MtIntosh MC 40



SERVICE INFORMATION

STARTING WITH SERIAL NO. 100L1

ELECTRICAL SPECIFICATIONS

Power Output 40 watts continuous

Harmonic Distortion
Less than 0.5% at 40 watts output or less, 20Hz through 20,000Hz

Intermodulation Distortion

Less than 0.5% for any combination of frequencies from 20Hz through 20,000Hz if instantaneous peak power is below 80 watts

Phase Shift
Less than +8 degrees, 20Hz through 20,000Hz

Frequency Range
At 40 watts output: +0, -0.1 dB 20Hz through 20,000Hz
+0, -0.5 dB 16Hz through 60,000Hz
At 20 watts output: +0, -1 dB 10Hz through 100kHz

Noise and Hum
90 dB or more below rated output

Output Impedance 4 ohms, 8 ohms, 16 ohms, 125 ohms, 150 ohms, and 600 ohms. The 600 ohm winding is balanced to ground and center tapped.

Output Voltages
25 volts and 70.7 volts

Internal Impedance Less than 10% of rated load impedance

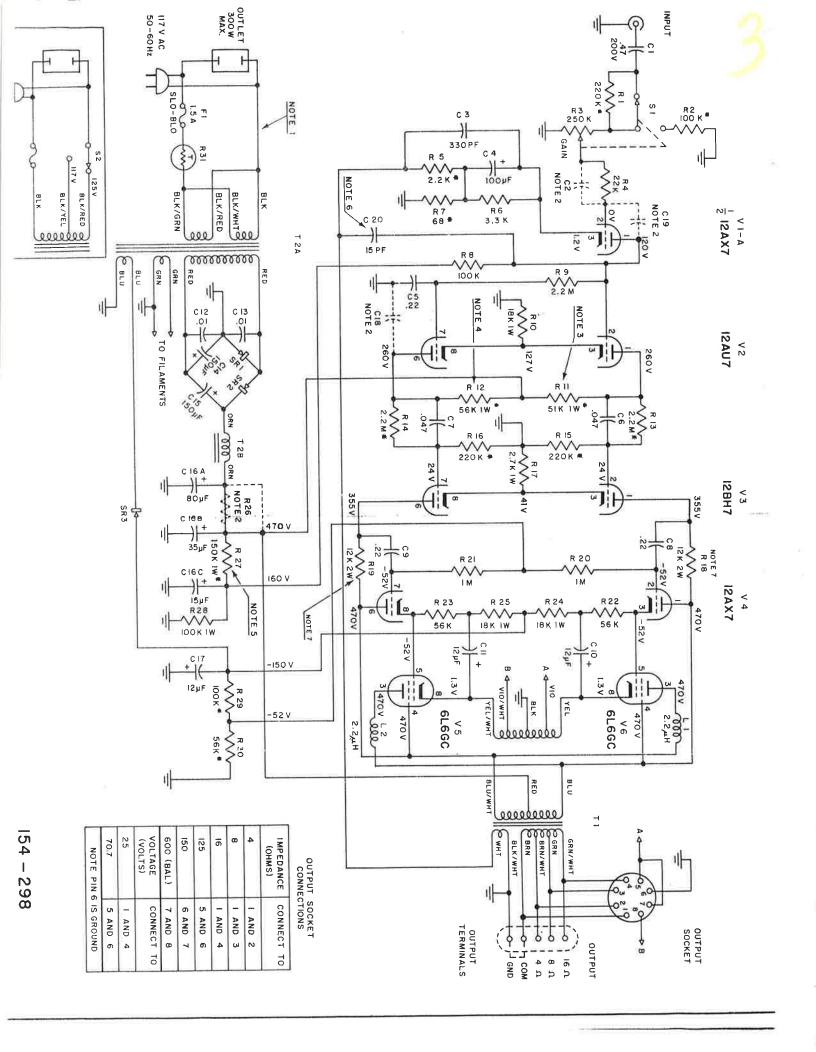
Input

Input impedance: 250,000 ohms
Input sensitivity: 0.5 volts to 30 volts through gain control 2.0 volts with gain control turned fully clockwise

Power Requirements 117 volts AC, 50/60 cps. Uses 145 watts at 40 watts output; 75 watts at zero signal output.

SCHEMATIC NOTES

- 1. In units with serial numbers below 511LO, power transformer T2 is connected as shown in detail "A".
- 2. In units with serial numbers above 428L7; R26, C2, C18, & C19 do not appear.
- 3. In units with serial numbers below 428L7, R11 was 27K.
- 4. In units with serial numbers below 428L7, R12 was 30K.
- 5. In units with serial numbers below 428L7, R27 was 100K.
- 6. In units with serial numbers below 428L7, C 20 will not appear.
- 7. R18 & R19 are matched to within 1% tolerance.



MC 40 VOLTAGE AND RESISTANCE CHART

		DC Volts	AC Volts at	Resistance in
Tube	Pin No.	No. Signal	Rated Output	Ohms Unit Off
12AX7	1	138	1.5	150K*
(V1)	2	0	.3	22K (Gain CCW)
ľ	3	1.2	.29	3.3K
	4 & 5	0	0	0
1	6	0	0	0
1	7	0	0	0
	8	0	0	0
	9	0	6,3	s = -
12AU7	1	270	10	38K
(V2)	2	138	1.5	150K
	3	141	.66	18K
	4 & 5	0	0	0
l	6	270	10	40K*
	7	112	0	2.4M*
l	8	141	.66	18K
	9	0	6.3	
12BH7	1	375	139	12K*
(V3)	2	27	10	210K
	3	45	.35	2.7K
1	4 & 5	0	0	0
	6	375	139	12K
	7	27	10	210K
'	8	45	.35	2.7K
	9	0	6.3	===
12AX7	1	470	102	25*
(V4)	2	-52	139	1M
	3	-52	140	220K
	4 & 5	0	0	0
	6	470	102	30*
	7	-52	139	1M =
	8	-52	140	220K
	9	0	6.3	
6L6GC	1	_	(=	= 2
(V5, V6)	2	0	0	0
	3	470	102	25*
	4	470	102	30*
	5	-52	140	220K
	6	1.00		-
	7	0	6.3	-
	8	1.3	102	30

^{*}This resistance measured with condenser C16A shorted to ground. High impedance VTVM is used to measure the operating voltages.

Unless otherwise specified, resistance values are in ohms, 1/2 watt, and 10% tolerance. Resistors marked with an asterisk (*) are 5% tolerance. Capacitance values smaller than 1 are in microfarads (μF); values greater than 1 are in picofarads (pF). Inductors are in microhenries (μH).

REPLACEMENT PARTS

All parts not listed are common items obtain-able 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				
c 3	Tubular Ceramic 330pF	061-030				
С4	Elect. 100 µF 3V	066-047				
C10,11	Elect. 12µF 250V	066-046				
C14	Elect. 150µF 250V	066-020				
C15	Elect. 150 µF 250V	066-021				
C16	Elect. 35/80/15µF 500/500/450V	066-030				
C17	Elect. 12µF 250V	066-046				
RECTIFIERS						
SR1,2	Si. rectifier	070-032				
SR3	Se. rectifier	070-005				
	FUSE					
Fl	Fuse 1.5 amp Slo-Blo	089-003				
	CHOKES					
L1,2	Choke 2.2mH	122-001				
RESISTORS & POTENTIOMETERS						
R3	Gain control	134-014				
R31	Thermistor	144-006				
	SWITCH					
\$2	Line voltage switch	148-001				
	TUBES					
V1	12AX7	165-019				
V2	12AU7	165-018				
V3	12ВН7	165-020				
$\Lambda^{\uparrow\uparrow}$	12AX7	165-019				
V5,6	6L6GC	165-014				
TRANSFORMERS						
Tl	Output	043-118				
T2	Power (100L1 to 511L0)	043-114				
T 2	Power (511LO to latest)	043-655				

MISCELLANEOUS ITEMS

Mounting flanges	001-271
Plastic feet	017-040
Owners manual	038-006
Mounting template	038-008
Bottom cover	043 - 250
Hardware package	043-434
Gain control kmob	090-017
Octal plug cap	127-004
Octal plug	127-006
Line cord	170-021
Fuseholder	178-001
Shipping carton	033-013

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