014 and D1024 are tied to +55 volt bus, preventing cathodes of input tube from going below this level.

(1) This would occur when the plug-in is removed with power on.

(2) Holding voltage at this level prevents transistorized stages from being damaged by excessive voltages and currents.