

No.94-D AMPLIFIER

COMMERCIAL PRODUCTS
APPARATUS REFERENCE SHEET

NO	I-II
AMPLIFIER	
94 D	
2-15-38	

ELECTRICAL CHARACTERISTICS

GAIN - - - - - 48 DB (MAX) WHEN WORKING
BETWEEN A 600-OHM
GENERATOR AND A 500
OR 8-OHM LOAD. FIG. 1
OPERATES FROM - - - - - 0-12000 OHMS
INTERNAL INPUT IMPEDANCE - 25000 OHMS
OPERATES INTO - - - - - 8 OR 500 OHMS
INTERNAL OUTPUT IMPEDANCE - 1/2 OF LOAD IMPEDANCE
OUTPUT POWER - - - - - 12 WATTS OR +33DB
(0 LEVEL - .006 WATTS)
5% TOTAL HARMONIC
DISTORTION. FIGS. 2&3
OUTPUT NOISE - - - - - (-) 40 DB UNWEIGHTED
(0 LEVEL - .006 WATTS)
POWER SUPPLY - - - - - 105-125 VOLTS, 45-65
CYCLES, 100 WATTS.
FUSE FOR 1.25 AMPS.
GAIN CONTROL - - - - - 25,000 OHM POT. (UNBAL.)

EQUIPMENT CHARACTERISTICS

PANEL DIMENSIONS - - - - - 19" x 7"
DEPTH - - - - - 7 1/2"
WEIGHT - - - - - APPROX. 20 LBS.
MOUNTING - - - - - STD. 19" RELAY RACK OR
SUITABLE CABINET.

NOTE: THE 94D AMPLIFIER MAY BE ORDERED WITH DIFFERENT MAT FINISHES AS FOLLOWS:

CODE NO.	FINISH
94D-3	RUBBER FINISH BLACK JAPAN
94D-15	ALUMINUM GRAY FINISH
94D-24	ALUMINUM LACQUER FINISH

VACUUM TUBES

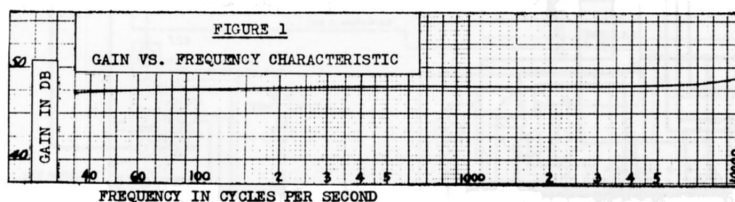
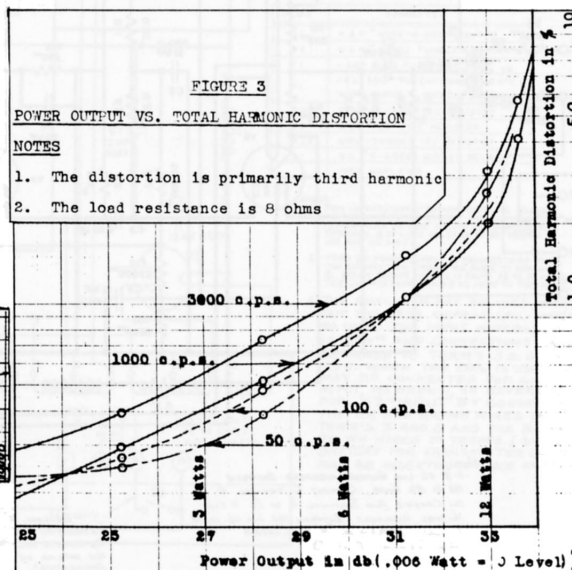
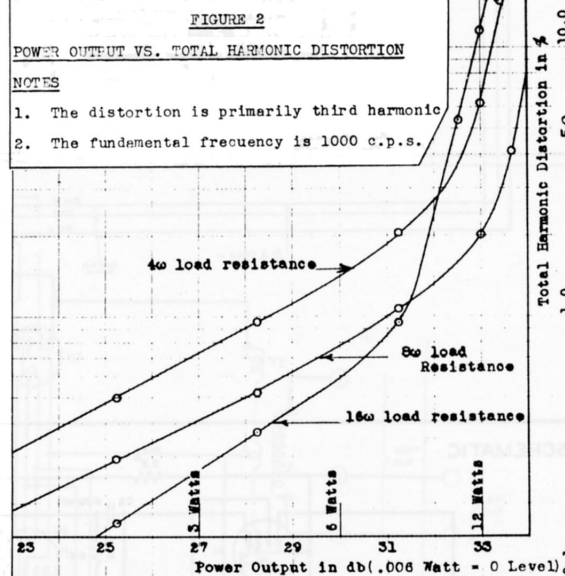
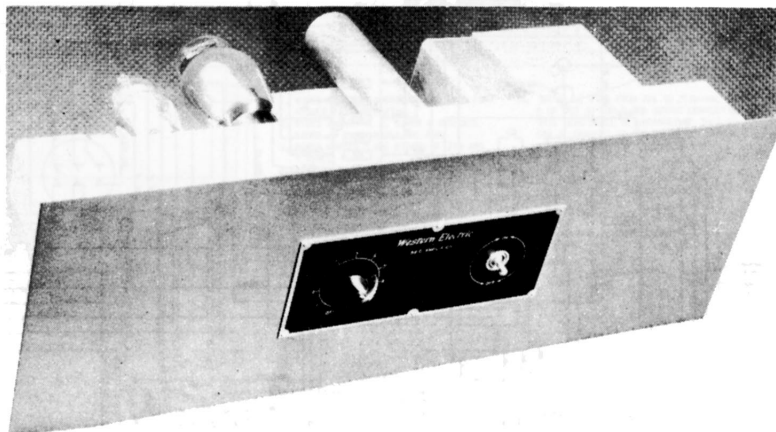
	METAL	GLASS
FIRST STAGE	TWO - 6J7	OR TWO 6J7G
SECOND STAGE	TWO - 6L6	OR TWO 6L6G
RECTIFIER	ONE - 5T4	OR ONE 5U4G

REFERENCES

ESR-624213 ASSEMBLY
ESR-624214 SCHEMATIC
ESR-624215 WIRING DIAGRAM

ES-743672 } POWER OUTPUT VS. TOTAL HARMONIC
ES-743673 } DISTORTION

NOTE: THE 94D AMPLIFIER IS SIMILAR TO THE 94C AMPLIFIER EXCEPT THAT IT HAS A VOLUME CONTROL AND A POWER SWITCH MOUNTED ON A BRACKET ON THE UNDER-SIDE OF THE CHASSIS, WITH THE CONTROL ELEMENTS EXTENDING THROUGH THE MAT FOR OPERATION FROM THE FACE OF THE AMPLIFIER.

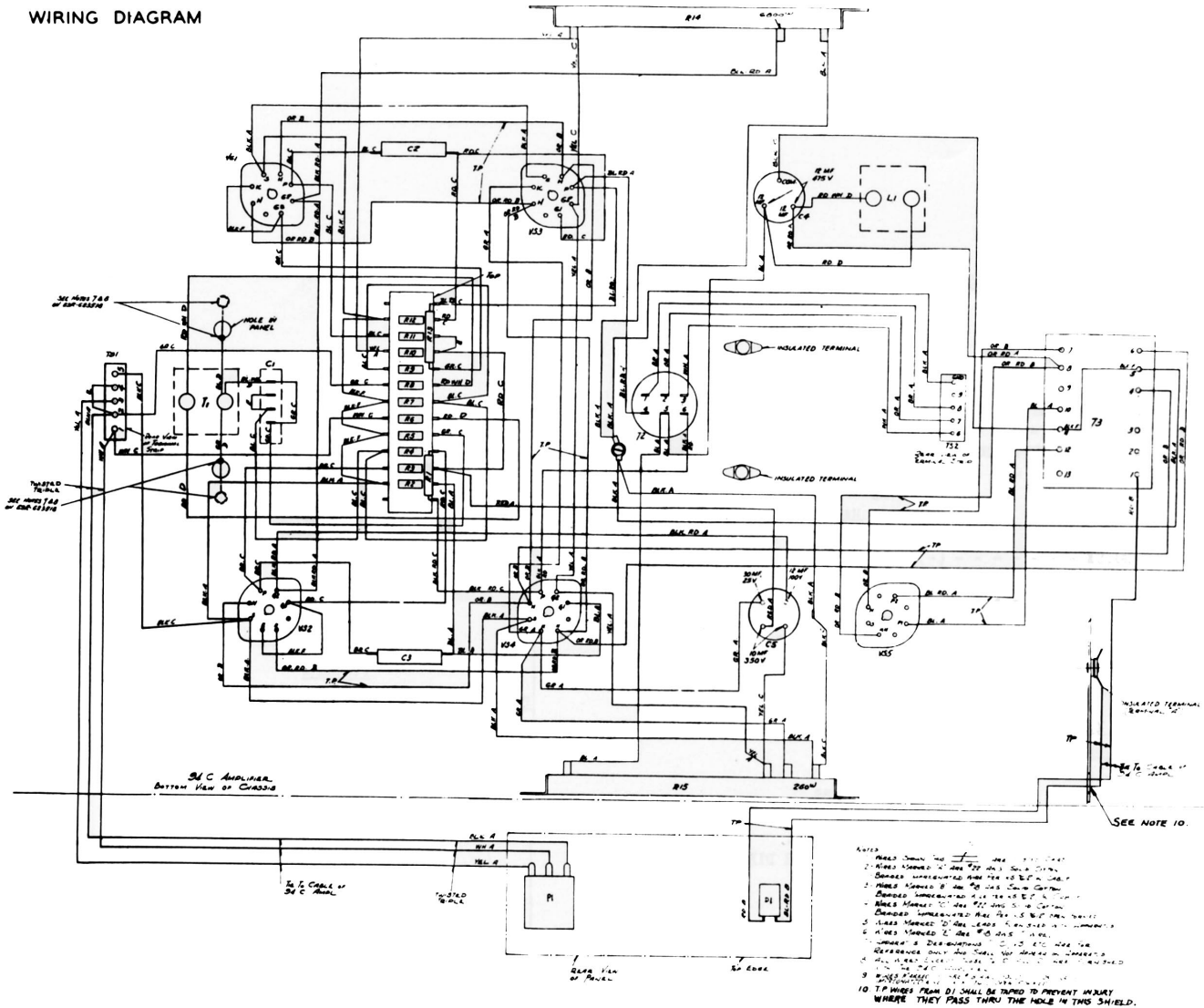


FOR WIRING DIAGRAM AND SCHEMATIC SEE REAR OF THIS SHEET

Western Electric Company

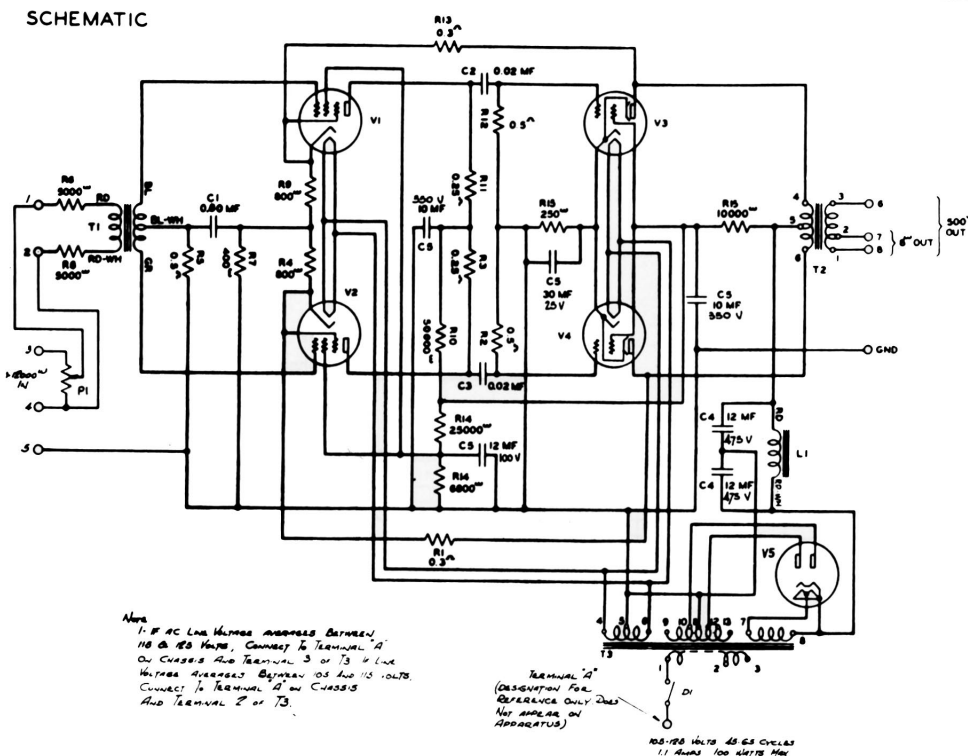
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WIRING DIAGRAM



- NOTES
1. All components are to be of the type specified in the list of materials.
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 8. All components are to be of the type specified in the list of materials.
 9. All components are to be of the type specified in the list of materials.
 10. The shield must be grounded at the point where it enters the chassis.

SCHEMATIC



Note
1. If AC Line Voltage is between 110 & 120 Volts, Connect to Terminal 1. On Chassis Also Terminal 3 or 13. If Line Voltage is between 120 & 130 Volts, Connect to Terminal 2 on Chassis. And Terminal 2 of 13.

Terminal 12
(Designation for
Reference Only Does
Not Appear on
Apparatus)

100-120 Volts 45-65 Cycles
1.1 Amps 100 Watts Max

Designation	Apparatus
C1	0.0001 CONDENSER
C2, C3	ABRAXON CONDENSER TYPE 1653 0.01 MF
C4	ABRAXON ELECTROLYTIC CONDENSER TYPE 30 12.12 MF 475 V CAP. FLOATING
C5	ABRAXON ELECTROLYTIC CONDENSER TYPE 40 10.10 MF 350 V, 12 MF 100 V, 30 MF 25 V MIN. MOUNTING RING AND LONG GROUND LUGS
L1	271 G. RADIANT CO.
R1, R2	0.5% 1% RESISTOR TYPE 81 WITH 4 TURNS
R3, R4	0.5% 1% RESISTOR TYPE 81 WITH 4 TURNS
R5, R6	0.5% 1% RESISTOR TYPE 81 WITH 4 TURNS
R7, R8	1% RESISTOR TYPE 81 WITH 4 TURNS
R9, R10	1% RESISTOR TYPE 81 WITH 4 TURNS
R11	1% RESISTOR TYPE 81 WITH 4 TURNS
R12	1% RESISTOR TYPE 81 WITH 4 TURNS
R13	1% RESISTOR TYPE 81 WITH 4 TURNS
R14	1% RESISTOR TYPE 81 WITH 4 TURNS
R15	1% RESISTOR TYPE 81 WITH 4 TURNS
T1	275 K. INPUT TRANSFORMER
T2	171 B. OUTPUT TRANSFORMER
T3	552 AA TRANSFORMER
V1, V2	TYPE 6J7 OR 6J7 G. VACUUM TUBE
V3, V4	TYPE 6L6 OR 6L6 G. VACUUM TUBE
V5	TYPE 378 OR 378 G. VACUUM TUBE
V6	N.A. #20552 TUBULAR TUBE WITH 38 1/2 IN. 1/2 IN. JAIL
P1	ALLEN-BRANDLEY #138 A. REPRESENTATIVE 2500 WATT 2 1/2 IN. AUTO