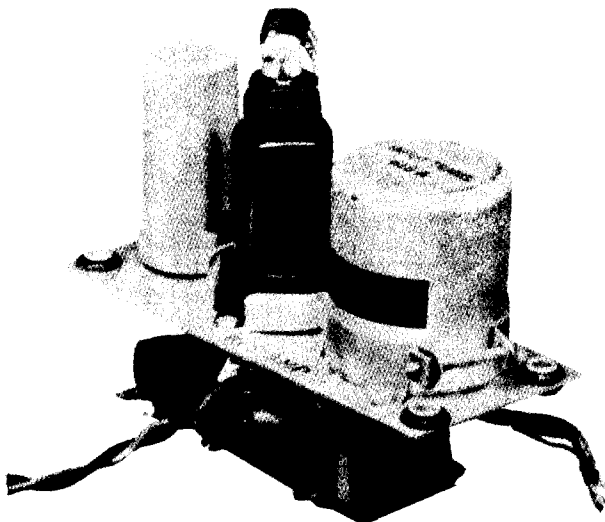


116B AMPLIFIER



GENERAL

The 116B amplifier is a one-stage amplifier utilizing a dc bias gain control. It is designed to work from low level sources into the grid of the tube of a following amplifier. When properly connected, it increases the voltage gain of the combination by approximately 57 db over what is obtained with the normal transformer input. The 116B is a preamplifier used as an integral part of the 124D and other Western Electric amplifiers. Also, it may be mounted on the 142A and 143A amplifiers.

ELECTRICAL CHARACTERISTICS

Gain - - - - - Maximum 57 db voltage gain into high impedance circuit.

Source Impedance - - Nominal 30 or 120 ohms. Range 15 to 250 ohms.

Internal Input - - - High compared with source impedance

Internal Output - - - High. Impedance

Load Impedance - - - Direct connection to the grid input circuit of one tube.

Output Level - - - - Ample to drive 124-, 142-, and 143-type amplifiers to full output.

Output Noise - - - - Depends on associated amplifier.

Frequency Response - +1 db, 50 to 15,000 cycles.

Gain Control - - - - Provided separately.

Power Supply - - - - 6.3 volts ac or dc 0.3 amperes; 150-300 volts dc (275 volts nominal) - maximum current 4 milli-amperes.

EQUIPMENT CHARACTERISTICS

Dimensions - - - - - 5-1/4" long, 4-1/2" high and 2-3/16" deep.

Weight - - - - - Approximately 1/2 pound.

Finish - - - - - Light gray.

Mounting - - - - - 124D amplifier or other Western Electric amplifiers.

ELECTRON TUBE

(This tube is not supplied with the amplifier and must be ordered separately.)

1 - - - - - Commercial Type 1612

REFERENCES

ESO-675850 - - - - - Assembly and Stock List.

ESO-675852 - - - - - Wiring Diagram.

ESO-675851 - - - - - Schematic.

