

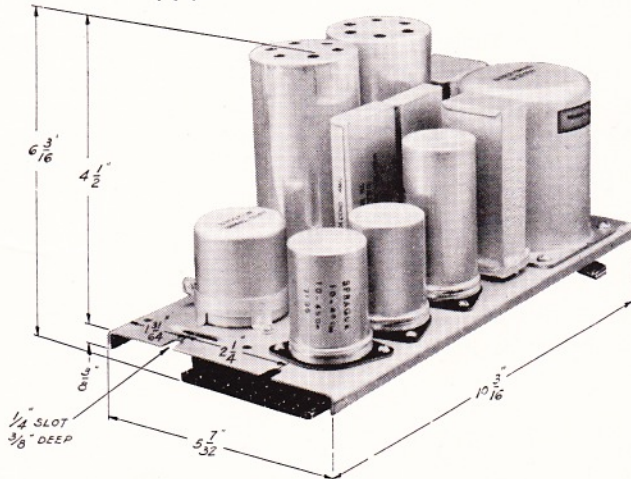
120B

INPUT AMPLIFIER

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Western Electric

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The Western Electric 120B Amplifier is a compact, high quality two stage pre-mixing or booster amplifier. It is intended for use in speech input equipments and sound distribution systems.

TYPICAL PERFORMANCE CHARACTERISTICS

Frequency Range	30 to 15,000 cycles within ± 1 db gain range. 50 to 10,000 cycles within ± 0.5 db gain range.
Source Impedance	30, 250 or 600 ohms.
Internal Input Impedance	High impedance.
Load Impedance	600 ohms.
Internal Output Impedance	600 ohms.
Gain	40 db.
Single Frequency Output Power for less than 1% total Harmonics	+16 dbm* at a fundamental frequency of 400 cycles. +13 dbm* at a fundamental frequency of 50 cycles.
Noise Contribution	-82 dbm* Unweighted. -87 dbm* Program Weighting, with full gain and up to +14 dbm* output power.
Power Required	Filaments, 6.3 volts, .8 ampere AC; plates, 275 volts DC, .007 ampere. Power is normally obtained from Western Electric 18 or 20 type Rectifiers which are capable of supplying a number of 120B Amplifiers. Power for one 120B Amplifier may be obtained from the Western Electric 118A, 94 type or 124 type Amplifiers by the use of a simple power supply circuit consisting of two resistances.

*dbm = single frequency level referred in dbm to 1 milliwatt.

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MECHANICAL CHARACTERISTICS

Overall Dimensions	Length 10-3/16", Width 5-7/32", Height 6-3/16" (see photograph)
Weight	Approximately 6½ pounds.
Finish	Baked aluminum lacquer on zinc plated steel.
Mounting	New type of basic amplifier unit designed for mounting in desks or other structures and also adaptable for relay rack or bay cabinet mounting through the use of 177 type mounting plates and 296 type panels. Insulation both electrically and mechanically from the mounting plate is accomplished by using ESO-613436-4 rubber supports.
Vacuum Tubes (Specify separately on order)	One 1603 and one W.E. 348A One 1603 and or one 6J7G (glass) One 1603 and or one 6J7 (metal).

Additional information on the 120B Amplifier, as well as information on other Western Electric Radio Broadcast Equipment and Sound Distribution Systems, may be obtained from the nearest distributor listed below:

DISTRIBUTOR IN THE UNITED STATES

Graybar

ELECTRIC COMPANY

General Offices: 420 Lexington Avenue, New York, N. Y.

A NATIONAL ELECTRIC SERVICE

GENERAL DISTRIBUTOR FOR CANADA AND NEWFOUNDLAND

Northern Electric Company

LIMITED

General Offices and Plant: 1261 Shearer Street, Montreal, P. Q.

TWENTY-ONE BRANCHES FROM COAST TO COAST

DISTRIBUTOR IN OTHER COUNTRIES

International Standard Electric Corporation

67 Broad Street

New York, U. S. A.

Offices in all principal cities