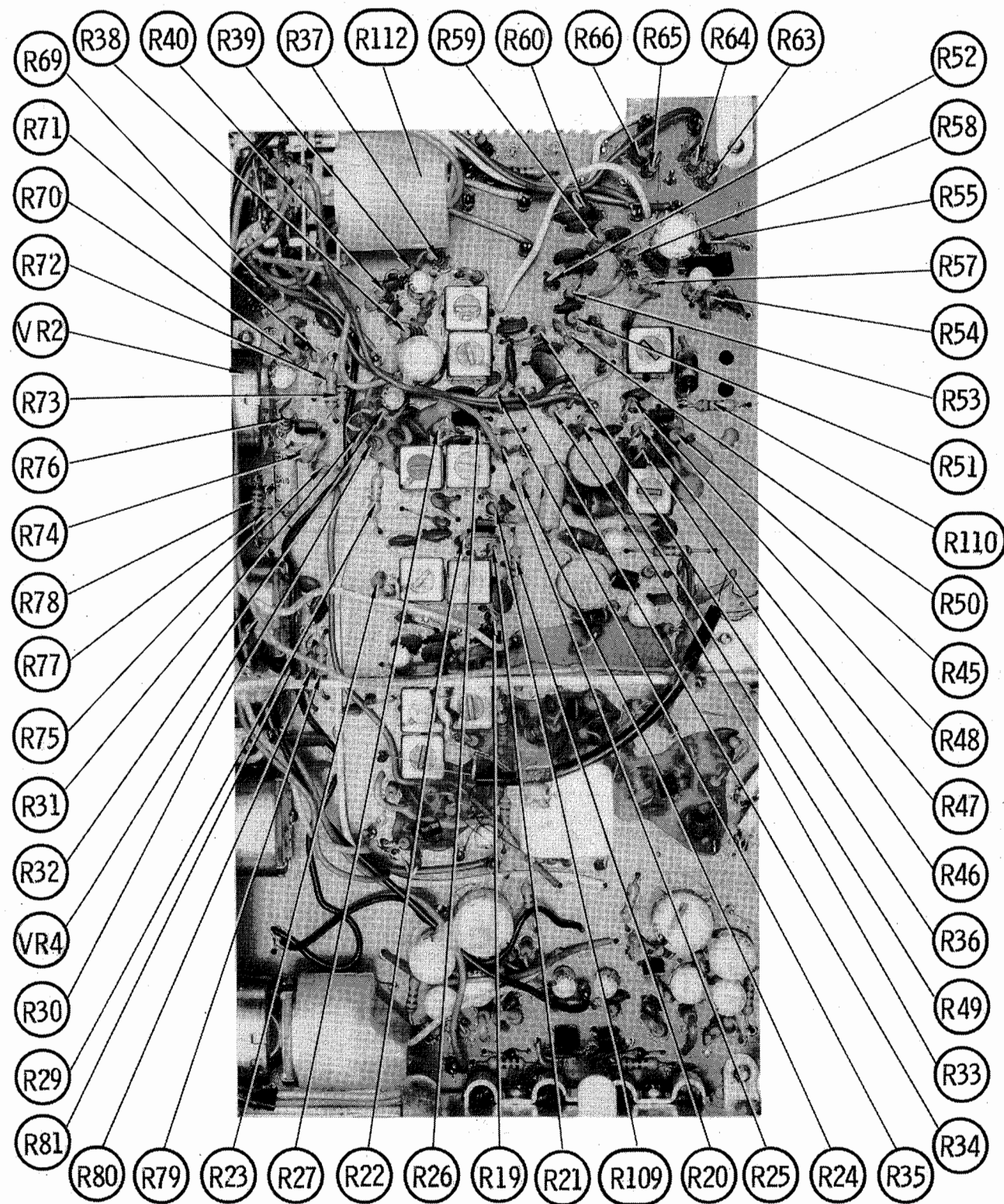


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SET 1266 FOLDER 4

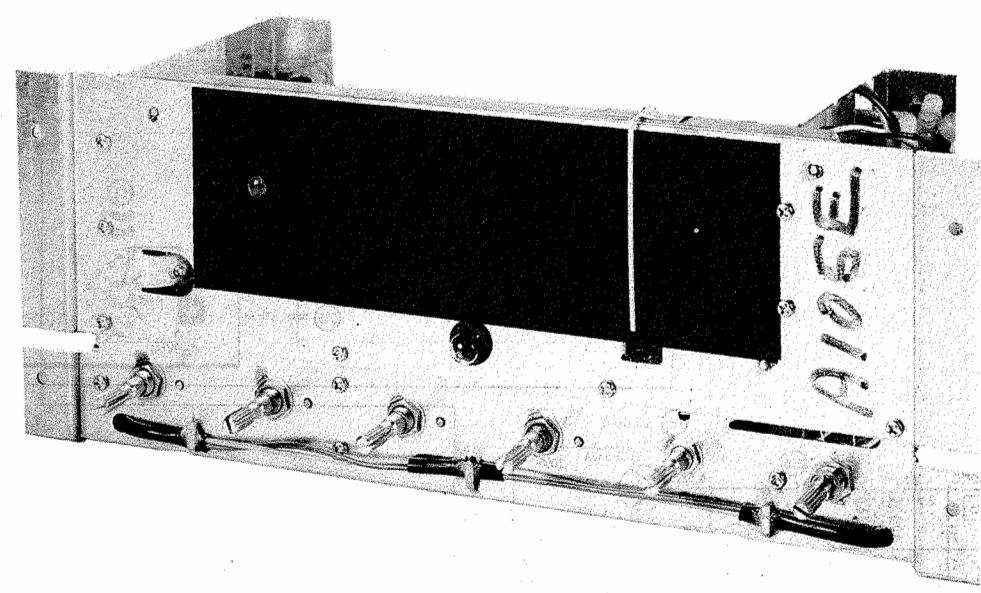
PHOTOFACT® Folder

with CIRCUITRACE®

CAPEHART
CHASSIS A-105E

For Supplier Address See PHOTOFACT Index

CAPEHART
CHASSIS A-105E



CAPEHART
CHASSIS A-105E

SET 1266 FOLDER 4

REMEMBER TO ASK— "What else needs fixing?"

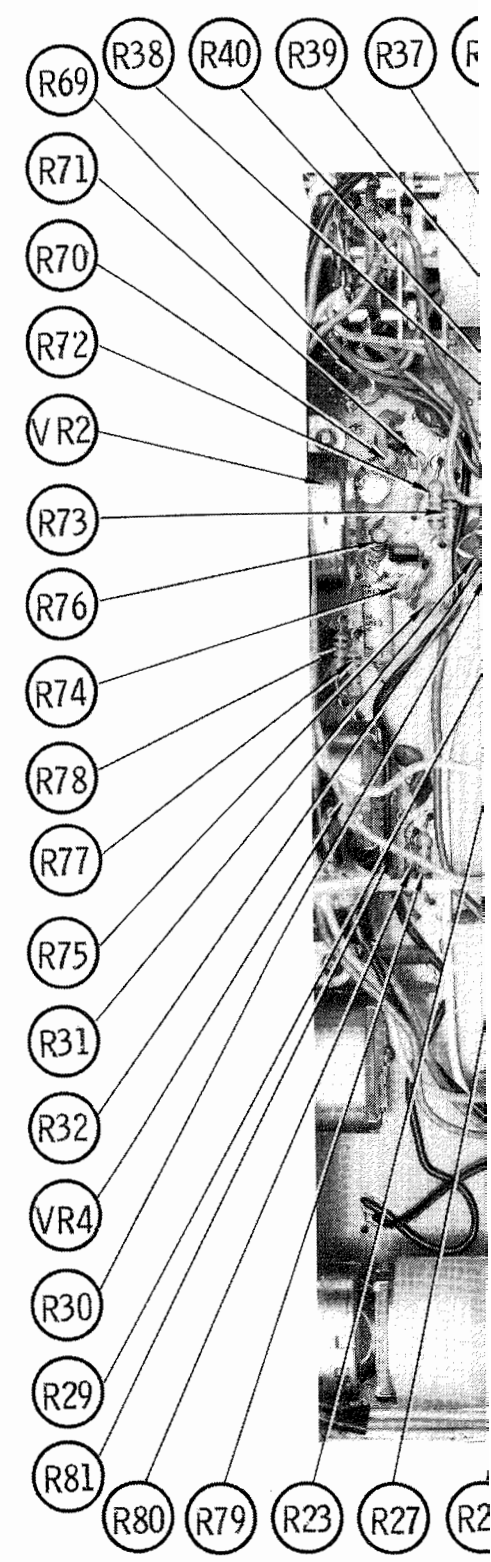
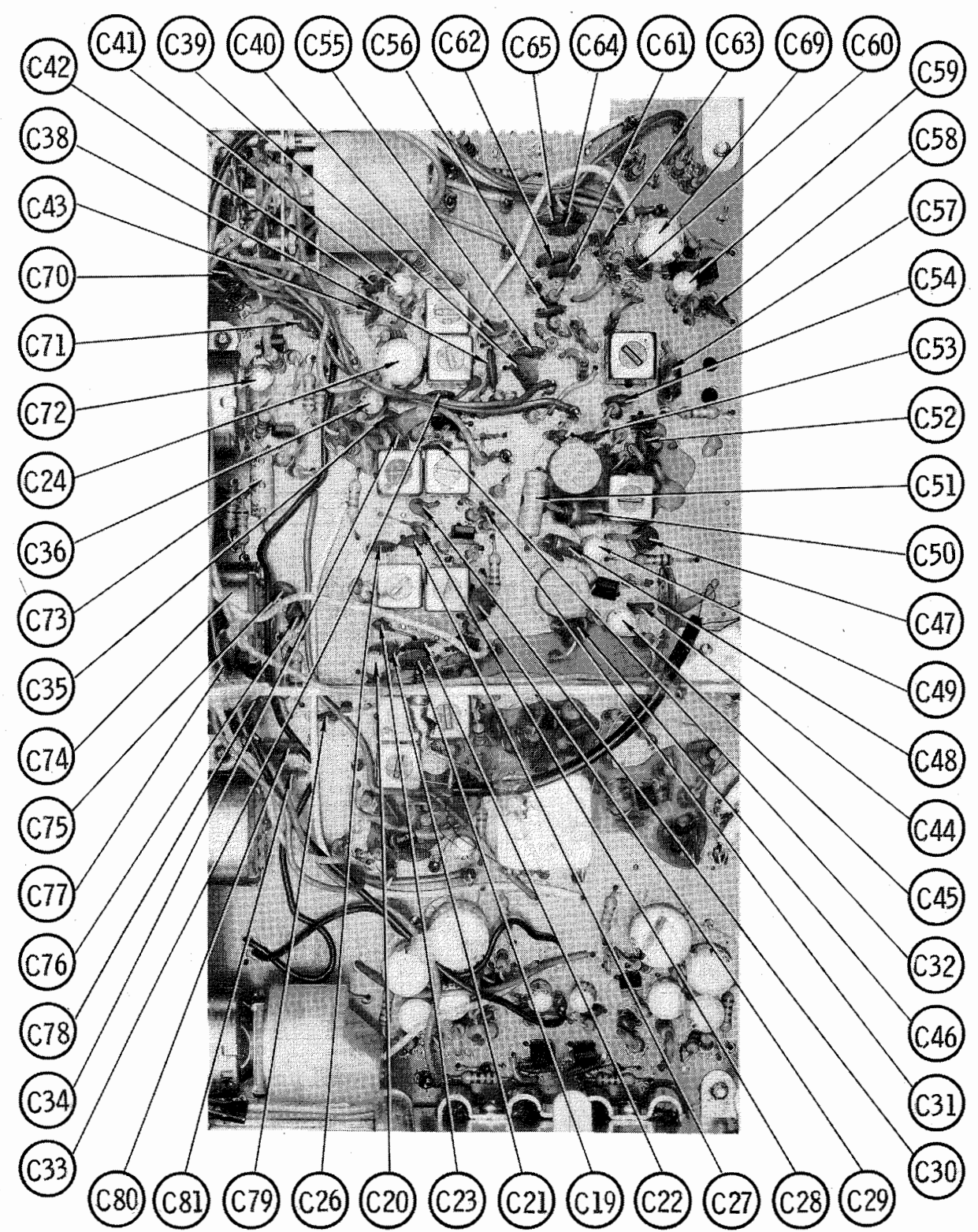
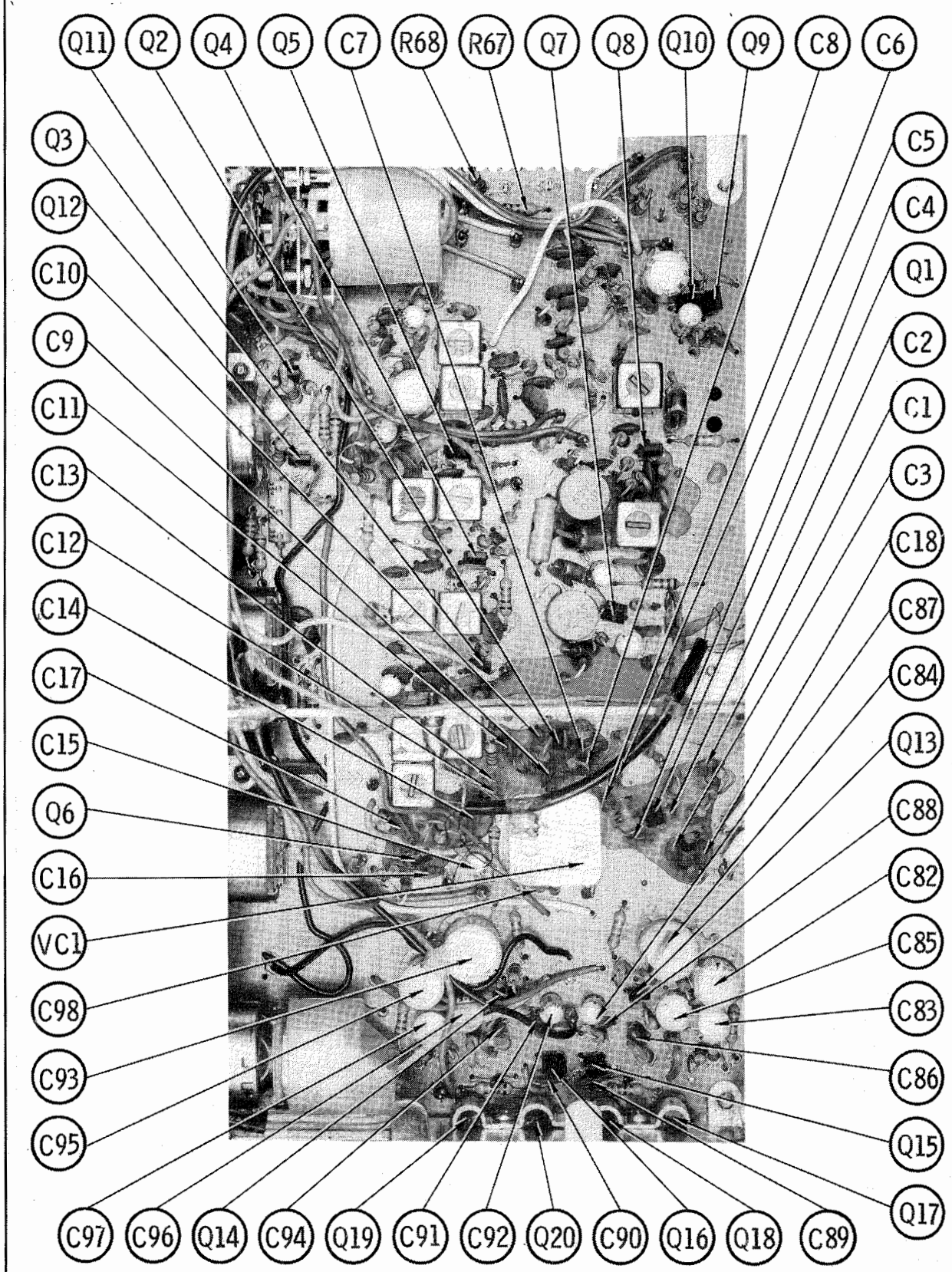
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

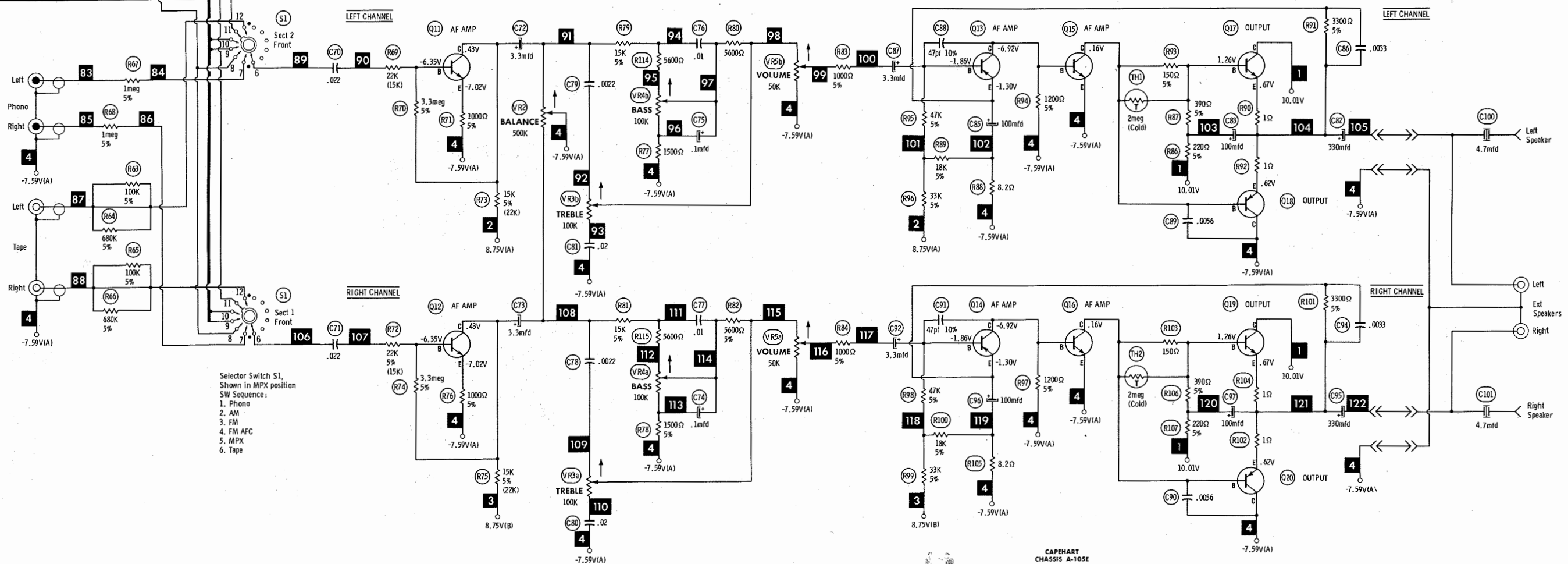
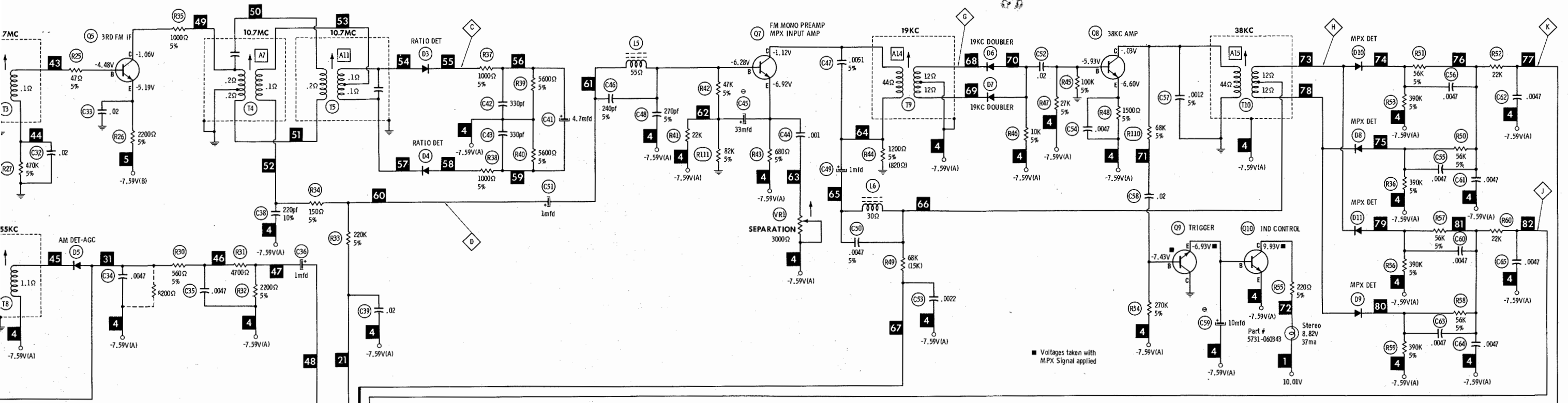


The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W.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

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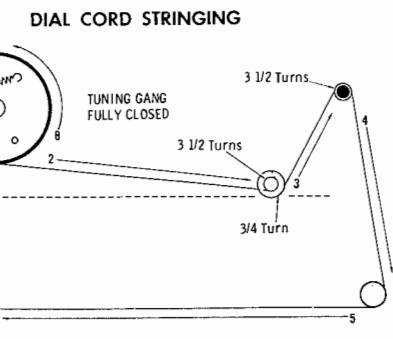
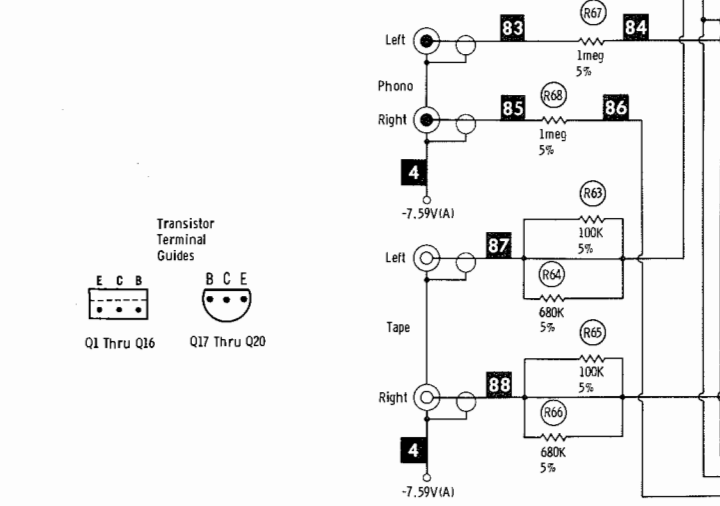
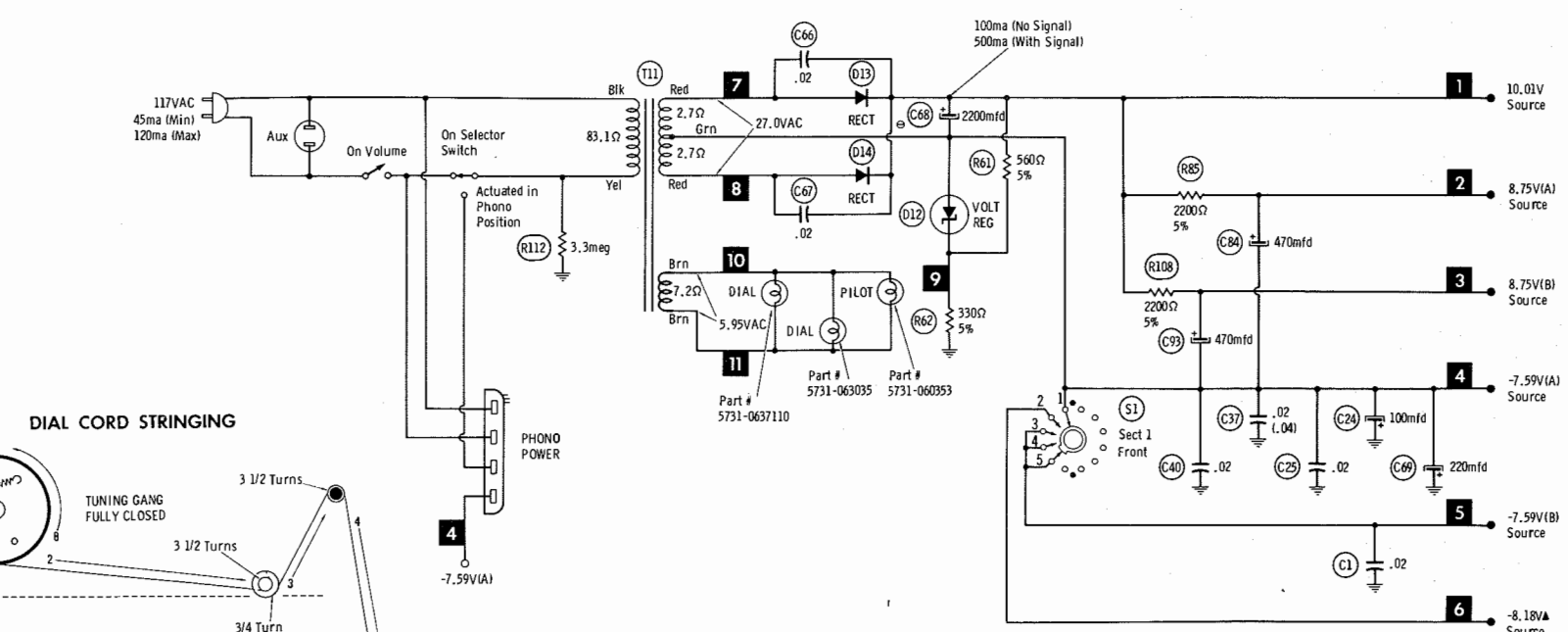
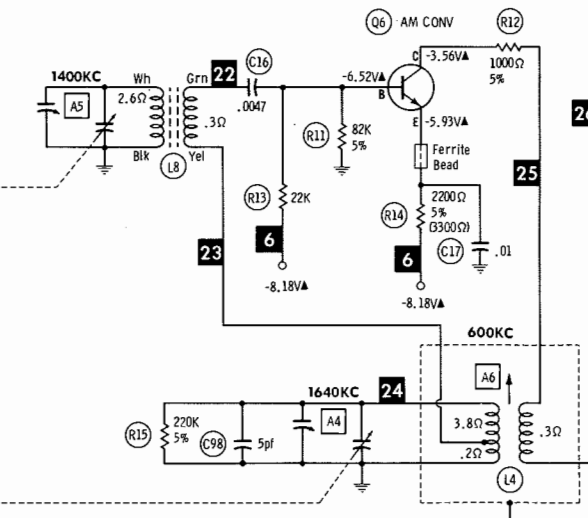
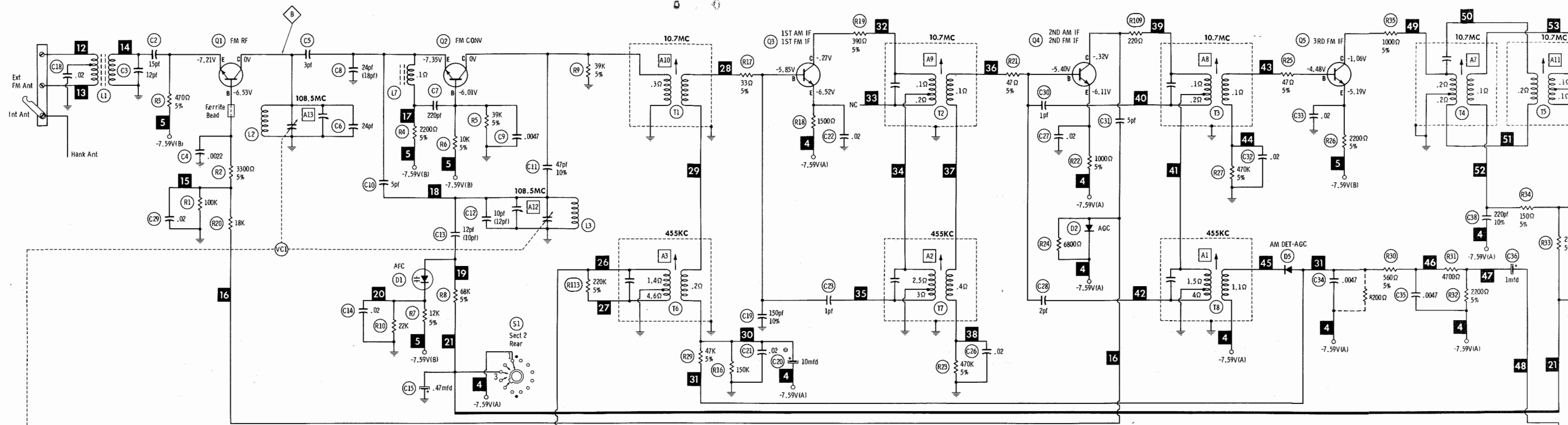
DATE 9-72 SET 1266 FOLDER 4





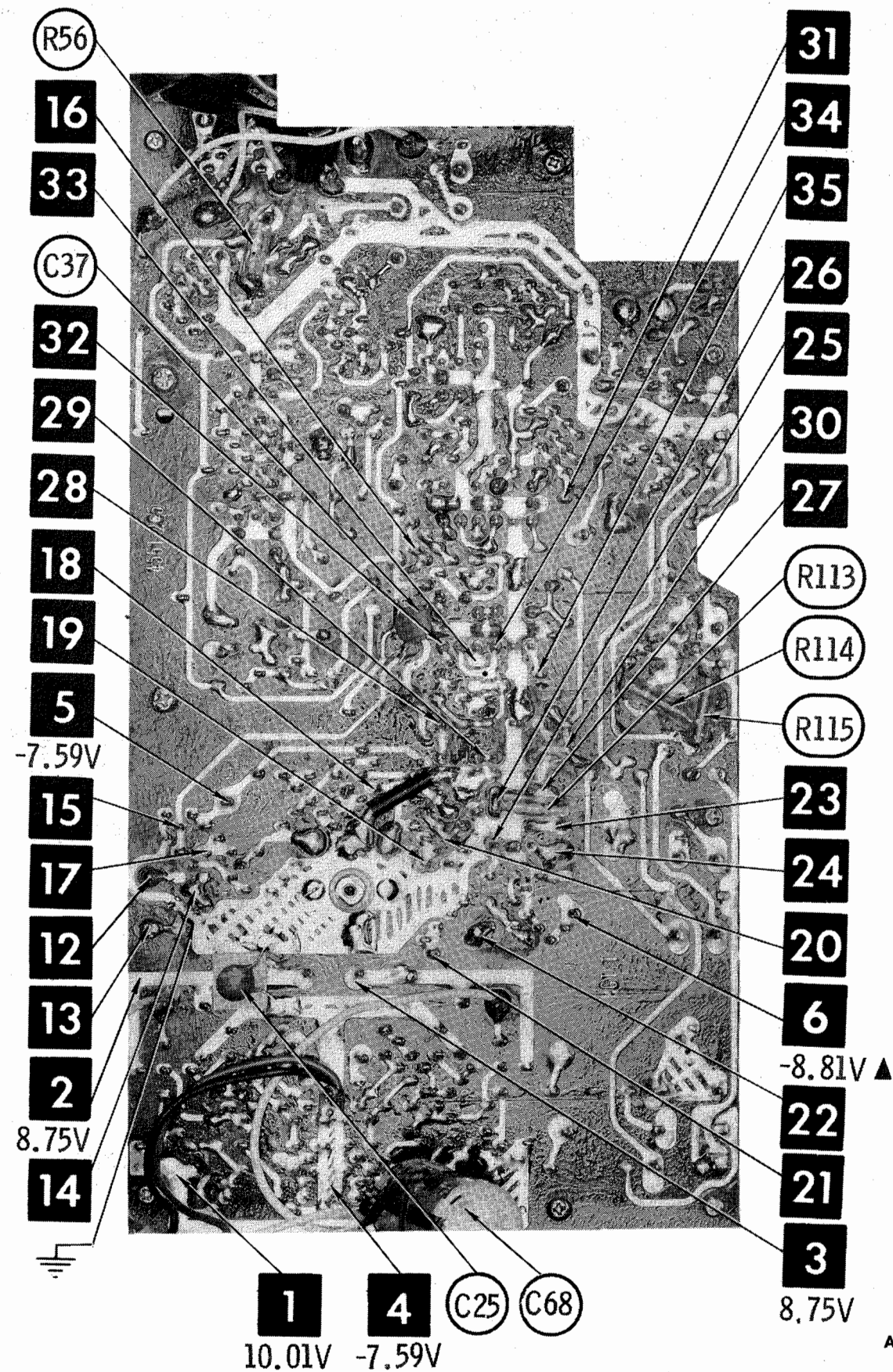
Transistor
Terminal
Guides

Q1 Thru Q16
Q17 Thru Q20



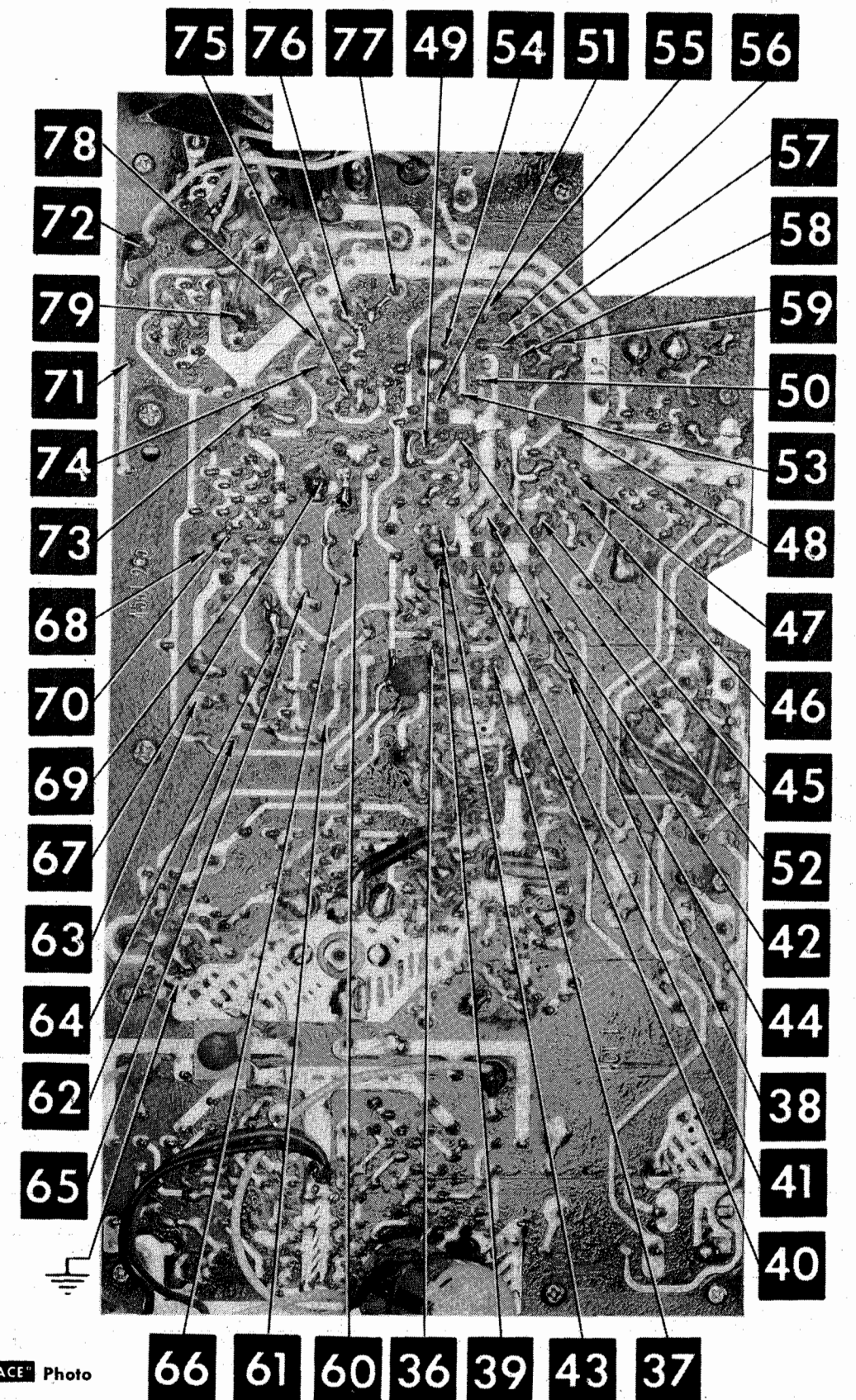
Denotes ground. (Voltage reference unless otherwise indicated).
 - - - Indicates connection used in some versions.
 * Indicates connection not used in some versions.
 * Omitted in some versions.
 See parts list.
 Measurements taken with switching in position shown unless otherwise indicated.
 ▲ Measured with switching in "AM" position.
 Values shown in () are used in some applications.
 Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated.
 Supply voltage maintained at rated value for measurements.
 Voltage and resistance measured with VTVM or equivalent meter, no signal applied and controls adjusted for normal operation.
 Arrow on control indicates direction of advance.
 Numbers assigned to terminals may not be found on the unit.
 Transistor resistances vary widely. No resistance measurements taken.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 with CIRCUITRACE
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▲ Measured in AM position

A Howard W. Sams CIRCUITRACE™ Photo



ALIGNMENT INSTRUCTIONS

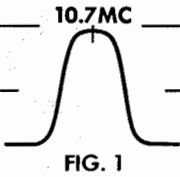
CAUTION: Use isolation transformer or observe polarity when connecting test equipment.
Maintain line voltage at 117VAC. Allow a 15-minute warm-up period.
Use only enough generator output to obtain a suitable indication.
Suggested Alignment Tools:
A1-A15GC ELECTRONICS #8868, 8987, 9089

AM ALIGNMENT—SELECTOR IN AM POSITION

Connect generator across loop fashioned of several turns of wire. Set volume at maximum.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. 455KC 400 cycle modulation	Tuning gang fully open.	Output Meter across voice coil.	A1 A2 A3	Adjust for maximum. Repeat until no further improvement can be made.
2. 1640KC	"	"	A4	Adjust for maximum.
3. 1400KC	Tune to signal	"	A5	"
4. 600KC	"	"	A6	Rock tuning gang and adjust for maximum. Repeat steps 2 thru 4 until no further improvement can be made.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001mfd to point \diamond , low side to ground.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. 10.7MC Unmodulated	Point of non-interference	DC probe of VTVM to point \diamond , common to -7.59V Source.	A7,A8 A9,A10	Adjust for maximum.
6. "	"	DC probe of VTVM to point \diamond , common to -7.59V Source.	A11	Adjust for zero reading. A positive or negative reading will be obtained on either side of the correct setting.

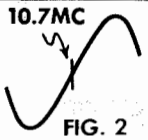


FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001mfd to point \diamond , low side to ground. Use only enough marker signal for indication. Use 60 cycle frequency modulated signal with 450KC sweep. Use 60 cycle sawtooth voltage in scope for horizontal deflection.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. 10.7MC 450KC Sweep	Point of non-interference	Vert. amp of scope to point \diamond , low side to ground.	A7,A8 A9,A10	Disconnect stabilizing capacitor C41. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C41.
6. "	"	Vert. amp of scope to point \diamond , low side to ground.	A11	Adjust A11 (secondary) to place marker at center of "S" curve similar to Fig. 2. Readjust A7 (primary) for maximum amplitude and straightness of line.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

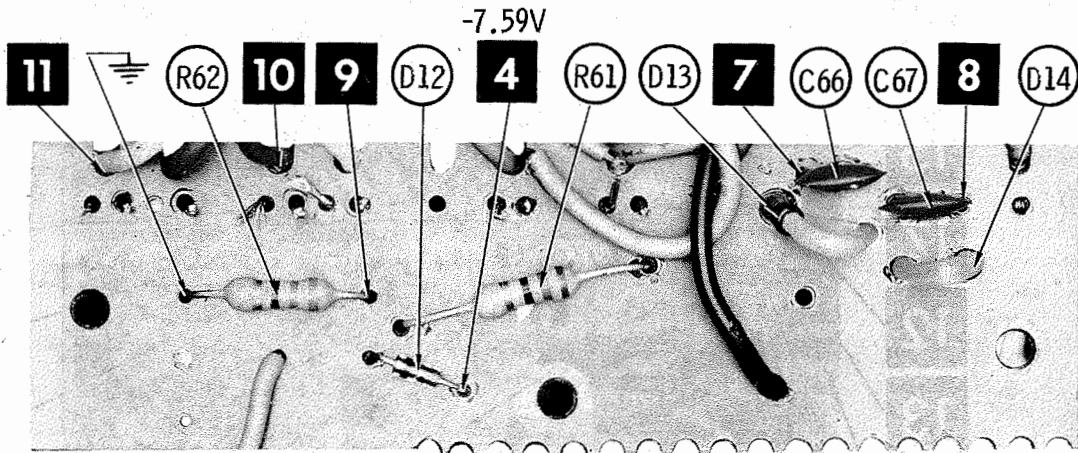
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
7. 108.5MC	High freq. end	DC probe of VTVM to point \diamond , common to ground.	A12, A13	Adjust for maximum.



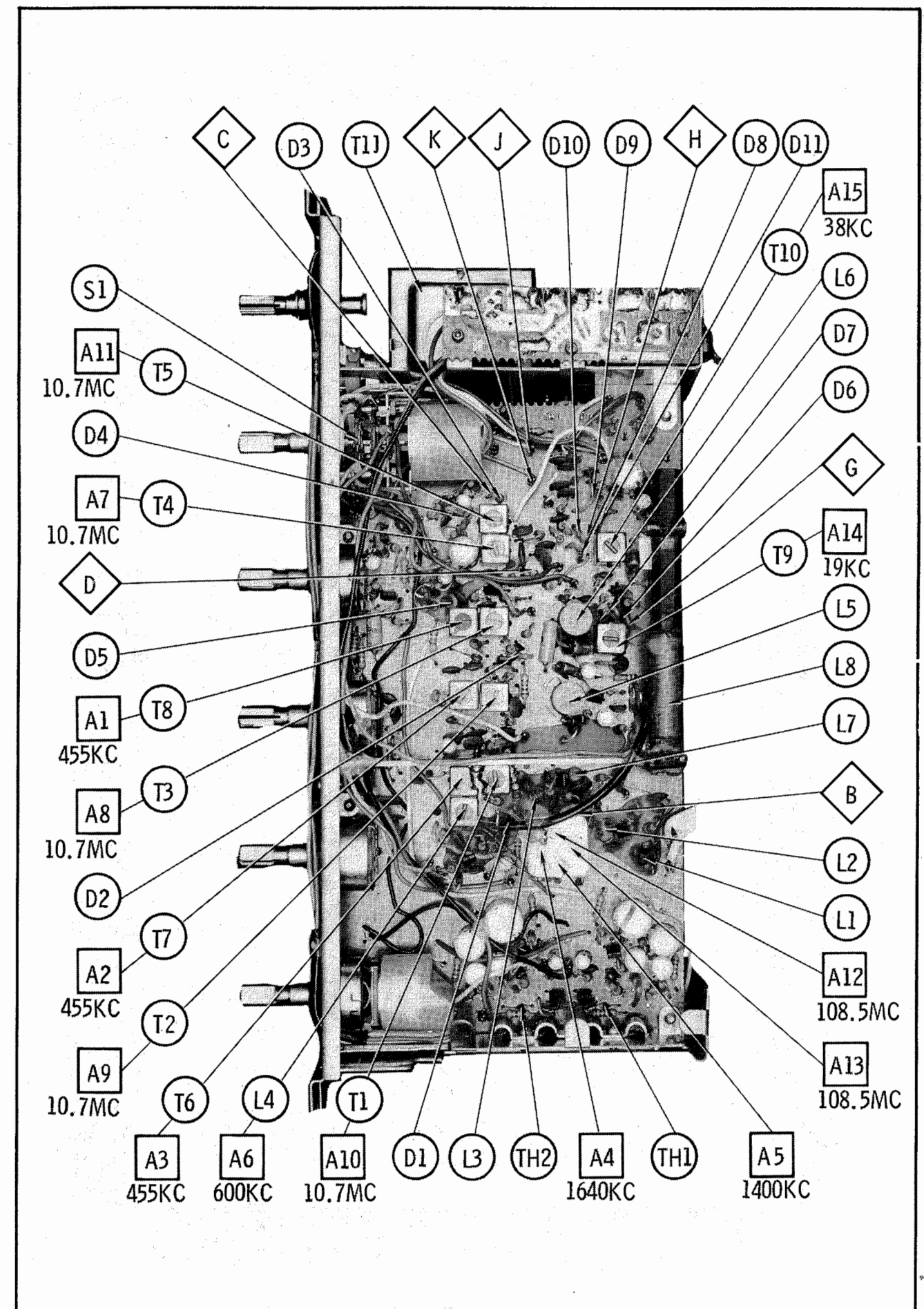
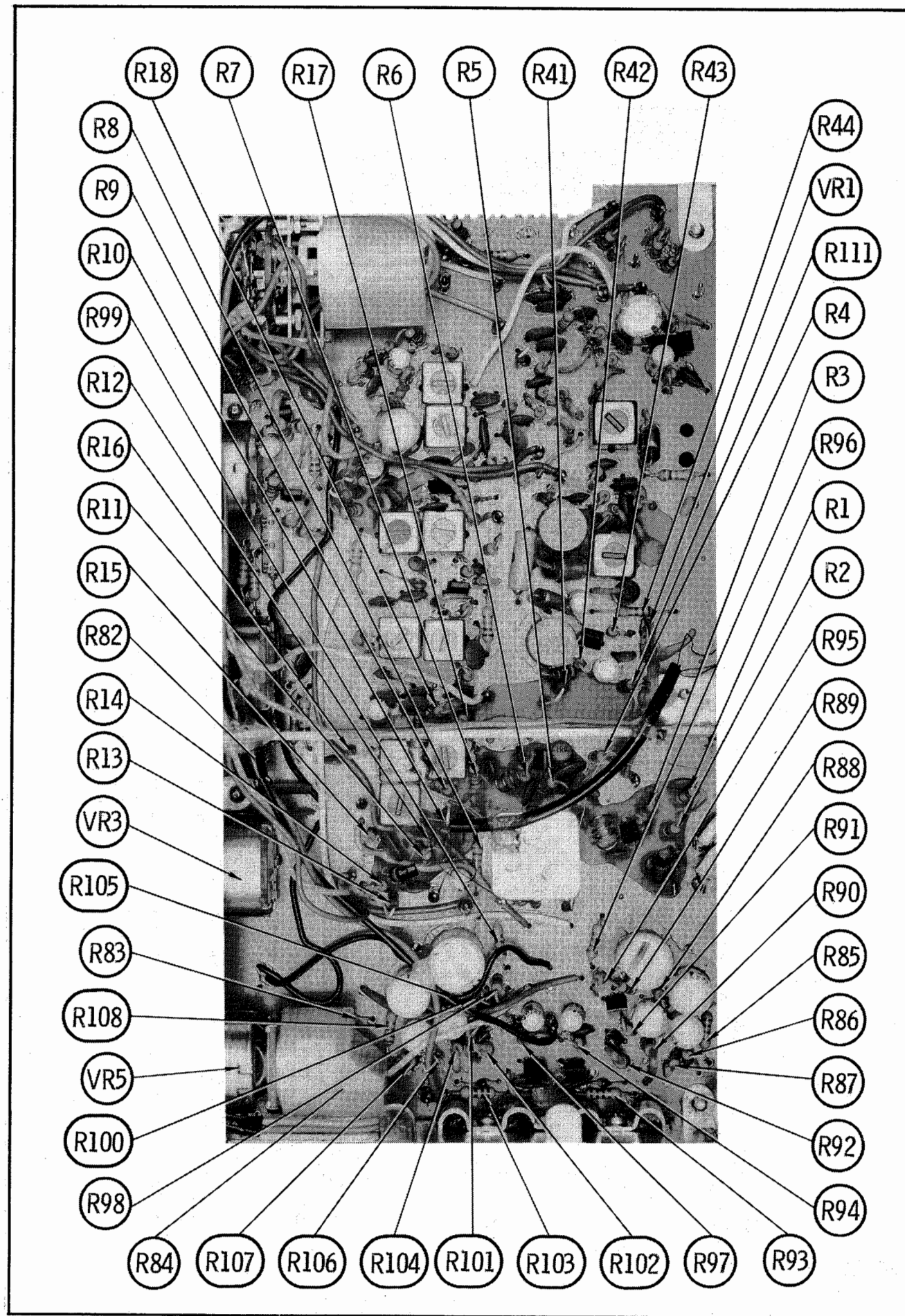
ALIGNMENT INSTRUCTIONS (Continued)

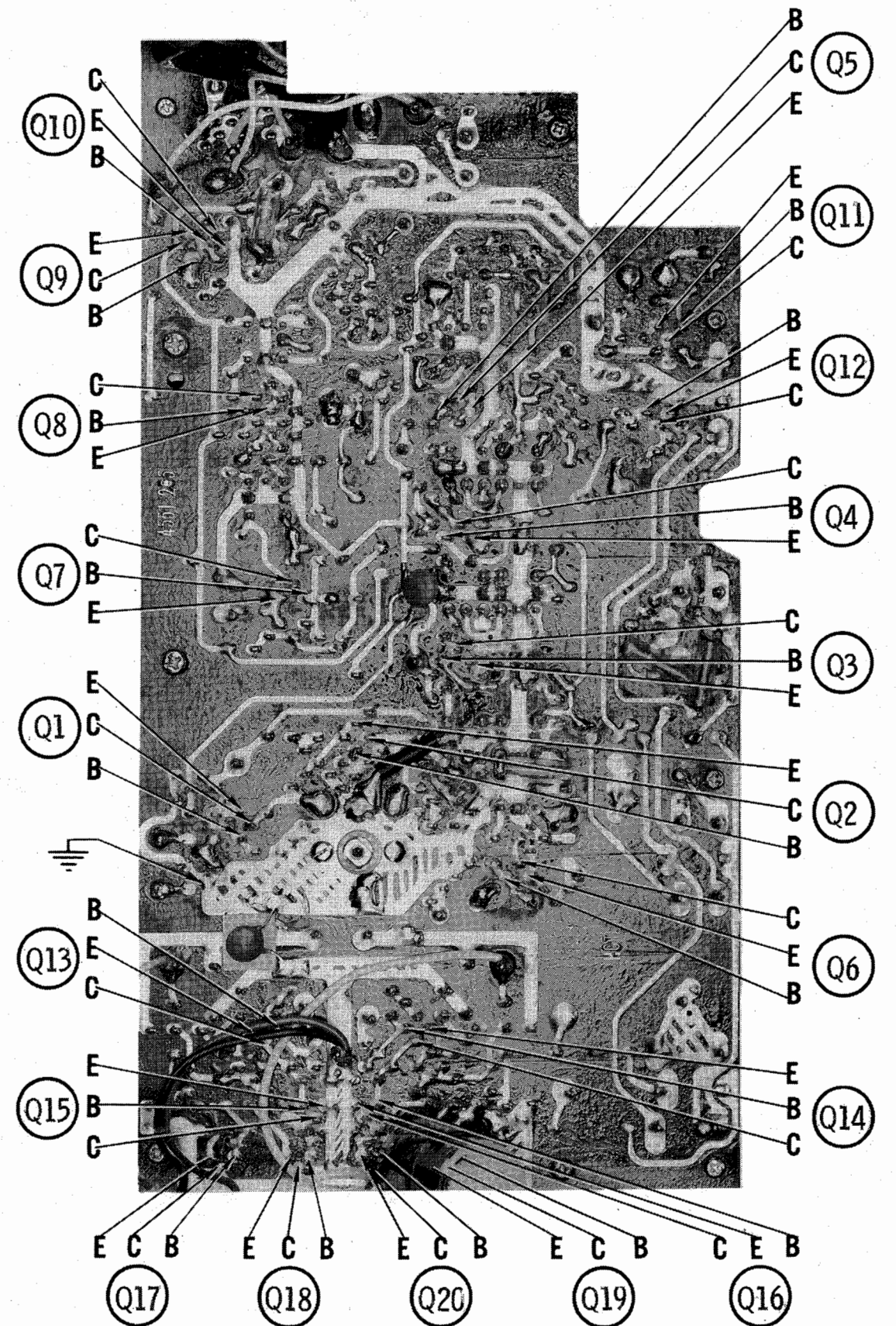
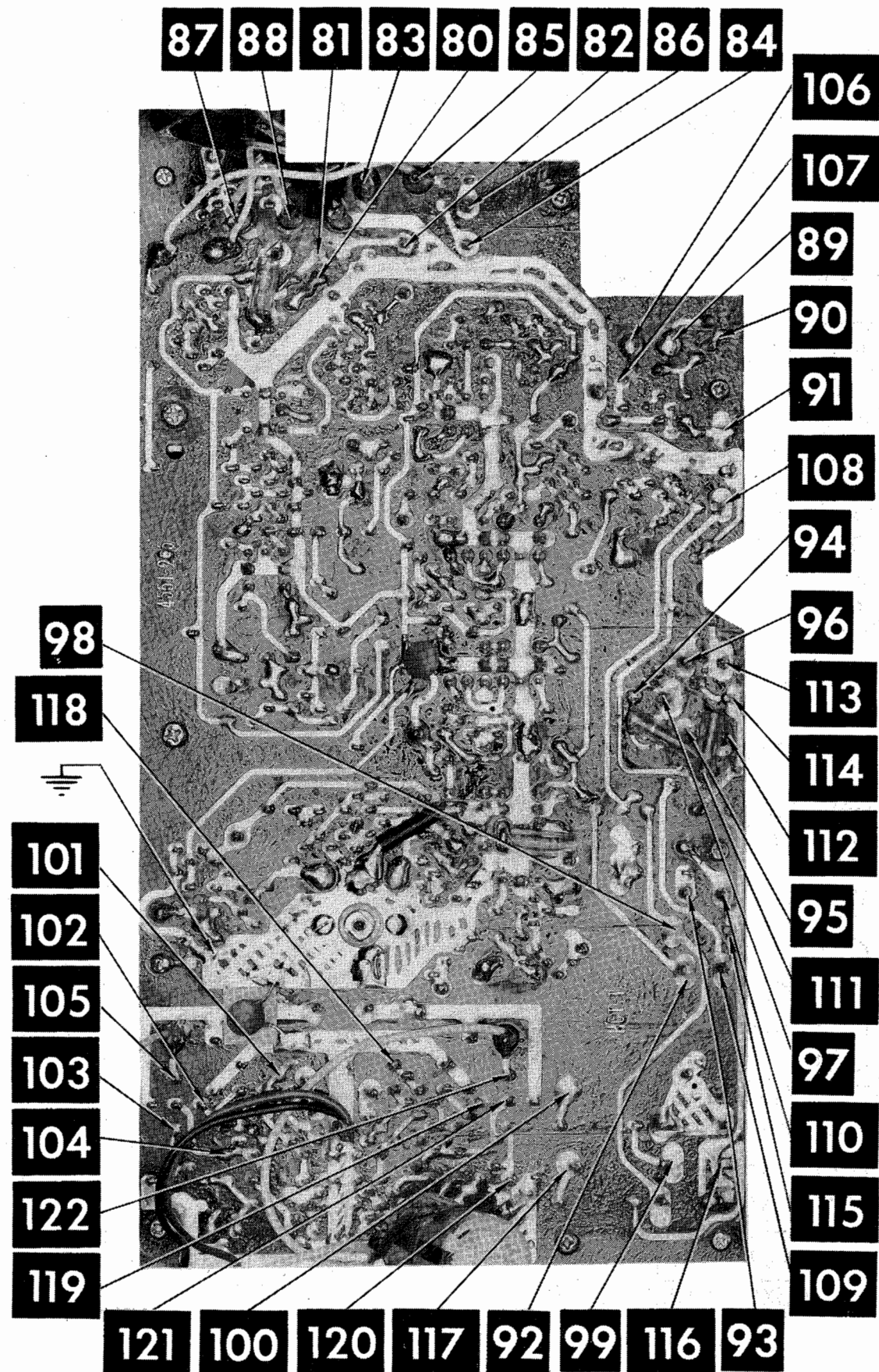
FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR ($\pm .0001\%$ ACCURACY)

High side of generator thru 47K to point \diamond , low side to ground.			
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
19KC	Vert. amp of scope thru 47K to point \diamond , low side to ground.	A14	Adjust for maximum.
"	Vert. amp of scope thru 47K to point \diamond , low side to ground.	A15	Adjust for maximum 38KC response.
Modulated Left Channel	Vert. amp of scope to point \diamond , low side to ground.	A14,A15, VR1	Adjust for MINIMUM. This step should require only slight adjustment.
Modulated Right Channel	Vert. amp of scope to point \diamond , low side to ground		Check for MINIMUM. If necessary make compromise adjustment of A14,A15,VR1



A Howard W. Sams CIRCUITRACE Photo





A Howard W. Sams CIRCUITRACE Photo

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
R88	8.2 1/4W Carbon	CAB.2	5154-8R2511	R104	1 1/2W Carbon		5135-010511
R90	1 1/2W Carbon		5135-010511	R105	8.2 1/4W Carbon	CAB.2	5154-8R2511
R92	1 1/2W Carbon		5135-010511	TH1	Thermistor 2meg (Cold)		5641-HV46
R102	1 1/2W Carbon		5135-010511	TH2	Thermistor 2meg (Cold)		5641-HV46

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	FM Antenna	5991-0265			
L2	FM RF	5995-00114			
L3	FM Oscillator	5991-0625			
L4	AM Oscillator	5923-01211		2069	
L5	67KC Trap (22.3MH)	5995-00215			
L6	19KC Trap (16MH)	5995-00115			
L7	RF Choke (1.2uh)	5995-0056		74F126AP	T807
L8	Loopstick	5911-118			
T1	FM Input IF	5563-0017		8852	
T2	FM Interstage IF	5563-0137	16-9031	2071	
T3	FM Interstage IF	5563-0137	16-9032	2072	
T4	Ratio Detector (Pri)	5573-0066D			
T5	Ratio Detector (Sec)	5573-0056E			
T6	AM Input IF	5553-0097	16-9026	2066	
T7	AM Interstage IF	5553-0087	16-9027	2067	
T8	AM Output IF	5553-0137	16-9028	2068	
T9	19KC Doubler	5933-0014			
T10	38KC Output				

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T11	117VAC @.120AAC	27.0VAC/CT @.50ADC	5584-00146				
	SEC. 2	SEC. 3					
	5.95VAC @.090AAC						

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
S1	Switch Printed Circuit Board Printed Circuit Board	4411-206012 4501-46 4501-47	Function (Phono/AM/FM/FMAFC/MPX/Tape) Main Assembly Power

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Feet 17109 (Plastic) or 17129 (Rubber) - 9 Feet
Low-loss Shielded Lead (Interconnecting)	Use BELDEN No. 8401 or 8421

SEMICONDUCTORS

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	MOTOROLA PART No.
D1	1S85	GE-90 (8)	D201 (8)					
D2	5633-1S85 (8) 1N60	1N60	1N60	PTC206	SK3088		ECG 109	
D3	5631-1N60 1N60P	1N60 (7)	1N60 (7)	PTC206 (7)	SK3088 (7)		ECG 110 (6)	
D4	5631-1N60P (6) 1N60P	1N60 (7)	1N60 (7)	PTC206 (7)	SK3088 (7)		ECG 110 (6)	
D5	5631-1N60P (6) 1N60	1N60	1N60	PTC206	SK3088		ECG 109	
D6	5631-1N60 1N60P	1N60 (7)	1N60 (7)	PTC206 (7)	SK3088 (7)		ECG 110 (6)	
D7	5631-1N60P (6) 1N60P	1N60 (7)	1N60 (7)	PTC206 (7)	SK3088 (7)		ECG 110 (6)	
D8	5631-1N60P (6) 1N60P	1N60 (7)	1N60 (7)	PTC206 (7)	SK3088 (7)		ECG 110 (6)	
D9	5631-1N60P (6) 1N60P	1N60 (7)	1N60 (7)	PTC206 (7)	SK3088 (7)		ECG 110 (6)	
D10	5631-1N60P (6) 1N60P	1N60 (7)	1N60 (7)	PTC206 (7)	SK3088 (7)		ECG 110 (6)	
D11	5631-1N60P (6) 1N60P	1N60 (7)	1N60 (7)	PTC206 (7)	SK3088 (7)		ECG 110 (6)	
D12	HZ11A 5635-HZ11A (10)	GEZD-10-4 Z1110	Z1110	PTC506 SK3061	SK3061		ECG140 ECG140	
D13	W06B 5632-W06B	GE-504A 8D4 or 5A4D	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117	
D14	W06B 5632-W06B	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117	
Q1	2SC535 (C) 5613-535 (C)	GE-20	TR-21	PTC115	SK3018	RT107	ECG107	HEP56
Q2	2SC461 (C) 5613-461 (C)	GE-20	TR-21	PTC115	SK3018	RT107	ECG107	HEP53
Q3	2SC460 (C) 5613-460 (C)	GE-20	TR-21	PTC115	SK3018	RT107	ECG107	HEP53
Q4	2SC-460 (C) 5613-460 (C)	GE-20	TR-21	PTC115	SK3018	RT107	ECG107	HEP53
Q5	2SC1342 (C) 5613-1342 (C)	GE-20	TR-21	PTC115	SK3018	RT107	ECG107	HEP53
Q6	2SC-460 (B) 5613-460 (B)	GE-20	TR-21	PTC115	SK3018	RT107	ECG107	HEP53
Q7	2SC458 (B) 5613-458(B)	GE-10	TR-24	PTC123	SK3122	RT102	ECG123A	HEP738
Q8	2SC458(B) 5613-458(B)	GE-10	TR-24	PTC123	SK3122	RT102	ECG123A	HEP738
Q9	2SC458(C) 5613-458(C)	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP738
Q10	2SC458(C) 5613-458(C)	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP738
Q11	2SC1335(D) 5613-1335(D)							HEP737
Q12	2SC1335(D) 5613-1335(D)							HEP737
Q13	2SA673 5611-673(D)	GE-21	TR-19	PTC103	SK3114	RT115	ECG 159	HEP242
Q14	2SA673 5611-673(D)	GE-21	TR-19	PTC103	SK3114	RT115	ECG 159	HEP242
Q15	2SC458(C) 5613-458(C)	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP738
Q16	2SC458(C) 5613-458(C)	GE-10	TR-24	PTC123	SK3122	RT102	ECG 123A	HEP738
Q17	2SC1209(C) 5613-1209(C)	GE-63	TR-25		SK3024	RT114	ECG 128	HEP243
Q18	2SA695(C) 5611-695(C)	GE-67	TR-28		SK3025	RT115	ECG 129	HEP242
Q19	2SC1209(C) 5613-1209(C)	GE-63	TR-25		SK3024	RT114	ECG 128	HEP243
Q20	2SA695(C) 5611-695(C)	GE-67	TR-28		SK3025	RT115	ECG 129	HEP242

(6) Matched Pair. (8) Varactor. (10) Zener. (7) Two required - select matched pair.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C15	.47 50V	5345-474075	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	EV-1615
C20	10 10V		RME-A-D-010	EP15-10	WBR10-25	MT1-5	MTV10CB50	EV-1222
	10 16V	5345-106073						
C24	100 10V	5345-107072	RME-E-D-100	EP15-100	WBR100-16	MT1-19	MTV100CB10	EV-1130
C36	1 50V	5345-105075	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	EV-1615
C41	4.7 25V	5345-475074	RME-A-G-005	EP30-5	WBR5-50	MT1-3	MTV5CB50	EV-1319
C45	33 6.3V		ME-3-D-035	EP15-25	WBR35-50	MT1-13.5	MTV30CB25	EV-1125
	33 10V	5345-336072						
C49	1 50V	5345-105075	RME-A-J-001	EP50-2	WBR1-50	MT1-1	MTV1CB50	EV-1615
C51	1 50V	5345-105079	ME-1-J-001	EA50-2	WBR1-50	MT1-1	MTA1D50	TVA-1300
C59	10 10V		RME-A-D-010	EP15-10	WBR10-25	MT1-5	MTV10CB50	EV-1222
	10 16V	5345-106073						
C68	2200 20V		ME-G2000		WBR2000-25		TC2520	TVA-1213.5
	2200 25V	5345-228074						
C69	220 10V	5345-227072	RME-G-D-250	EA15-250	WBR250-16	MT1-25	MTV250DB10	EV-1145
C72	3.3 25V	5345-335074	RME-A-G-005	EP30-5	WBR5-50	MT1-3	MTV5CB50	EV-1319
C73	3.3 25V	5345-335078	ME-1-G-005	EA30-5	WBR5-50	MT1-3	MTA5D50	TVA-1203
C74	.1 10V	5346-104092						SD35-R109
C75	.1 10V	5346-104092						SD35-R109
C82	330 16V	5345-337073	ME-8-E-250	EA15-250	WBR300-35	QT1-30A	MTA300G50	EV-1245
C83	100 10V	5345-107072	RME-E-D-100	EP15-100	WBR100-16	MT1-19	MTV100CB10	EV-1130
C84	470 16V	5345-477073	RME-L-E-500	EA15-500	WBR500-16	QT1-30A	MTV500DN15	EV-1250
C85	100 10V	5345-107072	RME-E-D-100	EP15-100	WBR100-16	MT1-19	MTV100CB10	EV-1130
C87	3.3 25V	5345-335074	RME-A-G-005	EP30-5	WBR5-50	MT1-3	MTV5CB50	EV-1319
C92	3.3 25V	5345-335074	RME-A-G-005	EP30-5	WBR5-50	MT1-3	MTV5CB50	EV-1319
C93	470 16V	5345-477073	RME-L-E-500	EA15-500	WBR500-16	QT1-30A	MTV500DN15	EV-1250
C95	330 16V	5345-337073	ME-8-E-250	EA15-250	WBR300-35	QT1-30A	MTA300G50	EV-1245
C96	100 10V	5345-107072	RME-E-D-100	EP15-100	WBR100-16	MT1-19	MTV100CB10	EV-1130
C97	100 10V	5345-107072	RME-E-D-100	EP15-100	WBR100-16	MT1-19	MTV100CB10	EV-1130
C100	4.7 25V NP				BRNP4-25	NPQT-1	TCN505	TVAN-1203.1
C101	4.7 35V NP				BRNP4-25	NPQT-1	TCN505	TVAN-1203.1

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
VC1		#5324-0213					
C1	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C2	15		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
C3	12		CCT0-120		NP012	CN0412	10TCC-Q12
C4	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C5	3						10TCC-V30
C6	24			DTZ-25		CN0425	10TCC-Q25
C7	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C8	24			DTZ-25	CN0425	CN0425	10TCC-Q25
C9	.0047		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C10	5				NP05		10TCC-V50
C11	47	10%	CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C12	10		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C13	12		CCT0-120		NP012	CN0412	10TCC-Q12
C14	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C16	.0047		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C17	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C18	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C19	150	10%	CCD-151	DD-151	GP150	GP315	10TS-T15
C21	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C22	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C23	1				CN0510		10TCC-V10
C25	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C26	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C27	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C28	2		CCD-203	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C29	.02			CK-203	MGP02	TA120	TG-S20
C30	1					CN0510	10TCC-V10
C31	5				NP05		10TCC-V50
C32	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C33	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C34	.0047		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C35	.0047		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C37	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C38	220	10%	CCD-221	DD-221	GP220	GP322	10TS-T22

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C39	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C40	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C42	330		CCD-331	DD-331	GP330	GP333	10TS-T33
C43	330		CCD-331	DD-331	GP330	GP333	10TS-T33
C44	.001		CCD-102	DM-102	SM210	SM210	2SS-D10
C46	240 50V 5%		DM-15-241	CPR-240J	SX324	SX324	MS-324
C47	.0051 50V 5%		DM-19-512	CPR-5100J	SX251	SX251	MS-251
C48	270 50V 5%		DM-15-271	CPR-270J	SX-327	SX-327	MS-327
C50	.0047 50V 5%		DM-19-472	CPR-4700J	SX-247	SX-247	MS-247
C52	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C53	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C54	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C55	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C56	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C57	.0012 50V 5%		DM-19-122	CPR-1200J	SX212	SX212	MS-212
C58	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C60	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C61	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C62	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C63	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C64	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C65	.0047		CCD-472	DD-472G	GP4700	GP4700	10TS-D47
C66	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C67	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C70	.022 50V		1DP-1-223		DPMS6S22	PVC1122	225P22391WD3
C71	.022 50V		1DP-1-223		DPMS6S22	PVC1122	225P22391WD3
C76	.01 50V		1DP-1-103	CPR-10000J	DPMS6S1	PVC211	225P10391WD3
C77	.01 50V		1DP-1-103	CPR-10000J	DPMS6S1	PVC211	225P10391WD3
C78	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C79	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C80	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C81	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C86	.0033 50V		6DP-1-332		DMF6D33	PVC6233	6PS-D33
C88	47 10%		CCD-470	DTZ-47	NP047	CN0447	10TCC-Q47
C89	.0056		CCD-562	DD-562			10TS-D56
C90	.0056		CCD-562	DD-562			10TS-D56
C91	47 10%		CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C94	.0033 50V		6DP-1-332		DMF6D33	PVC6233	6PS-D33
C98	5				NP05		10TCC-V50

Capehart Part Number.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
VR1	Separation	3000	5101-3020181	TSV-5K(1) or T-5000 (1)		X201R302B(1)	MTCC33L1(1)
VR2	Balance	500K	5116-5040127	F1-500K(2), SSK104	A47-500K-S(2), KSS-3 or [NP-50K-S(2), UP-C-400]	Q11-133(2) or [BU1(2), CF16, SS1, DC1]*	RU55L, SL36, SL3250 or [UA55L(2), SK3500] or U48(2)
VR3a	Treble, Right	100K	5116-1040126	F2-100K(2), R2-100K, SSK104, CPL-2		B13-128, B13-128, SK1(2), QCM or [BU1(2), CF52, CR63, SS1, SS7A, DC1]*	P15A, 3014(2), RU15A, CS3500
b	Treble, Left	100K					
VR4a	Bass, Right	100K	5116-1040126	F2-100K(2), R2-100K, SSK104, CPL-2		B13-128, B13-128, SK1(2), QCM or [BU1(2), CF52, CR63, SS1, SS7A, DC1]*	P15A, 3014(2), RU15A, CS3500
b	Bass, Left	100K					
VR5a	Volume, Right	50K	5116-5030128	F2-50K(2), R2-50K, SSK104, CPL-2, KR-1		B13-123, B13-123, SK1(2), QCM, 76-1 or [BU1(2), CF63, CR62, SS1, SS7A, GC]*	P54A, 3014(2), RU54A, CS3500, US41
b	Volume/Switch, Left	50K					

* "SNAPTROL"

(1) Cut off one of the end terminals and bend to fit "PC" board.

(2) Enlarge mounting hole.