



MC INTOSH
MODELS C-4, C-4P



MC INTOSH
MODELS C-4, C-4P

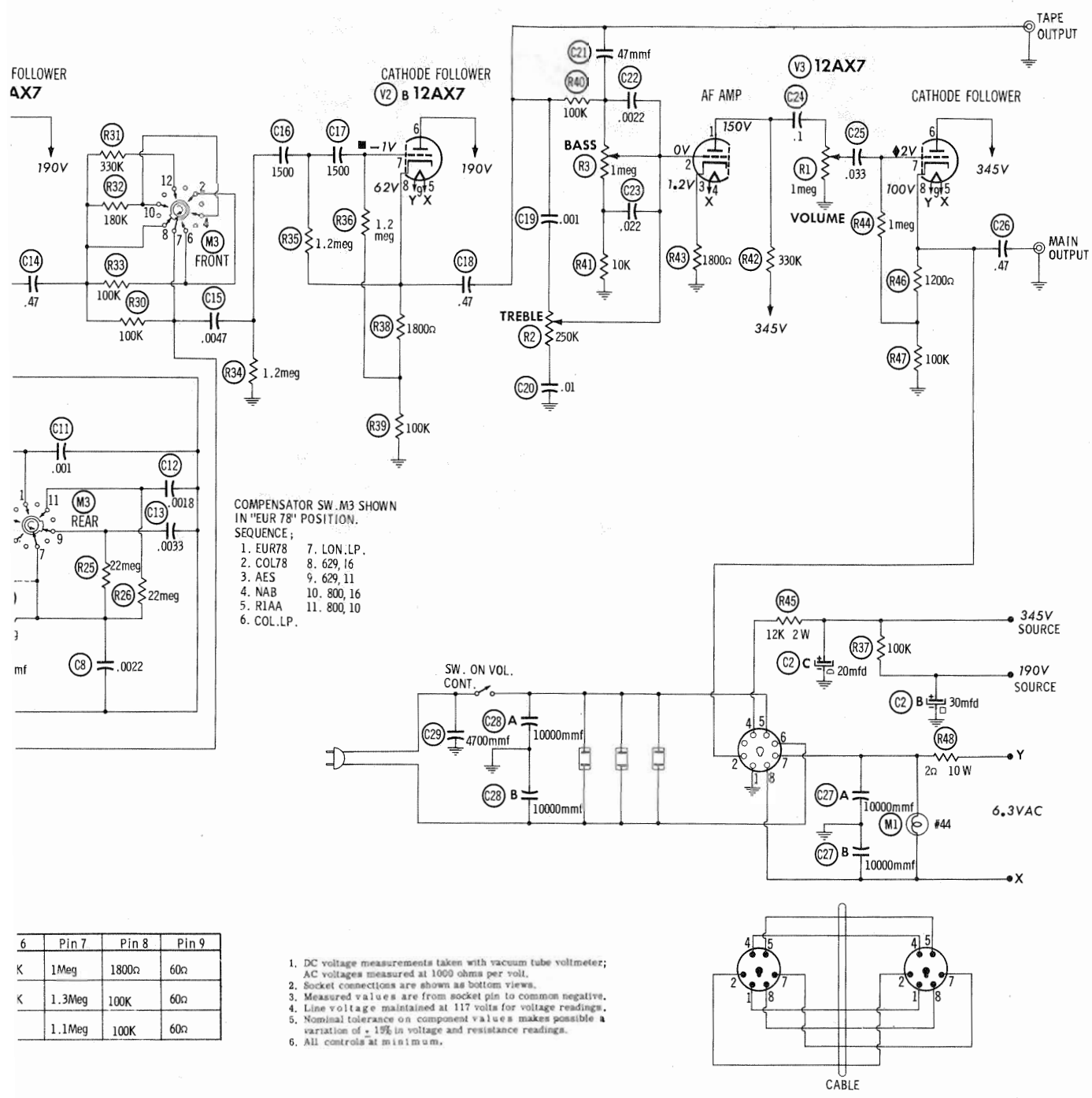
TRADE NAME	McIntosh Models C-4, C-4P
MANUFACTURER	McIntosh Laboratory, Inc., 320 Water St., Binghamton, N. Y.
TYPE SET	5 Channel Audio Preamplifier and Compensator
TUBES (Three)	Types 12AX7 Preamplifier, 12AX7 Cathode Follower, 12AX7 AF Amp. -Cathode Follower
POWER SUPPLY	300-400 Volts DC B+, 6.3 Volts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

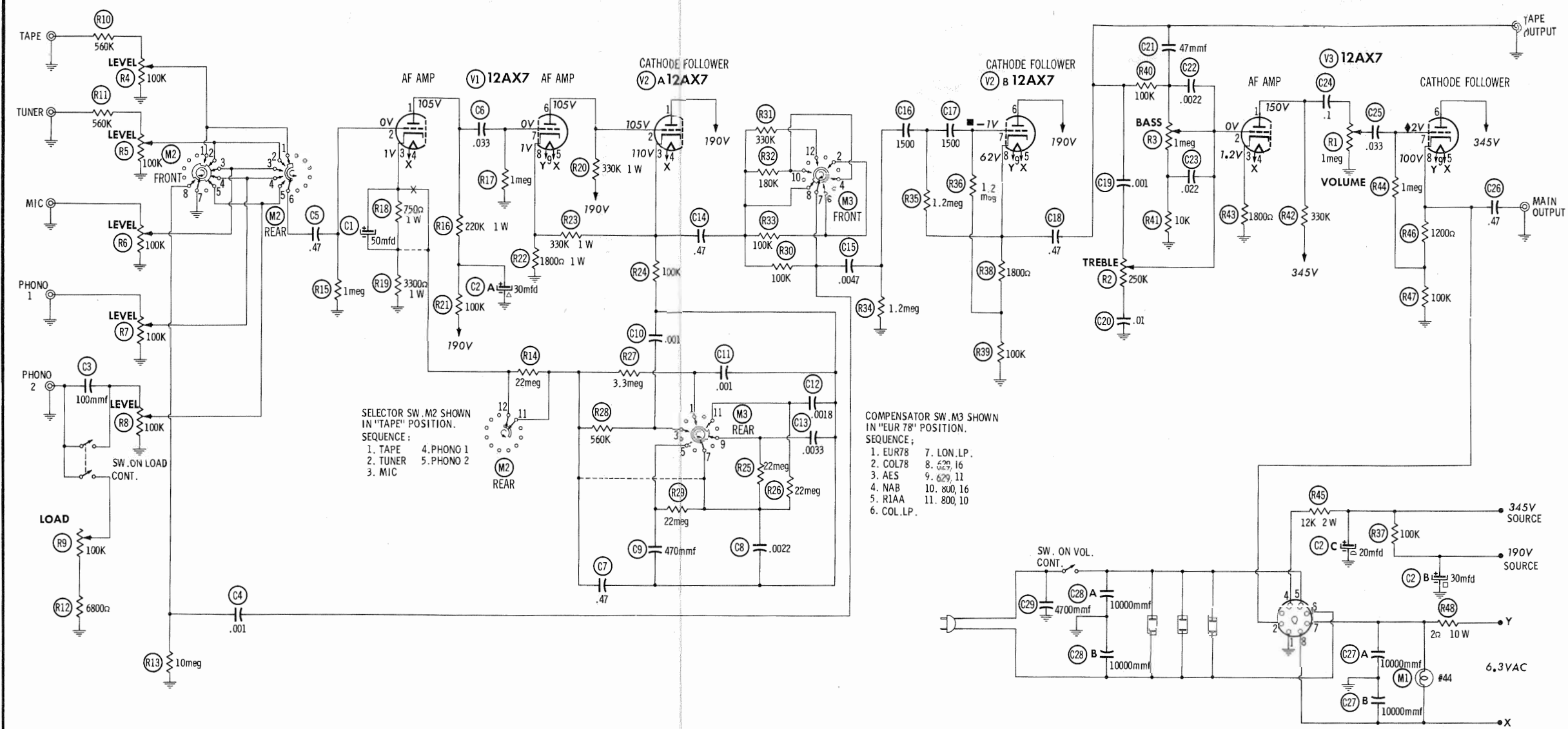
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed."

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	Pin 7	Pin 8	Pin 9
K	1Meg	1800Ω	60Ω
K	1.3Meg	100K	60Ω
	1.1Meg	100K	60Ω

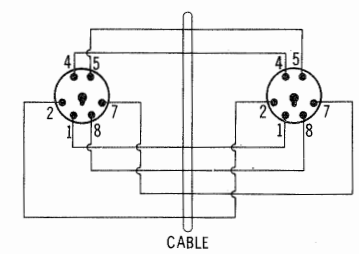
1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
6. All controls at minimum.



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	† 112K	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 measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible ± variation of ± 1% in voltage and resistance readings.
6. All controls at minimum.

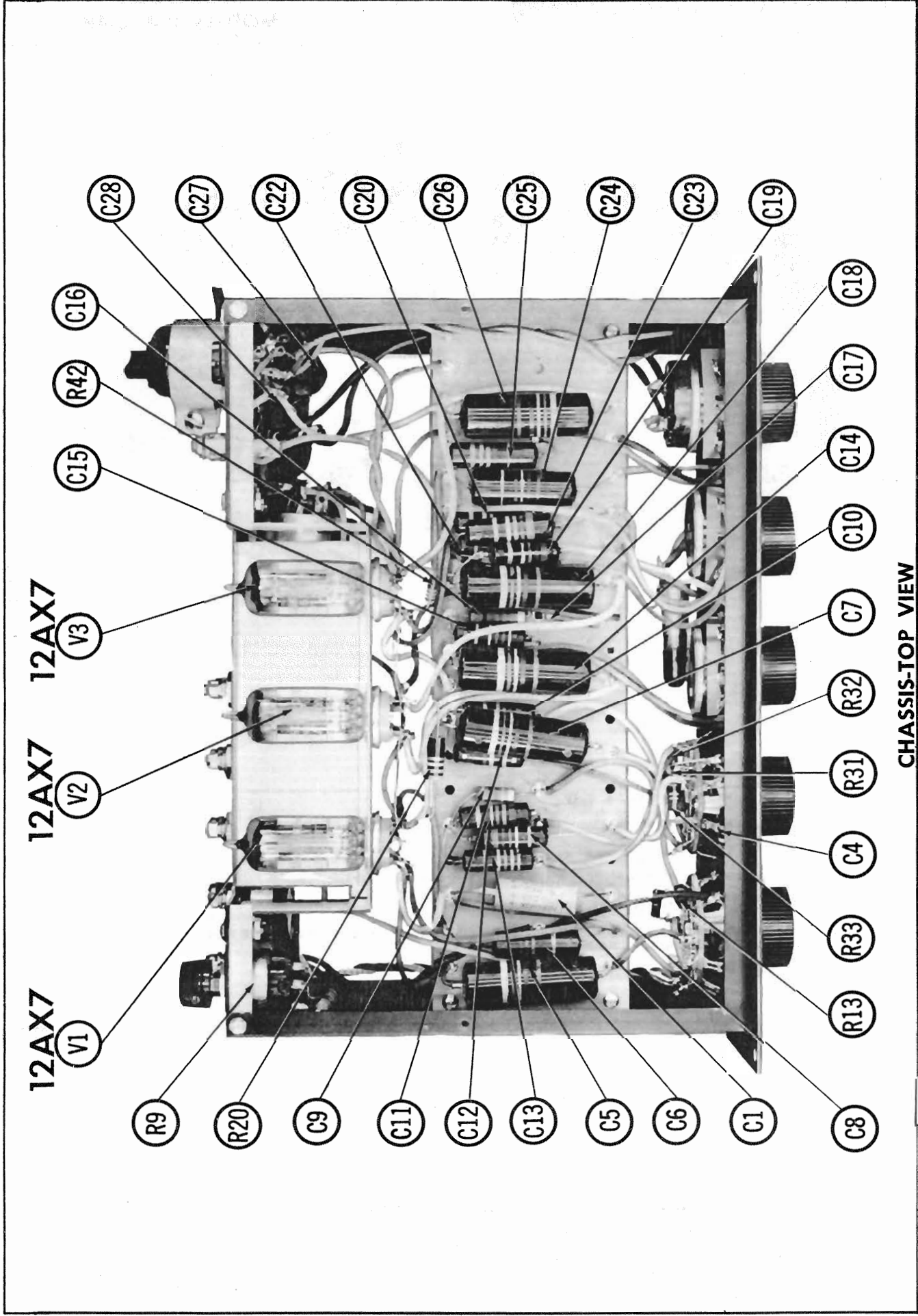


MC INTOSH
MODELS C-4, C-4P

TRADE NAME	3
MANUFACTURER	1
TYPE SET	5
TUBES (Three)	7
POWER SUPPLY	3

MODEL C-4P INCLUDES
SUPPLY UNIT, SEE 1

"The listing of any available n
case a recommendation, warr
as to the quality and suitability
parts have been compiled from
Inc., by the manufacturers of 1
"Reproduction or use, without
G624



PARTS LIST AND DESCRIPTIONS
TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	Preamplifier	12AX7		V3	AF Amplifier-Cathode Follower	12AX7	
V2	AF Amplifier	12AX7					

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VOLT.	REPLACEMENT DATA				SPRAGUE PART No.
			MC INTOSH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLOY PART No.	
C1	50	6		SRE6V50	BBR50-5	TC29	TD-50-6
C2A	30	250					
C2B	30	300					
C2C	20	450					

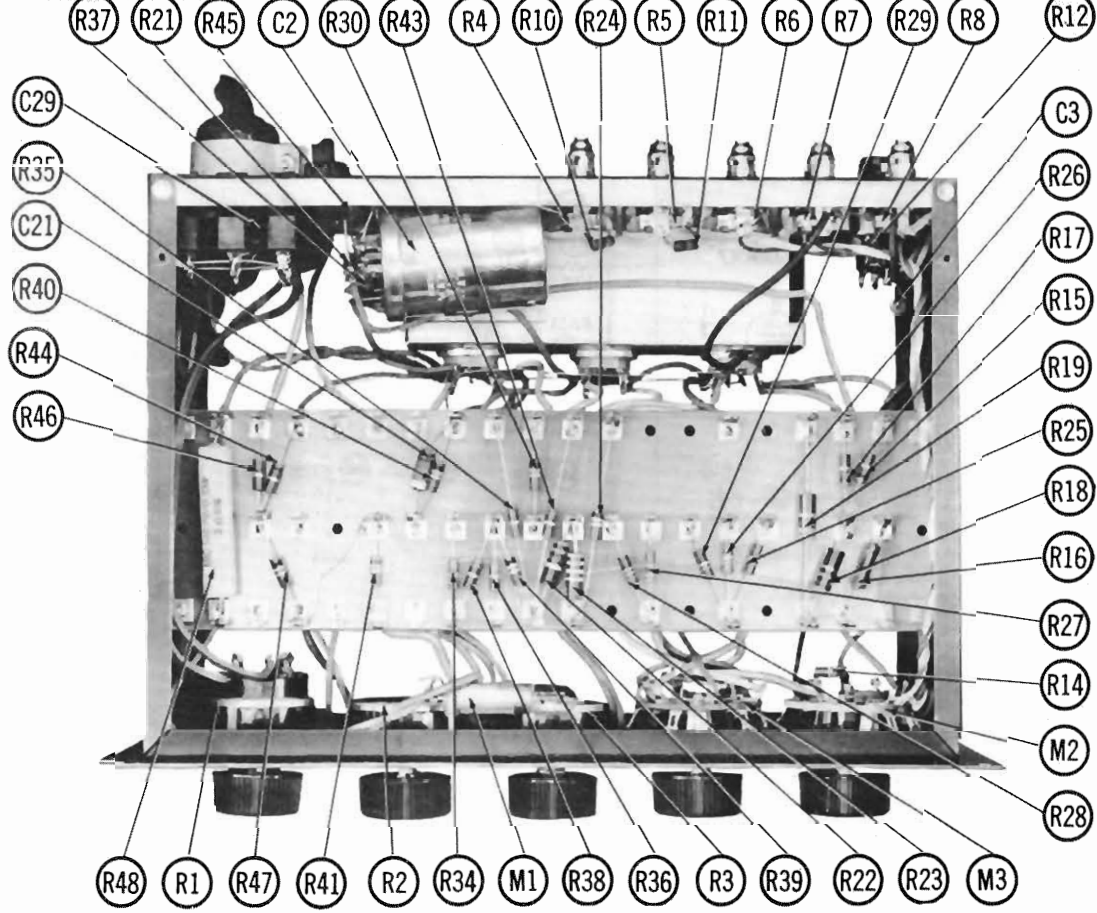
* Non-catalog item.

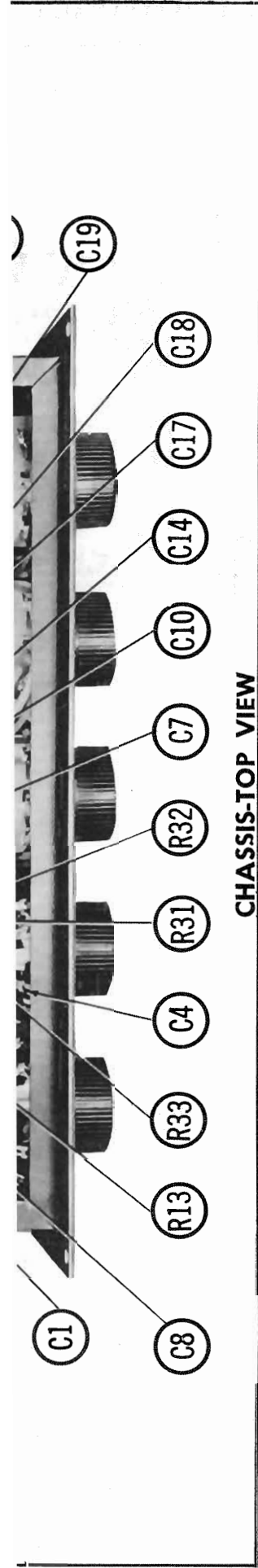
FIXED CAPACITORS

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

ITEM No.	RATING CAP.	VOLT.	REPLACEMENT DATA						NOTES
			MC INTOSH PART No.	AERO VOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLOY PART No.	
C3	100	400		NFO-SI 100	D6-101	TZ30	ED-100	MCB235	MS-31
C4	.001	400		1464-001		IR5D1	ED-1000	MCB255	MS-21
C5	.47	200		P268N-47		CUB2P47		PT4047	2TM-P47
C6	.033	400		BPD-03	DF-303	CUB6S33		PT6133	6TM-S33
C7	.47	200		P268N-47		CUB2P47		PT4047	2TM-P47
C8	.0022	400		1464-0022		IR5D22			MS-222
C9	.470	400		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		MS-218
C13	.0033	400		1464-0033		IR5D33		PT4047	MS-233
C14	.47	200		P268N-47		CUB2P47	ED-.0047	PT6247	2TM-P47
C15	.0047	400		BPD-0047	D6-472	CUB6D47	ED-1500		4TM-D47
C16	1500			1464-0015		IR5D15	ED-1500	PT4047	MS-215
C17	1500			P268N-47		CUB2P47	ED-1000	MCB255	2TM-P47
C18	.47	200		1464-001		IR5D1			MS-21
C19	.001	400		NFO-S1E7	D6-470	TZ22	ED-47	2T-5447	5TCC-Q47
C20	.47	400		1464-0022		IR5D22			MS-222
C21	.0022	400							
C22	.022	400							
C23	.022	400							
C24	.033	400		P468N-1	DF-104	CUB4P1		PT401	4TM-P1
C25	.033	400		BPD-03	DF-303	CUB6S33		PT6133	6TM-S33
C26	.47	200		P268N-47		CUB2P47		PT4047	2TM-P47
C27A	10000			BPD-2X01	DD3-103	DK082	ED-.01	DC-S11	5HK-251
C27B	10000						ED-.01	DC-S11	
C28A	10000			BPD-2X01	DD3-103	DK082	ED-.01	DC-S11	5HK-251
C28B	10000						ED-.01	DC-S11	
C29	4700			BPD-0047	DD-472	K079	ED-.0047	UC-3247	5HK-D47

CHASSIS - BOTTOM VIEW



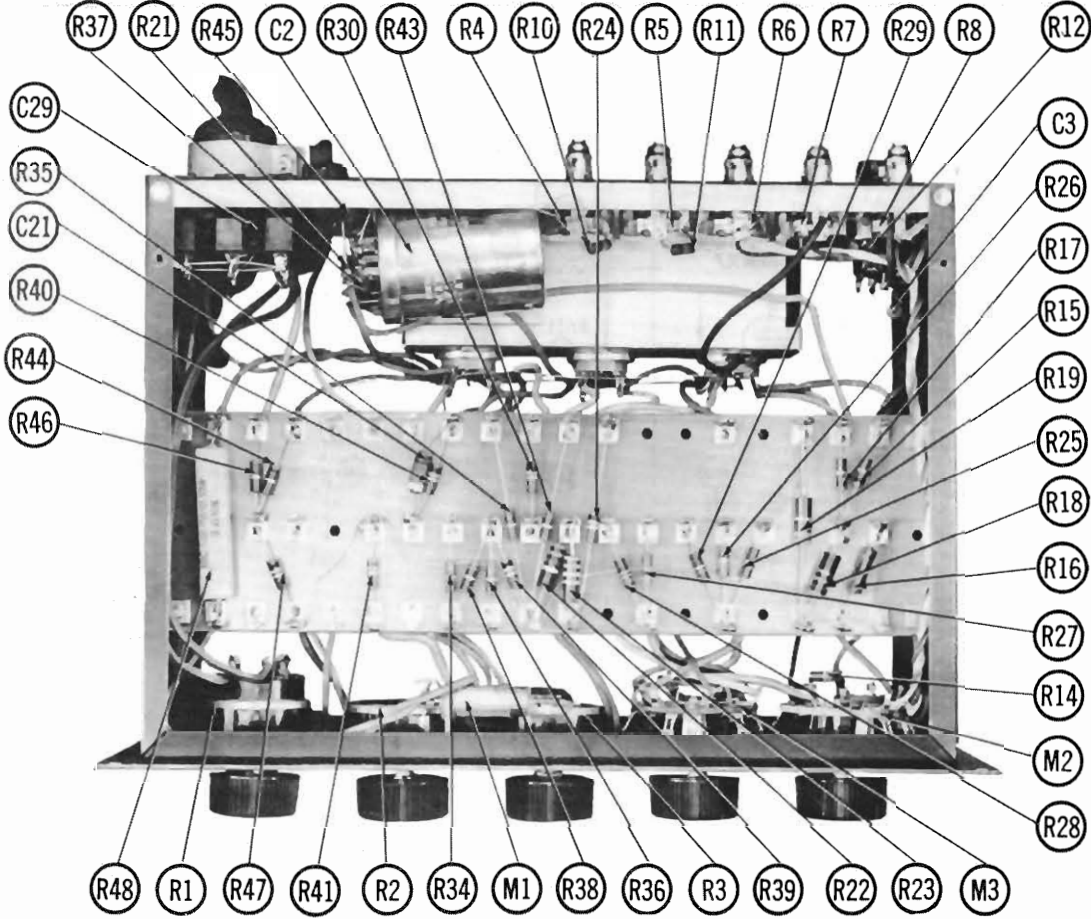


CHASSIS-TOP VIEW

PARTS LIST AND DESCRIPTIONS
TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V1	Preamplifier	12AX7	
V2	AF Amplifier	12AX7	
V3	AF Amplifier-Cathode Follower	12AX7	

CHASSIS--BOTTOM VIEW



ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP. VOLT.	REPLACEMENT DATA				
		AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	50	S186V50	BBR50-5	TC29	TD-50-6	MMT-650
C2A	30					T-625
C2B	300					MTD-4510
C2C	20					R2317 *
C2D	450					

* 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 CAP. VOLT.	REPLACEMENT DATA					NOTES
		AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	EBIE PART No.	MALLORY PART No.	
C3	100	NP0-S1100	D6-101	IR5D1	ED-100	MCB235	MS-31
C4	.001	1464-001		IR5D1	ED-1000	MCB255	MS-21
C5	.47	P288N-47		CUB2P47		PT4047	2TM-P47
C6	.033	BPD-03	DF-303	CUB6S33		PT6133	6TM-S33
C7	.47	P288N-47		CUB2P47		PT4047	2TM-P47
C8	.0022	1464-0022		IR5D22		MS-222	MS-222
C9	.470	1464-00047		IR5T47		MS-347	MS-347
C10	.001	1464-001		IR5D1	ED-1000	MCB255	MS-21
C11	.001	1464-001		IR5D1	ED-1000	MCB255	MS-21
C12	.0018	1464-0018		IR5D18	ED-1800		MS-218
C13	.0033	1464-0033		IR5D33		MS-233	MS-233
C14	.47	P288N-47	D6-472	CUB2P47	ED-.0047	PT4047	2TM-P47
C15	.0047	BPD-0047		CUB6D47	ED-1500	PT6247	4TM-D47
C16	.0015	1464-0015		IR5D15	ED-1500	MS-215	MS-215
C17	.1500	P288N-47		CUB2P47	ED-1000	MCB255	MS-21
C18	.47	1464-0047		IR5D1	ED-47	5TCC-Q47	MS-222
C19	.001	1464-001		IR5D1	ED-47	5TCC-Q47	MS-222
C20	.01	NP0-S147	D6-470	TZ22	ED-47	ZT-5447	
C21	.0022	1464-0022		IR5D22			
C22	.0022						
C23	.022	P488N-1	DF-104	CUB4P1		PT401	4TM-P1
C24	.033	BPD-03	DF-303	CUB6S33		PT6133	6TM-S33
C25	.47	P288N-47	DD3-103	DK082	ED-.01	DC-S11	5HK-251
C26	.47	BPD-2X01	DD3-103	DK082	ED-.01	DC-S11	5HK-251
C27A	10000	BPD-2X01	DD3-103	DK082	ED-.01	DC-S11	5HK-251
C28A	10000	BPD-2X01	DD-472	K079	ED-.0047	UC-5247	
C29	4700	BPD-0047	DD-472	K079	ED-.0047	5HK-D47	

PARTS LIST AND DESCRIPTIONS (Continued)

PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS

ITEM No.	RATING RESIST. ANCE	WATTS	REPLACEMENT DATA					INSTALLATION NOTES
			MC INTOSH PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	
R1A	1Meg	1/2	AB-10	AK47-10K-Z	AK47-10K-Z	Q13-137	U53	Volume
R1B	1Meg	1/2	AB-10	AK47-10K-Z	AK47-10K-Z	Q13-137	U53	Attach to R1A
R2A	250K	1/2	AB-10	AK47-250K-Z	AK47-250K-Z	Q13-130	U44	Attach to R1A
R2B	1Meg	1/2	AB-10	AK47-10K-Z	AK47-10K-Z	Q13-137	U53	Treble
R3A	1Meg	1/2	AB-10	AK47-10K-Z	AK47-10K-Z	Q13-137	U53	Attach to R2A
R3B	1Meg	1/2	AB-10	AK47-10K-Z	AK47-10K-Z	Q13-137	U53	Attach to R2A
R4A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Attach to R3A
R4B	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Attach to R3A
R5A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, tuner
R6A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Attach to R4A
R7A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, tuner
R8A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Mic Input
R9A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Mic Input
R10A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #1 Input
R11A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R12A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R13A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R14A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R15A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R16A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R17A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R18A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R19A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R20A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R21A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R22A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R23A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R24A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R25A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R26A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R27A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R28A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R29A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R30A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R31A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R32A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R33A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R34A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R35A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R36A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R37A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R38A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R39A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R40A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R41A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R42A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R43A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R44A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R45A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R46A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R47A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input
R48A	100K	1/2	AB-10	AK47-100K-Z	AK47-100K-Z	Q13-128	U39	Level, Phone #2 Input

RESISTORS

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

ITEM No.	RATING OHMS	WATT	REPLACEMENT DATA		NOTES
			MC INTOSH PART No.	IRC PART No.	
R10	560K				
R11	560K				
R12	6800K				
R13	10Meg				
R14	22Meg				
R15	1Meg				
R16	220K	1			
R17	1Meg				
R18	750K 5%	1			
R19	3300K	1			
R20	330K	1			
R21	100K	1			
R22	1800K	1			
R23	330K	1			
R24	100K	1			
R25	22Meg				
R26	22Meg				
R27	3.3Meg	2			
R28	560K				
R29	22Meg				
R30	100K				
R31	330K				
R32	180K				
R33	100K				
R34	1.2Meg				
R35	1.2Meg				
R36	1.2Meg				
R37	100K				
R38	1800K				
R39	100K				
R40	100K				
R41	10K				
R42	330K				
R43	1800K				
R44	1Meg				
R45	12K				
R46	1200K				
R47	100K				
R48	2K	10			

MISCELLANEOUS

ITEM No.	PART NAME	MC INTOSH PART No.	NOTES
M1	Pilot Light Switch		#44
M2	Switch		Selector (Rotary, wafer type)
M3	Switch		Compensation (Rotary, wafer type)