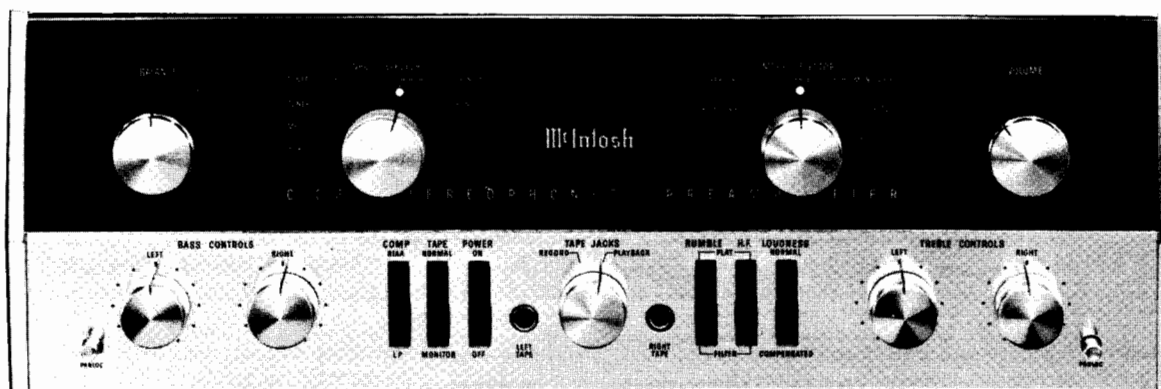


McIntosh

C 22



SERVICE INFORMATION

STARTING WITH SERIAL NO. 10A01

McINTOSH LABORATORY INC. 2 CHAMBERS STREET BINGHAMTON, NEW YORK

C 22

ELECTRICAL SPECIFICATIONS

Frequency Response

+0.5 to -0.5 dB, 20Hz to 20,000Hz

Distortion

Less than 0.2% at 10 volts output

Less than 0.02% at 3 volts output

Input Sensitivity (phono 1, phono 2, tape head)

2 millivolts for 2.5 volts output at 1kHz

Input Sensitivity (Microphone)

2.5 millivolts for 2.5 volts output

Input Sensitivity (aux, tape, tuner)

0.25 volts for 2.5 volts output

Hum And Noise (phono 1, phono 2, tape head)

74 dB below 10 millivolts input

Hum And Noise (aux, tape, tuner)

85 dB below rated output

Output (main)

2.5 volts with rated input. Up to 10 volts can be developed without distortion.

Output (tape)

0.25 volts with rated input. Phono input signal of 10 millivolts produces 1.25 volts output.

Output (L & R)

1.0 volts with rated input on both channels. A level control adjusts output.

Bass Control

+20 dB at 20Hz

Treble Control

+20 dB at 20,000Hz

LF Filter

Flat or sharp cutoff below 50Hz (down 30 dB @ 20Hz).

HF Filter

Flat or sharp cutoff above 5000Hz (down 30 dB @ 20,000Hz).

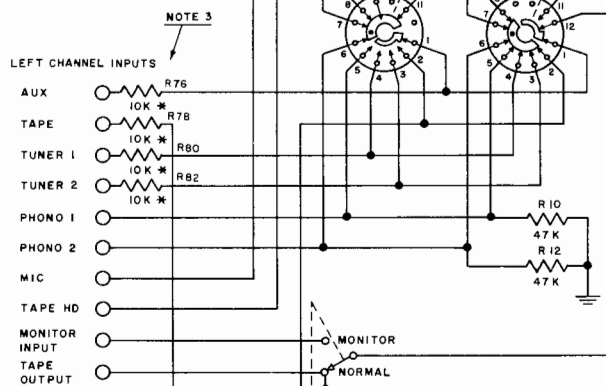
Unless otherwise specified, resistance values are in ohms, 1/2 watt, and 10% tolerance. Capacitance values smaller than 1 are in microfarads (μF); values greater than 1 are in picofarads (pF). Resistors marked with * are 1/4W.

The terminal numbering of rotary switches and printed circuit board wires is for reference only.

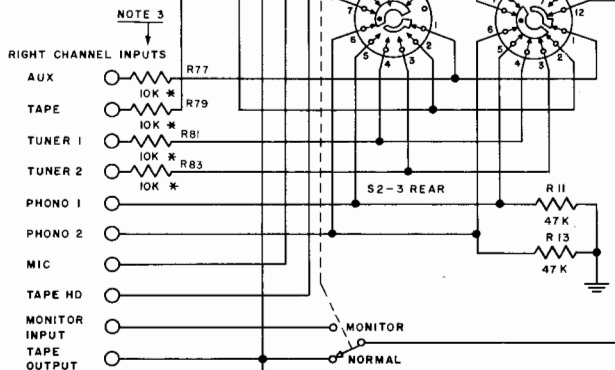
All voltages are measured under the following conditions:

1. Use of an 11 megohm input impedance VTVM
2. All voltages $\pm 10\%$ with respect to ground
3. AC input at 117 volts, 50/60 cycles
4. No signal at input terminals
5. Front panel controls at normal positions

LEFT CHANNEL



RIGHT CHANNEL



NOTE 1

NOTE 2

NOTE 3

NOTE 4

NOTE 5

NOTE 6

NOTE 7

NOTE 8

NOTE 9

NOTE 10

NOTE 11

NOTE 12

NOTE 13

NOTE 14

NOTE 15

NOTE 16

NOTE 17

NOTE 18

NOTE 19

NOTE 20

NOTE 21

NOTE 22

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NOTE 90

NOTE 91

NOTE 92

NOTE 93

NOTE 94

NOTE 95

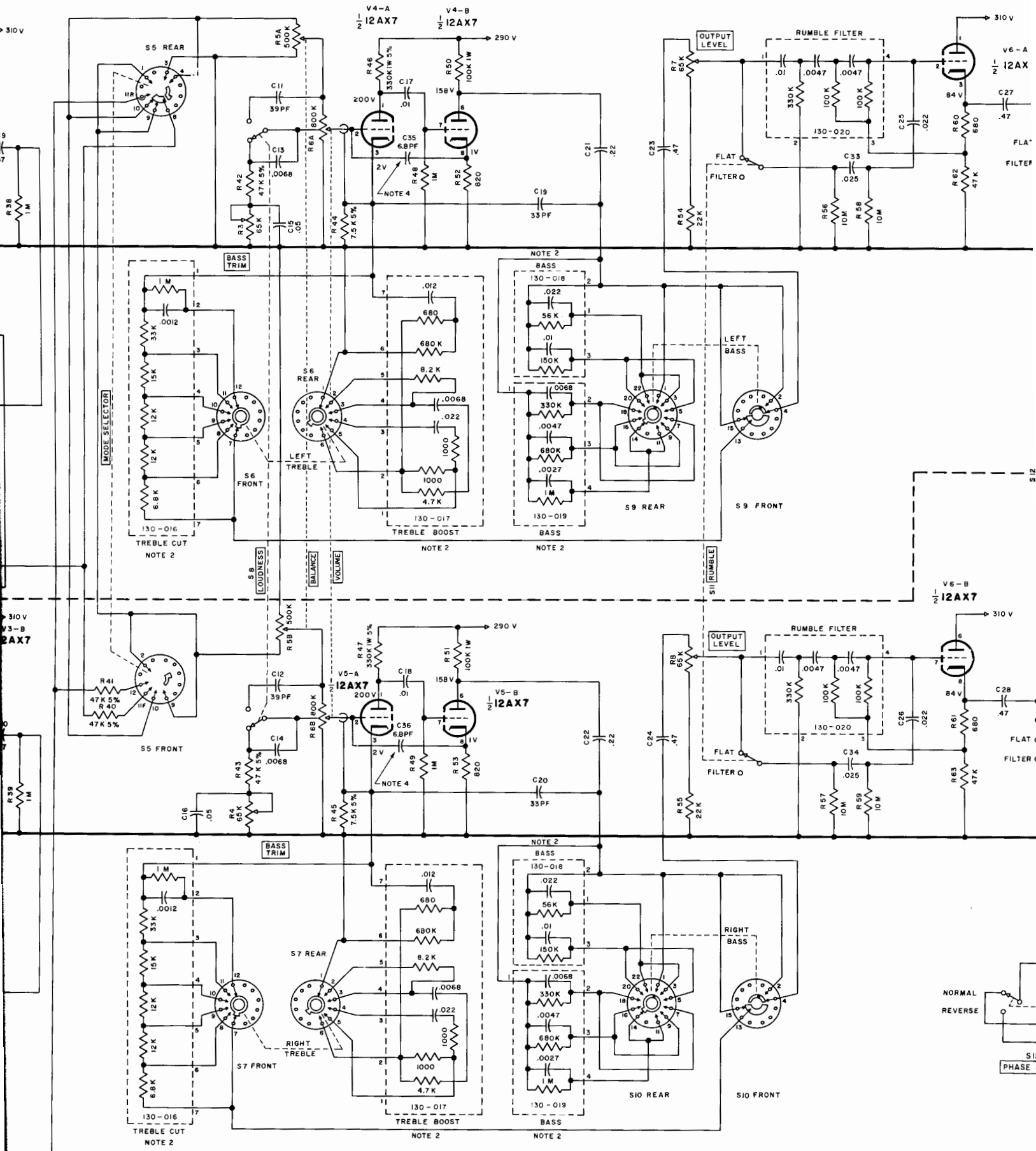
NOTE 96

NOTE 97

NOTE 98

NOTE 99

NOTE 100



REPLACEMENT

Replacement parts may be obtained from
by PART NUMBER from:

McIntosh Labor
Customer Servic
2 Chambers Stre
Binghamton, New
(telephone 607-

CAPACITC

Symbol Number	Description	
C3,4	Elect.	10
C29	Elect.	1
C30	Elect.	10
C31	Elect.	50
C32	Elect.	12

DIODE®

D1,2	Se. rectifier
D3,4	Si. rectifier
D5,6	Si. rectifier

FUSE

F1	Fuse	1 amp
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CHOK

L1,2	Choke	100 mH
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POTENTIAL

R1,2	Tape equal.
R1,2	Tape equal.
R3,4	Bass trim
R3,4	Bass trim
R5	Balance cont
R6	Volume contr
R7,8,9	Output level
R7,8,9	Output level

RESIS

R16,17	Low noise 33
R20,21	Low noise 1.
R46,47	Low noise 33
R67	Wirewound 33
R74,75	Wirewound 7.

-
- 117 V
50/60 CPS
- POWER
- NOTE 5
- RED
- RED/YEL
- GRN
- 30 V
- 290 V
- 268 V
- POWER SUPPLY
- 154 - 317

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
C3,4	Elect. 100 μ F 3V	066-047
C29	Elect. 40 μ F 200V	066-049
C30	Elect. 1000/40/20/20 μ F 25/200/350/350V	066-037
C31	Elect. 50/50/50 μ F 350/350/300V	066-033
C32	Elect. 1200/1200 μ F 30/30V	066-029

DIODES

D1,2	Se. rectifier	070-005
D3,4	Si. rectifier	070-014
D5,6	Si. rectifier	070-014

FUSES

F1	Fuse 1 amp	089-002
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CHOKES

L1,2	Choke 100 mH	122-004
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POTENTIOMETERS

R1,2	Tape equal. (1/2 Dia.)	134-059
R1,2	Tape equal. (5/8 Dia.)	134-186
R3,4	Bass trim (1/2 Dia.)	134-059
R3,4	Bass trim (5/8 Dia.)	134-186
R5	Balance control	134-061
R6	Volume control	134-060
R7,8,9	Output level (5/8 Dia.)	134-186
R7,8,9	Output level (1/2 Dia.)	134-059

RESISTORS

R16,17	Low noise 330K 5% 1W	144-005
R20,21	Low noise 1.8K 5% 1/2W	144-002
R46,47	Low noise 330K 5% 1W	144-005
R67	Wirewound 33 ohm 10% 5W	139-007
R74,75	Wirewound 7.5 ohm 10% 5W	139-010

SWITCHES

S1	Tape jacks switch	146-053
S2	Input selector switch	146-049
S3	Tape switch	148-006
S4	Comp. switch	148-006
S5	Mode selector switch	149-108
S6,7	Treble control switch	146-052
S8	Loudness switch	148-006
S9,10	Bass control switch	146-051
S11	Rumble switch	148-006
S12	H.F. filter switch	148-006
S13	Power switch	148-005
S14	Pilot lamp switch	148-003
S15	Phase switch	148-007

TRANSFORMERS

T1	Power transformer	159-019
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MODULES

Treble cut	130-016
Treble boost	130-017
Bass, upper	130-018
Bass, lower	130-019
Rumble filter	130-020
H.F. filter	130-021
Phono equalization	130-026

LAMPS

#334 (indicator)	058-003
Festoon (indicator glass)	058-033

FRONT PANEL & TRIM

Front panel	043-359
Front panel glass	016-034
End cap, right	018-043
End cap, left	018-044
Volume control knob	043-253
Mode selector knob	043-253
Input selector knob	043-253
Balance knob	043-253
Bass control knob	043-428
Tape jacks knob	043-428
Treble control knob	043-428
Rocker switch knob	090-007
Level set knob	090-010

SWITCHES

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S4	Comp. switch	148-006
S5	Mode selector switch	149-108
S6,7	Treble control switch	146-052
S8	Loudness switch	148-006
S9,10	Bass control switch	146-051
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Bass control knob	043-428
Tape jacks knob	043-428
Treble control knob	043-428
Rocker switch knob	090-007
Level set knob	090-010

MOUNTING SYSTEM

Shelf bracket (right)	043-592
Shelf bracket (left)	043-593
Mounting template #100	038-179
Hardware package	043-448

MISCELLANEOUS ITEMS

Line cord	170-021
Fuse holder	178-001
Shipping carton	033-027
Owners manual	038-027
Plastic feet	017-041
Shorting plug	127-001
Indicator glass	016-036
Audio cable (6')	170-015
Audio cable (1 phone, 1 phono)	170-016

20C0425S6-8M270