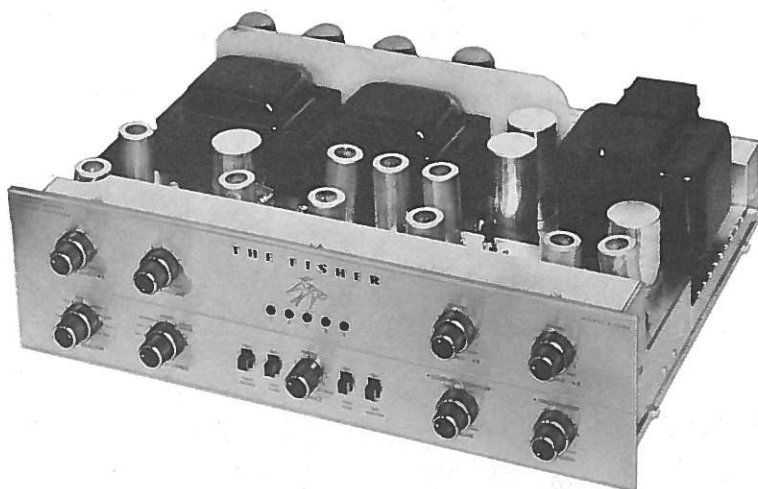
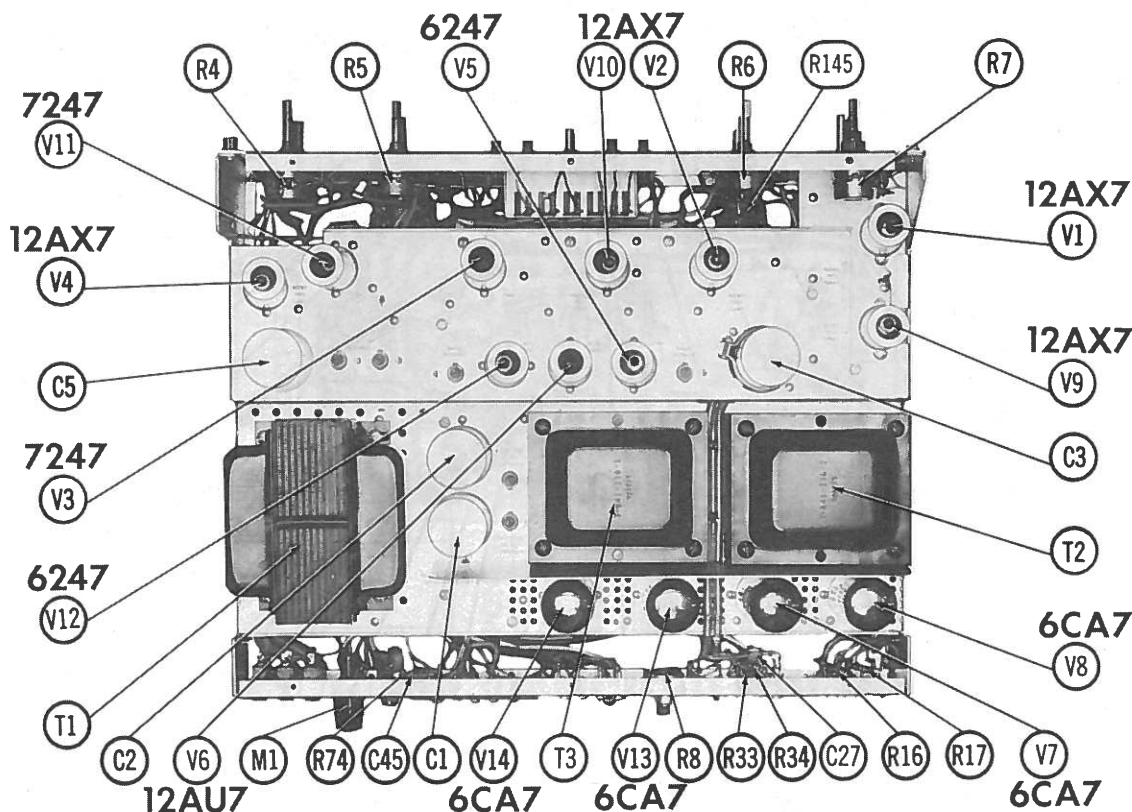
FISHER MODEL
X1000

TRADE NAME	Fisher Model X-1000 (Serial #10001-19999 Inclusive)		
MANUFACTURER	Fisher Radio Corp., 21-21 44th Drive, Long Island City 1, N. Y.		
TYPE SET	AC Operated 14 Tube Stereo Amplifier		
POWER SUPPLY	105 - 120 Volts AC, 50-60 Cycles	RATING	155 Watts, 1.6 Amp. @117 Volts AC

FISHER MODEL
X1000

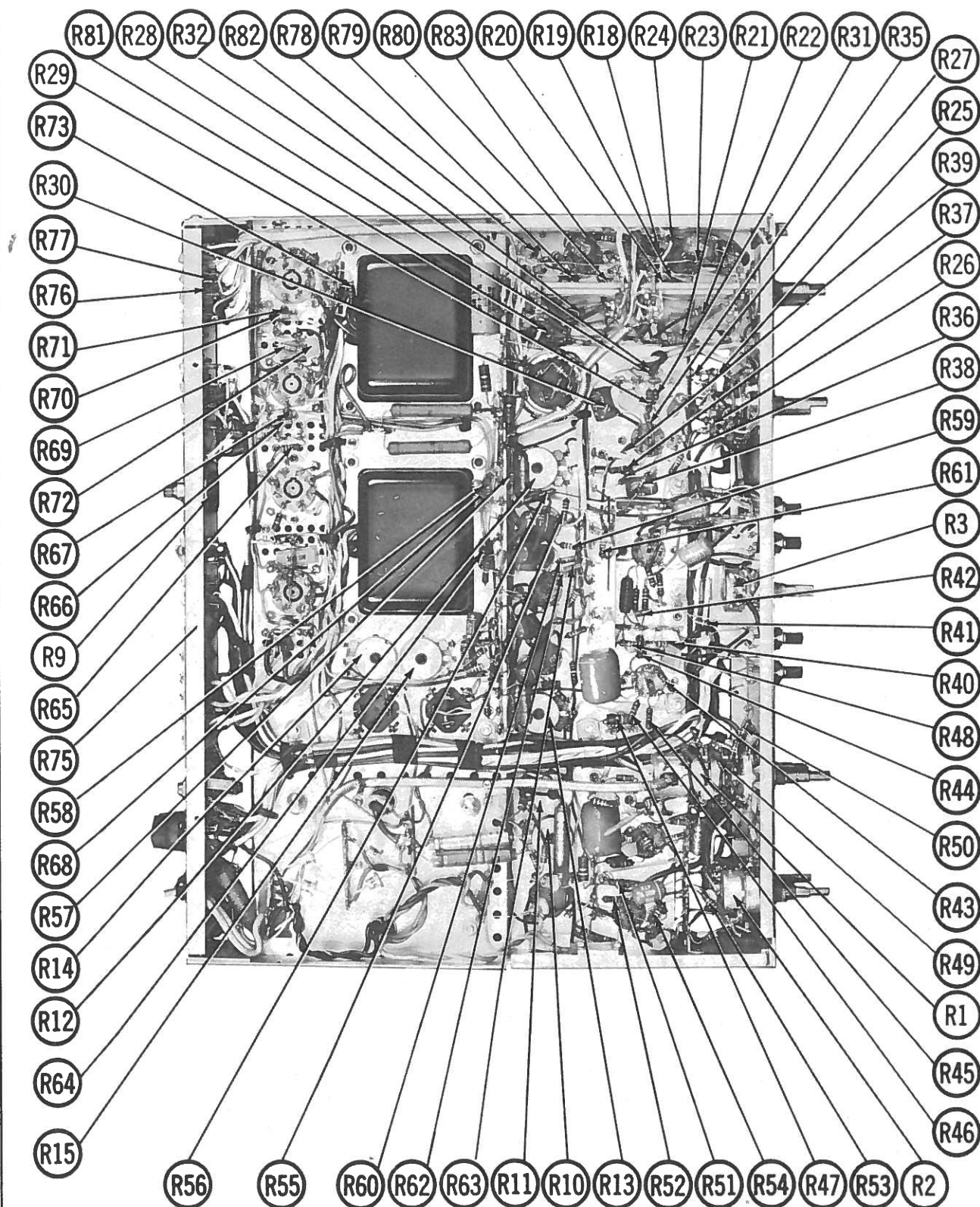
SET 592 FOLDER 6

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

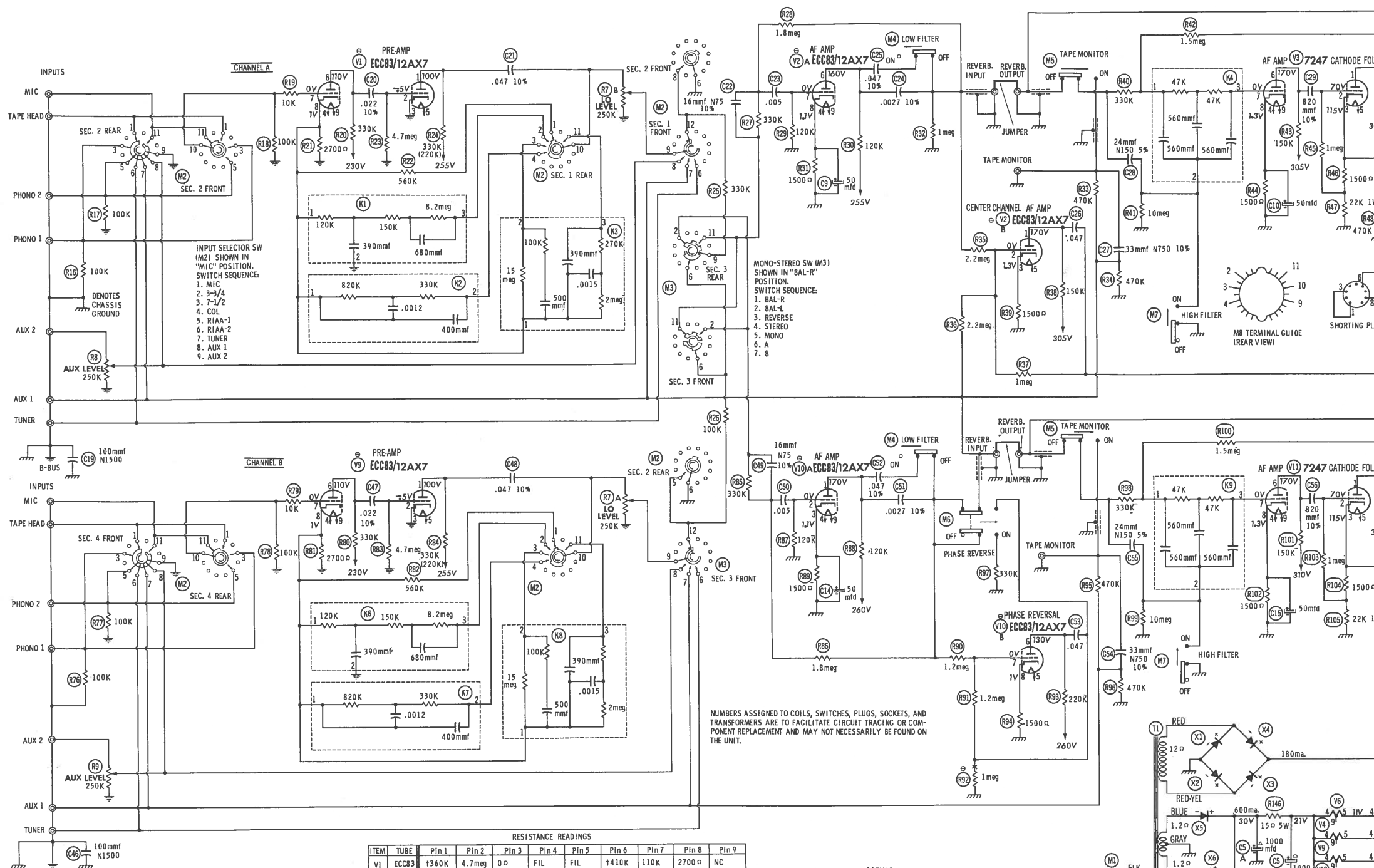
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of LV357

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1962 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America





CHASSIS BOTTOM VIEW — RESISTOR IDENT. (R1-R83)



SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

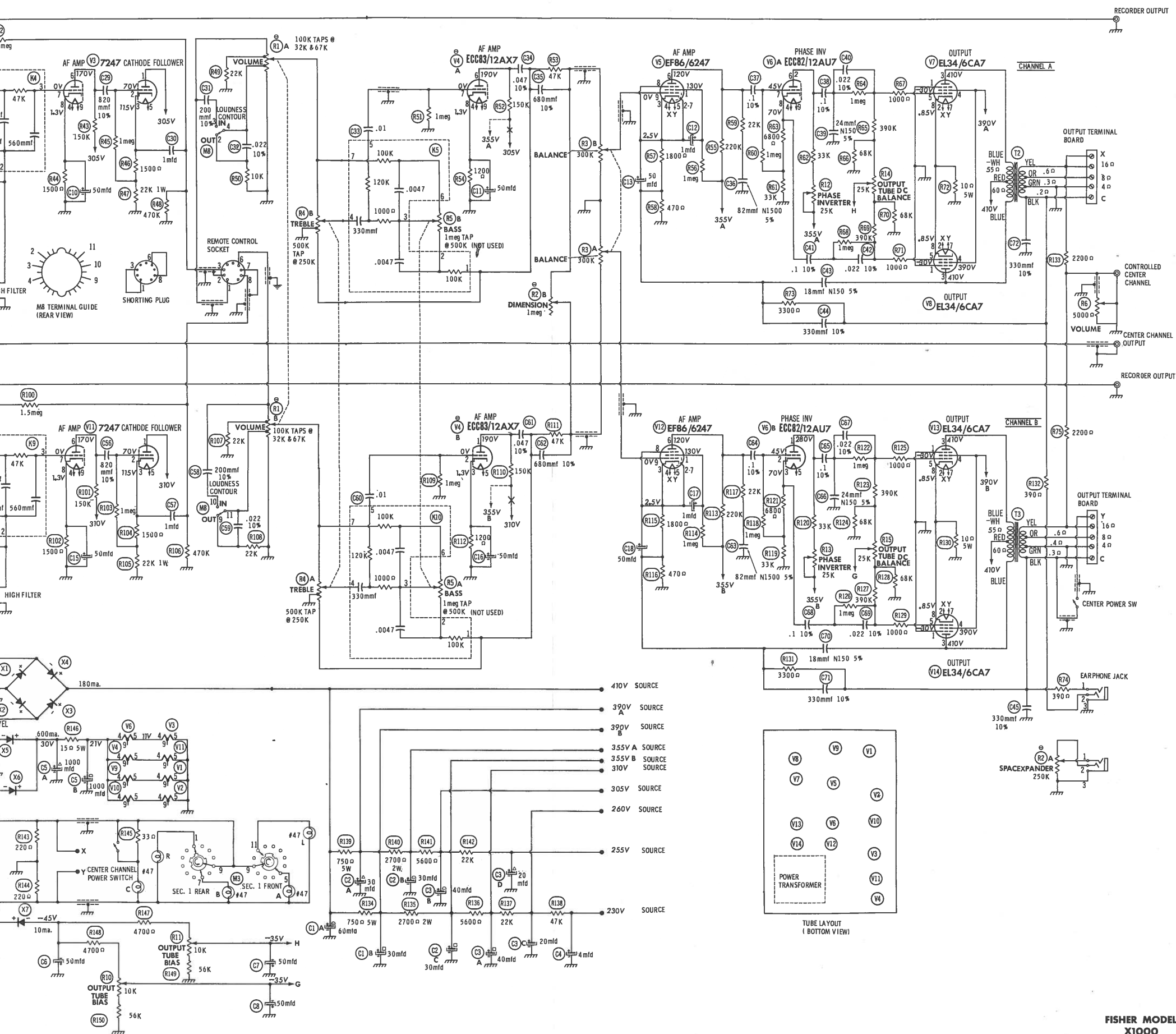
- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common ground.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.

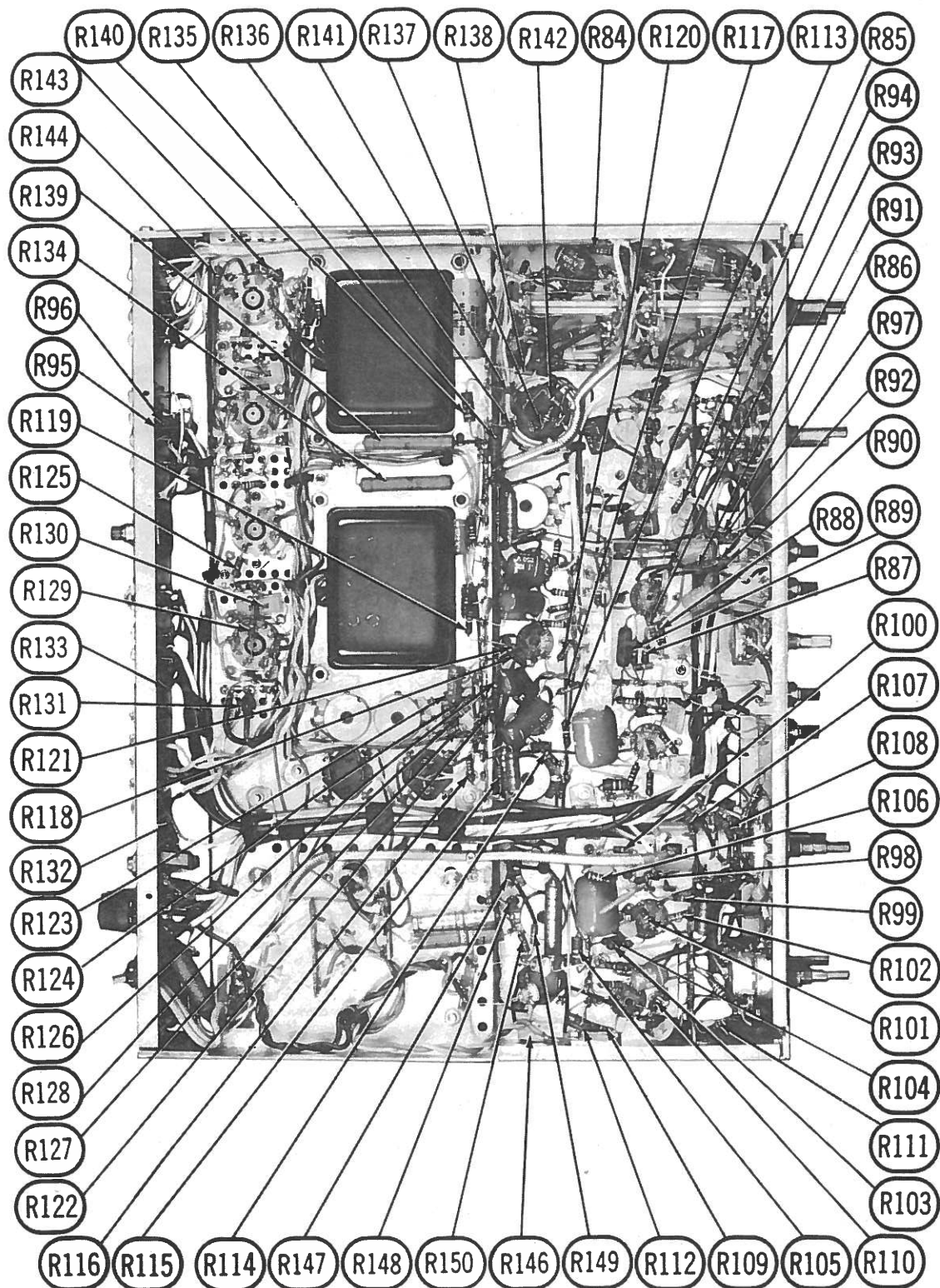
A PHOTOFACT STANDARD NOTATION SCHEMATIC
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ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	ECC83	1360K	4.7meg	0 Ω	FIL	FIL	1410K	110K	2700 Ω	NC
V2	ECC83	1160K	1.2meg	1500 Ω	FIL	FIL	1150K	120K	1500 Ω	NC
V3	7247	110K	1meg	24K	FIL	FIL	1160K	800K	1500 Ω	NC
V4	ECC83	1160K	1meg	1200 Ω	FIL	FIL	1160K	1meg	1200 Ω	NC
V5	EF86	1meg	2400 Ω	2400 Ω	FIL	FIL	1230K	2400 Ω	2400 Ω	0 Ω
V6	ECC82	150K	1meg	40K	FIL	FIL	150K	1meg	40K	NC
V7	EL34	0 Ω	FIL	155 Ω	1750 Ω	430K	NC	FIL	10 Ω	
V8	EL34	0 Ω	FIL	160 Ω	1750 Ω	430K	NC	FIL	10 Ω	
V9	ECC83	1260K	4.7meg	0 Ω	FIL	FIL	1410K	110K	2700 Ω	NC
V10	ECC83	1150K	120K	1500 Ω	FIL	FIL	1250K	1.1meg	1500 Ω	NC
V11	7247	110K	1meg	24K	FIL	FIL	1180K	800K	1500 Ω	NC
V12	EF86	1meg	2400 Ω	2400 Ω	FIL	FIL	1230K	2400 Ω	2400 Ω	0 Ω
V13	EL34	0 Ω	FIL	155 Ω	1750 Ω	430K	NC	FIL	10 Ω	
V14	EL34	0 Ω	FIL	160 Ω	1750 Ω	430K	NC	FIL	10 Ω	

ALL MEASUREMENTS TAKEN IN "MIC-BAL-R" POSITION - ALL FILTERS IN "OFF" POSITION
PHASE REVERSE SWITCH IN "ON" POSITION UNLESS OTHERWISE DESIGNATED.
+ MEASURED FROM OUTPUT OF X3 AND X4.

NC NO CONNECTION





CHASSIS BOTTOM VIEW – RESISTOR IDENT. (R84 –R150)

PARTS LIST AND DESCRIPTIONS

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8524 (Stranded) Available in 12 Colors
Power Cord	Use BELDEN No. 1706 (Plastic) or 1712B (Rubber) - 6 Ft.
Power Cord (Interlock Type)	Use BELDEN No. 1709 (Plastic) or 1712B (Rubber) - 9 Ft.

TUBES

AMPEREX		GENERAL ELECTRIC		RAYTHEON		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE
V1	Channel A Preamp.	ECC83/12AX7 (7025)*	V7	Channel A Output	EL34/6CA7		
V2	Channel A AF Amp.	ECC83/12AX7 (7025)*	V8	Channel B Preamp.	EL34/6CA7		
V3	Center Channel AF Amp.	7247	V9	Channel B AF Amp.	ECC83/12AX7 (7025)*		
V4	Channel A AF Amp.	ECC83/12AX7 (7025)*	V10	Phase Reversal	7247		
V5	Channel A AF Amp.	ECC83/12AX7 (7025)*	V11	Channel B AF Amp.	EL34/6CA7		
V6	Channel A AF Amp.	ECC83/12AX7 (7025)*	V12	Cathode Follower	EL34/6CA7		
	Channel A AF Amp.	ECC83/12AX7 (7025)*	V13	Channel B AF Amp.	EL34/6CA7		
	Channel A Phase Inv.	ECC83/12AX7 (7025)*	V14	Channel B Output	EL34/6CA7		

* Alternate.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	RECTIFIERS		DIODES		NOTES
		ORIGINAL Part or Type No.	RCA Part No.	SARKS TARZIAN Part No.	RAYTHEON Part No.	
X1	.180A	SR806-126	INI764	60H		
X2	.180A	SR806-126	INI764	60H		
X3	.180A	SR806-126	INI764	60H		
X4	.180A	SR806-126	INI764	60H		
X5	.6A	SR851-121	IN638	20H		
X6	.6A	SR851-121	IN638	20H		
X7	.010A	SR50253-5	INI763	Model 50		

SET 592

FOLDER 6

PAGE 7

ELECTROLYTIC CAPACITORS(cont)

ITEM No.	RATING		FISHER PART No.	AEROVOX PART No.	REPLACEMENT DATA		SPRAGUE PART No.
	CAP.	VOLT.			CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	
C17	1	350	C50283-3	PR81700	BR-450	QTI-1	TD-2-450
C18	50	3	C50283-1	PTT12	NLW50-3	MTI-15	MLV50-3

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	REPLACEMENT DATA		SPRAGUE PART No.
					CORNELL-DUBILIER PART No.	ELMOCO PART No.	
C19	100 N1500	#C50070-5	P488N-022	TC1-100	CUB4S22	4DP-2-223	4TM-S22
C20	.022 250V 10%		P488N-047	DD-203	CUB4S47	4DP-3-473	4TM-S47
C21	.047 400V 10%			DD-503			
C22	16 N75 10%	#C50070-21		DD-502			
C23	.005		BPD-005	DD-502	BYA10D5	CCD-502	5HK-D50
C24	.0027 10%		DI-2700	DD-502	LI0727	CCD-272	10TS-D27
C25	.047 400V 10%		P488N-047	DD-503	CUB4S47	4DP-3-473	4TM-S47
C26	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	4TM-S47
C27	33 N750 10%		N750-DI 33	DTN-33	CUB4S3U	CCN-330	10TCU-Q33
C28	24 N150 5%	#C50070-8		DD-821	LI0782	CCD-821	10TS-T82
C29	820 10%		DI-820	DD-821	LI0782	CCD-821	10TS-T82
C30	1mfd 150V		P288N-1.0	DD-201	LI0727	CCD-201	2TM-M1
C31	200 10%		DI-200	DD-201	LI0727	CCD-201	10TS-T20
C32	.022 250V 10%		P488N-022	DD-203	BYA10S1	CCD-272	4TM-S22
C33	.01		BPD-01	DD-103	BYA10S1	CCD-103	5HK-S10
C34	.047 400V 10%		P488N-047	DD-503	CUB4S47	4DP-3-473	4TM-S47
C35	880 10%		DI-880	DD-681	LI0768	CCD-681	10TS-T68
C36	82 N1500 5%		P488N-1		CUB4P1	4DP-3-104	4TM-P10
C37	1 250V 10%		P488N-1		CUB4P1	4DP-3-104	4TM-P10
C38	1 400V 10%						
C39	24 N150 5%	#C50070-8		DD-203	CUB4S22	4DP-2-223	4TM-S22
C40	.022 250V 10%		P488N-022	DD-203	CUB4S22	4DP-2-223	4TM-S22
C41	.1 250V 10%		P488N-1	DD-203	CUB4P1	4DP-3-104	4TM-P10
C42	.022 250V 10%		P488N-022	DD-203	CUB4S22	4DP-2-223	4TM-S22
C43	18 N150 5%		P488N-022	DD-203	CUB4S22	4DP-2-223	4TM-S22
C44	330 10%		DI-330	DD-331	LI0733	CCD-331	10TCP-Q18
C45	330 10%		DI-330	DD-331	LI0733	CCD-331	10TS-T33
C46	100 N1500	#C50070-5	P488N-022	TC1-100	CUB4S22	4DP-2-223	4TM-S22
C47	.022 250V 10%		P488N-047	DD-503	CUB4S47	4DP-3-473	4TM-S47
C48	.047 400V 10%			DD-503			
C49	16 N75 10%	#C50070-21		DD-502	BYA10D5	CCD-502	5HK-D50
C50	.005		BPD-005	DD-502	LI0727	CCD-272	10TS-D27
C51	.0027 10%		DI-2700	DD-502	CUB4S47	4DP-3-473	4TM-S47
C52	.047 400V 10%		P488N-047	DD-503	CUB4S47	4DP-3-473	4TM-S47
C53	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	4TM-S47
C54	33 N750 10%		N750-DI 33	DTN-33	CUB4S3U	CCN-330	10TCU-Q33
C55	24 N150 5%	#C50070-8		DD-821	LI0782	CCD-821	10TS-T82
C56	820 10%		DI-820	DD-821	LI0782	CCD-821	10TS-T82
C57	1mfd 150V		P288N-1.0	DD-201	LI0727	CCD-201	2TM-M1
C58	200 10%		DI-200	DD-201	LI0727	CCD-201	10TS-T20
C59	.022 250V 10%		P488N-022	DD-203	CUB4S22	4DP-2-223	4TM-S22
C60	.01		BPD-01	DD-103	BYA10S1	CCD-103	5HK-S10
C61	.047 400V 10%		P488N-047	DD-503	CUB4S47	4DP-3-473	4TM-S47
C62	880 10%		DI-880	DD-681	LI0768	CCD-681	10TS-T68
C63	82 N1500 5%		P488N-1		CUB4P1	4DP-3-104	4TM-P10
C64	1 250V 10%		P488N-1		CUB4P1	4DP-3-104	4TM-P10
C65	1 400V 10%						
C66	.022 250V 10%	#C50070-8		DD-203	CUB4S22	4DP-2-223	4TM-S22
C67	.01		P488N-022	DD-203	CUB4S22	4DP-2-223	4TM-S22
C68	.022 250V 10%		P488N-1	DD-203	CUB4P1	4DP-3-104	4TM-P10
C69	.022 250V 10%		P488N-022	DD-203	CUB4S22	4DP-2-223	4TM-S22
C70	18 N150 5%		P488N-022	DD-203	CUB4S22	4DP-2-223	4TM-S22
C71	330 10%		DI-330	DD-331	LI0733	CCD-331	10TCP-Q18
C72	330 10%		DI-330	DD-331	LI0733	CCD-331	10TS-T33
C73	.01 600V		P688N-01	DD-103	CUB4S1	8DP-2-103	6TM-S10
C74	.01 600V		P688N-01	DD-103	CUB4S1	8DP-2-103	6TM-S10

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

* Fisher Part Number.

† Alternate Value.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	CAP.	VOLT.	REPLACEMENT DATA		SPRAGUE PART No.
				CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	
C1A	.40	500	500	B0540	XC2-31	TVLS-2946*
C1B	.80	500	500		XC3-36	TVL-3956
C2A	.40	500	500	C0390		TVL-3956
C2B	.40	500	500			
C3A	.40	450	450	D0144	XC4-55	TVL-4773
C3B	.40	450	450			
C3C	.40	450	450			
C4	.40	400	400			
C5A	.1000	35	35	BR4-350	QTI-2.1	TVA-1601
C5B	.1000	35	35		XC2-45	TVLS-2243*
C6	50	70	70	BR50-150	QTI-17	TVA-1414
C7	50	70	70	BR50-150	QTI-17	TVA-1414
C8	50	70	70	BR50-150	QTI-17	TVA-1414
C9	50	70	70	BR50-150	QTI-17	TVA-1414
C10	50	70	70	BR50-150	QTI-17	TVA-1414
C11	50	70	70	BR50-150	QTI-17	TVA-1414
C12	50	70	70	BR50-150	QTI-17	TVA-1414
C13	50	70	70	BR50-150	QTI-17	TVA-1414
C14	50	70	70	BR50-150	QTI-17	TVA-1414
C15	50	70	70	BR50-150	QTI-17	TVA-1414

PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	FISHER PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1A	Volume	100K	R841-132A ①				
B	Volume (Power & Loud. Cont. Sw., M6)	32K 87K Tap 100K					
R2A	Dimenation	Integ 250K	R50160-76A ①				
R3A	Spacepander	300K	R50160-76				
B	Balance	500K					
R4A	Trehle	250K Tap	R50160-77	F3-42, R4-42, AK-32			▲ UE4282 ③
B	Trehle	500K					■ UE4080
R5A	Bass	250K Tap	B50160-79A ①	F1-56, R2-56, AK-32			
B	Bass	Integ 500K Tap (Not Used)					
R6	Center Volume (Center Power Sw.)	500K Tap	R50160-80	B-11, KR-2 or (AB-11, AK-7, KR-2)		Q13-114, 76-1	U12, U542
R7A	Lo Level	250K	R50160-78				
B	Lo Level	250K					
R8	Aux. Level	250K	R50103-1 ②	AB-50, AK-1			
R9	Aux. Level	250K	R50103-1 ②	AB-50, AK-1			
R10	Output Tube Bias	10K	R50103-5	AB-14, AK-1 or (B-14)			
R11	Output Tube Bias	10K	R50103-5	AB-14, AK-1 or (B-14)			
R12	Phase Inverter	25K	R50103-2	AB-26, AK-1			
R13	Phase Inverter	25K	R50103-2	AB-26, AK-1			
R14	Output Tube DC Bal.	25K	R50103-2	AB-26, AK-1			
R15	Output Tube DC Bal.	25K	R50103-2	AB-26, AK-1			

① Some versions may omit suffix letter "A" from Part Number.

② Alternate Part #R50103-2

③ Squeeze Control end of outer shaft until they touch each other, force inner shaft thru compressed end of outer shaft and proceed in normal manner.

† "CONCENTRIK" Equivalent: K-15 Kit with Base Elements and Shafts: (Not available as a factory assembled unit).

BU-130, PI4-029 (Panel)

BU-130, RI-108 (Rear)

"SNAPTROL" Equivalent: BU4, CF15, SF5, CR10, SR5, DC1

▲ "BTA-LOC" Equivalent: FA55T254, RU55T254, OS937A, EI375

■ "BTA-LOC" Equivalent: FB16T55, RU16T55, OS937A, EI250

* "SNAP-TROL"

RESISTORS

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

ITEM No.	RATING	IRC PART No.	WORKMAN PART No.	REMARKS	ITEM No.	RATING	IRC PART No.	WORKMAN PART No.	REMARKS
R16	100K				R84	330K			(220K)*
R17	100K				R85	330K			
R18	100K				R86	1.8meg			
R19	10K				R87	120K			
R20	330K				R88	120K			
R21	2700Ω				R89	1500Ω			
R22	560K				R90	1.2meg			
R23	4.7meg				R91	1.2meg			
R24	330K				R92	1meg			
R25	330K				R93	220K			
R26	100K				R94	1500Ω			
R27	330K				R95	470K			
R28	1.8meg				R96	470K			
R29	120K				R97	330K			
R30	120K				R98	330K			
R31	1500Ω				R99	10meg			
R32	1meg				R100	1.5meg			
R33	470K				R101	150K			
R34	470K				R102	1500Ω			
R35	2.2meg				R103	1meg			
R36	2.2meg				R104	1500Ω			
R37	1meg				R105	22K 1W			
R38	150K				R106	470K			
R39	1500Ω				R107	22K			
R40	330K				R108	22K			
R41	10meg				R109	1meg			
R42	1.5meg				R110	150K			
R43	150K				R111	47K			
R44	1500Ω				R112	1200Ω			
R45	1meg				R113	220K			
R46	1500Ω				R114	1meg			
R47	22K 1W				R115	1800Ω			
R48	470K				R116	470Ω			
R49	22K				R117	22K			
R50	10K				R118	1meg			
R51	1meg				R119	33K			
R52	150K				R120	33K			
R53	47K				R121	6800Ω			
R54	1200Ω				R122	1meg			
R55	220K				R123	390K			
R56	1meg				R124	68K			
R57	1800Ω				R125	1000Ω			
R58	470Ω				R126	1meg			
R59	22K				R127	390K			
R60	1meg				R128	68K			
R61	33K				R129	1000Ω			
R62	33K				R130	100 5W		PW5-10	5W-SQ-10
R63	6800Ω				R131	3300Ω			
R64	1meg				R132	390Ω			
R65	390K				R133	2200Ω			
R66	68K				R134	750Ω 5W			
R67	1000Ω				R135	2700Ω 2W		PW5-750	5W-SQ-750
R68	1meg				R136	5800Ω			
R69	390K				R137	22K			
R70	68K				R138	47K			
R71	1000Ω				R139	750Ω 5W		PW5-750	5W-SQ-750
R72	100 5W				R140	2700Ω 2W			
R73	3300Ω				R141	5600Ω			
R74	390Ω				R142	22K			
R75	2200Ω				R143	220Ω			
R76	100K				R144	220Ω			
R77	100K				R145	33Ω			
R78	100K				R146	15Ω 5W			
R79	10K				R147	4700Ω			
R80	330K				R148	4700Ω			
R81	2700Ω				R149	56K			
R82	560K				R150	56K			
R83	4.7meg								

① Not used in some versions.

* Alternate Value.

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC.	FISHER PART No.	Stancor PART No.	Thordarson PART No.	
T1	117V @ 1.6A	325V @ 0.3V @ 8A	T841-115			
	SEC. 3	SEC. 4				
	50VCT @ .6A	45V @ .010A				

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	FISHER PART No.	Stancor PART No.	Thordarson PART No.	
T2	3200Ω CT	16Ω Tap @ 80-4Ω	T841-116-2			
T3	3100Ω CT	16Ω Tap @ 80-4Ω	T841-116-1			

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	FISHER PART No.	REPLACEMENT DATA
K1	3 3/4 Tape Equalizer	390mmf, 680mmf, 120K, 150K, 8.2meg	PC50187-7	
K2	Col. LP Equalizer	400mmf, .0012mf, 330K, 820K	PC50187-8	
K3	RIA & Tape Equalizer	390mmf, 500mmf, .0015mf, 100K, 270K, 2meg, 15meg	PC50187-3AX	
K4	High Freq. Filter	(3) 560mmf, (2) 47K	PC50187-5A	PA-659
K5	Tone Control	330mmf, .0047mf, .0047mf, 1000Ω, 100K, 100K, 120K	PC657-140B	Centralab Sprague TC-24
K6	3 3/4 Tape Equalizer	390mmf, 680mmf, 120K, 150K, 8.2meg	PC50187-7	
K7	Col. LP Equalizer	400mmf, .0012mf, 330K, 820K	PC50187-8	
K8	RIA & Tape Equalizer	390mmf, 500mmf, .0015mf, 100K, 270K, 2meg, 15meg	PC50187-3AX	
K9	High Freq. Filter	(3) 560mmf, (2) 47K	PC50187-5A	PA-659
K10	Tone Control	330mmf, .0047mf, .0047mf, 1000Ω, 100K, 100K, 120K	PC657-140B	Centralab Sprague TC-24

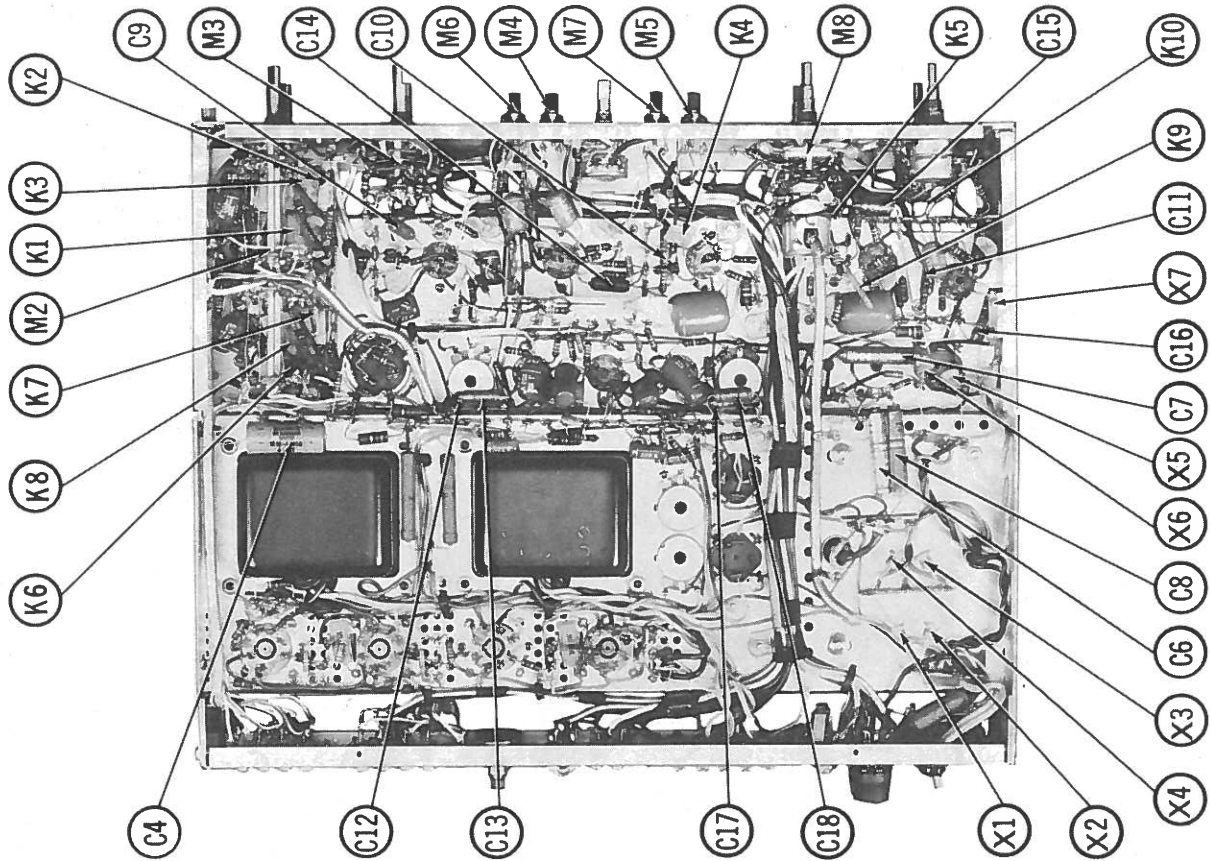
FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			FISHER PART No.	LITTELFUSE PART No.	FUSE	BUSS PART No.
M1	3AG	5A S/B	F841-133	X563-J51	315005 5A S/B 125V	MDX 5 HKP

MISCELLANEOUS

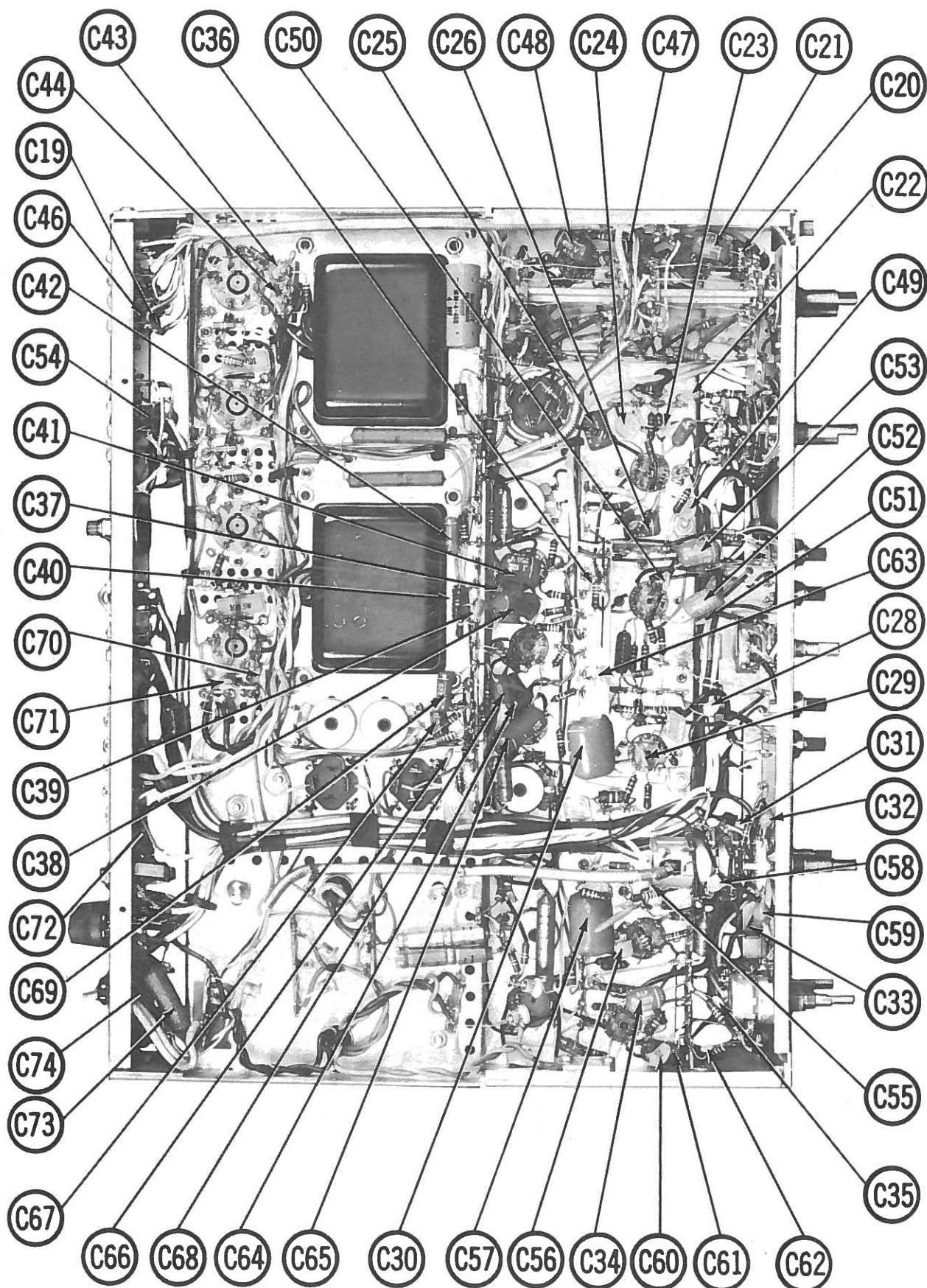
ITEM No.	PART NAME	FISHER PART No.	NOTES
M2	Switch	R841-123	
M3	Switch	R841-125	
M4	Switch	S50200-5	Input Selector (Wafer Type, 9 Positions, 4 Sections)
M5	Switch	S50200-5	Function (Wafer Type, 7 Position, 3 Sections) Mono-Stereo
M6	Switch	S50200-5	Lo Filter (Slide Type DPDT)
M7	Switch	S50200-5	Tape Monitor (Slide Type DPDT)
M8	Switch	S50200-5	Phase Reverse (Slide Type DPDT)
			High Filter (Slide Type DPDT)
			Loudness-Contour (Part of Volume R1)

CHASSIS—BOTTOM VIEW



FISHER MODEL
X1000

FOLDER 6



CHASSIS BOTTOM VIEW — CAPACITOR IDENT. (C19-C74)