

FIG. 45 (MF8. DISC.)

140A AMPLIFIER

NOTES:

1. VOLTAGES SHALL BE MEASURED BETWEEN POINT INDICATED B-B (NOT CHASSIS). VALUES SHOWN ARE FOR 120V. LINE VOLTAGE MEASUREMENTS WITH VOLTMETER WHICH HAS RESISTANCE OF AT LEAST 20,000 OHMS PER VOLT. MEASURED VALUES MAY DEPART 10% FROM VALUES SHOWN.

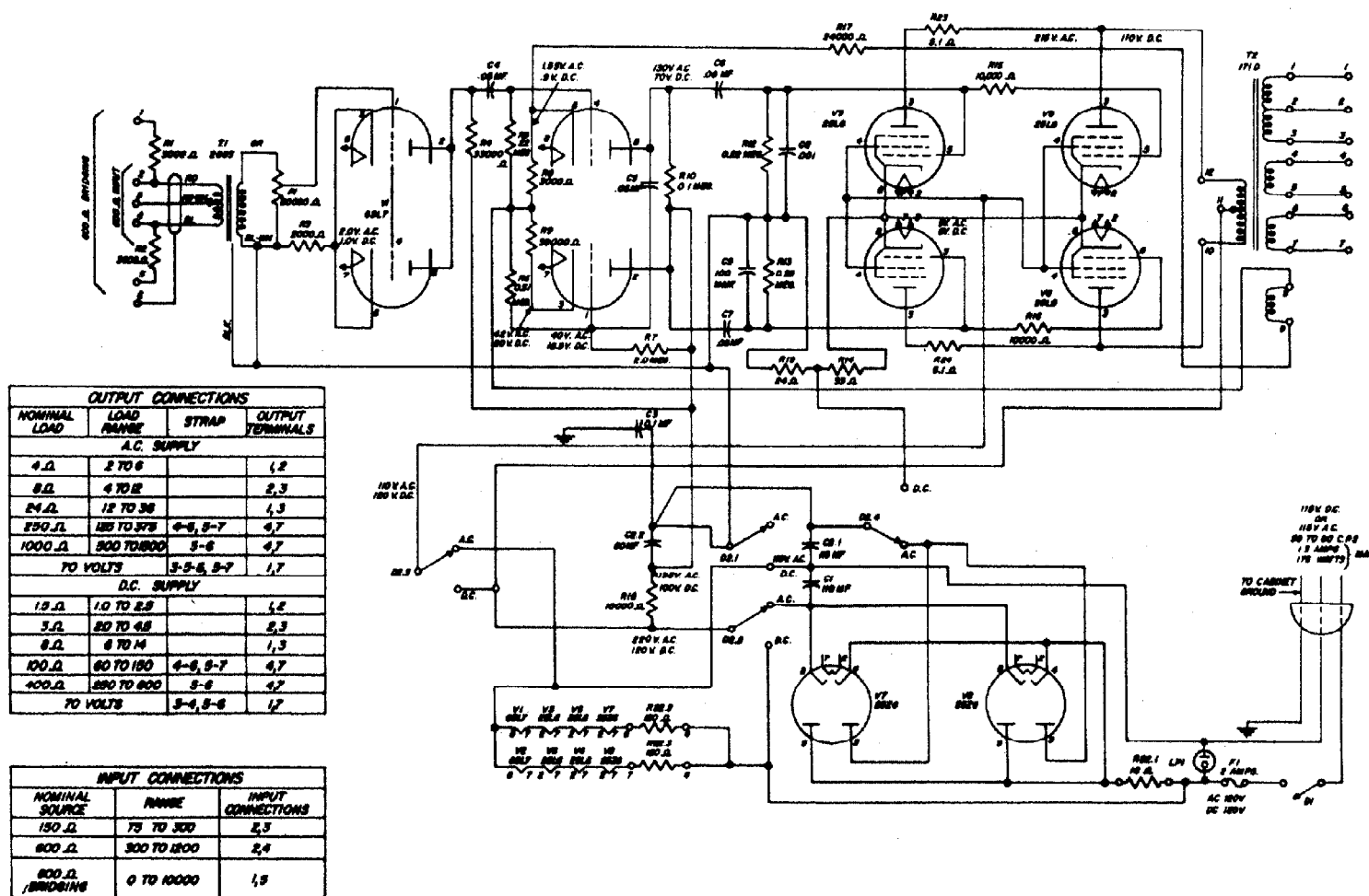
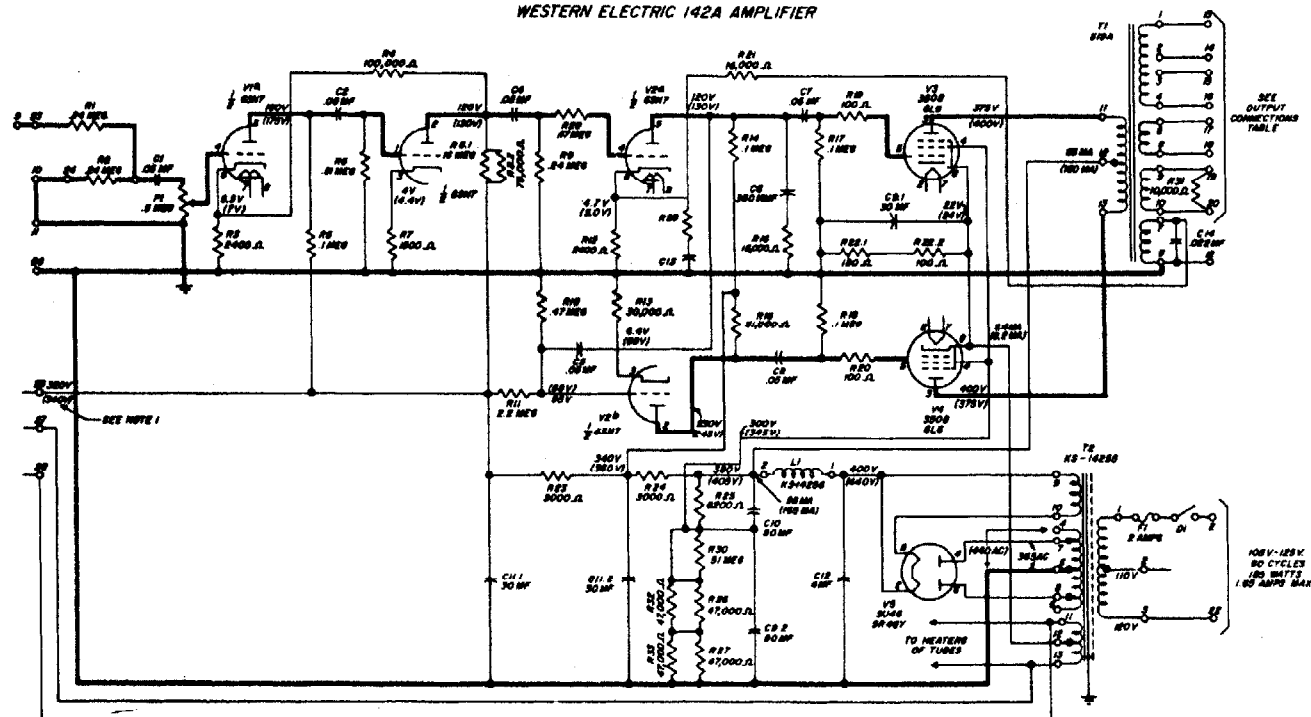


FIG. 46 (MFR. DISC.)
WESTERN ELECTRIC 142A AMPLIFIER



NOTES

1. CIRCUIT SHOWN FOR 12 WATTS POWER SUPPLY OUTPUT. THE NUMBERS IN PARENTHESES ARE THE VALUES FOR THE 25 WATT CONDITION.
2. WHEN FIG. 35 IS ADDED IT BECOMES A 142B AMPLIFIER.
3. WHEN FIG. 36 IS ADDED IT BECOMES A 142C AMPLIFIER.
4. WHEN FIG. 37 IS ADDED IT BECOMES A 142D AMPLIFIER.

OUTPUT CONNECTIONS TABLE

NOMINAL LOAD IMPEDANCE	WORKING RANGE OF LOAD IMPEDANCE	STRAP TERMINALS	OUTPUT CONNECTIONS
200 Ω	150 Ω TO 300 Ω	—	19 & 20
24 Ω	18 Ω TO 36 Ω	14-15, 16-17	13 & 18
12 Ω	9 Ω TO 18 Ω	13-15, 16-18-17	13 & 18
8 Ω	6 Ω TO 12 Ω	14-15	13 & 16
4 Ω	3 Ω TO 6 Ω	—	17 & 18
2 Ω	1.5 Ω TO 3 Ω	13-15, 16-18	13 & 16
400 Ω	300 Ω TO 600 Ω	14-15, 16-17, 18-19	13 & 20

70 V. LOUDSPEAKER DISTRIBUTION LINE CONNECTIONS

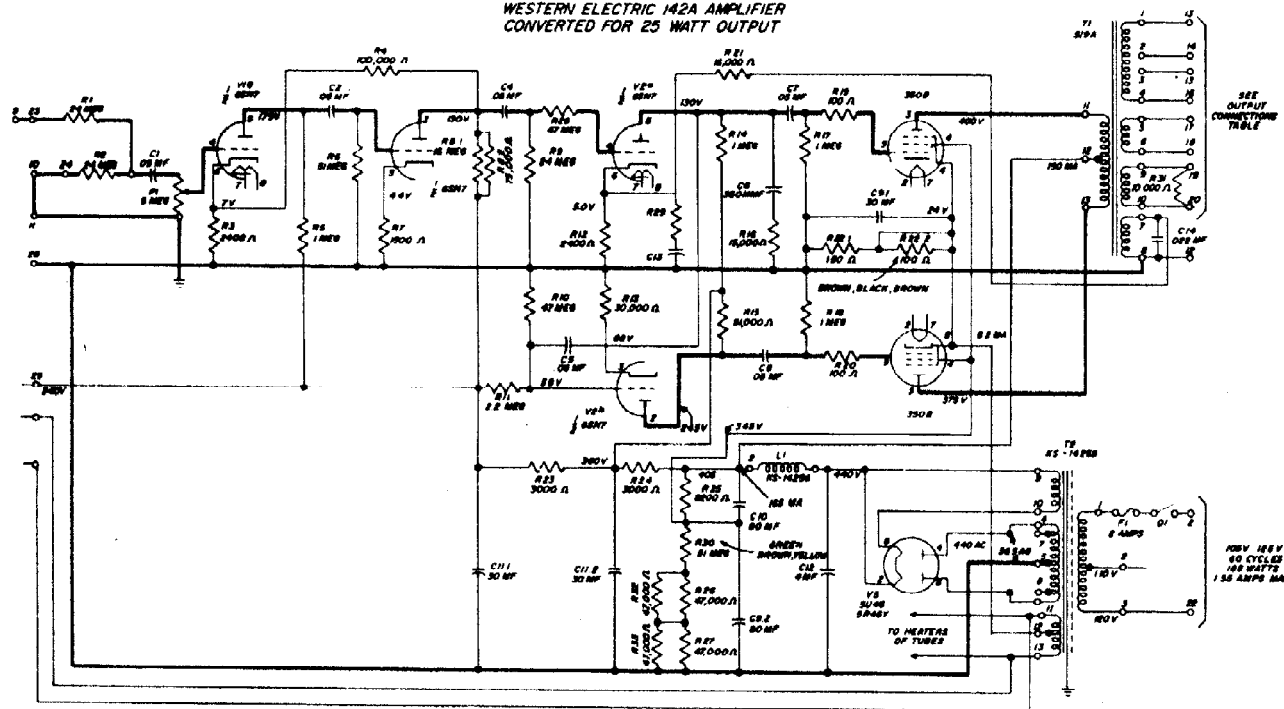
POWER OUTPUT CONDITION	STRAP TERMINALS	OUTPUT CONNECTIONS
12 WATTS	14-15, 16-17, 18-19	13 & 20
25 WATTS	—	19 & 20

105 V-125 V.
60 CYCLES
150 WATTS
1.00 AMP MAX.

142A AMP (CONVERTED FOR 25w)

Western Electric

FIG. 47 (MFR. DISC.)
WESTERN ELECTRIC 142A AMPLIFIER
CONVERTED FOR 25 WATT OUTPUT



OUTPUT CONNECTIONS TABLE

NOMINAL LOAD IMPEDANCE	WORKING RANGE OF LOAD IMPEDANCE	STRAP TERMINALS	OUTPUT CONNECTIONS
200 Ω	150 Ω TO 300 Ω		19 & 20
64 Ω	18 Ω TO 36 Ω	14-15, 16-17	13 & 18
16 Ω	9 Ω TO 18 Ω	13-15, 14-16-17	15 & 18
8 Ω	6 Ω TO 12 Ω	14-15	13 & 18
4 Ω	3 Ω TO 6 Ω		17 & 18
2 Ω	1.5 Ω TO 3 Ω	13-15, 14-16	13 & 18
400 Ω	300 Ω TO 600 Ω	14-15, 16-17, 18-19	13 & 20

TO V. LOUDSPEAKER DISTRIBUTION LINE CONNECTIONS

POWER OUTPUT CONDITION	STRAP TERMINALS	OUTPUT CONNECTIONS
12 WATTS	14-15, 16-17, 18-19	13 & 20
25 WATTS		19 & 20

NOTES

- FOR 25 WATTS OUTPUT THE FOLLOWING CHANGES ARE NECESSARY:
 - USE 350B TUBES.
 - SHORT R 22.2.
 - AT TRANSFORMER T2 TRANSFER LEAD FROM TERMINAL 7 TO TERMINAL 4 AND LEAD FROM TERMINAL 8 TO TERMINAL 6.
 - REMOVE SHORT ACROSS R30

LINE INPUT CONNECTIONS 142C & 142D		
SOURCE OHMS	STRAP TERMINALS	CONNECT TO
600 Ω	6-7	4 AND 8
150 Ω	6-7, 6-8	4 AND 8

AMPLIFIER	REMOVE STRAP BETWEEN TERMS.	STRAP TERMINALS
142 B	9-23	10 TO 11
142 C	8	10 TO 11
142 D		10 TO 11

COLOR CODE FOR FIXED RESISTORS



COLOR	1ST BAND	2ND BAND	3RD BAND	END BAND
BLACK	0	0	NONE	GOLD 5%
BROWN	1	1	0	SILVER 10%
RED	2	2	00	NONE 20%
ORANGE	3	3	000	
YELLOW	4	4	0000	
GREEN	5	5	00000	
BLUE	6	6	000000	
VIOLET	7	7	0000000	
GRAY	8	8	00000000	
WHITE	9	9	000000000	

FIG. 52

WE 143A AMPLIFIER

