



MC INTOSH
MODELS C-4, C-4P



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TRADE NAME	McIntosh Models C-4, C-4P
MANUFACTURER	McIntosh Laboratory, Inc., 320 Water St., Binghamton, N. Y.
TYPE SET	5 Channel Audio Preamplifier and Compensator
TUBES (Three)	Types 12AX7 Preamplifier, 12AX7 Cathode Follower, 12AX7 AF Amp. -Cathode Follower
POWER SUPPLY	300-400 Volts DC B+, 6.3 Volts Filament

MODEL C-4P INCLUDES MODEL D-8 POWER SUPPLY UNIT. FOR SERVICE INFORMATION ON THE POWER SUPPLY UNIT, SEE PHOTOFACT SET 314-FOLDER 8.

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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12AX7

12AX7

12AX7

V1

V2

V3

R9

R20

C9

C11

C12

C13

C5

C6

C1

C8

R13

R33

C4

R31

R32

C7

C10

C14

C17

C18

C19

C23

C24

C25

C26

C20

C22

C27

C28

R42

C15

C16

CHASSIS-TOP VIEW

PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V1	Pre-amplifier	12AX7	
V2	A.F. Amplifier	12AX7	

ITEM No.	USE	TYPE	NOTES
V3	A.F. Amplifier-Cathode Follower	12AX7	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	MC INTOSH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.
C1	50	6		SRE8V50	BBR50-6	TC29	TD-50-6	MMT-650
C2A	30	250						TVA-1100
C2B	30	300						T-625
C2C	20	450						MTD-4510

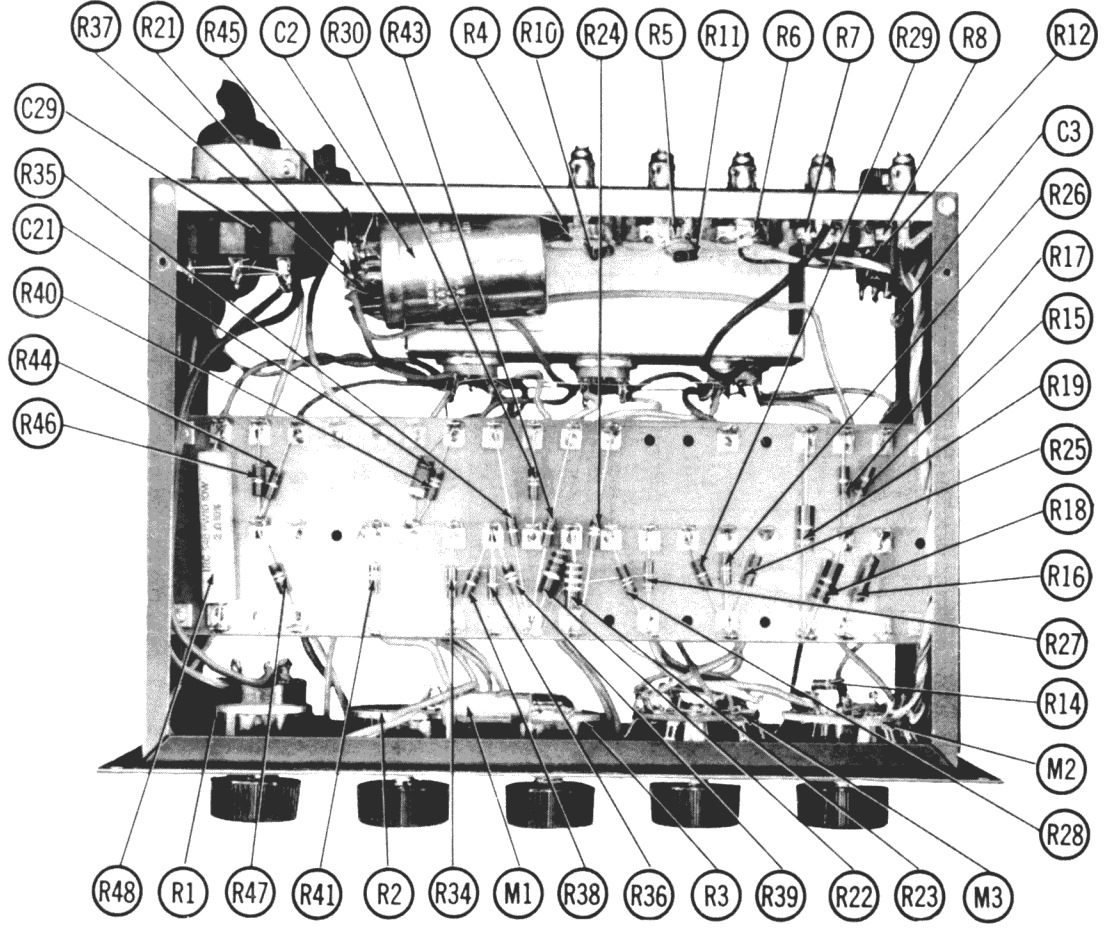
* Non-catalog item.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING		REPLACEMENT DATA								NOTES
	CAP.	VOLT	MC INTOSH PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	EBE PART No.	MALLORY PART No.	SPRAGUE PART No.		
C3	100			NP0-S1100	D6-101	TZ30	ED-100	MCB235	MS-31		
C4	.001	400		1464-001		IR5D1	ED-1000	MCB255	MS-21		
C5	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47		
C6	.033	400		BPD-03	DF-303	CUB6S33		PT6133	6TM-S33		
C7	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47		
C8	.0022	400		1464-0022		IR5D22			MS-222		
C9	.470	200		1464-00047		IR5T47			MS-347		
C10	.001	400		1464-001		IR5D1	ED-1000	MCB255	MS-21		
C11	.001	400		1464-001		IR5D1	ED-1000	MCB255	MS-21		
C12	.0018	400		1464-0018		IR5D18	ED-1800	MCB255	MS-218		
C13	.0033	400		1464-0033		IR5D33			MS-233		
C14	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47		
C15	.0047	400		BPD-0047	D6-472	CUB6D47	ED-.0047	PT6247	4TM-D47		
C16	1500			1464-0015		IR5D15	ED-1500		MS-215		
C17	1500			1464-0015		IR5D15	ED-1500		MS-215		
C18	.47	200		P288N-47		CUB2P47		PT4047	2TM-P47		
C19	.001	400		1464-001		IR5D1	ED-1000	MCB255	MS-21		
C20	.01	400			D6-470	TZ22	ED-47	ZT-5447	5TCC-Q47		
C21	.47	200		NP0-S147		IR5D22			MS-222		
C22	.0022	400		1464-0022							
C23	.022	400			DF-104	CUB4P1		PT401	4TM-P1		
C24	.1	400		P488N-1	DF-303	CUB6S33		PT6133	6TM-S33		
C25	.033	400		BPD-03		CUB2P47		PT4047	2TM-P47		
C26	.47	200		P288N-47	DD3-103	DK082	ED-.01	DC-511	5HK-251		
C27A	10000			BPD-2X01	DD3-103	DK082	ED-.01	DC-511	5HK-251		
C27B	10000			BPD-2X01		DK082	ED-.01	DC-511	5HK-251		
C28A	10000			BPD-2X01	DD-472	K079	ED-.0047	UC-5247	5HK-D47		
C29	4700			BPD-0047							

CHASSIS—BOTTOM VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS

ITEM No.	RESIST-ANCE	RATING	REPLACEMENT DATA				INSTALLATION NOTES
			MC INTOSH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	
R1A	1Meg	$\frac{1}{2}$		AB-70	Q13-137	U53	Volume
B	Shaft			AK-4	Not Req.	Not Req.	Attach to R1A
C	Switch			KB-2	76-2	US-27	Attach to R1A
R2A	250K	$\frac{1}{2}$		AB-51	Q13-130	U44	Treble
B	Shaft			AK-4	Not Req.	Not Req.	Attach to R2A
R3A	1Meg	$\frac{1}{2}$		AB-70	Q13-137	U53	Bass
B	Shaft			AK-4	Not Req.	Not Req.	Attach to R3A
R4A	100K	$\frac{1}{2}$		AB-41	Q13-128	U39	Level, tape
B	Shaft			AK-1	RQ	Not Req.	Attach to R4A
R5A	100K	$\frac{1}{2}$		AB-41	Q13-128	U39	Level, tuner
B	Shaft			AK-1	RQ	Not Req.	Attach to R5A
R6A	100K	$\frac{1}{2}$		AB-41	Q13-128	U39	Level, Mic Input
B	Shaft			AK-1	RQ	Not Req.	Attach to R6A
R7A	100K	$\frac{1}{2}$		AB-41	Q13-128	U39	Level, Phono #1 Input
B	Shaft			AK-1	RQ	Not Req.	Attach to R7A
R8A	100K	$\frac{1}{2}$		AB-41	Q13-128	U39	Level, Phono #2 Input
B	Shaft			AK-1	RQ	Not Req.	Attach to R8A
R9A	100K	$\frac{1}{2}$		AB-40	Q1-128	U41	Load, Phono #2
B	Shaft			AK-9	PQ	Not Req.	Attach to R9A
C	Switch			KB-2	76-2	US-27	Attach to R9A

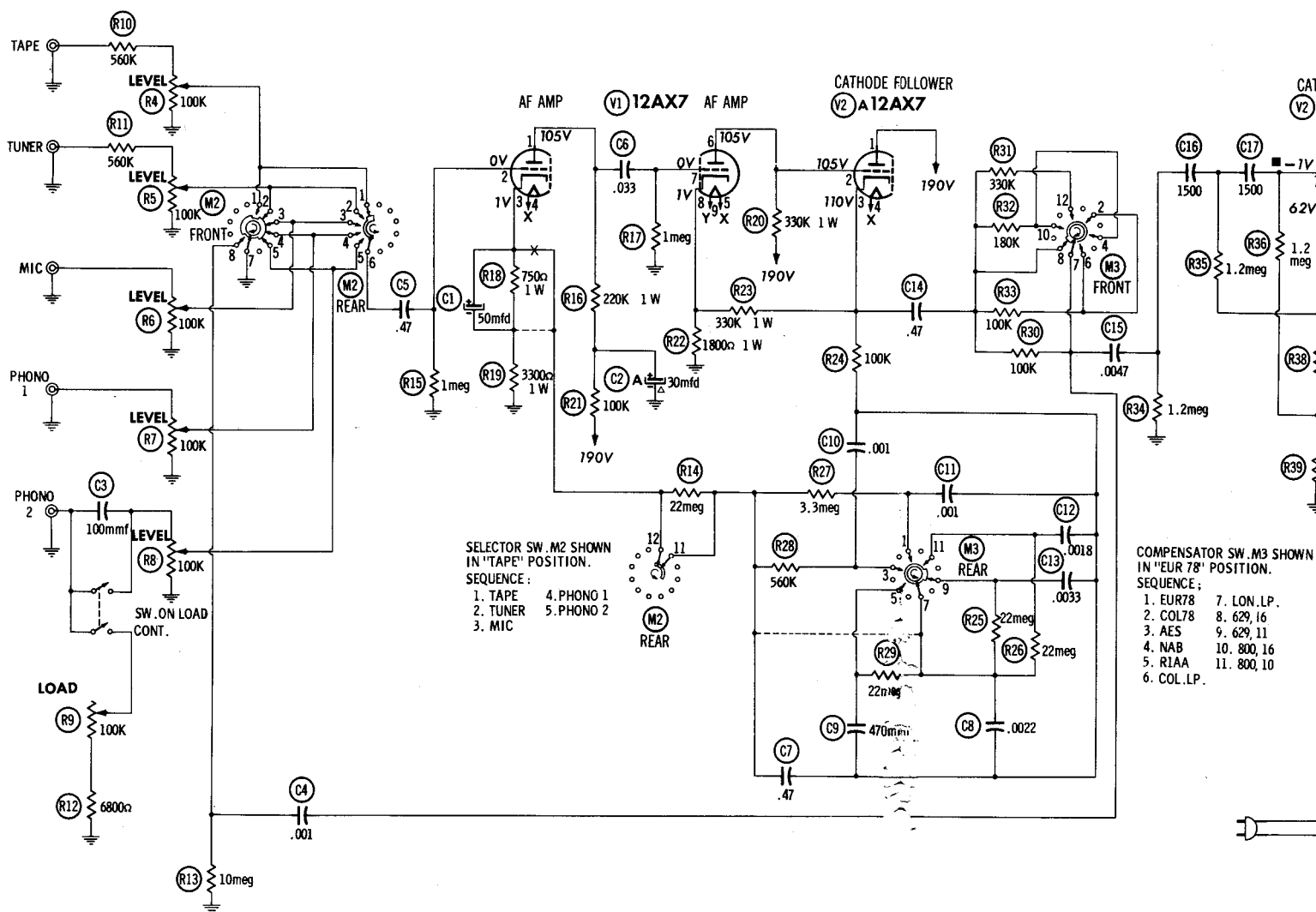
RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA		NOTES	ITEM No.	RATING	REPLACEMENT DATA		NOTES
		OHMS	WATT				MC INTOSH PART No.	IRC PART No.	
R10	560K				R29	22Meg		BTS-560K	
R11	560K				R30	100K		BTS-100K	
R12	6800Q				R31	330K		BTS-330K	
R13	10Meg				R32	180K		BTS-180K	
R14	22Meg				R33	100K		BTS-100K	
R15	1Meg				R34	1.2Meg		BTS-1.2Meg	
R16	220K				R35	1.2Meg		BTS-1.2Meg	
R17	1Meg				R36	1.2Meg		BTS-1.2Meg	
R18	750Q 5%				R37	100K		BTS-100K	
R19	3300Q				R38	1800Q		TS-1800	
R20	330K				R39	100K		BTS-100K	
R21	100K				R40	10K		BTS-10K	
R22	1800Q				R41	330K		BTS-330K	
R23	330K				R42	1800Q		BTS-1800	
R24	100K				R43	1Meg		BTS-1Meg	
R25	22Meg				R44	12K		BTS-12K	
R26	3.3Meg				R45	1200Q		BTS-1200	
R27	560K				R46	100K		BTS-100K	
R28					R48	2Q		PW10-2	

MISCELLANEOUS

ITEM No.	PART NAME	MC INTOSH PART No.	NOTES
M1	Pilot Light		
M2	Switch		
M3	Switch		



SELECTOR SW. M2 SHOWN
IN "TAPE" POSITION.
SEQUENCE:
1. TAPE 4. PHONO 1
2. TUNER 5. PHONO 2
3. MIC

COMPENSATOR SW. M3 SHOWN
IN "EUR 78" POSITION.
SEQUENCE:
1. EUR78 7. LON. LP.
2. COL78 8. 629, 16
3. AES 9. 629, 11
4. NAB 10. 800, 16
5. R1AA 11. 800, 10
6. COL. LP.

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7	† 430K	1Meg	4000Ω	60Ω	60Ω	† 440K	1Meg	1800Ω	60Ω
V2	12AX7	† 112K	† 440K	330K	60Ω	60Ω	† 112K	1.3Meg	100K	60Ω
V3	12AX7	† 340K	10K	1800Ω	60Ω	60Ω	† 12K	1.1Meg	100K	60Ω

† MEASURED FROM PIN 4 OF POWER SOCKET.
 ‡ MEASURED FROM PIN 8 OF V2.
 • MEASURED FROM PIN 8 OF V3.

1. DC voltage measure
 2. AC voltages measure
 3. Socket connections
 4. Measured values
 5. Line voltage mal
 6. Nominal tolerance
 7. variation of +15% in
 8. All controls at m

