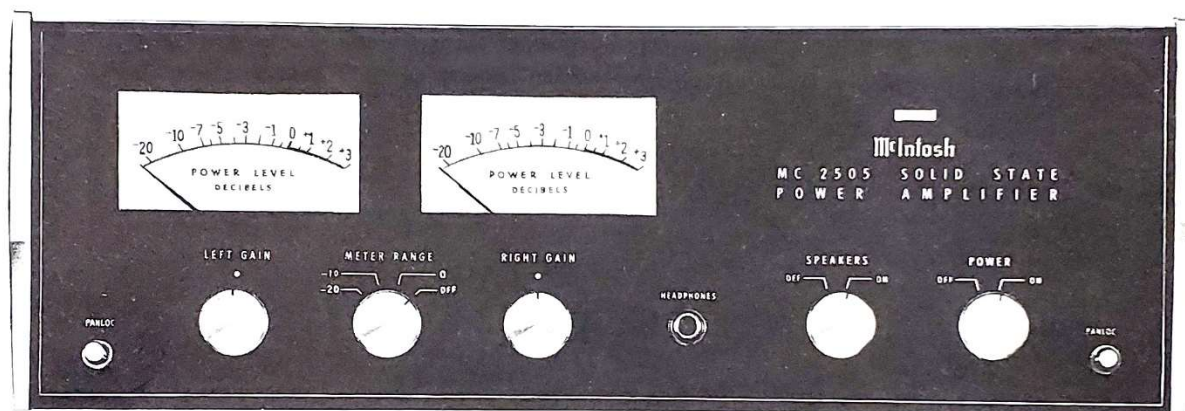


McIntosh

MC 2505



SERVICE INFORMATION

STARTING WITH SERIAL NO. 26K01

McINTOSH LABORATORY INC. 2 CHAMBERS STREET BINGHAMTON, NEW YORK

MC 2505

ELECTRICAL SPECIFICATIONS

Power Output:

100 watts RMS continuous, 50 watts per channel operating simultaneously, into 4 ohm, 8 ohm, or 16 ohm loads.

Harmonic Distortion:

Less than 0.25% at rated power output from 20Hz to 20,000Hz.

Intermodulation Distortion:

Less than 0.25% for combinations of frequencies between 20Hz and 20,000Hz.

Frequency Range:

At rated output both channels: +0, -0.25dB, 20Hz through 20,000Hz.

Output Damping Factor:

Greater than 10 for any output tap.

Input Sensitivity & Impedance:

Input sensitivity is 0.5 volts. Input impedance is 200,000 ohms.

Hum & Noise:

Greater than 90dB below rated output.

Output Power Monitor Meter:

Meter is calibrated to read +3dB when amplifier produces rated output. Meter range switch increases meter sensitivity by 10dB or 20dB.

Power Requirements:

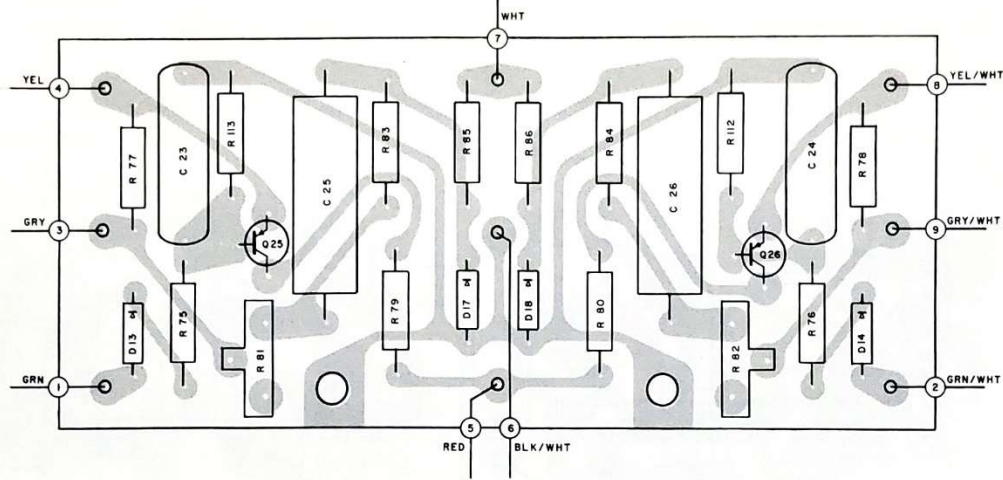
117 volts AC 50-60 cycles, 75 watts at zero signal output, 250 watts at rated output.

Unless otherwise specified, resistance values are in ohms, 1/2 watt, and 10% tolerance. Capacitance values smaller than 1 are in microfarads (mfd); values greater than 1 are in picofarads (pF).

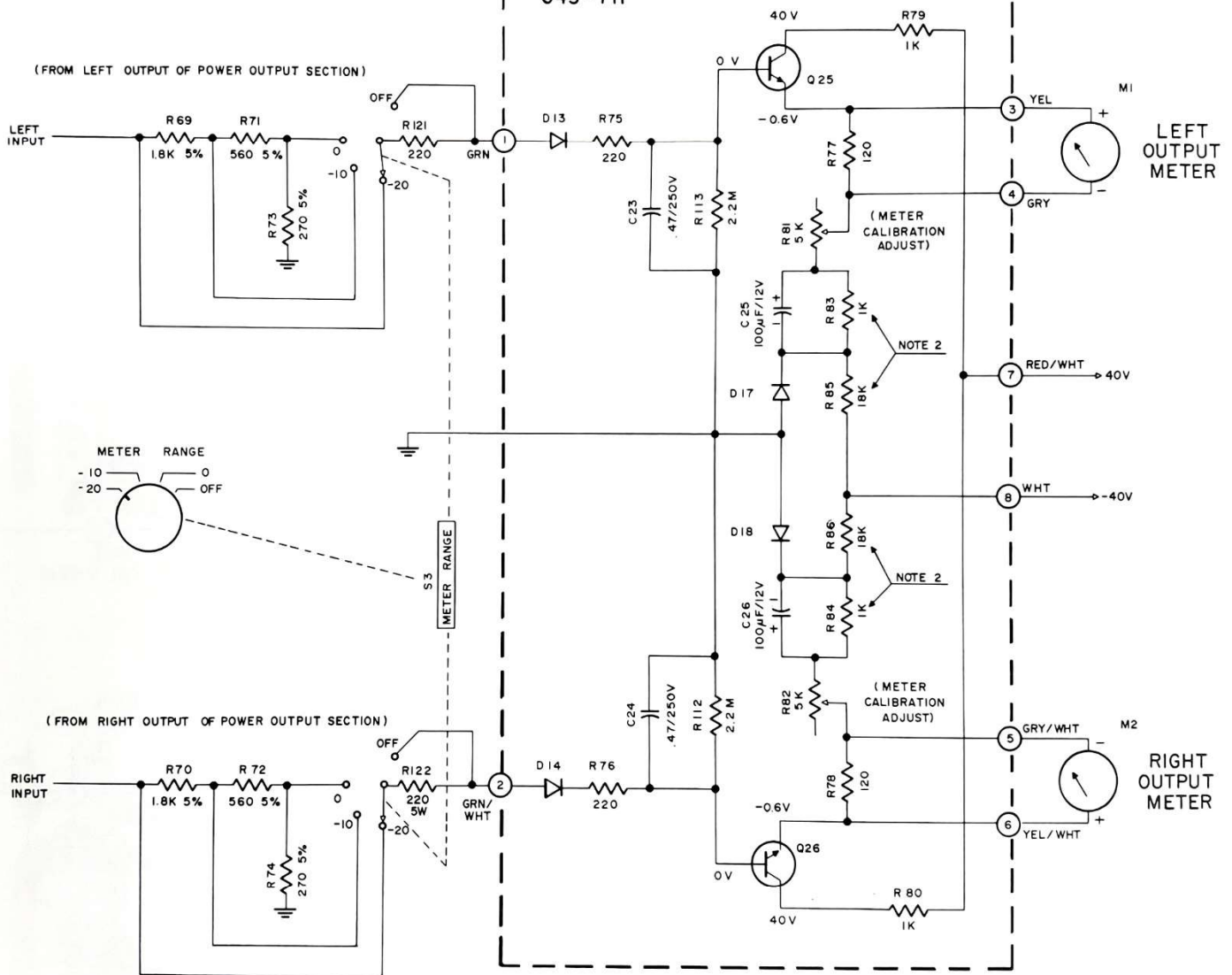
All voltages are measured under the following conditions:

1. Use of an 10 megohm input impedance VTVM voltmeter.
2. All voltages $\pm 10\%$ with respect to ground.
3. No signal at input terminals.
4. AC input at 117 volts, 50/60 cycles.
5. Front panel controls at:

Left Gain	Fully Counterclockwise
Meter Range	Off
Right Gain	Fully Counterclockwise
Speakers	On
Power	On

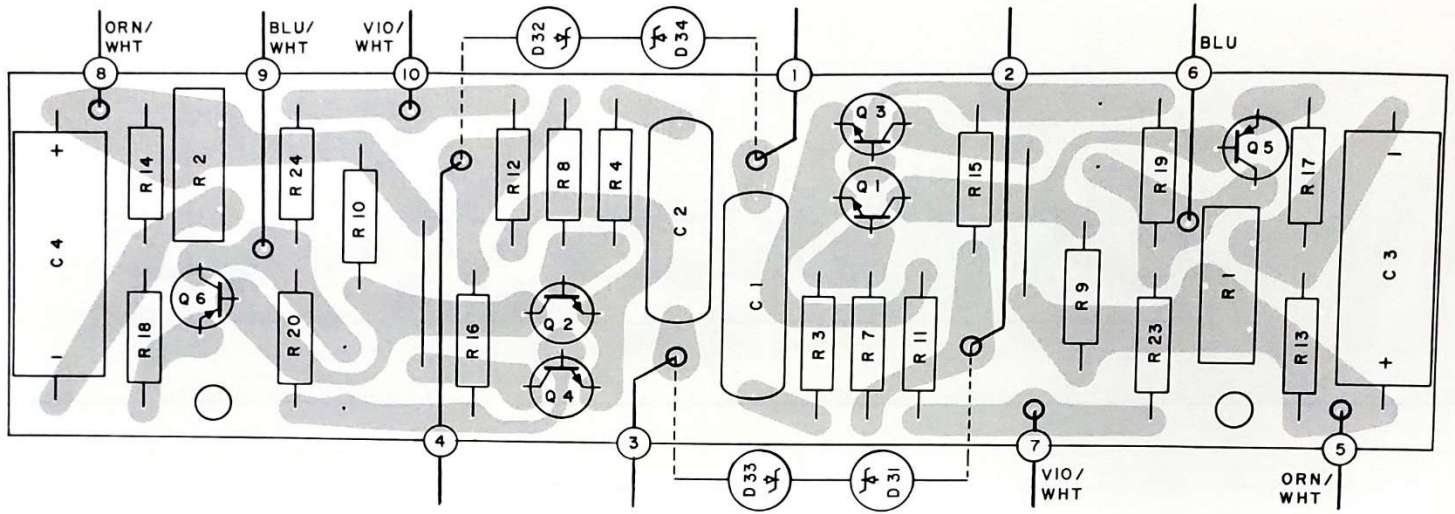


METER SECTION PRINTED CIRCUIT BOARD
043 - 711

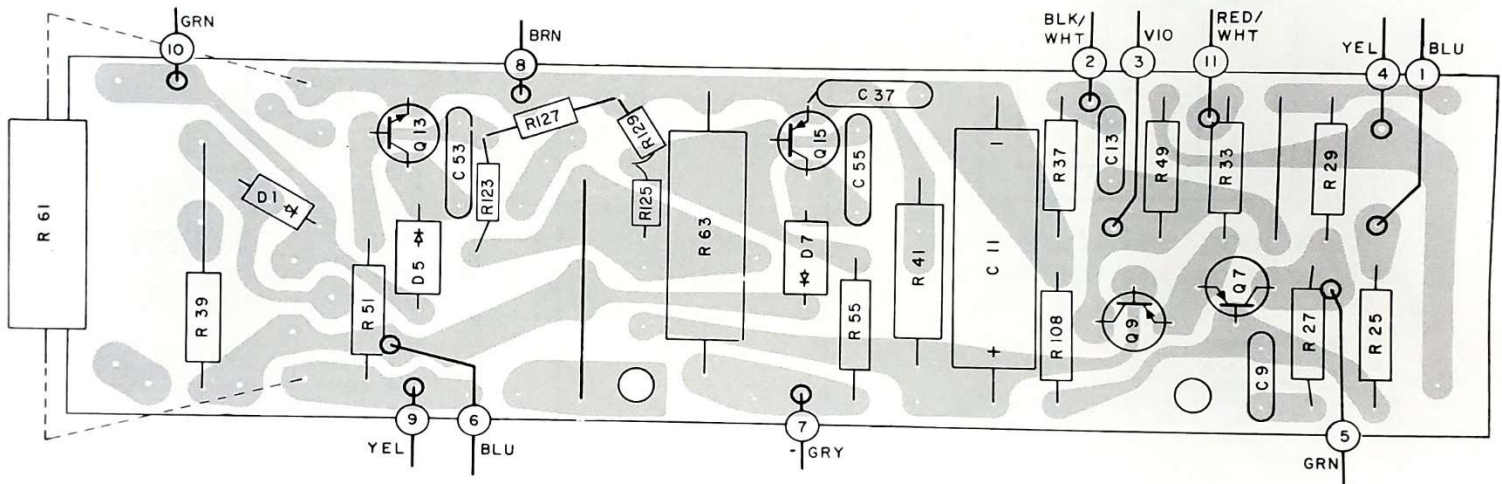


METER SECTION

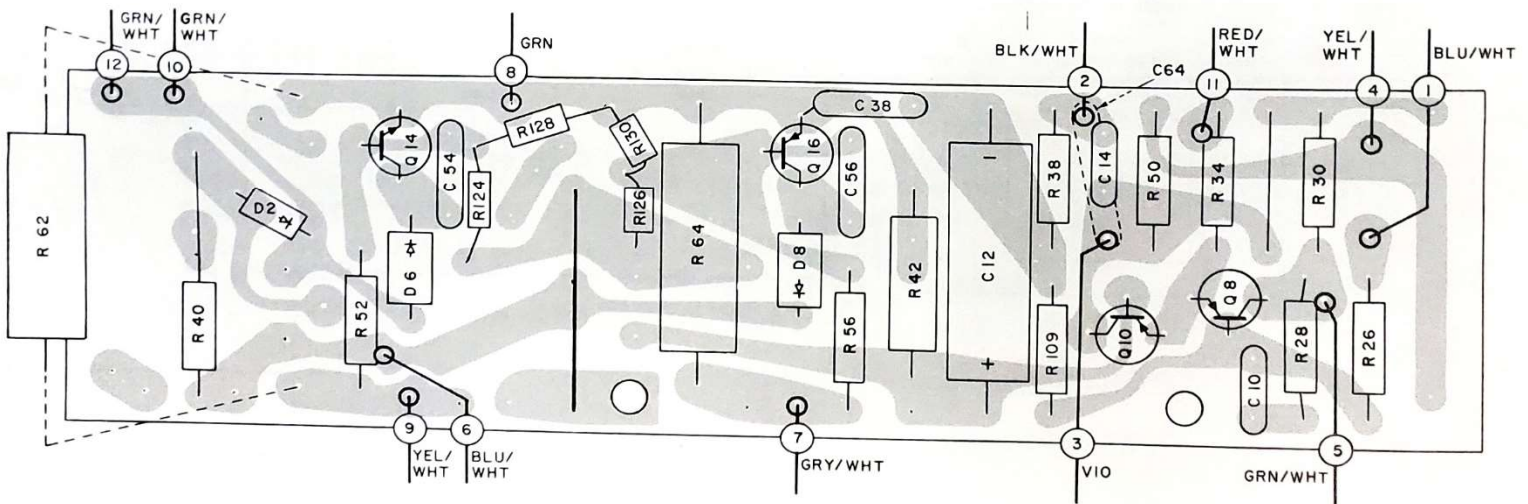
INPUT SECTION PRINTED CIRCUIT BOARD 043-708



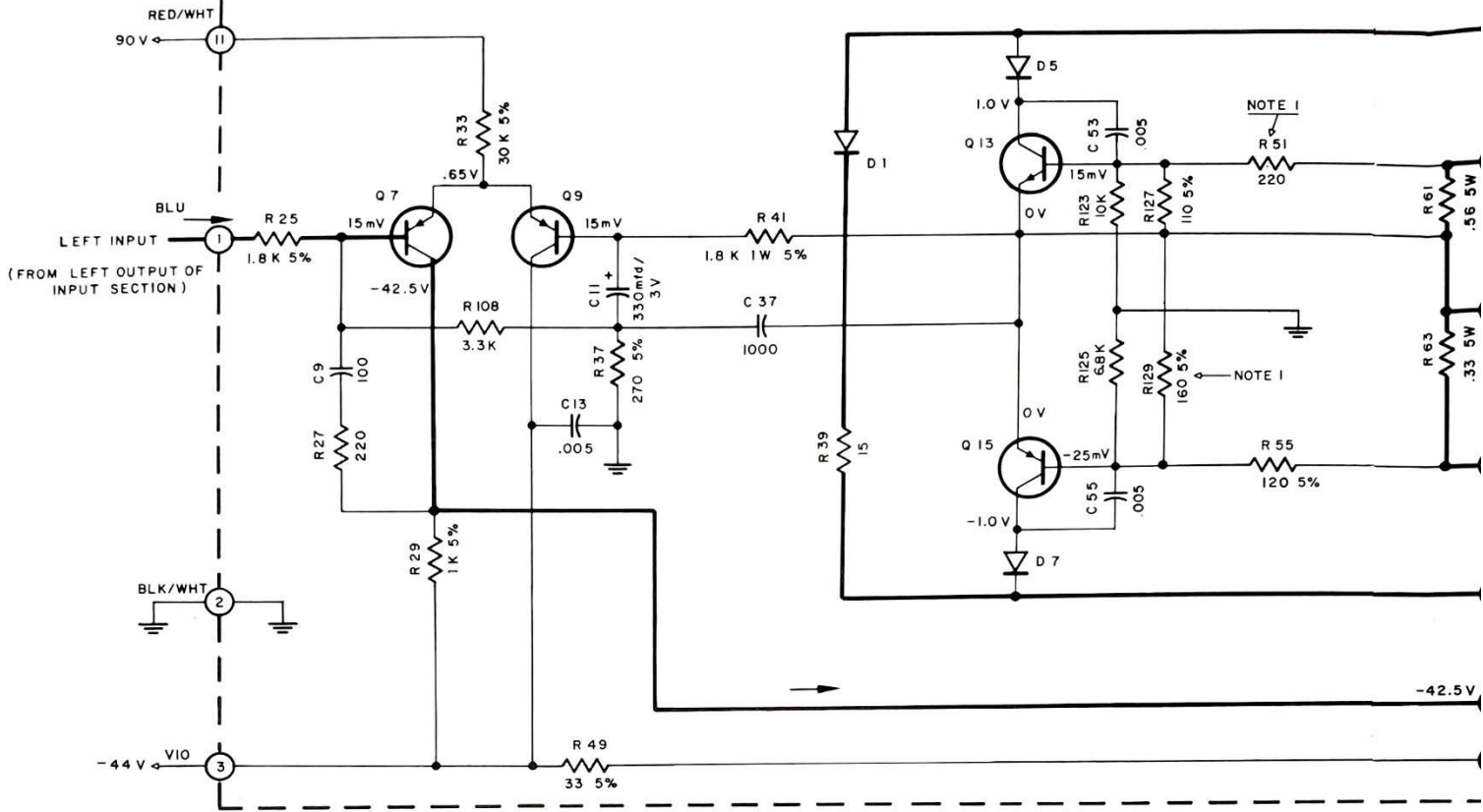
LEFT CHANNEL POWER OUTPUT PRINTED CIRCUIT BOARD 043-804



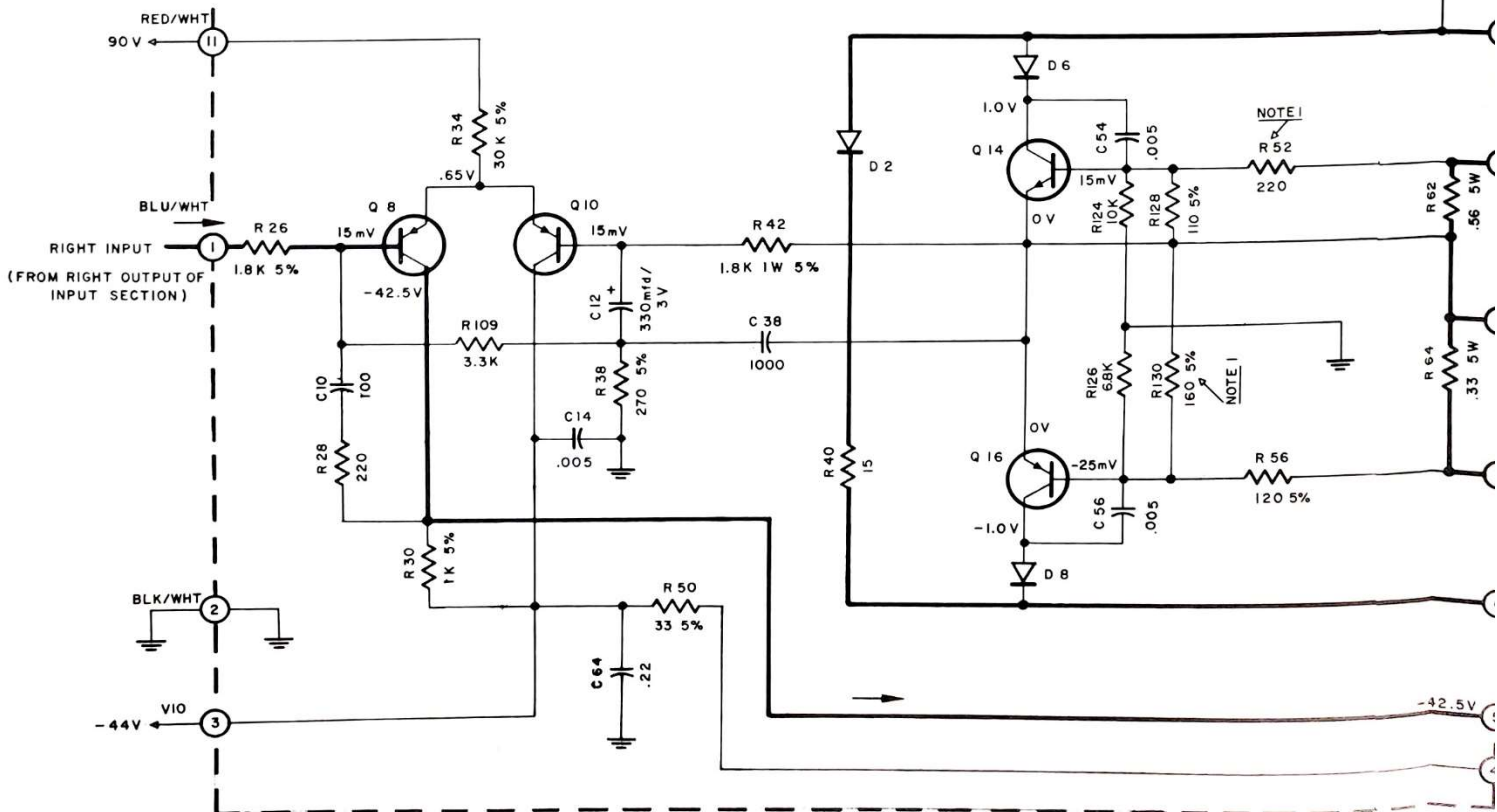
RIGHT CHANNEL POWER OUTPUT PRINTED CIRCUIT BOARD 043-804

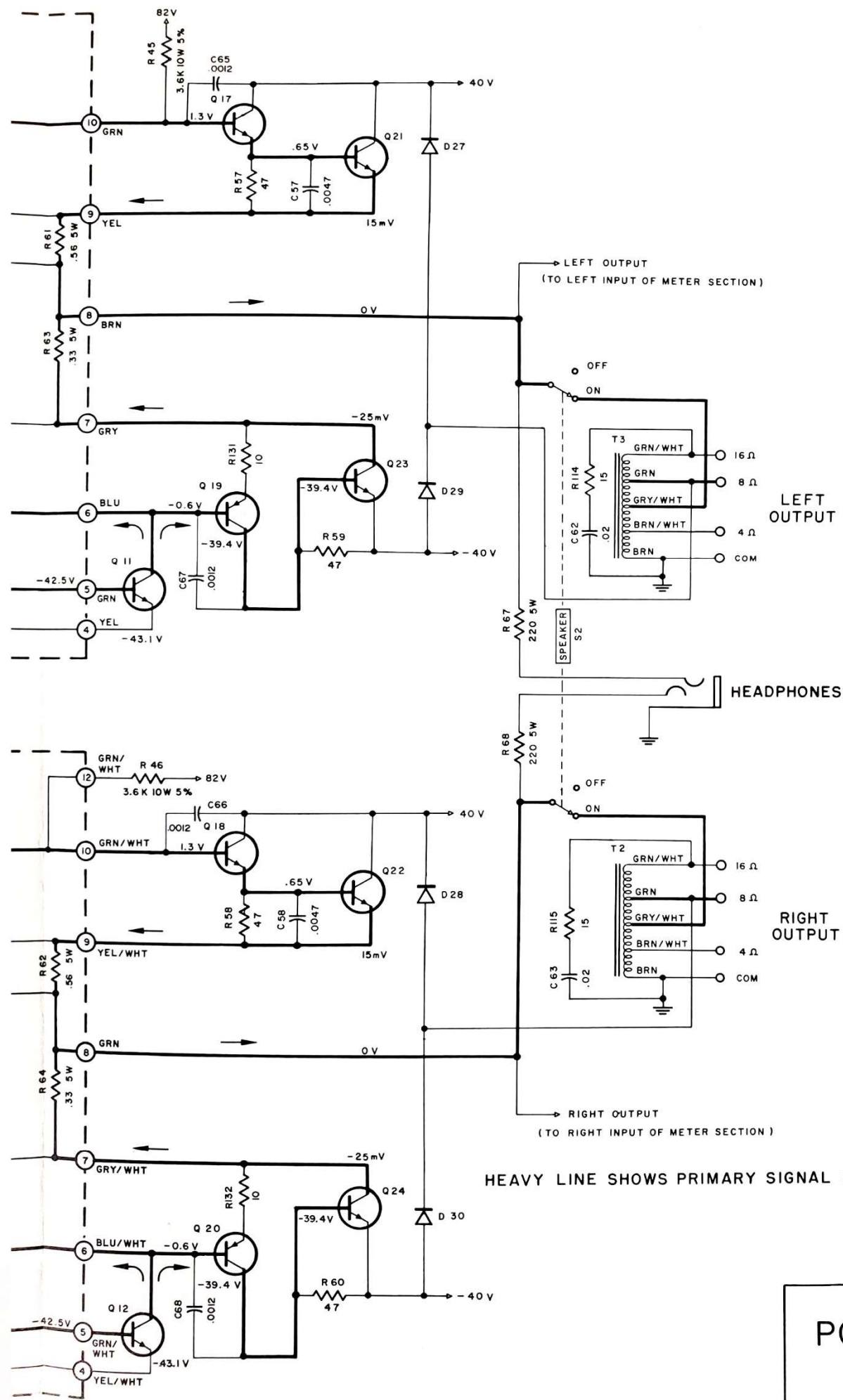


LEFT CHANNEL POWER OUTPUT PRINTED CIRCUIT BOARD 043-804



RIGHT CHANNEL POWER OUTPUT PRINTED CIRCUIT BOARD 043-804



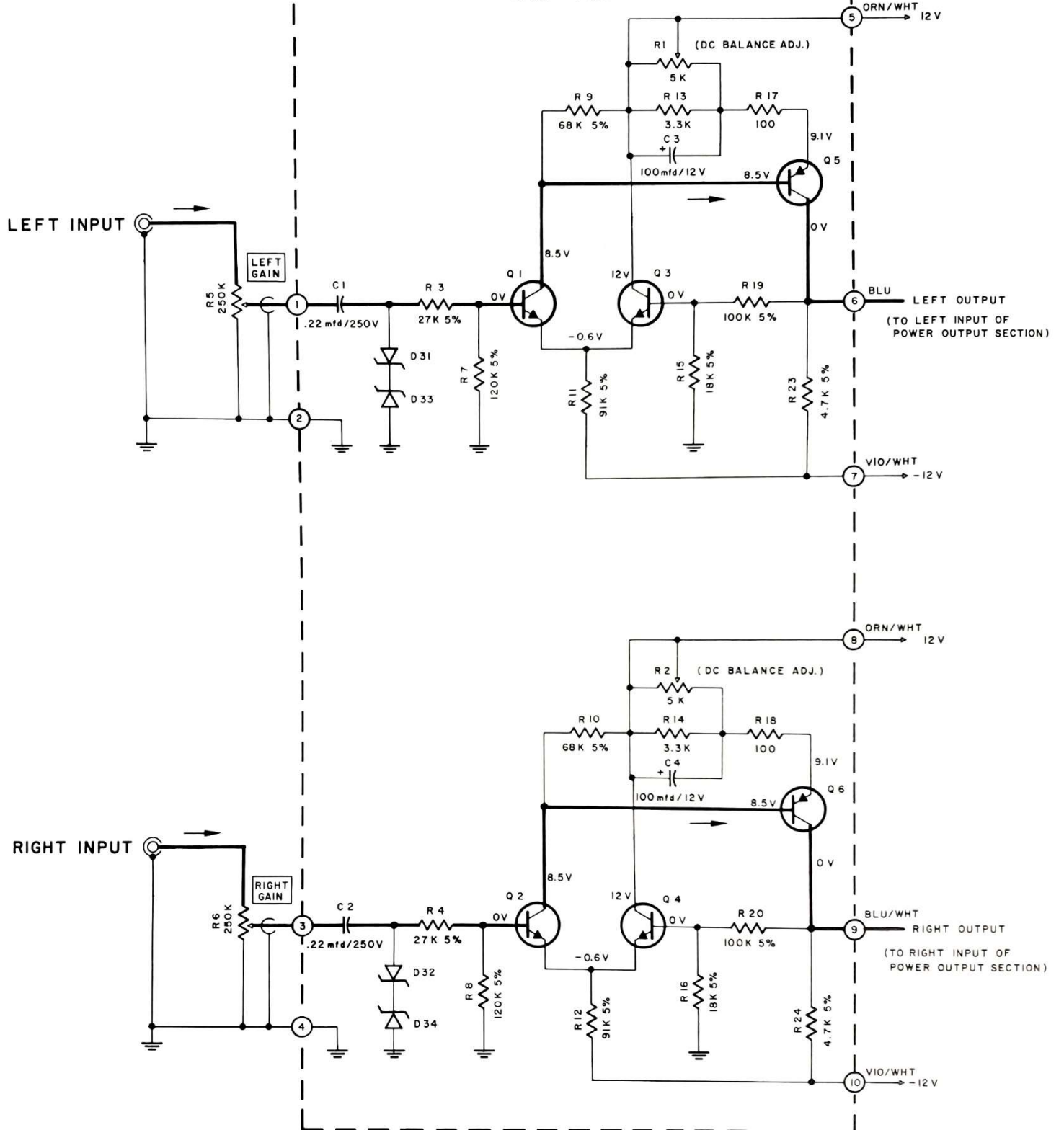


POWER OUTPUT SECTION

MC 2505 154 - 295

INPUT SECTION PRINTED CIRCUIT BOARD

043 - 708

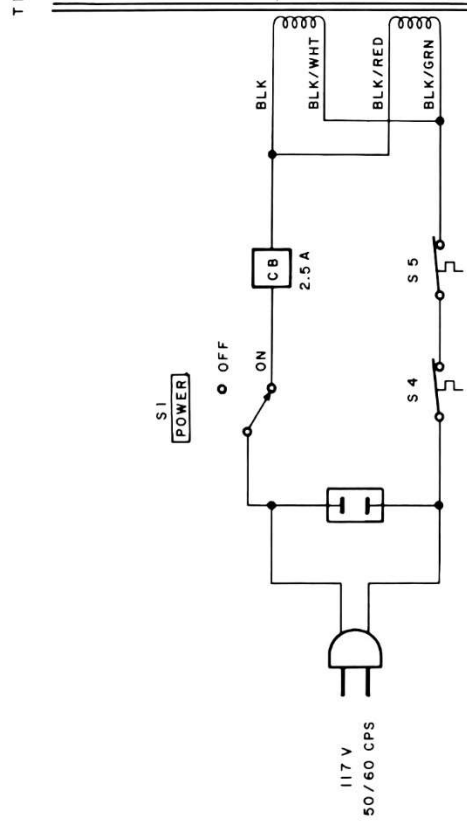
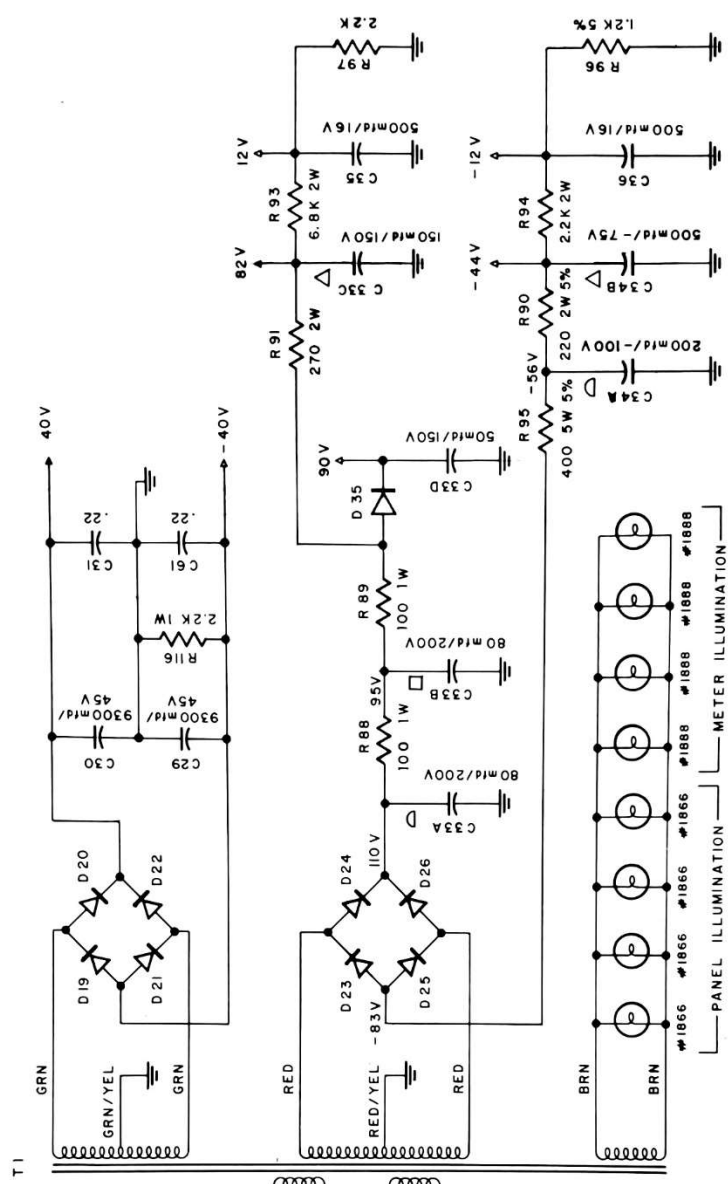


HEAVY LINE SHOWS PRIMARY SIGNAL PATH

INPUT SECTION

MC 2505

154 - 281



POWER SUPPLY SECTION

REPLACEMENT PARTS

All parts not listed are common items obtainable from radio parts jobbers.

Replacement parts may be obtained when ordered by PART NUMBER from:

McIntosh Laboratory, Inc.
Customer Service Department
2 Chambers Street
Binghamton, New York 13903
(telephone 607-723-3512)

CAPACITORS

Symbol Number	Description	Part Number
C1,2	Mylar .22 μ F 250V	064-043
C3,4	Elect. 100 μ F 12V	066-018
C11,12	Elect. 330 μ F 3V	066-105
C23,24	Mylar .47 μ F 250V	064-045
C25,26	Elect. 100 μ F 12V	066-018
C29,30	Elect. 9300 μ F 45V	066-106
C31	Mylar .22 μ F 250V	064-043
C33	Elect. 80/80/150/50 μ F 200/200/150/150V	066-095
C34	Elect. 200/500 μ F -100/-75V	066-093
C35,36	Elect. 500 μ F 16V	066-107
C61	Mylar .22 μ F 250V	064-043
C64	Mylar .22 μ F 250V	064-043

DIODES

D1,2	Si. reference diode	070-040
D5,6	Si. rectifier	070-028
D7,8	Si. rectifier	070-028
D13,14	Ge. signal diode	070-003
D17,18	Ge. signal diode	070-003
D19,20	Si. rectifier	070-041
D21,22	Si. rectifier	070-041
D23,24	Si. rectifier	070-031
D25,26	Si. rectifier	070-031
D27,28	Si. rectifier	070-031
D29,30	Si. rectifier	070-031
D31,32	Zener diode 5.6V	070-035
D33,34	Zener diode 5.6V	070-035
D35	Si. rectifier	070-030

CIRCUIT BREAKERS

CB1	Circuit breaker 2.5 amp	088-001
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METERS

M1,2	Meter (power level)	124-013
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TRANSISTORS

Q1,2	Si. NPN transistor	132-501
Q3,4	Si. NPN transistor	132-501
Q5,6	Si. PNP transistor	132-031
Q7,8	Si. PNP transistor	132-029
Q9,10	Si. PNP transistor	132-029
Q11,12	Si. NPN transistor	132-515
Q13,14	Si. NPN transistor	132-021
Q15,16	Si. PNP transistor	132-032
Q17,18	Si. NPN transistor	132-524
Q19,20	Si. PNP transistor	132-530
Q21,22	Si. NPN transistor	132-536
Q23,24	Si. NPN transistor	132-536
Q25,26	Si. NPN transistor	132-502

POTENTIOMETERS

R1,2	DC balance adjust	134-120
R5,6	Gain controls	134-187
R81,82	Meter calibration adjust	134-120

RESISTORS

R45,46	Wirewound 3.6K 5% 10W	139-047
R61,62	Wirewound .56 ohms 5W	139-048
R63,64	Wirewound .33 ohms 5W	139-036
R67,68	Wirewound 220 ohms 5W	139-009
R95	Wirewound 400 ohms 5W	139-049

SWITCHES

S1	Power on-off switch	146-102
S2	Speaker switch	146-103
S3	Meter range switch	146-109
S4	Thermal cut-out	153-007
S5	Thermal cut-out	153-007

TRANSFORMERS

T1	Power	043-605
T2	Output (right)	043-606
T3	Output (left)	043-607

FRONT PANEL AND TRIM

Front panel	043-809
Front panel end caps	018-120
Knobs (all controls)	043-428

LAMPS

#1866 (for wording)	058-014
#1888 (for meters)	058-029

PANLOC SYSTEM

Shelf bracket (right)	043-592
Shelf bracket (left)	043-593
Mounting template #100	038-179
Hardware package	043-608

MISCELLANEOUS ITEMS

Plastic feet	017-041
Shipping carton	043-819
Owners manual	038-145
Line cord	170-021
Output terminal block	174-001

