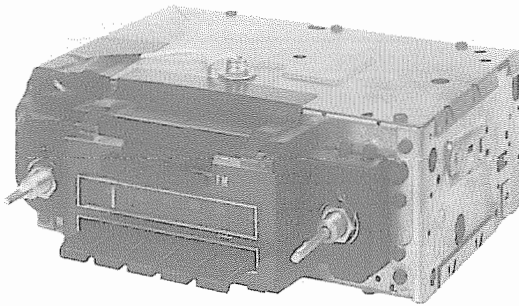


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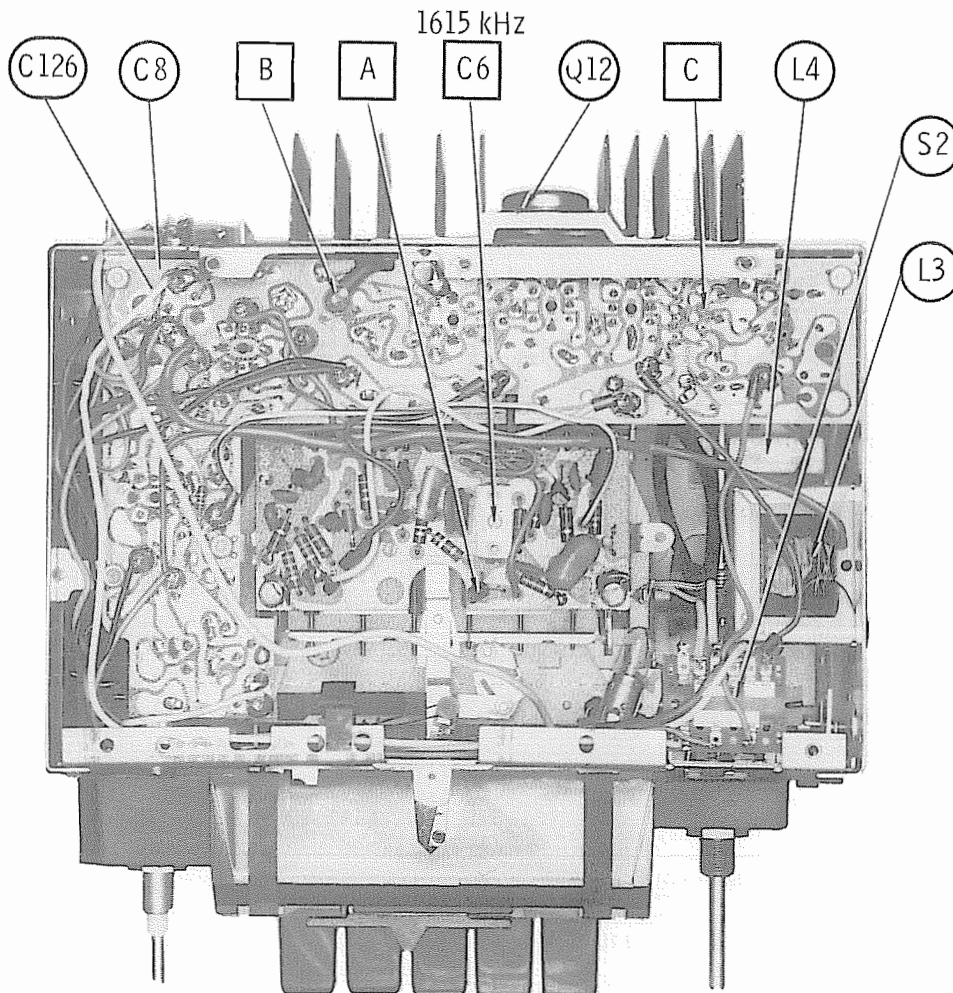
CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE: Manufacturer Part Numbers Shown Are UNITED DELCO



MODELS 51TFP1 (9343051)
(75 "G" Van)
51XFP1 (7933251)
51XFPK1 (7933511)
(75 Buick Apollo, Chev. Camaro, Nova,
Olds. Omega, Pontiac Ventura II)
51YFP1 (9344651)
(75 Chev. Corvette)
52FFP1 (7313532)
52FFPK1 (7313562)
(75 Pontiac Firebird)
55TFP1 (7931466)
(75 GMC Truck)



GM 1975 SERIES

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

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ALIGNMENT INSTRUCTIONS

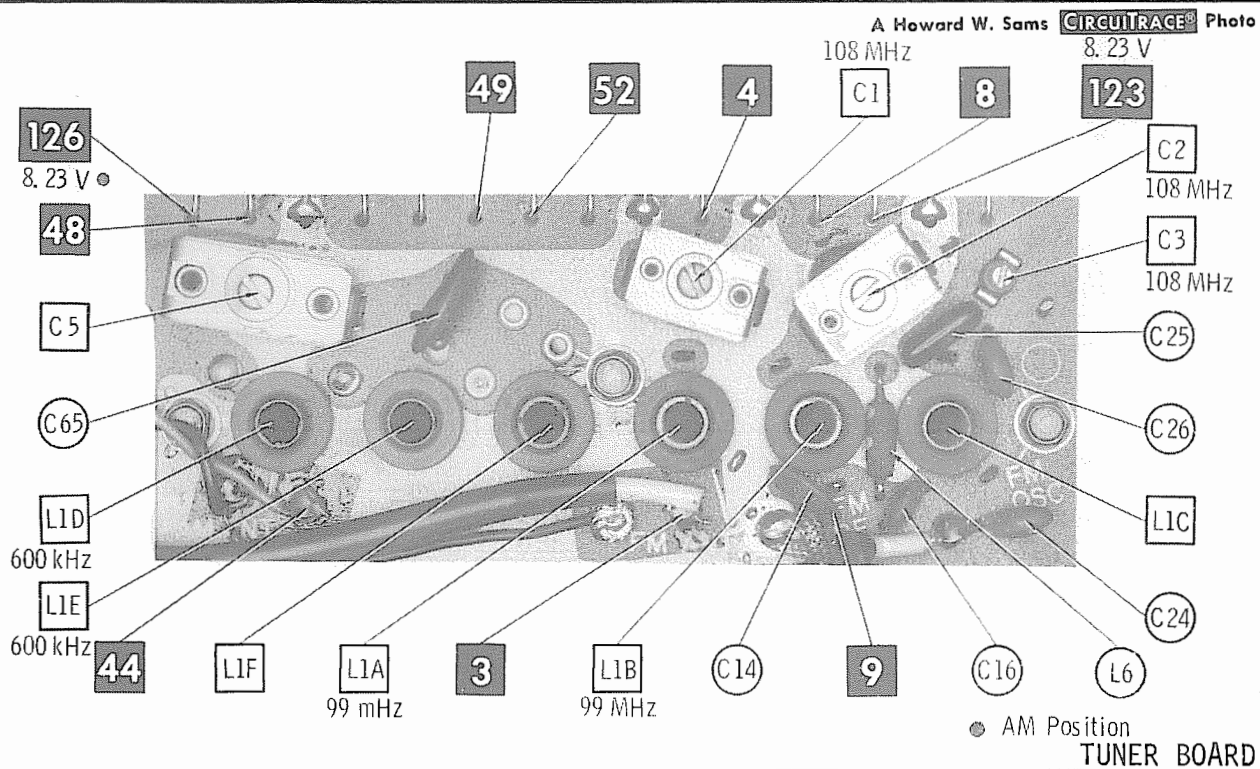
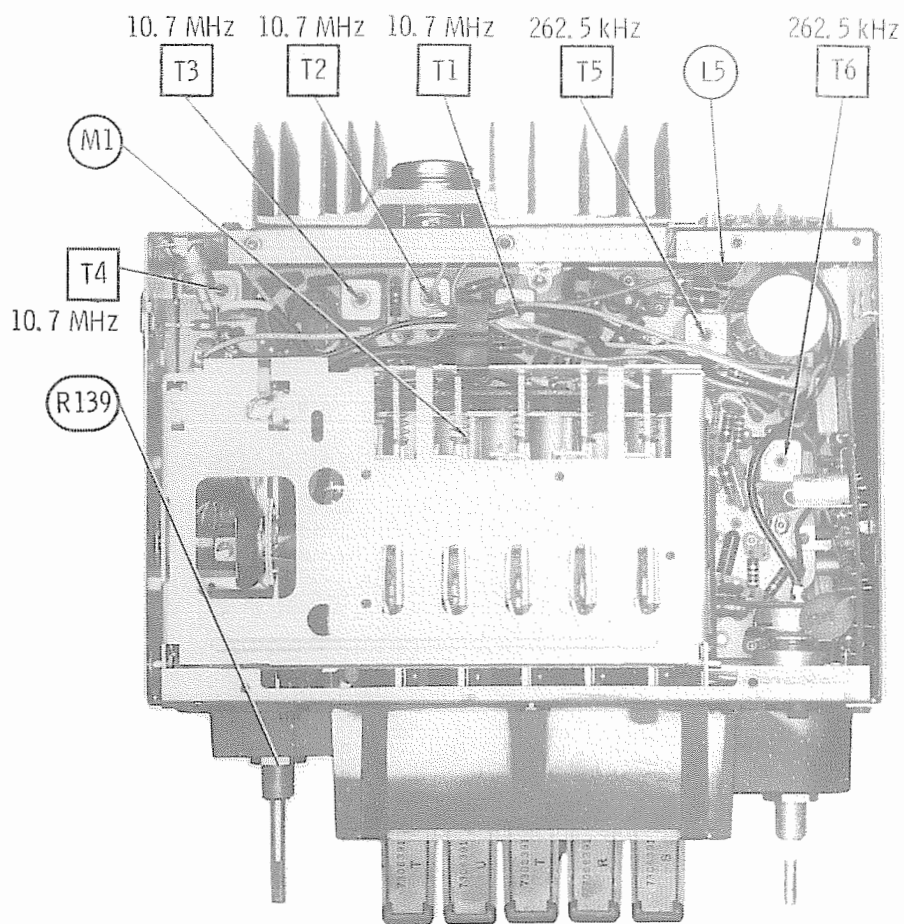
Check for specified source voltage Use only enough generator output to provide a usable indication. Suggested Alignment Tools:				PUSH-BUTTON ADJUSTMENT 1. Pull button out. 2. Tune manually to desired station. 3. Press button in firmly. 4. Repeat for remaining buttons.	
GC ELECTRONICS T1 thru T6.....9296,9297,9300 C1 thru C6.....8290,8868,9087					
GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to point low side to ground.	262kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T6,T5	Adjust for maximum.
Check setting of oscillator coil core L1F Rear of core should be 1 3/8" from mounting end of coil form.					
High side thru 82pf to antenna input, low side to ground.	1615kHz	High freq. end stop.	Output meter across voice coil.	C6,C5, C4	Adjust for maximum.
"	600kHz	600-kHz signal	"	L1E L1D	Adjust for maximum. Repeat alignment.
With radio installed in car and antenna extended 33 ", tune in a weak station near 1400kHz and adjust C4 for maximum output. Antenna adjustment C4 is located behind tuning and Fader Knobs.					

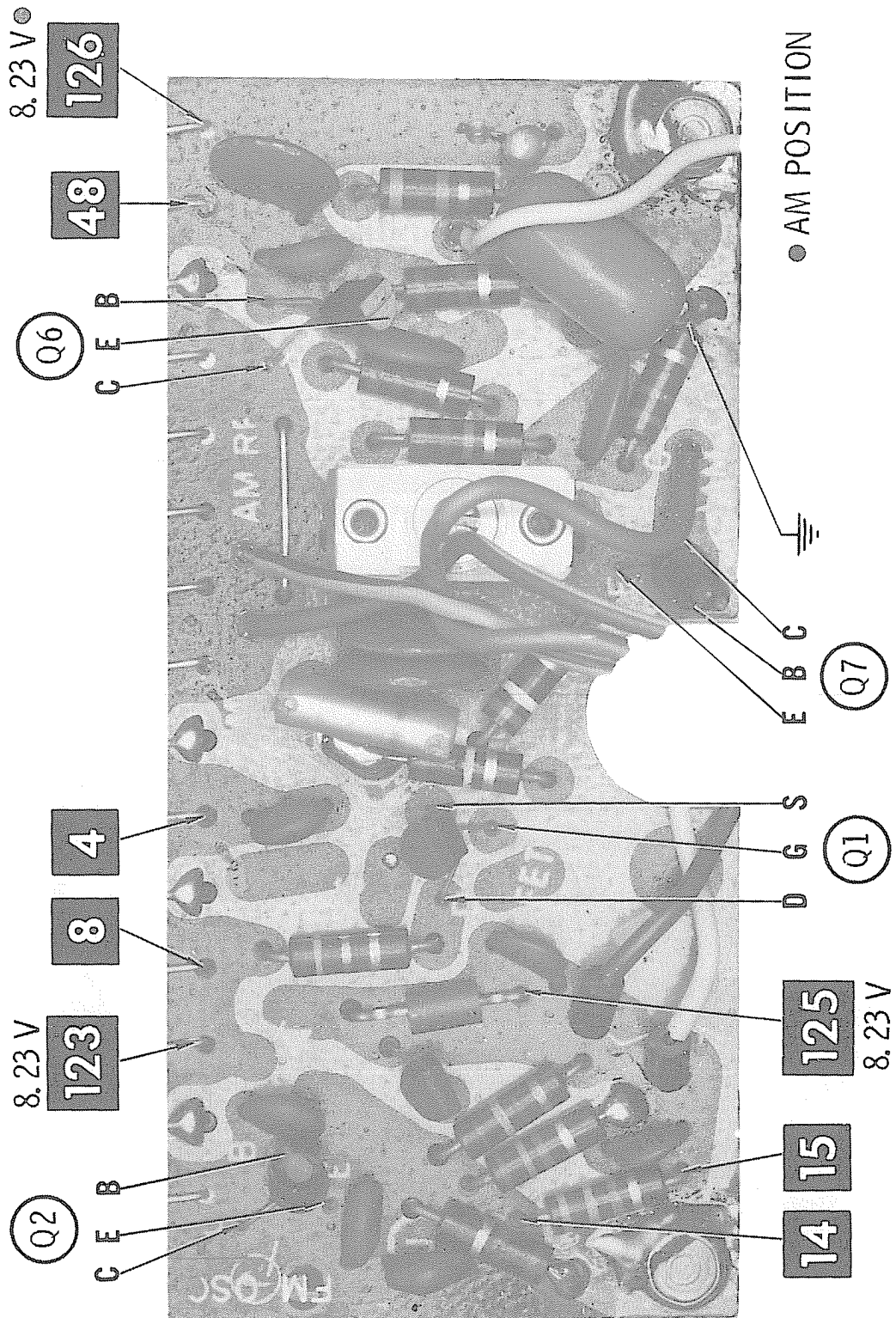
FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

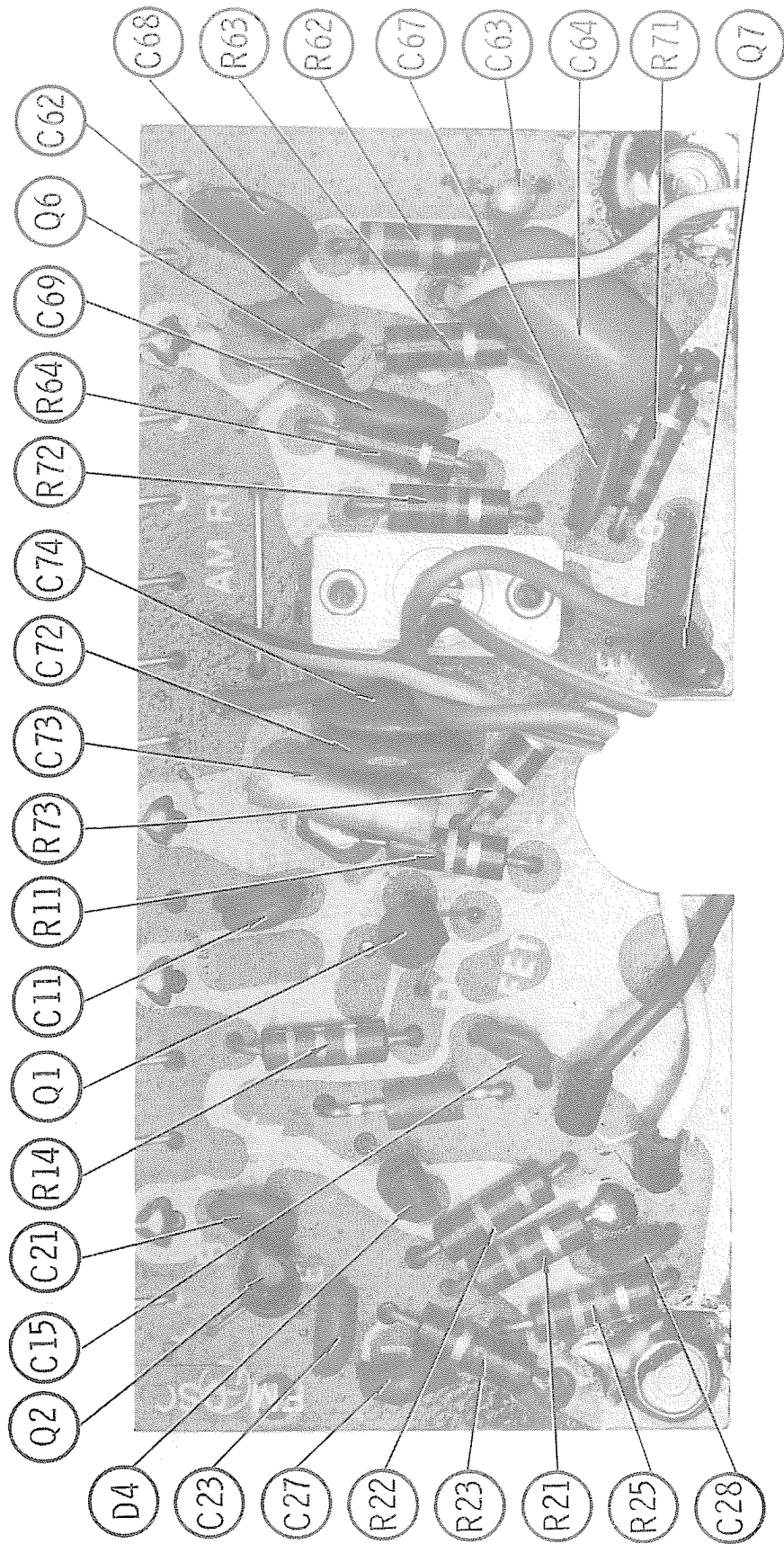
High side of generator thru .001uF to point B					low side to ground.
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS	
10.7MHz Unmodulated	Point of non- interference	DC probe of VTVM to point C common to ground.	T3,T2,T1	Adjust for maximum.	
"	"	Output meter across voice coil.	T4	Adjust for MINIMUM between noise peaks.	

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Check setting of oscillator coil core L1C Rear of core should be 1 3/8" from mounting end of coil form.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
99MHz Unmodulated	Low freq end	DC probe of VTVM to point C common to ground.	L1B,L1A	Adjust for maximum.
108MHz Unmodulated	Tune to signal	"	C3,C2,C1	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

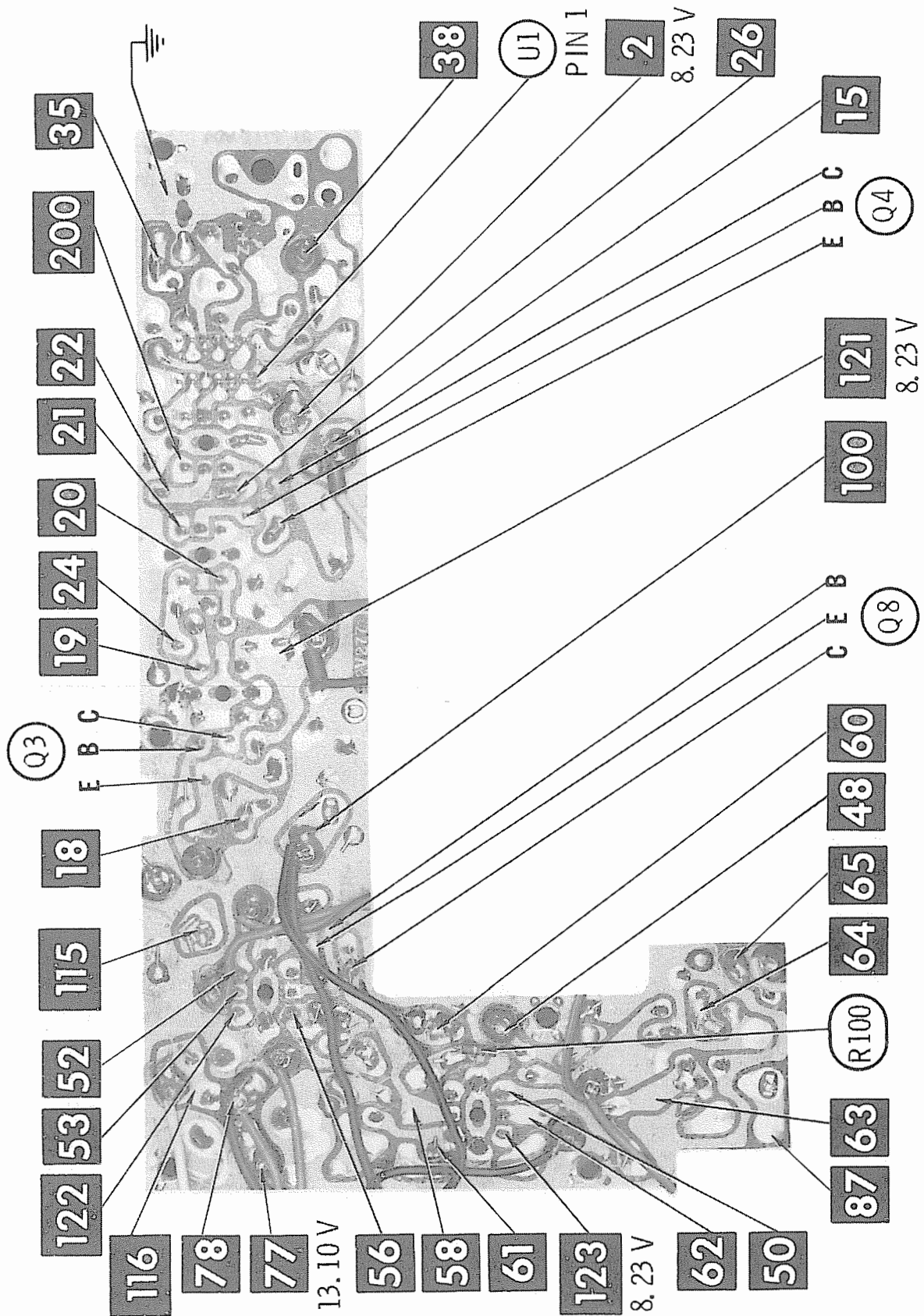


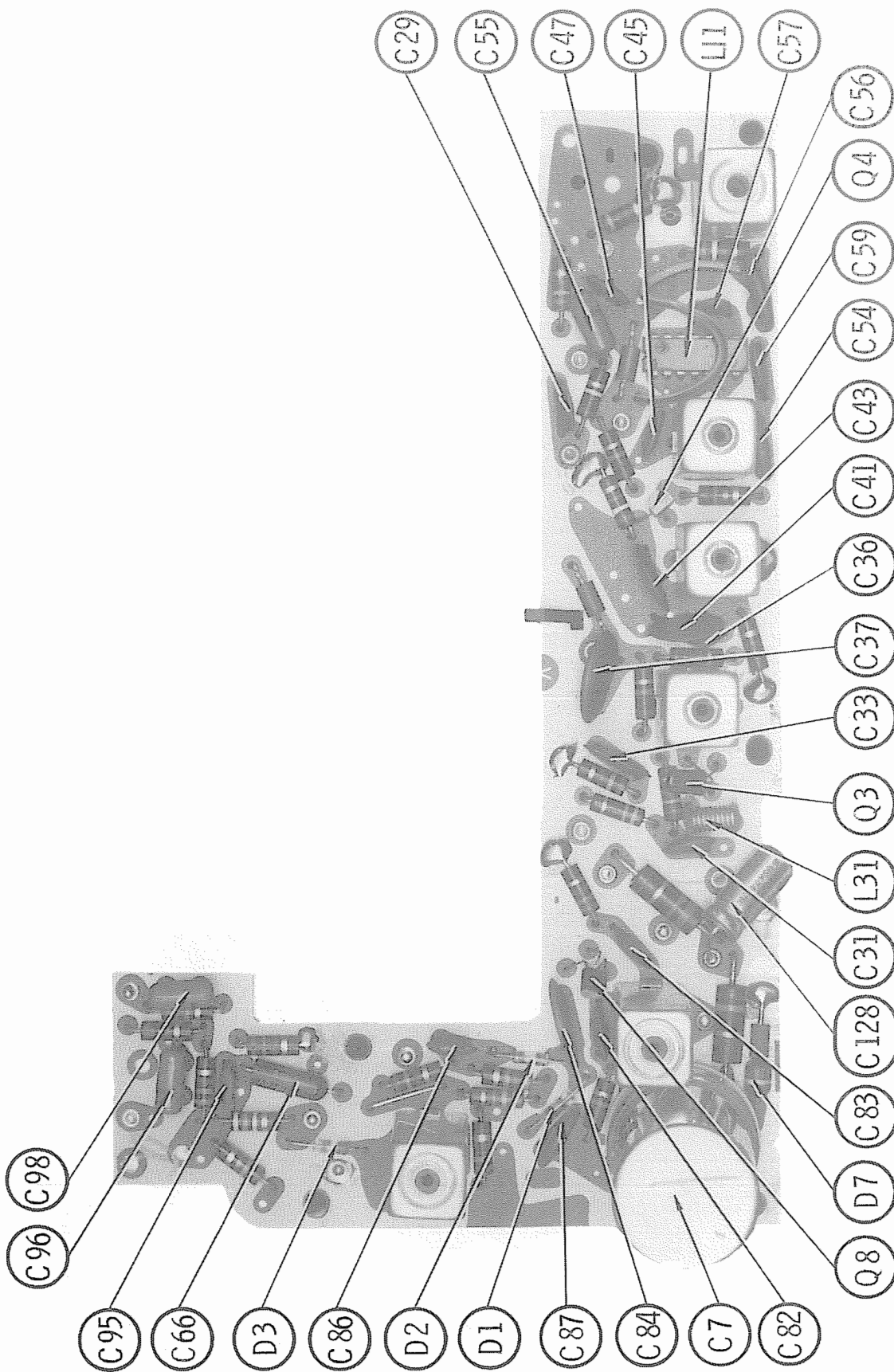




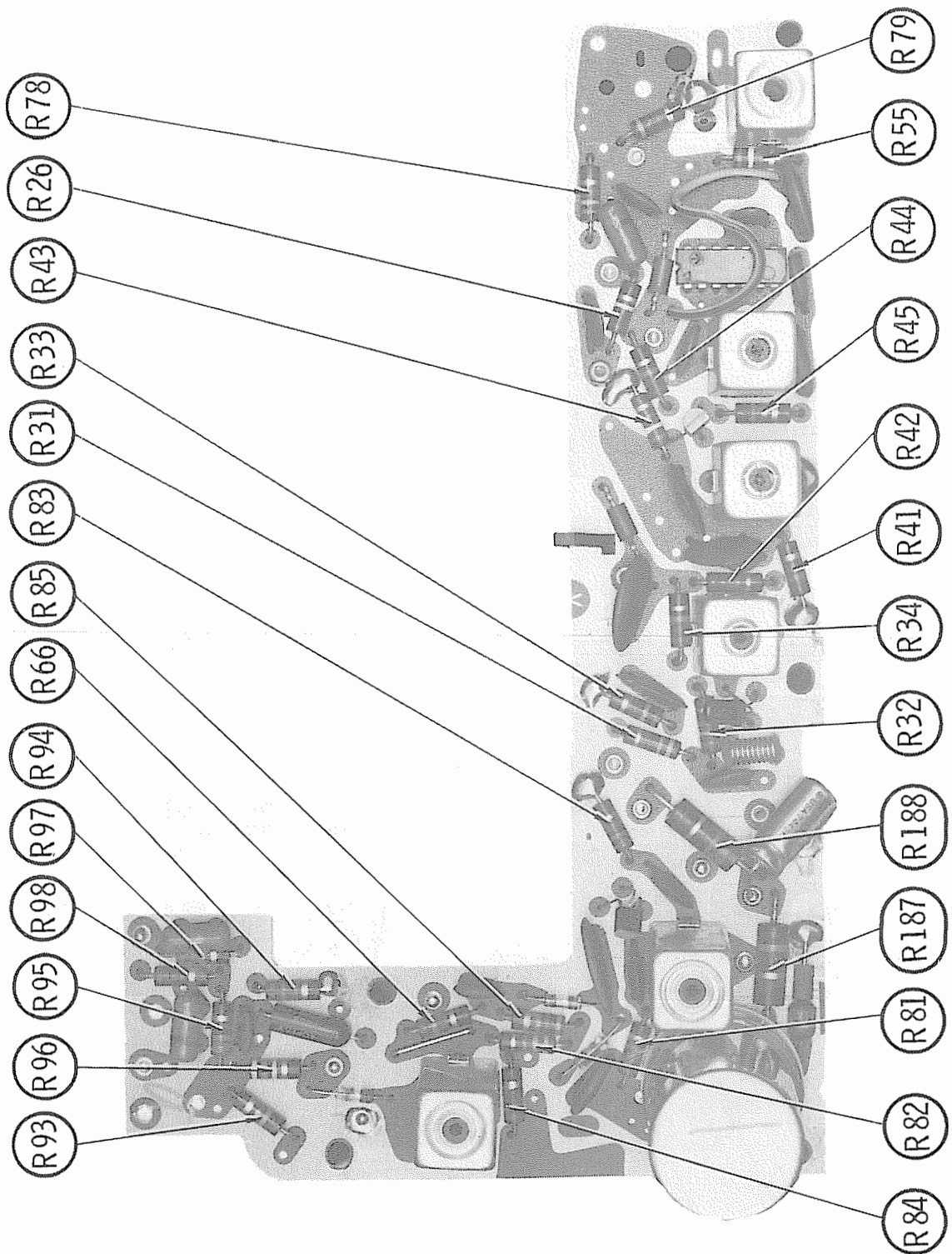
RF BOARD

GM 1975 SERIES

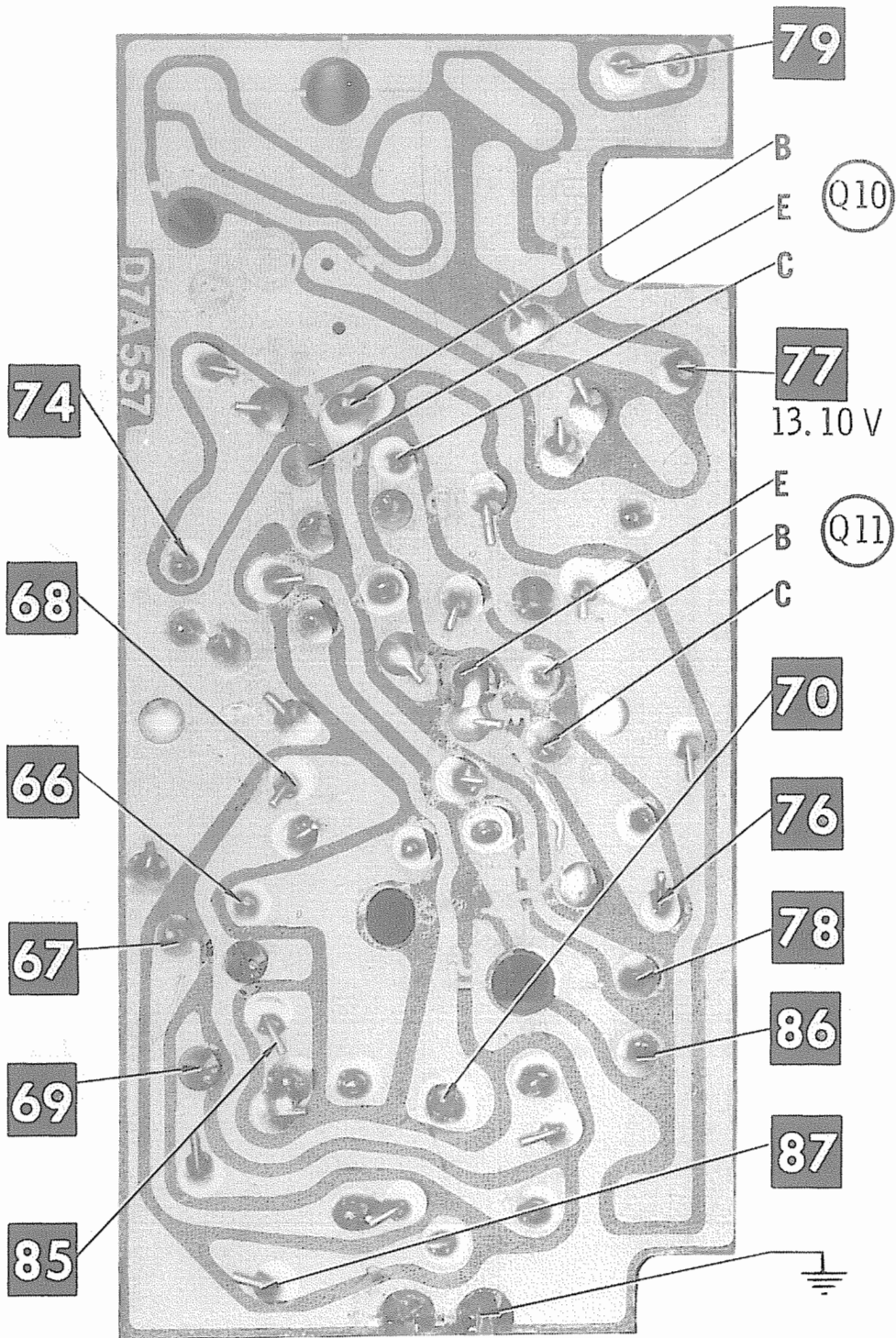




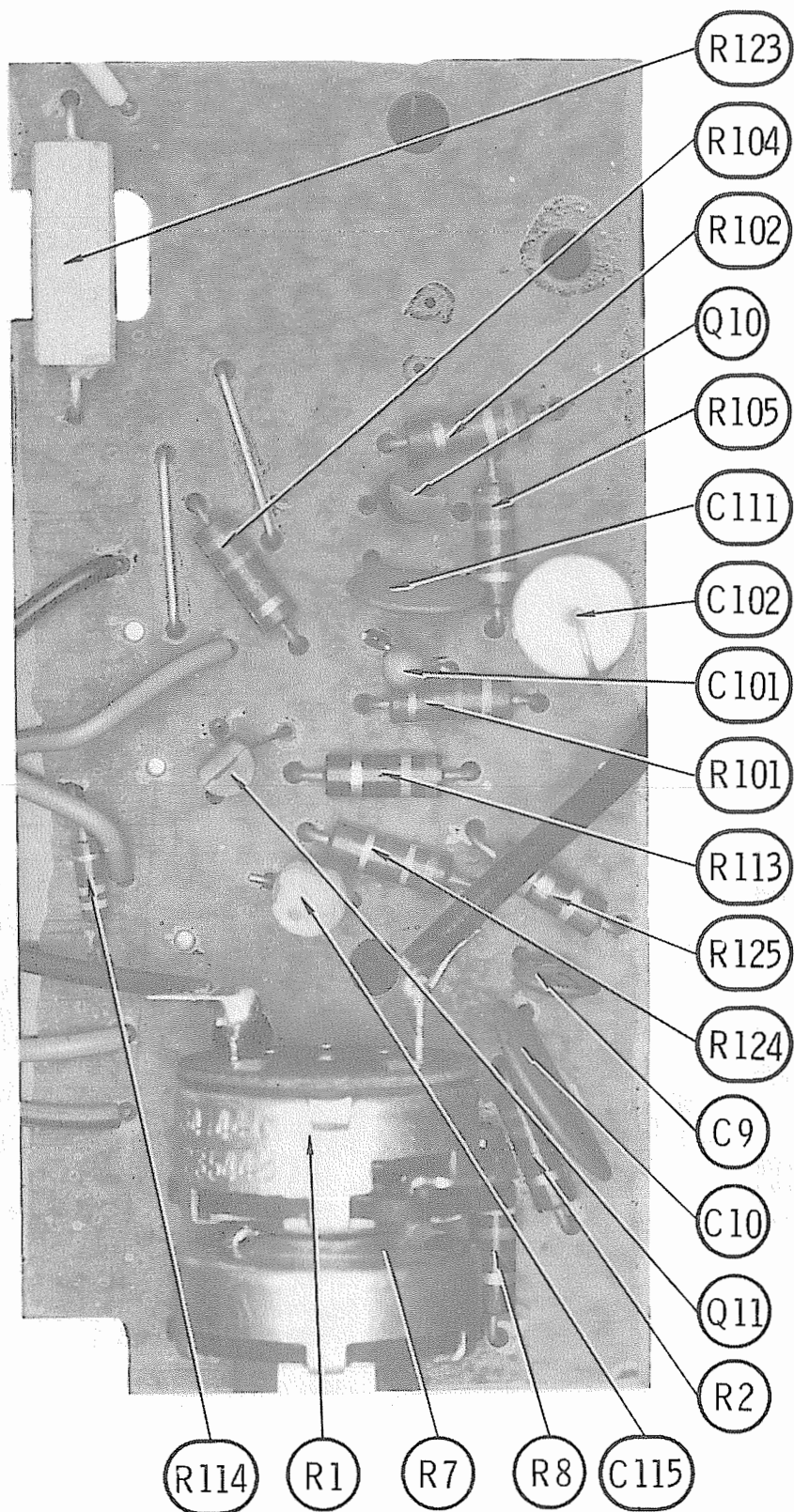
IF BOARD



IF BOARD



AUDIO BOARD



AUDIO BOARD

PARTS LIST AND DESCRIPTION

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	DS-27	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D2	DS-27	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D3	DS-27	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D4	DS-55	GE-90 (8)	D201 (8)		HEPR2503(8)	SK3126 (8)		
D7	DS-149 8V Zener	GE-X11	Z-1208	Z88.2	HEP20411	SK3059	RT239	ECG 5072
Q1	DS-88	GE-FET-2	FE-100	PTC152	HEPF0021	SK3116	RT175	ECG 132
Q2	DS-74	GE-11	TR-21	PTC115	HEP56	SK3018	RT108	ECG 107
Q3	DS-74	GE-11	TR-21	PTC115	HEP56	SK3018	RT108	ECG 107
Q4	DS-74	GE-11	TR-21	PTC115	HEP56	SK3018	RT108	ECG 107
Q6	DS-71	GE-20	TR-21	PTC115	HEP53	SK3018	RT108	ECG 107
Q7	DS-72	GE-20	TR-21	PTC115	HEP53	SK3018	RT108	ECG 107
Q8	DS-72	GE-20	TR-21	PTC115	HEP53	SK3018	RT108	ECG 107
Q10	DS-66	GE-20	TR-21	PTC121	HEP50	SK3124	RT102	ECG 123A
Q11	DS-66	GE-20	TR-21	PTC121	HEP50	SK3124	RT102	ECG 123A
Q12	DS-501	GE-4	TR-03	PTC106	HEP233	SK3012		ECG 105
U1	DM-31	GEIC-11	IC-505	PTC703	HEPC6062P	SK3135	TVCM-5	ECG 709

(8) Varactor

GM 1975 SERIES

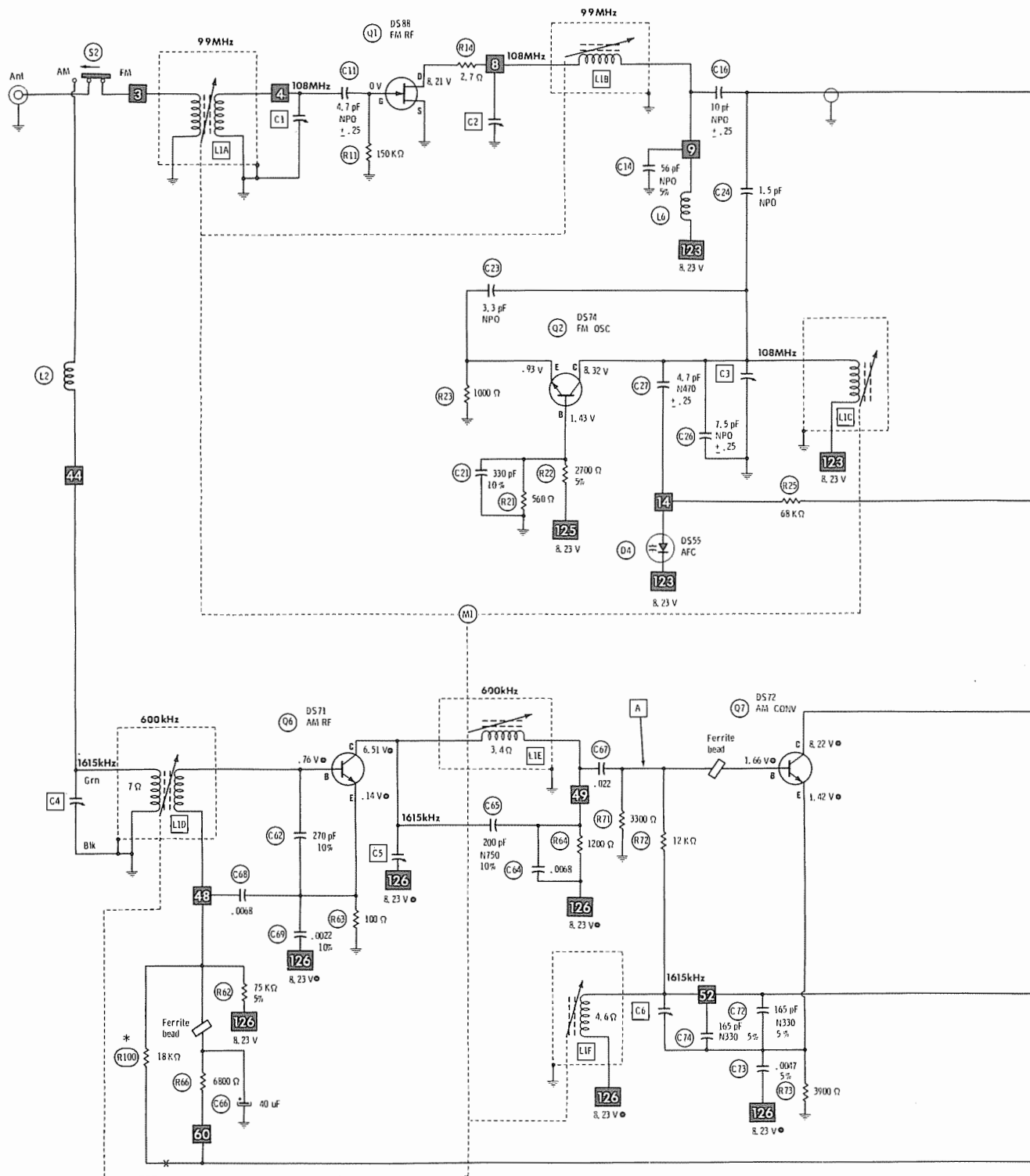
ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C7A	1500 16V	7283675		CTM-3022.9	CC0007A		PCL-3021.8
B	500 16V						
C	4 11.5VRMS						
C63	10 12V	7292738	ME-1-D-010	EA15-10	WBR10-25	TDC106M035FL	SD20-109
C66	40 6V	7298555	ME-2-B-040	EA6-50	WBR50-25	TT6X40	TVA-1099.93
C101	3 10V	7296348	ME-1-D-003	EA15-5	WBR5-50	TDC335M015EL	SD15-3R39
C102	250 3V	7312284	ME-4-A-250	EA6-250	WBR250-16	MTA250F15	TVA-1091.5
C115	3 10V	7296348	ME-1-D-003	EA15-5	WBR5-50	TDC335M015EL	SD15-3R39
C128	40 16V	7313475	ME-3-E-040	EA15-50	WBR50-25	TT15X40B	TVA-1149.1

CAPACITORS

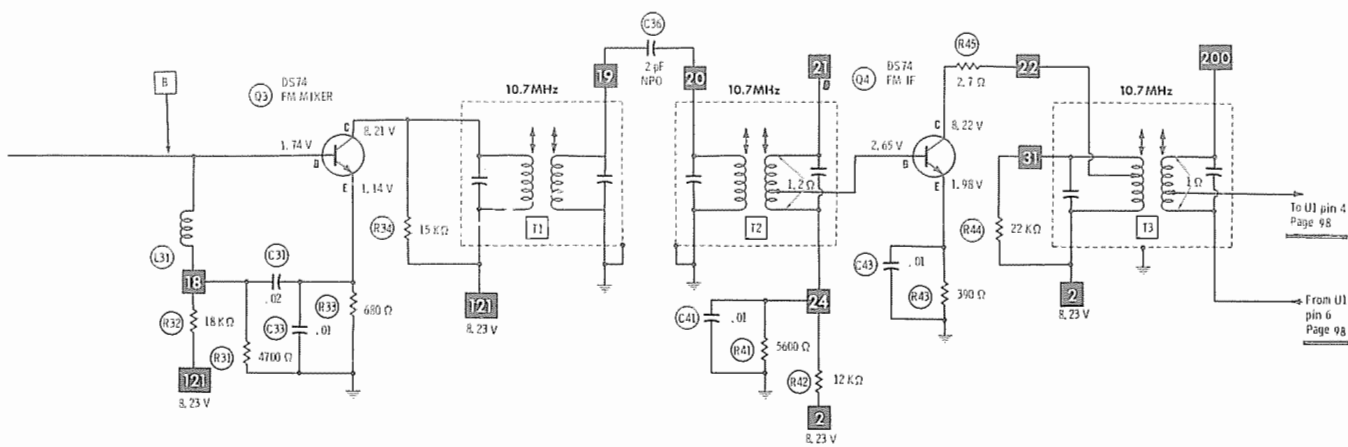
ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENC0 PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1		7293321					
C2		7293321					
C3		7292611					
C4		7935074					
C5		7312933					
C6		7295192					
C9	.015		CCD-153	DD-153		GP115	10SS-S15
C10	.15 16V			UK16-154		MAG16015	HY-665
C11	4.7 \pm 25% NPD		CCTO-4R7	OTZ-4R7	NP04P7	CN0537	10TCC-V47
C14	56 5% NPD					CN0456	10TCC-Q56
C15	270 10%		CCD-271	DD-271	GP270	GP327	10TS-T27
C16	10 \pm .5% NPD						
C21	330 10%		CCD-331	DD-331	GP330	GP333	10TS-T33
C23	3.3 \pm 25% NPD	7288052	CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C24	1.5 \pm 25% NPD	7296349		OTZ-1R5	NP01P5	CN0515	10TCC-V15
C25	180 5% 100V		DM10-181J	CPR-180J	C07FD181J03	SX318	424ME1800J501
C26	7.5 \pm 25% NPD	7300236					
C27	4.7 \pm 25% N470	7297804					
C28	270 10%		CCD-271	DD-271	GP270	GP327	10TS-T27
C29	.05 16V		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C31	.02 16V		CCD-203	DC-203		MAG5012	2SS-S20

(CONTINUED ON PAGE 100)

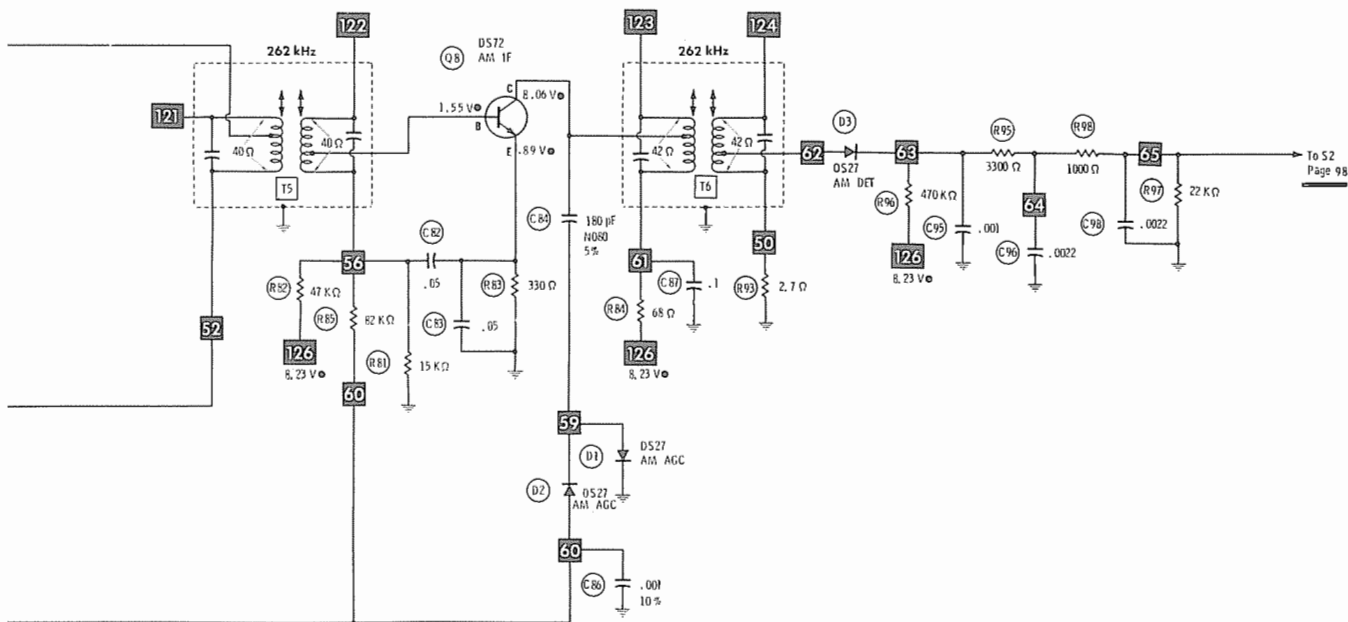
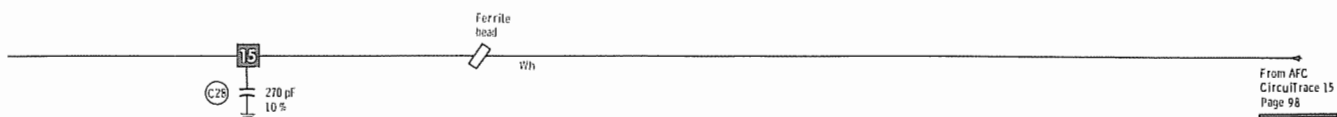
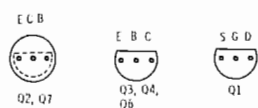


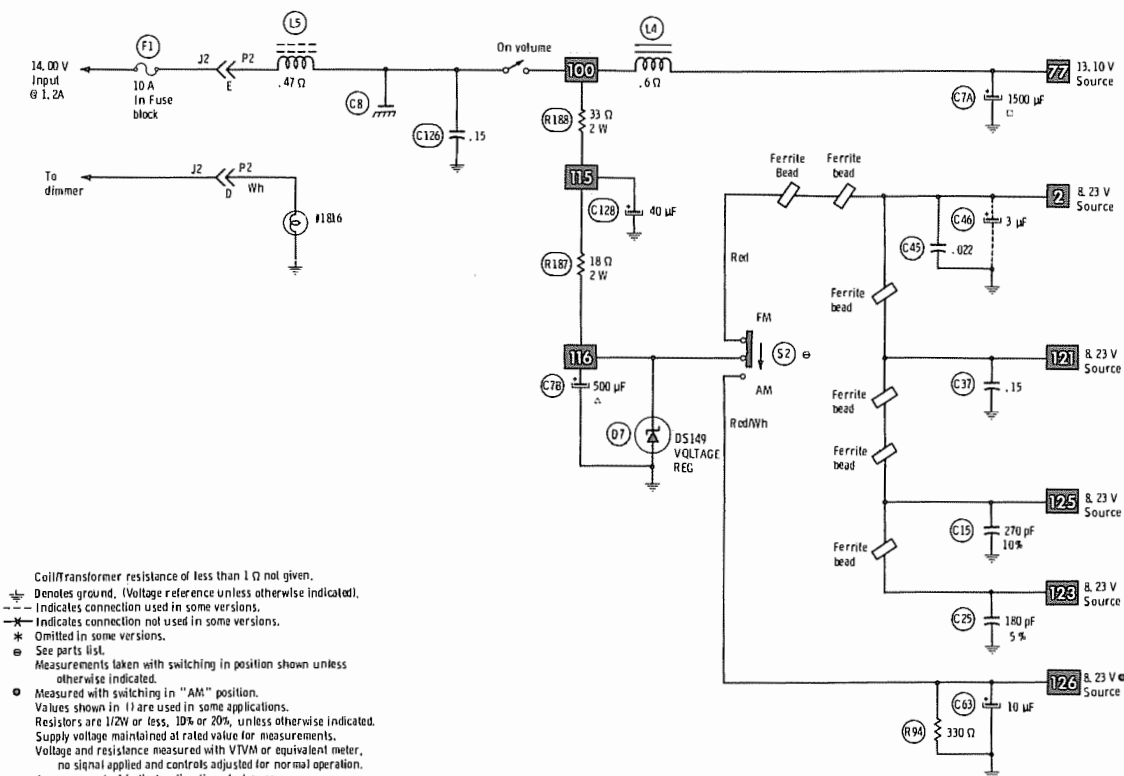
A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CIRCUITRAGE**
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SEE NOTES ON PAGE 98



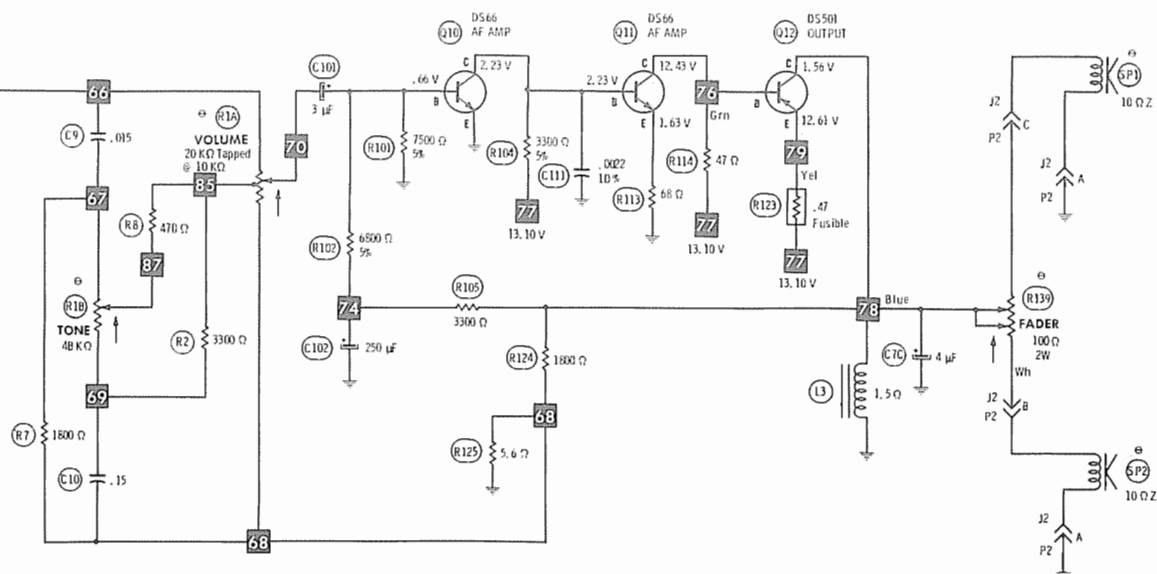
Terminal Guides





A PHOTOFAC[®] STANDARD NOTATION SCHEMATIC
with **CIRCUITRACE**

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PARTS LIST AND DESCRIPTION (CONTINUED)

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C33	.01 100V		CCD-103	DD-1032	GP10000	GP110	10TS-S10
C36	2 NPO		CCO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C37	.15 16V			UK16-154		MAG16015	HY-665
C41	.01 16V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C43	.01 16V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C45	.022 16V		CCD-203	DC-203		MAG5012	2SS-S20
C47	.022 16V		CCD-203	DC-203		MAG5012	2SS-S20
C54	.1 16V			DC-104	MGP1	MAG5001	TG-P10
C55	.012		1MDF-1-123	CPJ-123	DPMS6S12	EWFA1A112	1PB-S12
C56	.1 16V			DC-104	MGP1	MAG5001	TG-P10
C57	4.7 NPO		CCTO-4R7	DTZ-4R7	NP04P7	CN0537	10TCC-V47
C59	.05 16V		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C62	270 10%		CCD-271	DD-271	GP270	GP327	10TS-T27
C64	.0068		1MDF-1-682	CPJ-682	DPMS6D68	EWFA2A68	1PB-D68
C65	200 10% N750						10TCU-T20
C67	.022 16V		CCD-203	DC-203		MAG5012	2SS-S20
C68	.0068		CCD-682	DD-682	GP6800	GP268	10TS-D68
C69	.0022 10%		CCD-222			GP222	10TS-D22
C72	165 5% N330	7297355					
C73	.0047 5% 75V		DM19-472J	CPR-4700J	CD19FD472J03	SX247	424ME4701J501
C74	165 5% N330	7297355					
C82	.05 16V		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C83	.05 16V		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C84	180 5% N080						10TCN-T18
C86	.001 10%		CCD-102	DD-102		GP210	10TS-D10
C87	.1 16V			DC-104	MGP1	MAG5001	TG-P10
C95	.001 10%		CCD-102	DD-102		GP210	10TS-D10
C96	.0022		1MDF-1-222	DD-222		EWFA2A22	1PB-D22
C98	.0022		1MDF-1-222	DD-222		EWFA2A22	1PB-D22
C111	.0022 10%		CCD-222			GP222	10TS-D22
C126	.15		1MDF-3-154		DPMS2P15	EWFA0A15	1PB-P15

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R1a	Tone	40K	9341446 (23)	F1-50K,		P54L,4200,SH4375,	QJ-2864A,
b	Volume/Switch	20K		R14-25K,S8006,		RU24T14,OX2250A,	BU9 (20),CF12,
		Tap @		BB200,FFS204,		IS2750,US41	CR68TT (21),
		10K		RFS212,KR4			SF25,SR20,N4,GC
a	Tone	40K	9343712 (24)	F2-100K,		P15A,4100,SH4375,	QJ-2862A,
b	Volume/Switch	20K		R14-25K,S8006,		RU24T14,OX1250A,	BUB (20),CF52,
		Tap @		BB100,FFS104,		IS1750,US41	CR68TT (21),
		10K		RFS112,KR4			SF9,SR9,N4,GC
a	Tone	40K	9341448 (25)	F1-50K,		P54L,4100 (11),	QJ-2863A,
b	Volume/Switch	20K		R14-25K,S8004,		SH4250,RU24T14,	BUB (20),CF12,
		Tap @		BB012,FFS015,		OX937A,IS1500,	CR68TT (21),
		10K		RFS108,KR4		US41	SF5,SR6,N4,GC
a	Tone	40K	7313807 (26)	F1-100K,		P15L,4178,SH4375,	QJ-2706A,
b	Volume/Switch	20K		R16-25K,S8006,		RU24T14,	BUB (20),CF13,
		Tap @		BB114,FFS201,		OX2062 (22),	CR68TT (21),
		10K		RFS210,KR4		IS2687,US41	SF16,SR18,N4,GC
R139	Fader	100	9341556 (27)				
	Fader	2 Watt	7313842 (28)				
	Fader	100	7939211 (29)				
	Fader	2 Watt	7932132 (30)				
	Fader	100	7313842 (5)				

(5) Number on unit.

(11) Alter bushing to meet requirements.

(20) Alter bushing and adjust spacer nut (N4) to meet requirements.

(21) Disregard 5000 ohm tap.

(22) Enlarge slot of outer shaft to duplicate original before assembly.

(23) Used in Models: 51XFP1 (7933251), 51XFPK1 (7933511), - 1975 Chevrolet Camaro & Nova, Oldsmobile Omega, Pontiac Ventura II and Buick Apollo.

(24) Used in Models 51TFP1 (9343D51) - 1975 "G" Van and 55TFP1 (7931466) 1975 GMC truck.

(25) Used in Model 51YFP1 (9344651) - 1975 Chevrolet Corvette.

(26) Used in Models 52FFP1 (7313532) and 55FFPK1 (7313562) - 1975 Pontiac Firebird

(27) Used in Model 51XFPK1 (7933511) - 1975 Chevrolet Camaro & Nova, Oldsmobile Omega, Pontiac Ventura II and Buick Apollo.

(28) Used in Model 52FFPK1 (7313562) - 1975 Pontiac Firebird.

(29) Dealer Installed control used in Model 51XFP1 - 1975 Chevrolet Camaro & Nova, Oldsmobile Omega, Pontiac Ventura II and Buick Apollo.

(30) Dealer Installed control used in Model 52FFP1 (7313532) - 1975 Pontiac Firebird.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R123	.47 Fusible	WT47	7292736 7281890 (1)				

(1) Alternate.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1A	FM Antenna	(1)			(1) Part of M1.
B	FM RF	(1)			
C	FM Oscillator	(1)			
D	AM Antenna	(1)			
E	AM RF	(1)			
F	AM Oscillator	(1)			
L2	AM Antenna Choke (8uH)	7255738		4611	
L6	RF Choke	7302543			
L31	10.7MHz Trap (.18uH)	7291800			
T1	FM Input IF	9340088			
T2	FM Interstage IF	9340089			
T3	FM Interstage IF	9340090			
T4	Quadrature	7311554			
T5	AM Input IF	7295169			
T6	AM Output IF	7295170		8006	

GM 1975 SERIES

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L4	1 Amp	.6	8mH	1221623	TC-2	TR-154	TY17XT	
L5	1.2 Amp	.47	300mH					

CHOKE (Audio Output)

ITEM No.	INDUCTANCE	REPLACEMENT DATA				NOTES
		MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L3	30mH	1222297				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	4" X 10" PM 10 ohm	7933971	46A1Z10	Front: Camaro
	4" X 10" PM 10 ohm	7933961		Front: Nova, Ventura II, Omega, Apollo
	4" X 6" PM 10 ohm	7312421		Left Front: Corvette
	4" X 10" PM 10 ohm	9343191		"G" Van
	4" X 10" PM 10 ohm	7932722		Front: Firebird
SP2	4" X 10" PM 10 ohm	7310296	410A2Z10	GMC Truck
	4" X 6" PM 10 ohm	7312421	46A1Z10	Right Front: Corvette
	6" X 9" PM 10 ohm	7937455	69A2Z10	Rear: Camaro, Nova, Omega, Ventura II, Apollo
				Firebird
	4" X 10" PM 10 ohm	7933542	410A2Z10	Rear: All Hatchbacks

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	3AG 10 Amp		In Fuse Block	3AG10		311010		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Tuner Assembly	1223354	Includes Circuit Board, Coils and Trimmers.
S2	Switch	72B5141	AM-FM, Models 51XFP1, 51XFPK1 & 51YFP1.
	Switch	7309152	AM-FM, Models 52FFP1 & 52FFPK1.
	Switch	7284009	AM-FM, Models 51TFP1 & 55TFP1.

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

ITEM	PART No.	ITEM	PART No.
Escutcheon Assembly, Models 51TFP1,55TFP1	7931442	Dial Pointer Assembly, Models 51TFP1,55TFP1	1222026
Escutcheon Assembly, Models 51XFP1,51XFPK1	7933338	Push Button (1 Pkg) Models 51XFPL,51XFPK1	7306391
Escutcheon Assembly, Model 51YFP1	7938188	Push Button (1 Pkg) Model 51YFP1	7303280
Escutcheon Assembly, Models 52FFP1,52FFPK1	7313954	Push Button (1 Pkg) Models 51TFP1,55TFP1	7300984
Dial Glass, Models 51TFP1,55TFP1	7290746	Push Button (1 Pkg) Models 52FFP1,52FFPK1	7307886
Dial Glass, Models 51XFP1,51XFPK1	7933334	Push Button AM (1 Pkg) Models 52FFP1,52FFPK1	7307887
Dial Glass, Model 51YFP1	7938189	Push Button FM (1 Pkg) Models 52FFP1,52FFPK1	7307888
Dial Glass, Models 52FFP1,52FFPK1	7307457	Knob Pkg, GMC Truck	9343286
Dial Pointer Assembly, Models 51XFP1,51XFPK1	7308125	Knob Pkg, G Van	9347827
Dial Pointer Assembly, Model 51YFP1	7303825	Knob Pkg, Camaro	1223606
Dial Pointer Assembly, Models 52FFP1,52FFPK1	7307461	Knob Pkg, Firebird	1223360

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
	8524 (Stranded) Available in 12 Colors
Shielded Hook-up Wire	Use BELDEN No. 8885
Rear Seat Speaker Extension Cable	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets