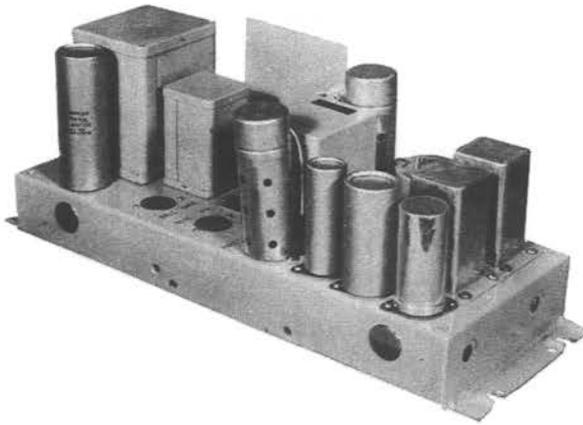


124B AMPLIFIER



GENERAL

The 124B amplifier is a push-pull, two-stage amplifier with a self-contained power supply unit and a plate supply filter. It is designed for use as a monitoring amplifier in the program plant, as a part of a one-way speech or music transmission system, as a line amplifier in short regional program networks for medium quality service or as a temporary or emergency line amplifier on a major network. There are five different input arrangements provided for this amplifier, the one to be used depending on the type of service desired and the maximum input level needed. Each input arrangement is shown on the schematic.

ELECTRICAL CHARACTERISTICS

Gain - - - - - Input No. 1, 67 db; input No. 2, 61 db; input No. 3, 45 db; input No. 4, 45 db; input No. 5, 41 db.

Source Impedance- Input No. 1, 500-700 ohms; input No. 2, 400-1000 ohms; input No. 3, 500-700 ohms; input No. 4, 0-25,000 ohms; input No. 5, 0-1000 ohms.

Internal Input Impedance - Input No. 1, 2500 ohms. Input No. 2, 600 ohms. Input No. 3, 11,000 ohms. Input No. 4, 11,000 ohms. Input No. 5, 600 ohms.

Internal Output Impedance - 3/4 of nominal load impedance or 600 ohms when building-out resistors are in circuit.

Load Impedance - 1.75, 7.5, 16, 30, 150 or 600 ohms. Also 70-volt loudspeaker distribution line. See Output Connections Table on schematic.

Output Level - - +41 dbm (12 watts) with less than 5% total harmonic distortion from 50 to 5000 cycles, and +43 dbm (20 watts) with 5% total harmonic distortion at 400 cycles with 600-ohm load.

Output Noise - -37 dbm (unweighted).

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

Gain Control - - 38 db in 2 db steps.

Power Supply - - 105 to 125 volts, 50-60 cycles, 1.1 amperes, 105 watts when used with 12-watt output connection. 105 to 125 volts, 50-60 cycles, 1.25 amperes, 125 watts when used with 20-watt output connection.

EQUIPMENT CHARACTERISTICS

Dimensions - - - 19" long, 7" high, 7-3/8" deep including controls.

Weight - - - - - Approximately 20 pounds.

Finish - - - - - Chassis: aluminum lacquer. Front and edge of mat: black enamel, dark aluminum gray, gray or blue-gray.

Mounting - - - - - Relay rack, shelf or apparatus cabinet.

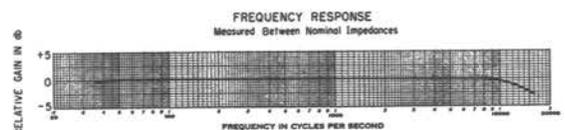
ELECTRON TUBES

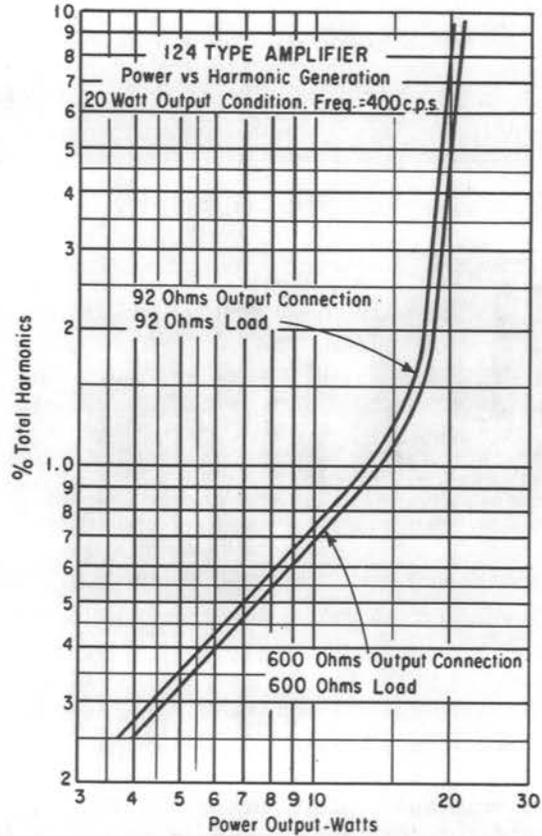
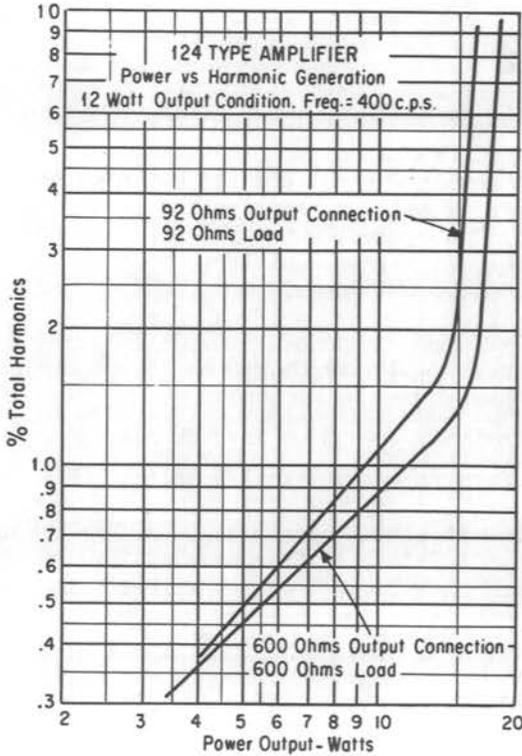
(These tubes are not supplied with the amplifier and must be ordered separately.)

	W.E. Co.	Commercial
2- - - - -	348A	or 6J7 or 6J7G
2- - - - -	350B	or 6L6 or 6L6G
1- - - - -	274B	or 5T4 or 5U4G

REFERENCES

ESX-675954 - - - - - Assembly and Stock Lists.
ESX-676167 - - - - - Wiring Diagram.
ESXX-676164 - - - - - Schematic.
BSP 024-104-100 - - 124-Type Amplifiers.
BSP 024-104-501 - - 103 and 124-Type Amplifiers.





124 B AMPLIFIER

