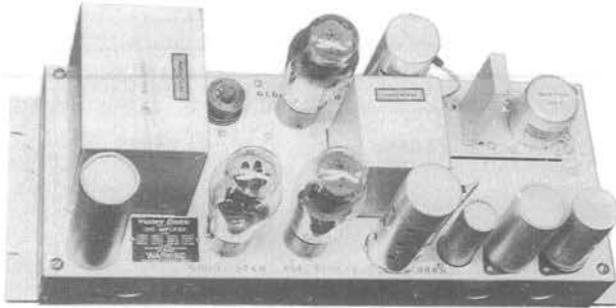


124C AMPLIFIER



GENERAL

The 124C amplifier is a push-pull, two-stage amplifier with self-contained power supply unit and plate supply filter. It is designed for use either as a terminating or bridging amplifier whenever a carbon transmitter source is required, such as in loudspeaker paging systems or test desk to main frame loudspeaker systems. One of these amplifiers forms a part of the 103C amplifier.

ELECTRICAL CHARACTERISTICS

Gain - - - - - 58 db, high gain input.
50 db, bridging input.

Source Impedance- 0-1000 ohms, 50 ohms nominal, high gain input. 0-25,000 ohms, 600 ohms nominal, bridging input.

Internal Input - 150 ohms, high gain input.
Impedance 27,000 ohms bridging input.

Internal Output - 3/4 of nominal load impedance.
Impedance

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 +42 dbm (20 watts) with 5% total harmonic distortion at 400 cycles with 600-ohm load.

Output Noise - -37 dbm (unweighted).

Frequency - - - - High gain input: -25 db, 25 cycles. -10 db, 100 cycles.
Response -4.5 db, 200 cycles. -1 db, 500 cycles. +1 db, 3000 cycles. +2 db, 15,000 cycles. Bridging input: +1 db, 25-5000 cycles. +3 db, 15,000 cycles.

Gain Control - - 45 db continuously variable on high gain input. Set potentiometer at "Maximum" when using bridging input.

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.

EQUIPMENT CHARACTERISTICS

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

Weight - - - - - Approximately 20 pounds.

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

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

ELECTRON TUBES

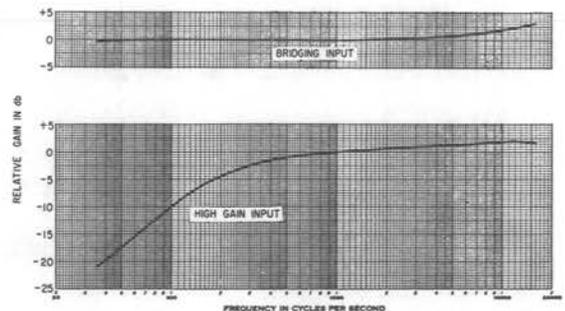
(These tubes are not supplied with the amplifier and must be ordered separately.)

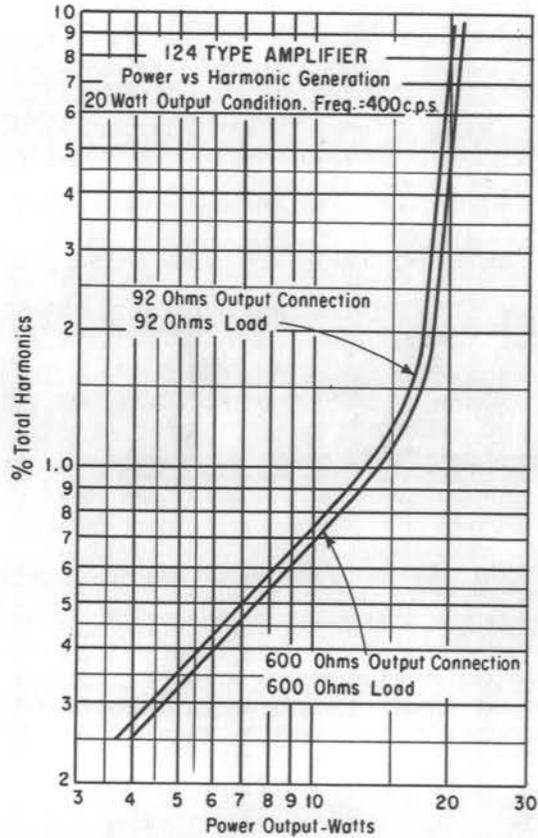
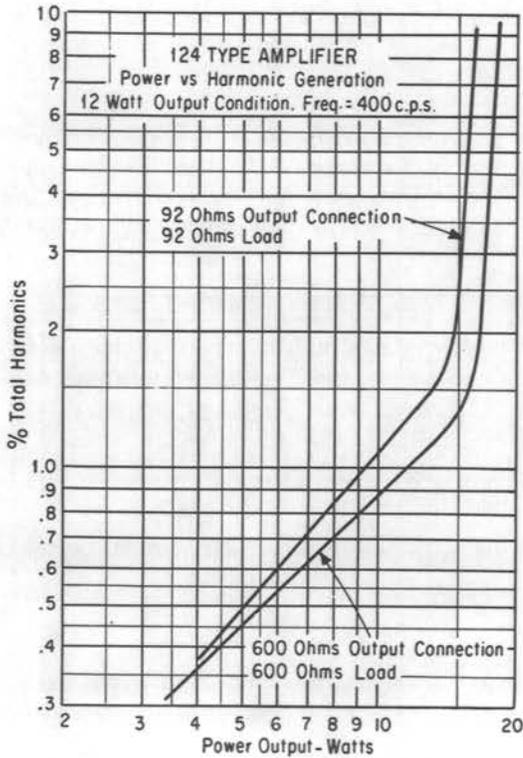
	W.E. Co.	Commercial
2 - - - - -	348A	or 6J7 or 6J7G
2 - - - - -	350B	or 6L6 or 6L6G
1 - - - - -	274B	or 5T4 or 5U4G

REFERENCES

- ESX-675954 - - - - - Assembly and Stock List.
- ESX-676168 - - - - - Wiring Diagram.
- ESXX-676165 - - - - - Schematic.
- BSP 024-104-100 - - 124-Type Amplifiers.
- BSP 024-100-101 - - 103C Amplifier.
- BSP 024-104-501 - - 103 and 124-Type Amplifiers.

FREQUENCY RESPONSE
Measured Between Nominal Impedances





124C AMPLIFIER

