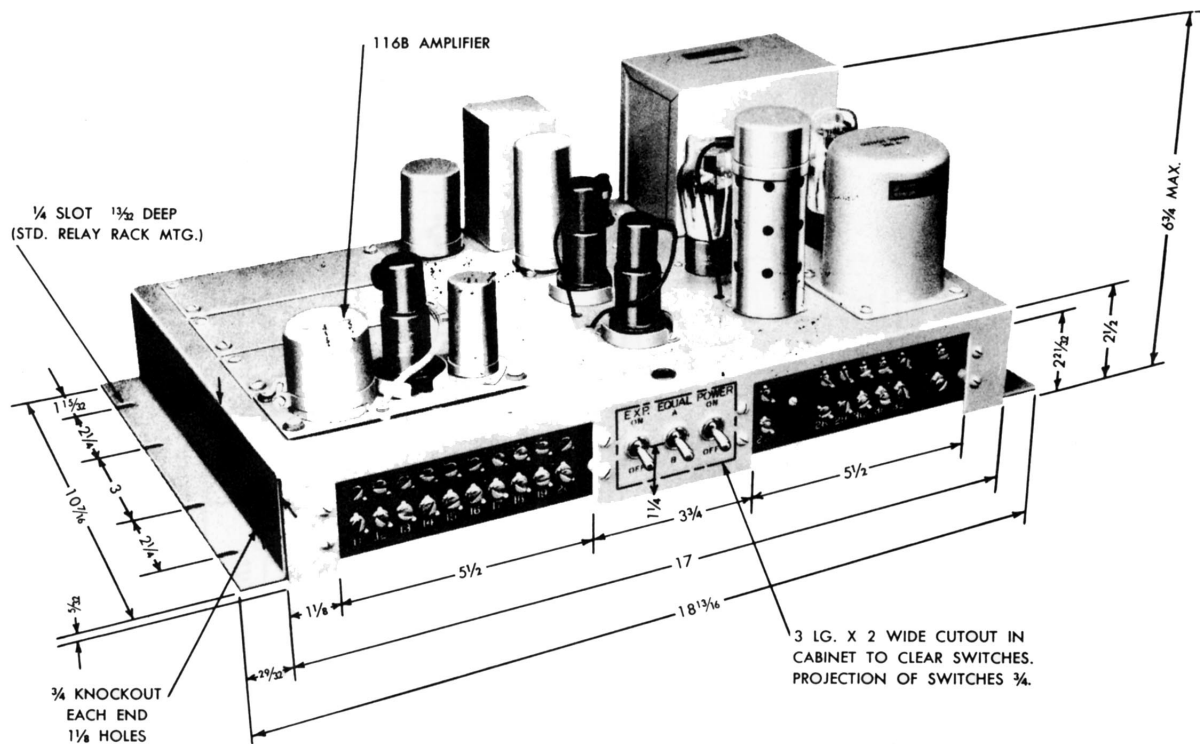


No. 116-B AMPLIFIER  
No. 117-A AMPLIFIER



# Western Electric Company

## No. 117-B AMPLIFIER



### SUMMARY OF TYPICAL CHARACTERISTICS

Circuit Diagram.....	ESXX-614196
Wiring Diagram.....	ESR-614197
Gain at 1000 Cycles.....	82 $\pm$ 2 db for 30 ohm source and 600 ohm load 85 $\pm$ 2 db for 250 ohm source and 600 ohm load
Source Impedance.....	Nominal 30 or 250 ohm impedances
Internal Input Impedance.....	High with respect to nominal source impedances
Load Impedance.....	Nominal 600 ohm load
Internal Output Impedance.....	Approximately 170 ohms
Output Level ..... (Max. Single Frequency)	+20* db volume limiting, +25 db without volume limiting with approximately 5 per cent total harmonic distortion
Output Noise Level..... (At Max. Gain)	-32 db unweighted; -42 db with program noise weighting
Frequency Characteristic .....	Useful frequency response 35-10,000 cycles. Flat within $\pm$ 1 db from 35 to 10,000 cycles. See ESA-746167
Power Required .....	105-125 volts, 50-60 cycles, 50 watts
Fuse .....	Circuit fused for 6/10 ampere
No. of Mixer Channels.....	From 1 to 4—116B Amplifiers may be used with each 117A Amplifier to furnish from 1 to 4 mixer input channels
Master Gain Control.....	Gain control either local or remote achieved by varying bias of variable mu tube
Mixer Gain Control.....	Gain control of 116B Mixer Amplifier achieved independently by varying bias of variable mu tube at either local or remote position
Expander Characteristic.....	Expansion ratio 11 1/2:1
Output Limiter Characteristic.....	Output limited to +20 db for input levels as high as -22 db