

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL CB-800

SHARP MODEL CB-800

MANUFACTURER'S SPECIFICATIONS

Transmitter section

Collector power input 5W (maximum)
Frequency range 27MHz Citizens Band
Channels 23 chs. Crystal controlled
Synthesizer
Type of crystal HC-18U $\pm 0.005\%$ tolerance
(at $-22^{\circ}\text{F} \sim +140^{\circ}\text{F}$)
Transmitter modulation ... 100% (maximum)
Modulation limiter Yields high average modulation at
average voice levels
Antenna matching Nominal 50 ohms
Carrier deviation Not greater than $\pm 800\text{Hz}$
nominal on (exceeds F.C.C.,
D.O.C., etc. requirements)
Harmonic suppression Exceeds 50dB

Receiver section

Audio power output 3 Watts maximum power output
Sensitivity $0.7\mu\text{V/m}$ for 10dB S + N/N ratio
at 30% at 1000Hz modulation
Channels 23 chs. Crystal controlled
Synthesizer
Type of crystal HC-18U $\pm 0.005\%$ tolerance
(at $-22^{\circ}\text{F} \sim +140^{\circ}\text{F}$)
Selectivity 6dB down at $\pm 3\text{kHz}$;
50dB down at $\pm 10\text{kHz}$.
Intermediate frequency 1st-IF: 11.275MHz,
2nd-IF: 455kHz

Circuit type Dual conversion superheterodyne:
crystal frequency synthesizer
provides 23 crystal controlled
transmit and receive channels.
Delta tuning of $\pm 1.0\text{kHz}$ on each
channels plus ceramic filter.
Auxiliary circuits Automatic noise limiter (ANL),
Variable squelch,
Public Address System (P.A.)

General

Power source DC 12.0V Nominal (DC 10.8 to 15.6V)
negative or positive ground
Antenna 50 ohm external antenna for car or base
operation
Speaker 3-1/8"
P.D.S. 8-ohm Imp.
Microphone Press talk dynamic microphone
(500 ohm)
Accessories Microphone hanger
Mobile mounting bracket
Mounting screws
Microphone with plug and cord.
Power supply cord with fuse holder and
socket.
Spare fuse (2.3A)
Dimensions 2-1/4"(H) $\times$ 5-3/4"(W) $\times$ 7-7/8"(D)
Weight 3.6 lbs. with microphone
Cabinet Metal body with plastic front

Courtesy of the Manufacturer

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

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ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period.
Adjustments made with 13.8-volt DC input.
Connect low sides of test equipment to ground unless specified otherwise.
Connect 50-ohm dummy load or antenna before keying transmitter.
Suggested Alignment Tools: GC Electronics:
L302, L303, T301, T303, T304, T3, T4, T5, T6.....5009
L201, L304, L305, T1, T2, T201, T202, T302.....9440

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of frequency counter to TP1.	Ch. 13 Ch. 17 Ch. 21 Ch. 1 Ch. 5 Ch. 9	L201	Disconnect C208. Adjust for 23.440MHz. Check for 23.490MHz. Check for 23.540MHz. Check for 23.290MHz. Check for 23.340MHz. Check for 23.390MHz. Reconnect C208.
Input of frequency counter to TP1.	Ch. 3 Ch. 4 Ch. 1 Ch. 2	T201	Disconnect C207. Adjust for 14.970MHz. Check for 14.990MHz. Check for 14.950MHz. Check for 14.960MHz. Reconnect C207.
Input of RF VTVM to TP2.	Ch. 13	T202	Adjust for maximum RF voltage.
Input of frequency counter to TP10 (Q6 Collector).	Ch. 13 Delta Tune 0	T6	Adjust for 11.730MHz.
Input of frequency counter to TP2.	To space between Ch. 1 and Ch. 23. XMT	T301	Adjust for 11.275MHz.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Set generator output low enough to prevent AGC limiting.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP11. 455kHz, 1000Hz @ 30% modulation.	Ch. 13, Delta Tune 0 Squelch Minimum ANL Off	T5	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 13, Delta Tune 0 Squelch Minimum ANL Off	T4, T3, T2, T1	Adjust for maximum output. It may be necessary to readjust T5.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 13, Delta Tune 0 Squelch Minimum ANL Off	R19	S METER Adjust R19 for 9 on S scale of meter.

TRANSMITTER ALIGNMENT

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.

See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Tunable field strength meter set at 54MHz. Tunable field strength meter set at 81MHz.	Ch. 13	T302, T303, T304, L302, L303	Adjust for maximum.
	Ch. 13	L303, L302	Adjust for 4 watts maximum.
	Ch. 13	L305	Adjust for MINIMUM signal.
	Ch. 13	L304	Adjust for MINIMUM signal.

SHARP MODEL CB-800

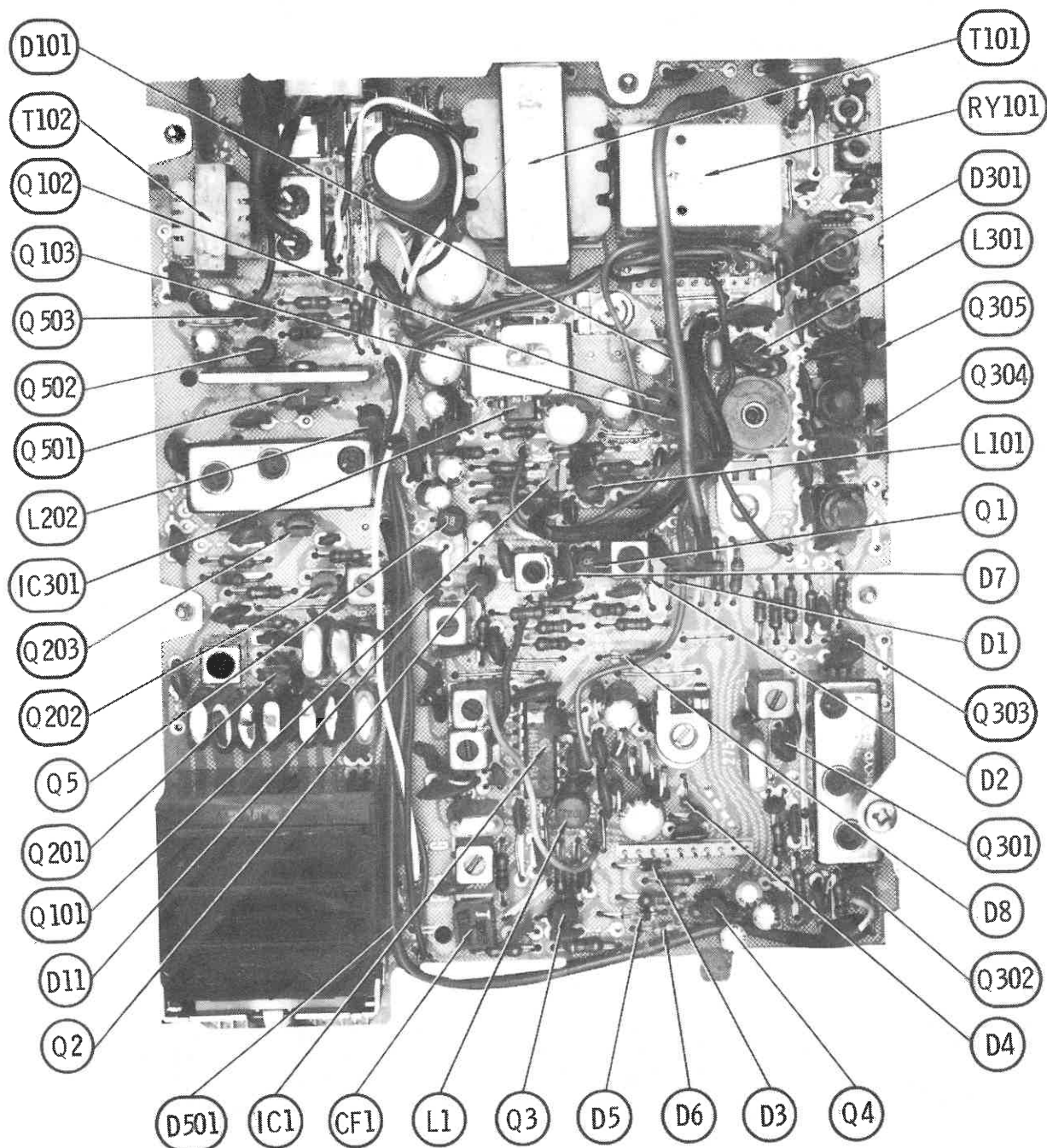
TRANSMITTER ADJUSTMENTS

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

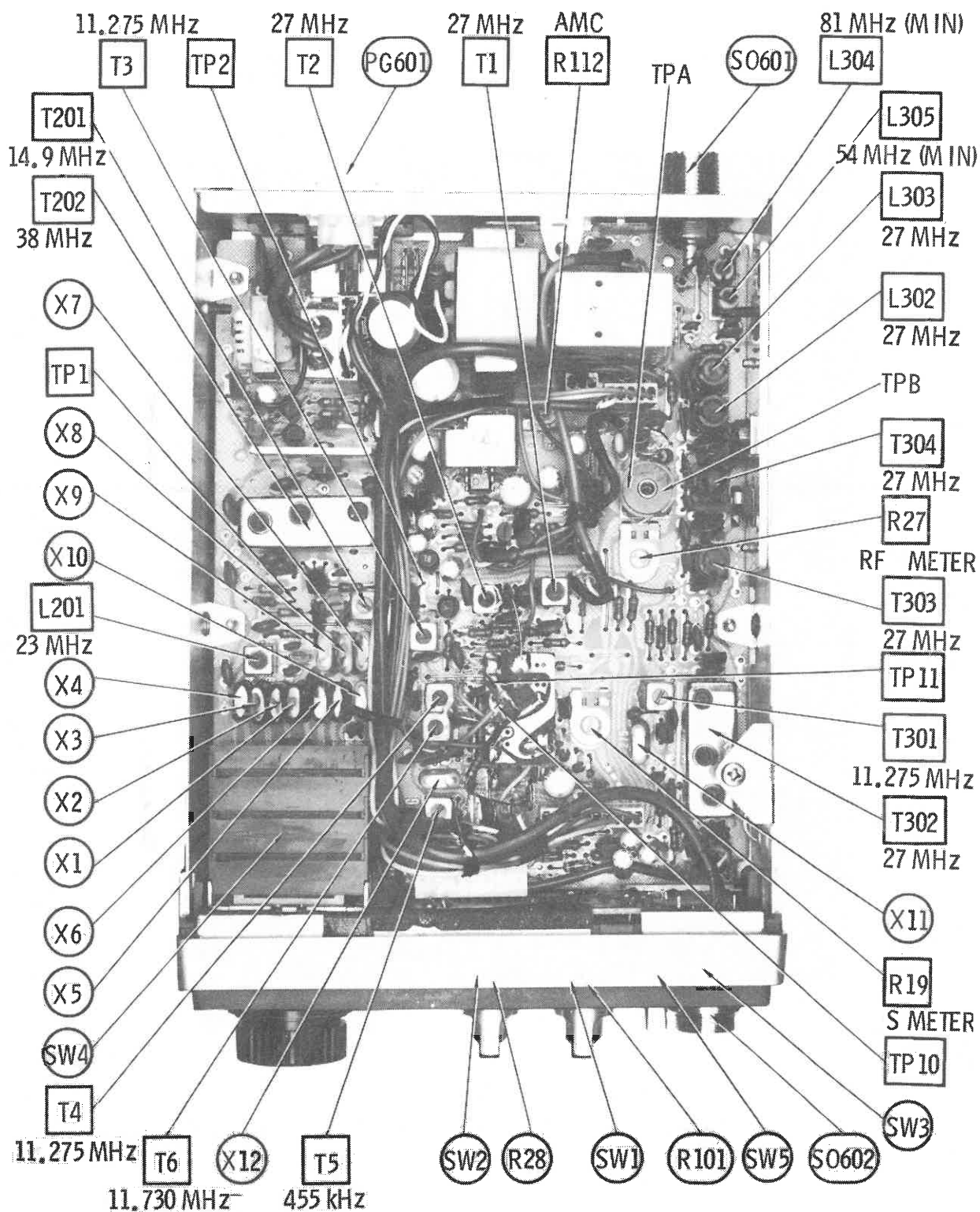
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

See page 4 for channel frequencies.

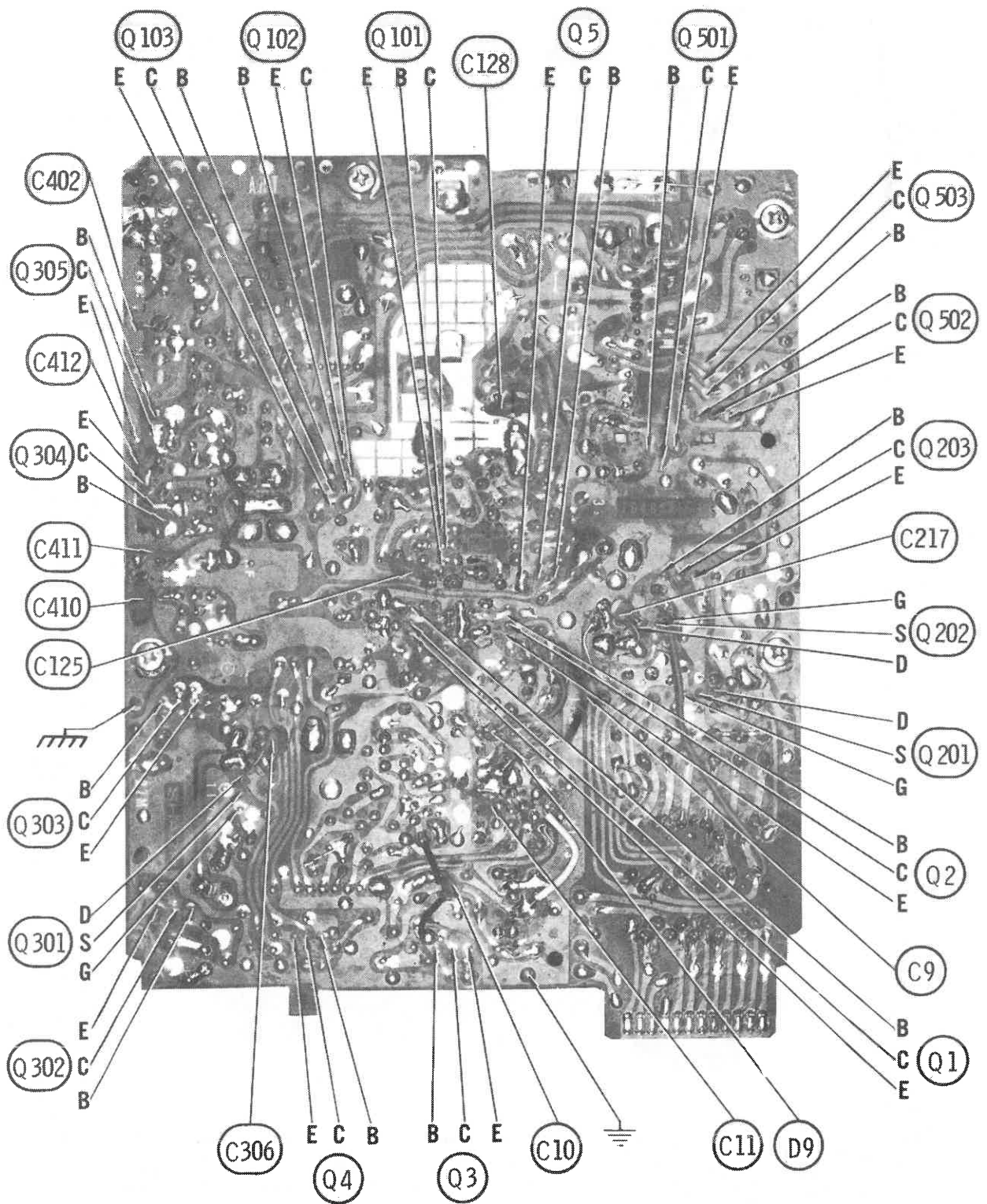
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 1000Hz, 6mV signal at MIC input.	Ch. 13	R112	AMC Adjust R112 for 100% modulation maximum.
Connect an RF wattmeter and 50-Ohm, 25-watt dummy load to antenna connector.	Ch. 13	R27	RF PANEL METER Adjust R27 so that RF panel meter agrees with RF wattmeter.



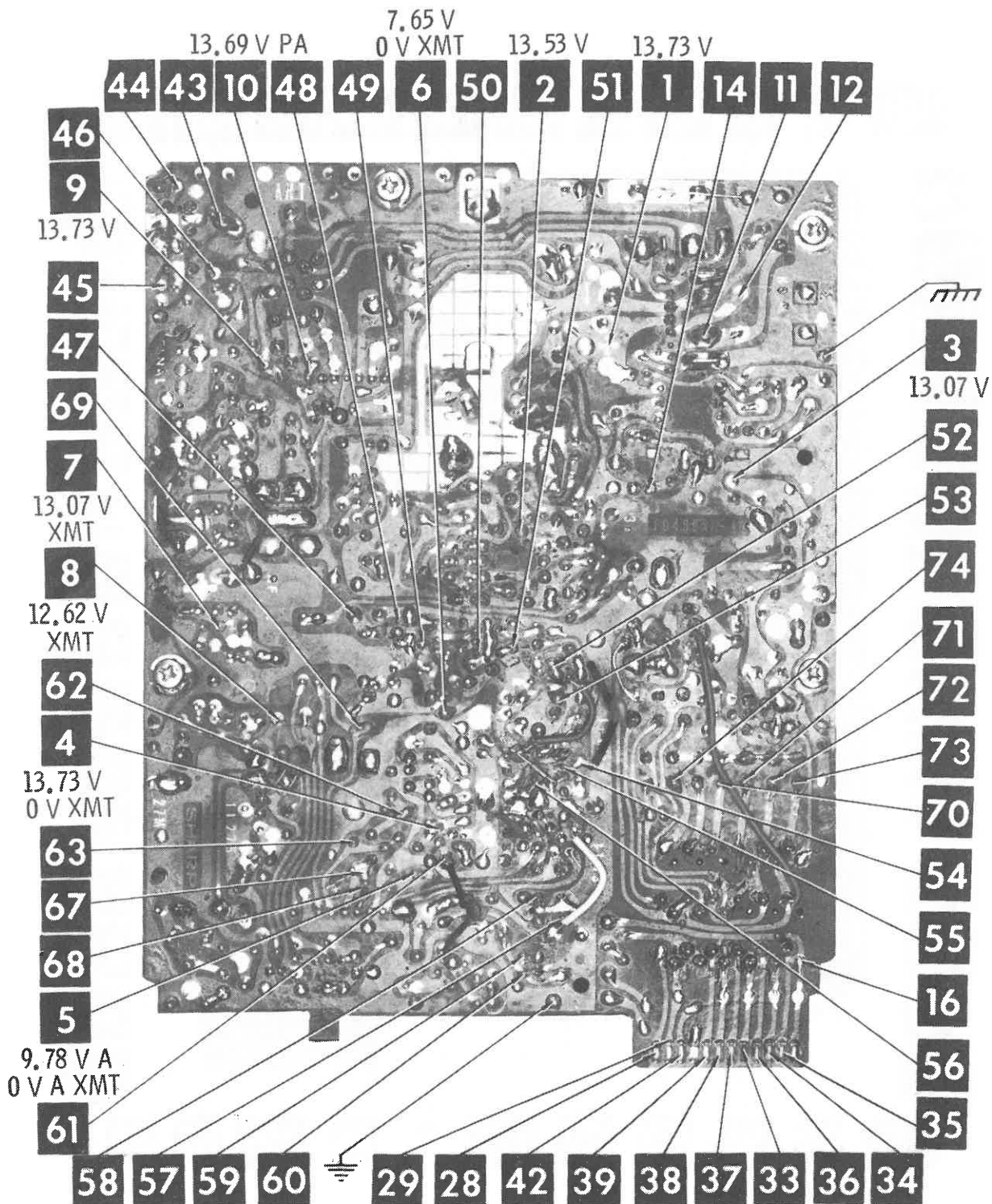
MAIN BOARD (F0485AF-4)



CHASSIS - BOTTOM

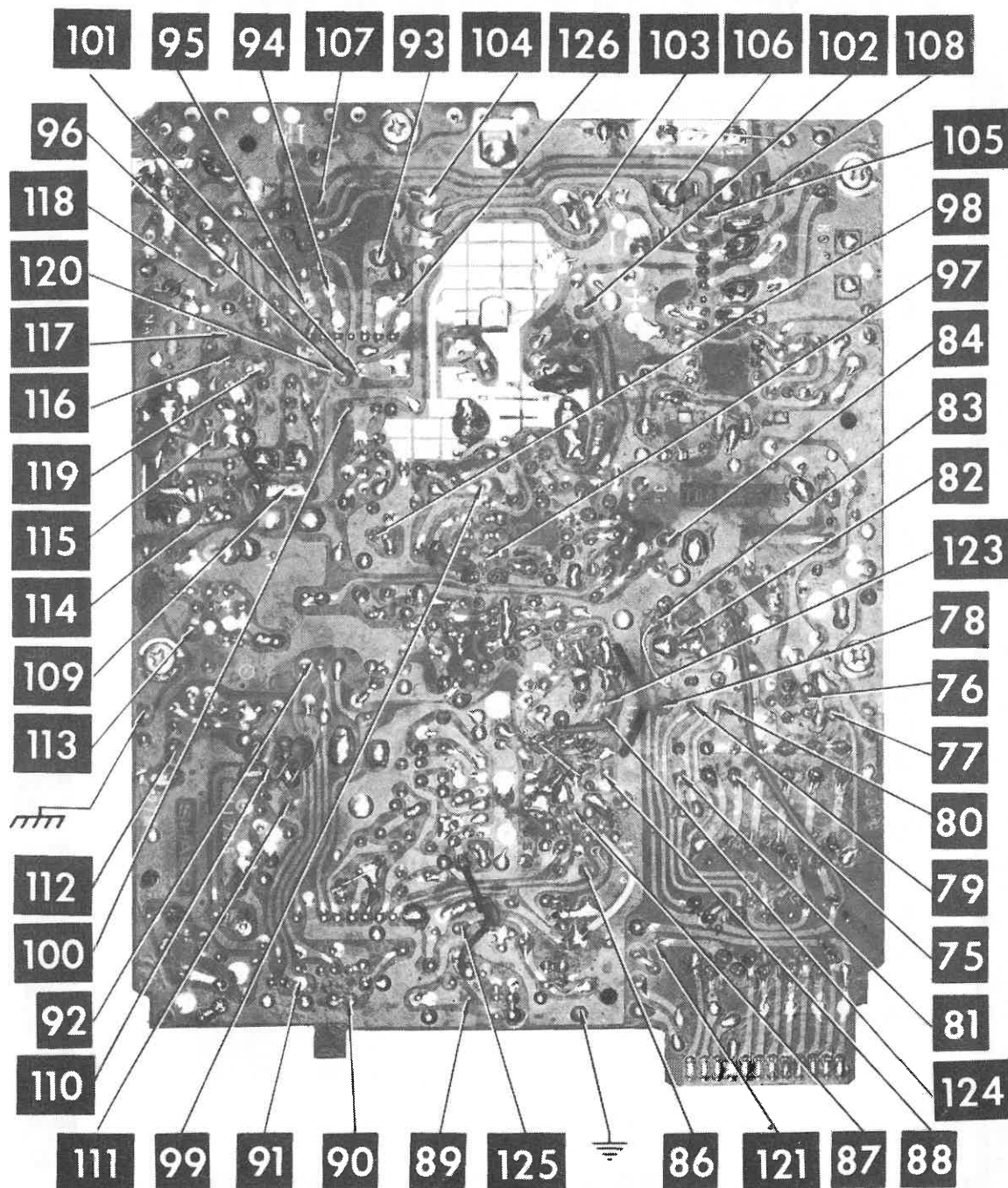


MAIN BOARD (F0485AF-4)

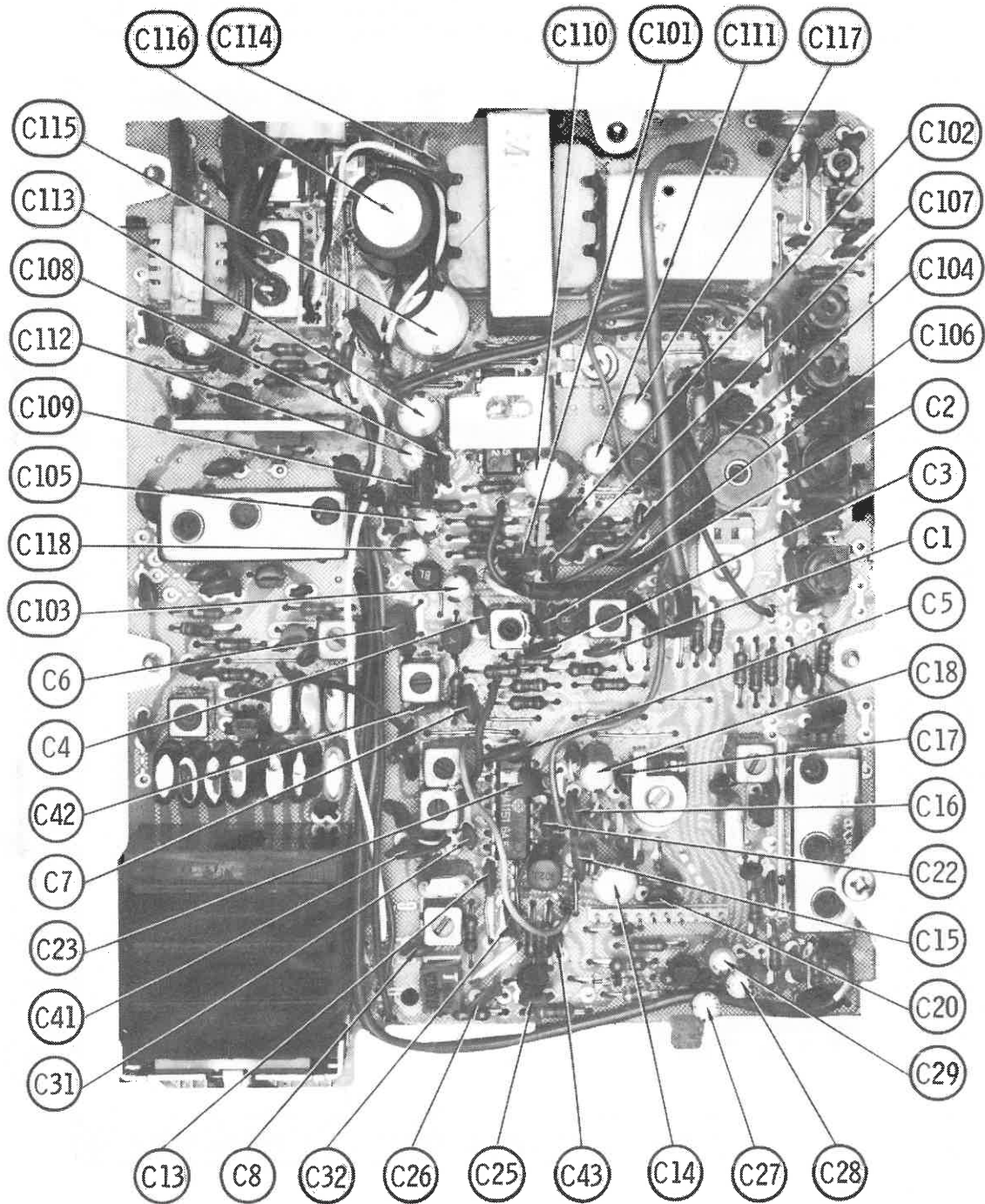


SHARP MODEL CB-800

MAIN BOARD (F0485AF-4)

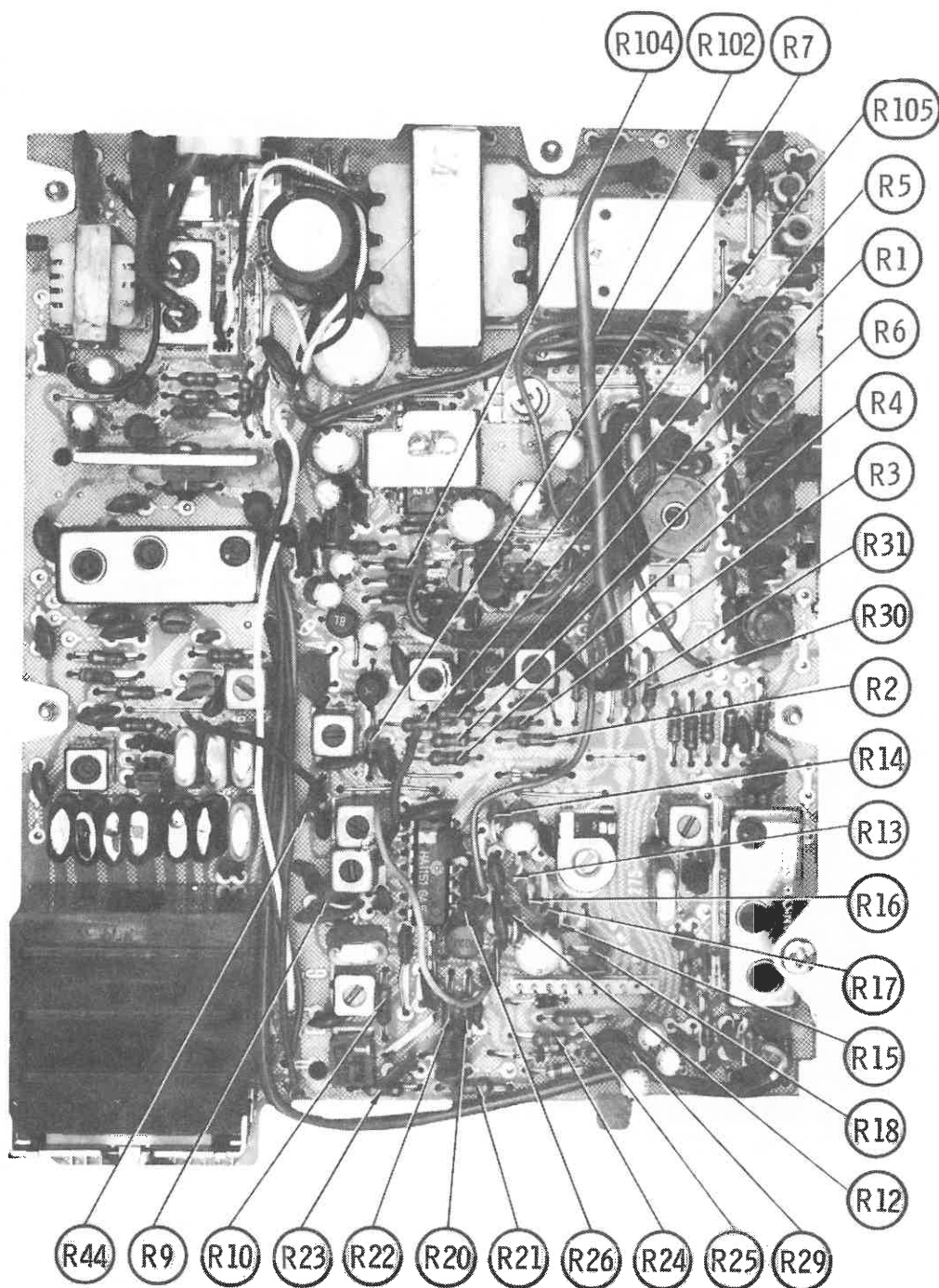


MAIN BOARD (F0485AF-4)

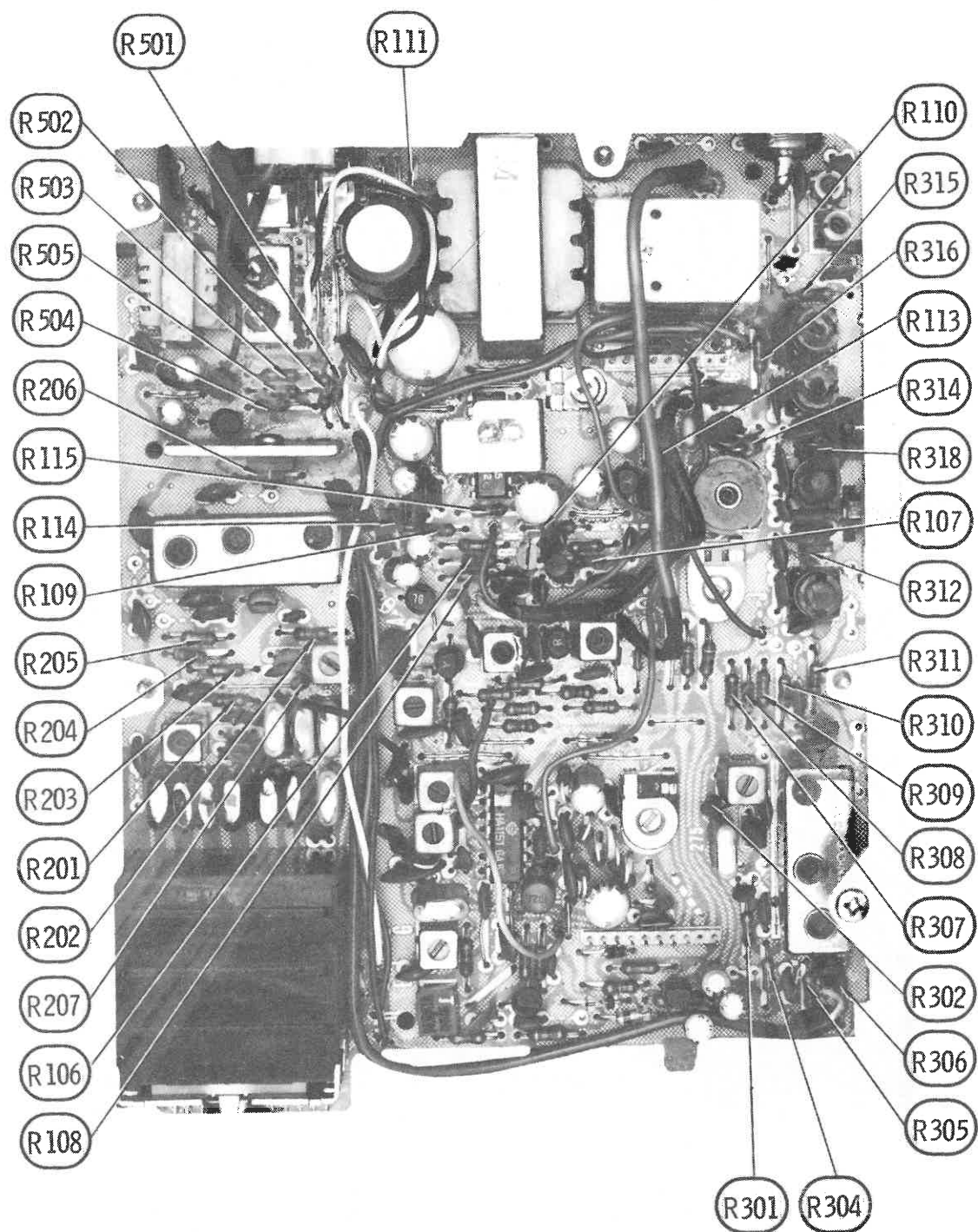


MAIN BOARD (F0485AF-4)

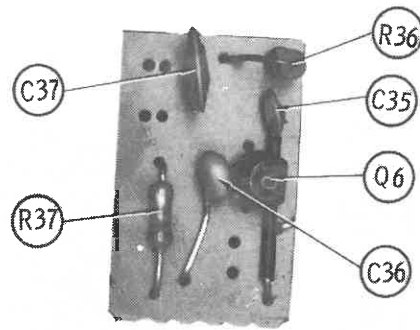
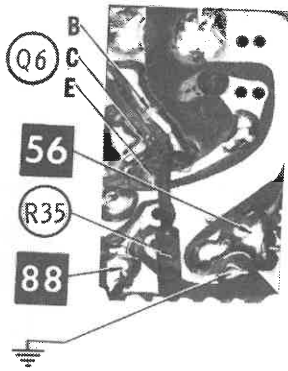




MAIN BOARD (F0485AF-4)

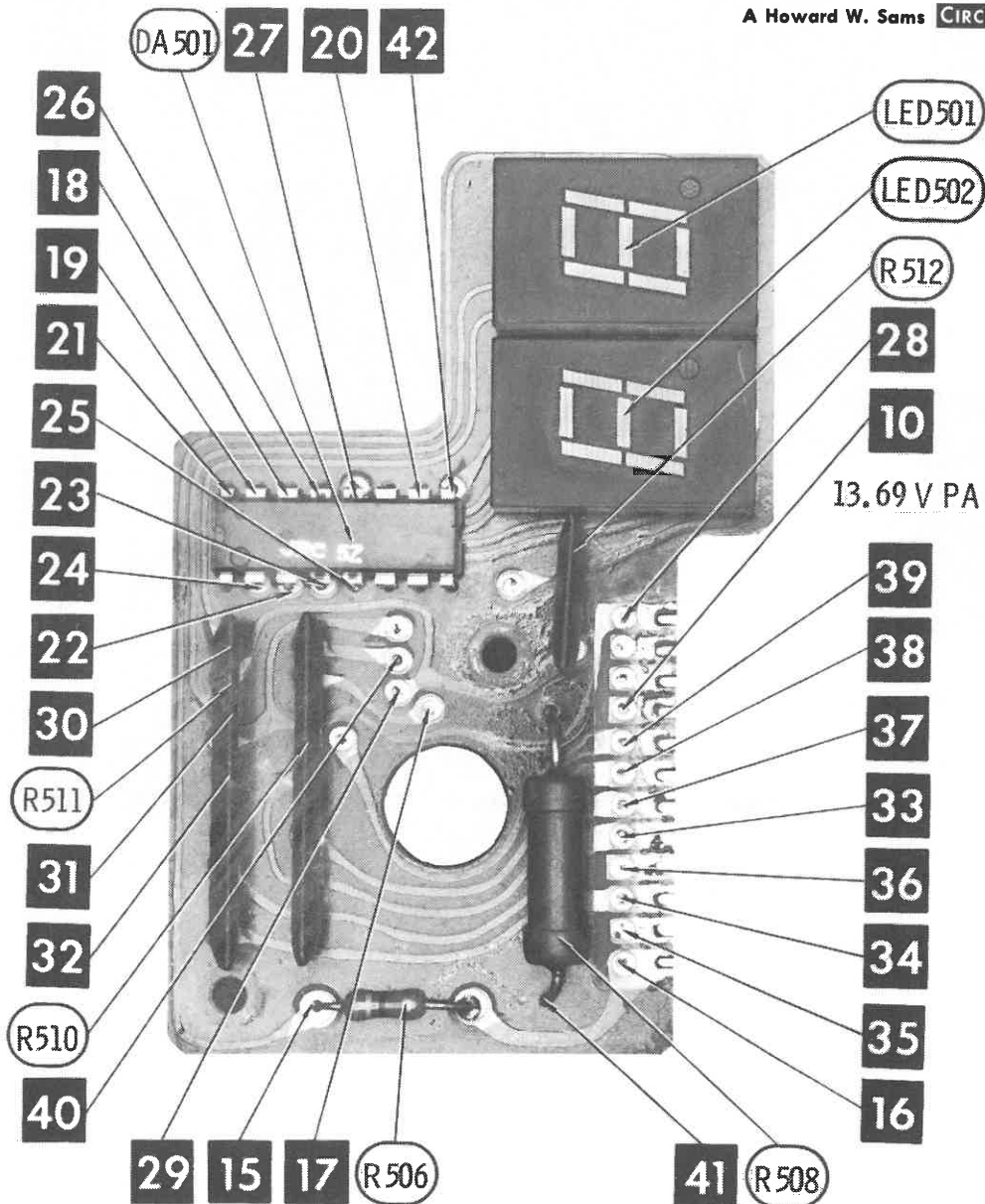


MAIN BOARD (F0485AF-4)



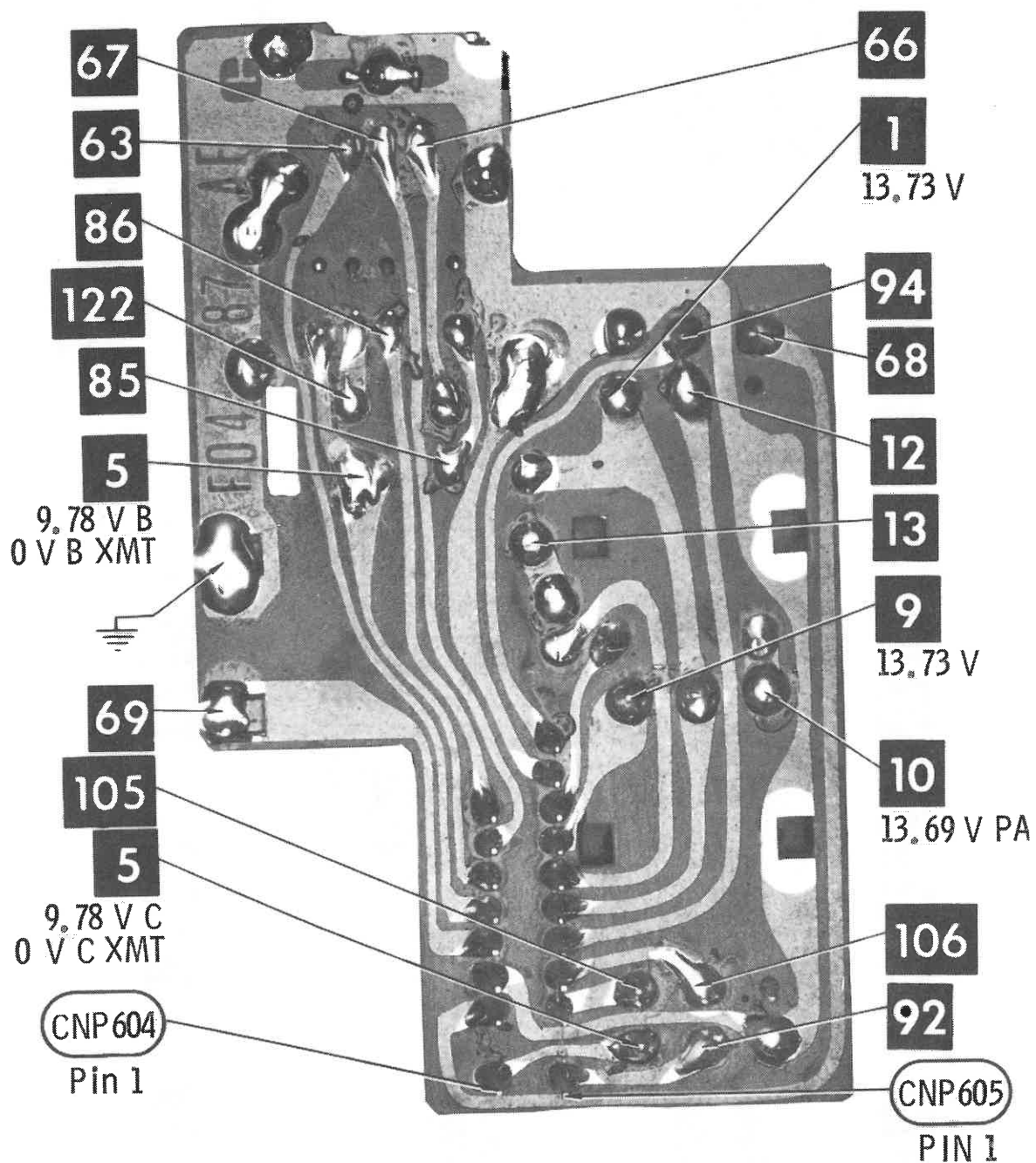
SUB BOARD

A Howard W. Sams CIRCUITRACE® Photo

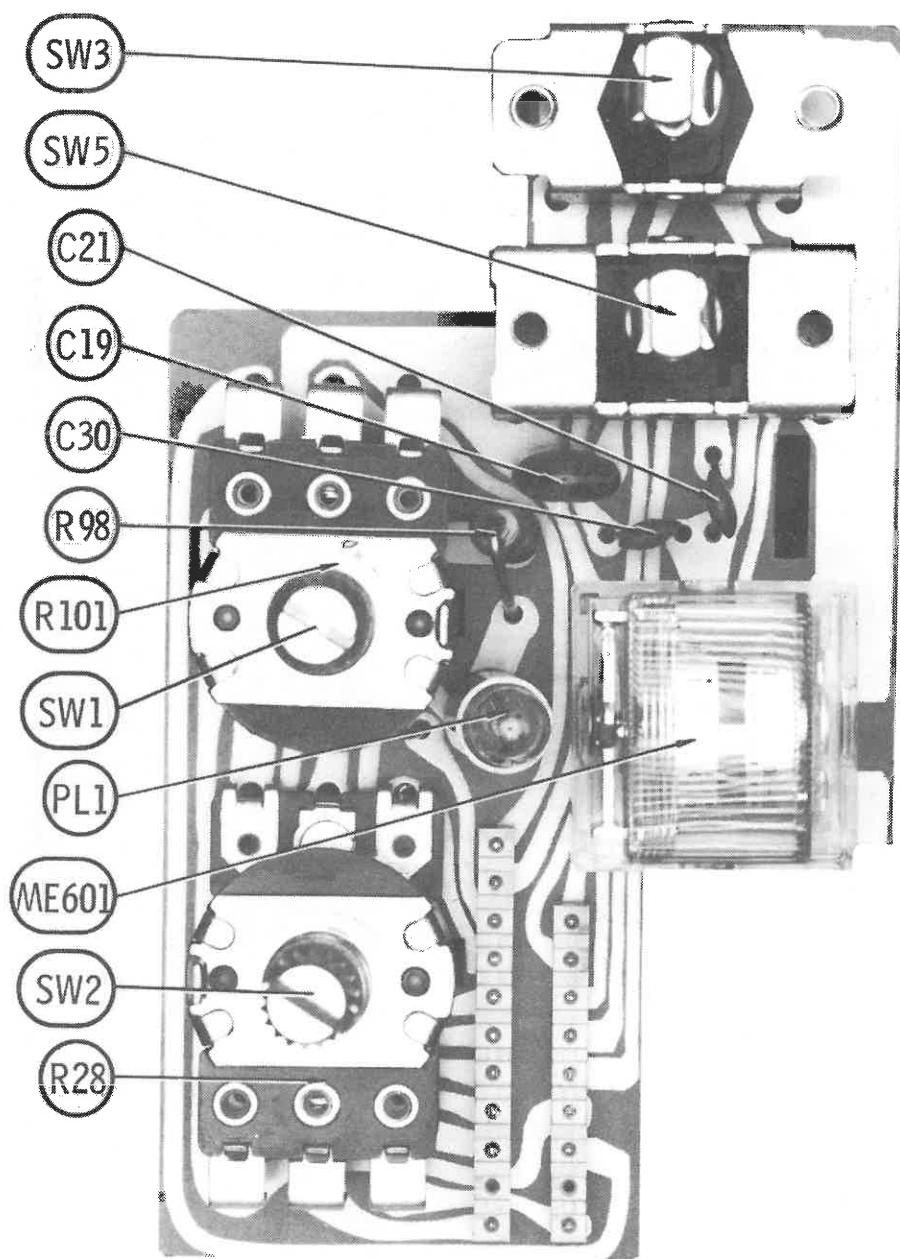


CH. LED BOARD

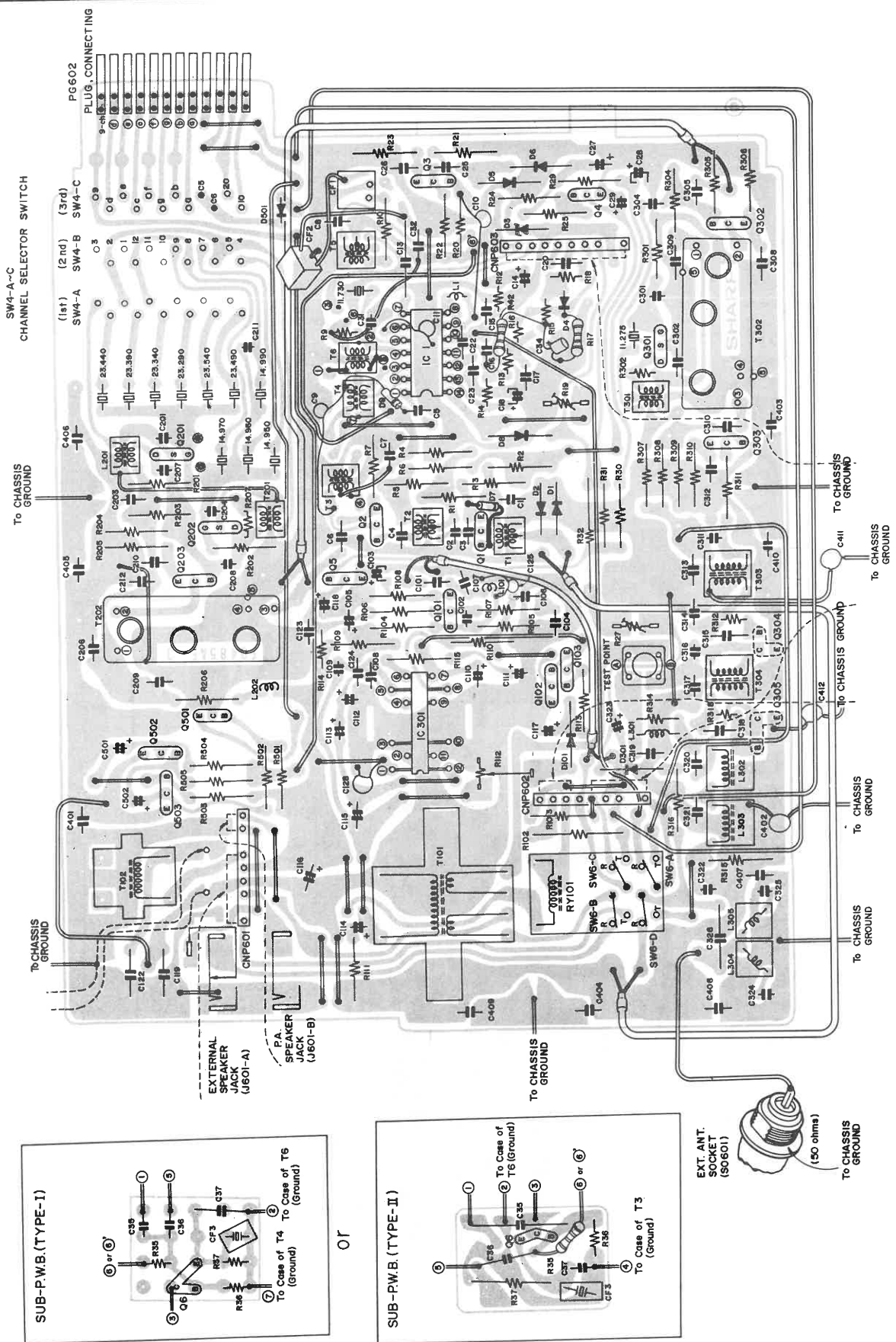
SHARP MODEL CB-800



CONTROL BOARD

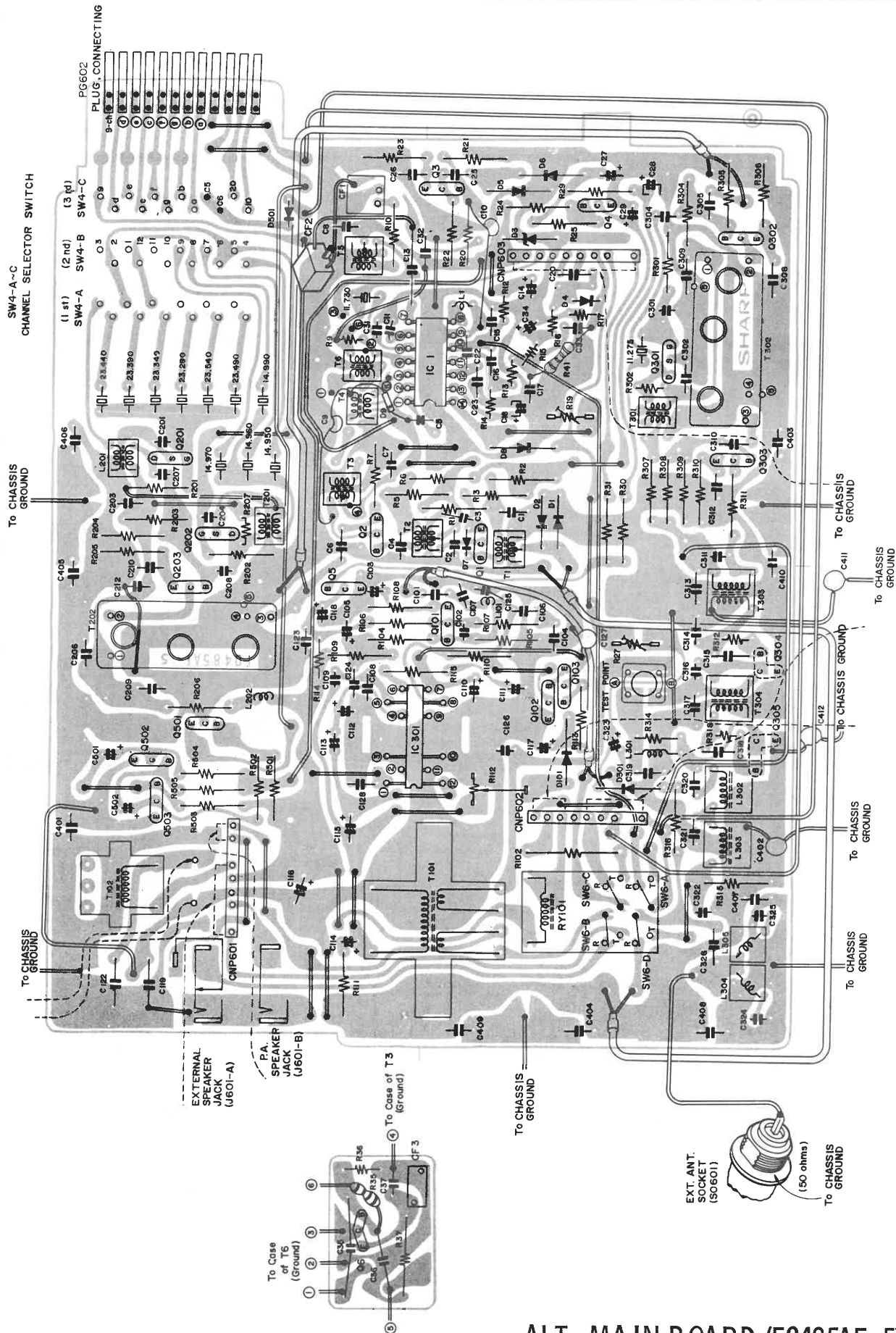


CONTROL BOARD

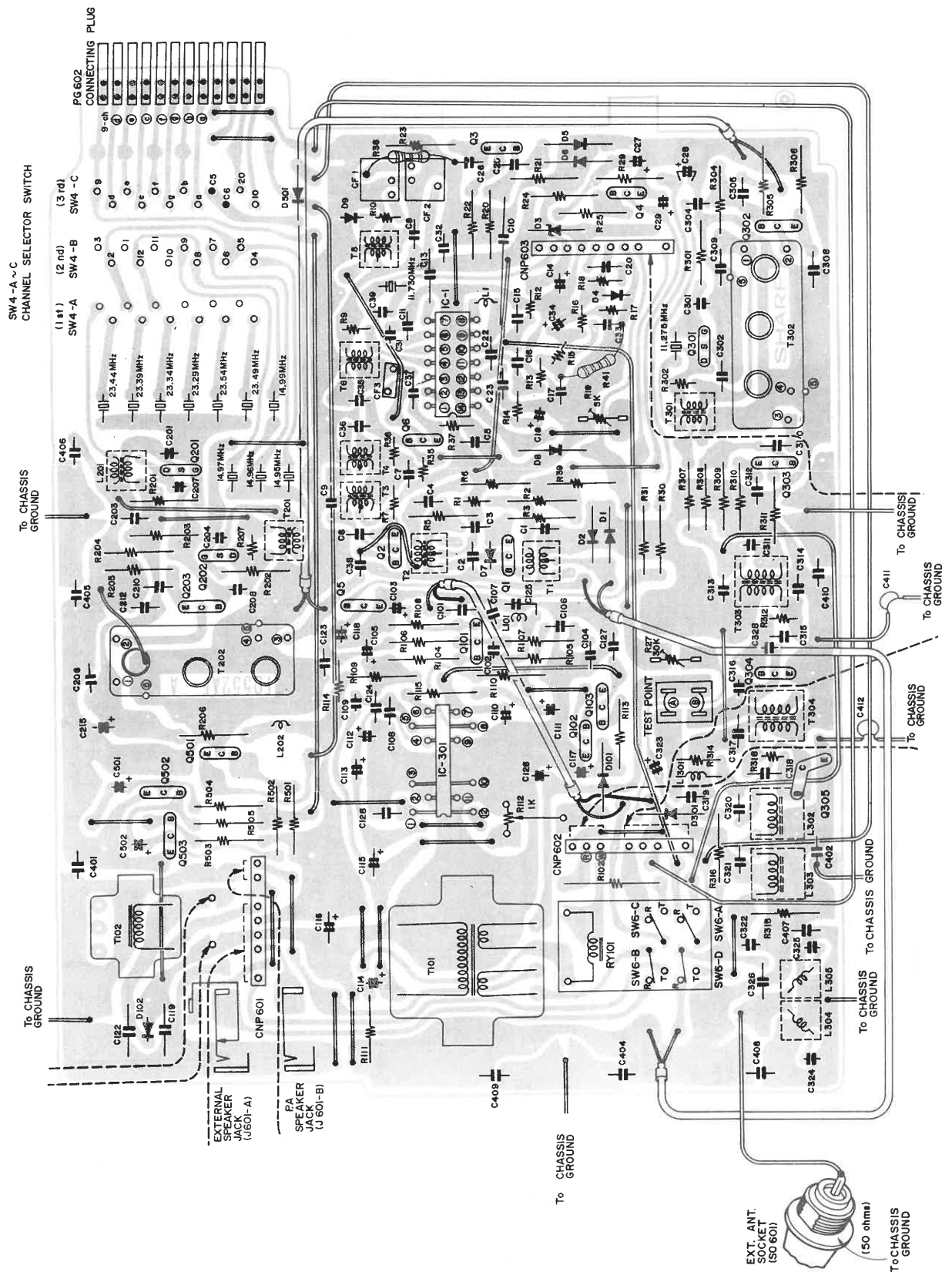


ALT. MAIN BOARD (F0485AF-3)

Courtesy of the Manufacturer

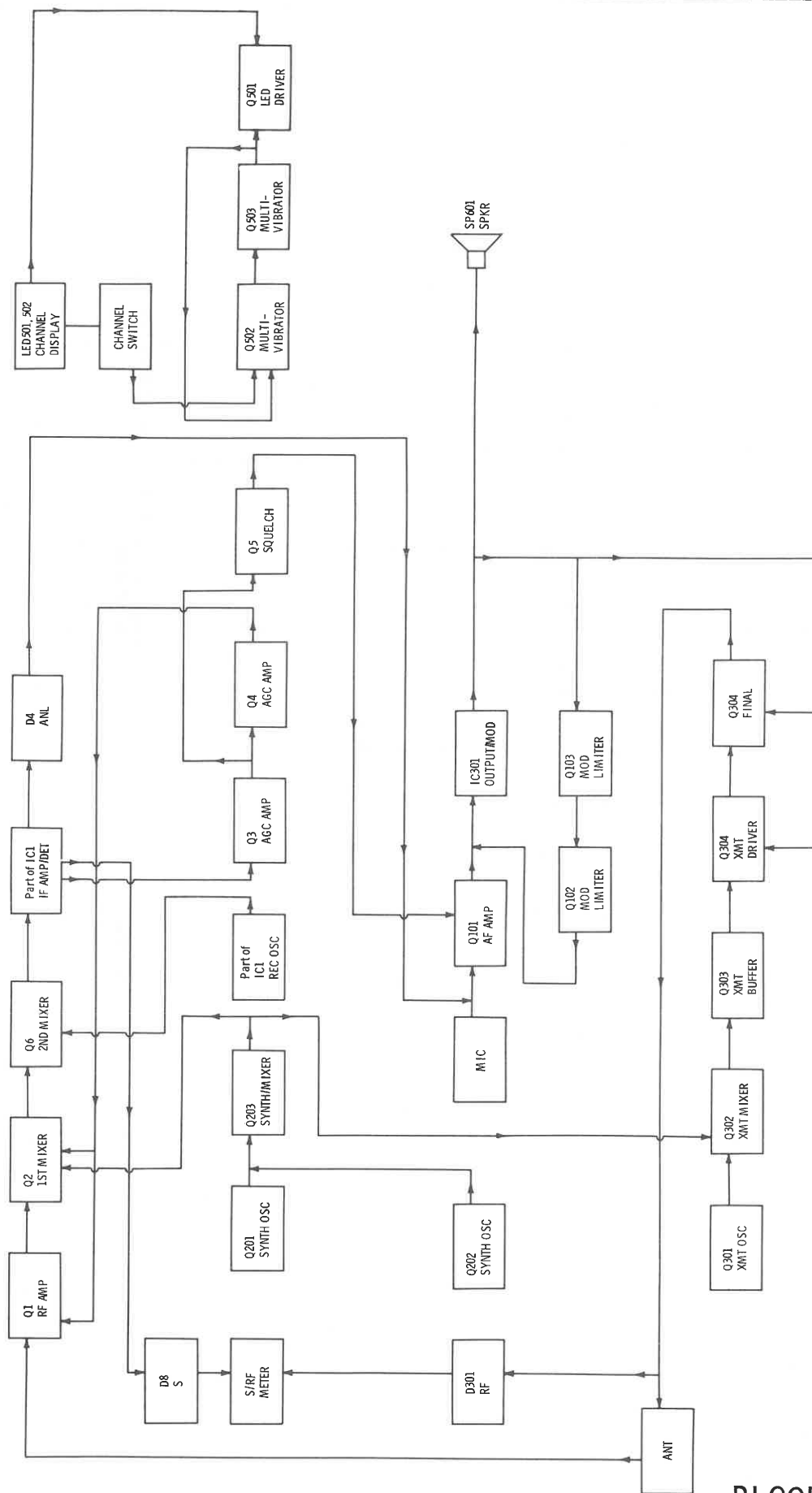


ALT. MAIN BOARD (F0485AF-5)



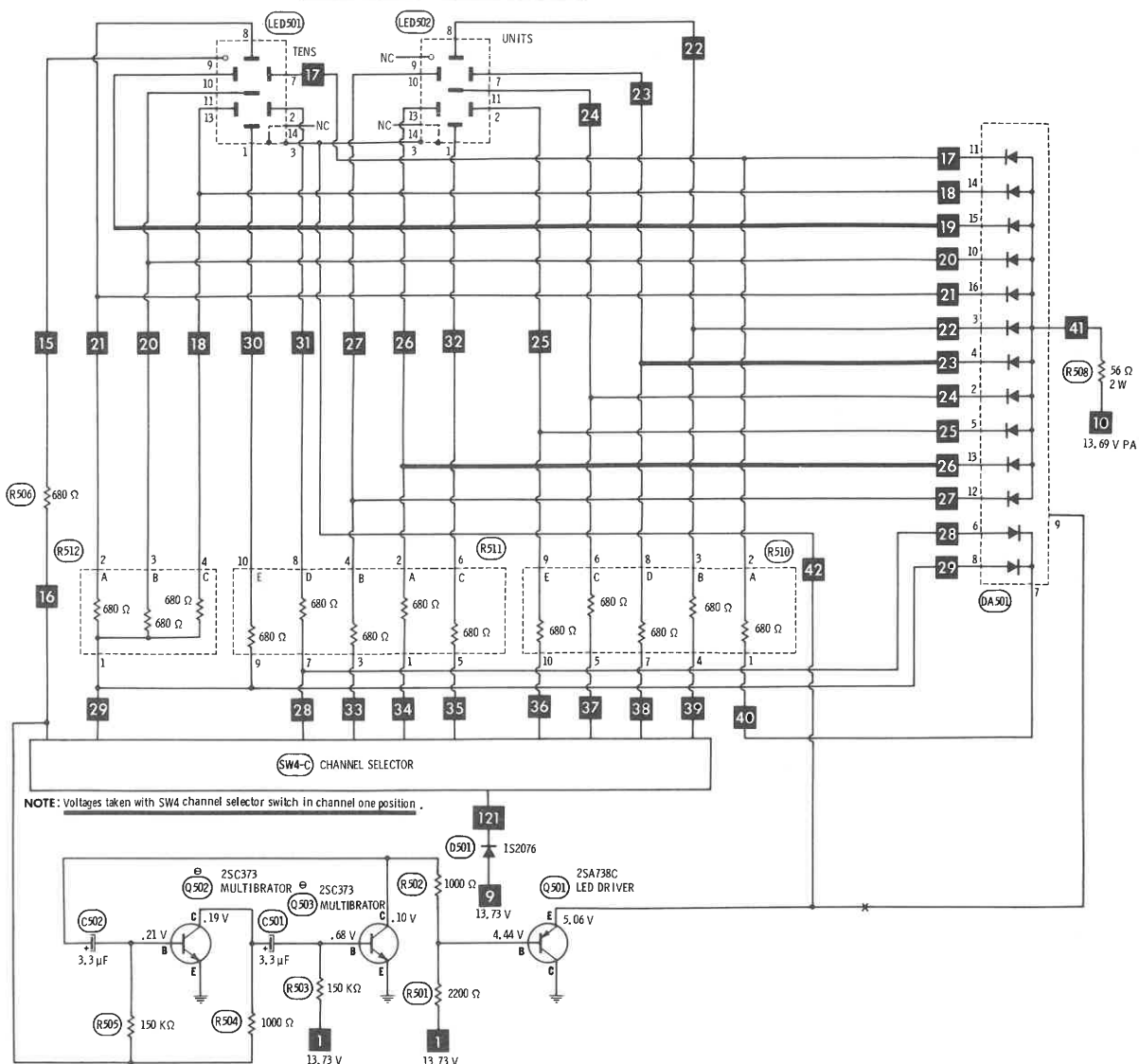
ALT. MAIN BOARD (F0522AF)

Courtesy of the Manufacturer



BLOCK DIAGRAM

NOTE: Each segment of LED501, LED502, supplied 1.57 V @ 8 mA.



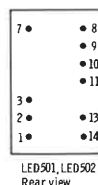
NOTE: Voltages taken with SW4 channel selector switch in channel one position.

- ✱ Circuitry not used in some versions
 - Circuitry used in some versions
 - ⊖ See parts list
 - ✱ Nominal value
 - ⊕ Ground
 - ⏏ Chassis
 - ⏏ Common tie point
- Measurements made in Channel 1 with switching as shown unless noted.
 Item numbers in rectangles appear in the alignment/adjustment instructions.
 Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

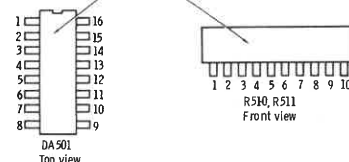
WITH **CIRCUITRACE**

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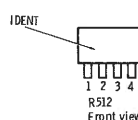


LED501, LED502 Rear view

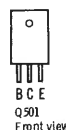
Terminal Guides



DA501 Top view



R510, R511 Front view



Q501 Front view



Q502, Q503 Bottom view

PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1S2076	VHD1S2076/-1	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D2	1S2076	VHD1S2076/-1	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D3	WZ100	VHEWZ-100/1F	GEZD-10		ZB10B		RE 115	SK3061	RT-241	ECG140A
D4	1S2076	VHD1S2076/-1	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
	1N60	VHD1N60///-1 (12)	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1N60	VHD1N60///-1	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
	1S2076	VHD1S2076/-1	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D6	1N60	VHD1N60///-1	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	1S2076	VHD1S2076/-1	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D8	1N60	VHD1N60///-1	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1S2076	VHD1S2076/-1 (13)	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
	1N60	VHD1N60///-1 (15)	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D11										
D101	1N60	VHD1N60///-1	1N60	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D102	1S1885	VHD1S1885/-1 (15)	GE-504A	5A4D	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
					PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
D301	1N60	VHD1N60///-1	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
	1S2076	VHD1S2076/-1 (1)	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D501	1S2076	VHD1S2076/-1	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
DA501		RH-IX1031AFZZ								
IC1	HA1151	RH-IX1030AFZZ	GEIC-154							
IC301	TBA810S-H	RH-IX1020AFZZ	GEIC-279							
Q1	2SC784R	VS2SC784-R/1F	GE-60 *	(IR)2SC380A0	PTC132 *	HEPS0008 *	RE 28 *	SK3184	RT-187	ECG1116
	2SC1675M	VS2SC1675M/-1 (1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3018 *	RT-308	ECG229 *
Q2	2SC394Y	VS2SC394-Y/-1	GE-61 *	(IR)2SC372	PTC121 *	HEPS0014 *	RE 9	SK3018 *	RT-309	ECG229 *
	2SC1675M	VS2SC1675M/-1 (1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
Q3	2SC373	VS2SC373-G/-1	GE-212	(IR)2SC373	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-105	ECG199
	2SC945L,K	VS2SC945L/K/-1 (1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q4	2SC373	VS2SC373-G/-1	GE-212	(IR)2SC373	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-105	ECG199
	2SC945L,P	VS2SC945L/P/-1 (1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q5	2SC733BL	VS2SC733-B/-1	GE-62	(IR)2SC372	PTC139 *	HEPS0025 *	RE 192	SK3122	RT-302	ECG199
	2SC900U	VS2SC900-U/-1 (1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q6	2SC394-0	VS2SC394-0/-1	GE-61 *	(IR)2SC372	PTC121 *	HEPS0014 *	RE 9	SK3018 *	RT-309	ECG229 *
	2SC460B	VS2SC460-B/-1 (1)	GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
Q101	2SC945L	VS2SC945L/-1	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945L,P	VS2SC945L/P/-1 (1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q102	2SC735Y	VS2SC735-Y/-1	GE-210 *	WEP735	PTC123 *	HEPS0014 *	RE 13 *	SK3122	RT-308 *	ECG289
	2SD227V	VS2SC227-V/-1 (1)	GE-62	TR-24	PTC136	HEPS0015 *	RE 13	SK3122	RT-105	ECG123A
Q103	2SC373	VS2SC373-G/-1	GE-212	(IR)2SC373	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-105	ECG199
	2SC945LP	VS2SC945LP/-1 (1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q201	2SK49	VS2SK49-F/-1	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	2SK49F	VS2SK49-F/-1 (1)	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q202	2SK49	VS2SK49-F/-1	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	2SK49F	VS2SK49-F/-1 (1)	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q203	2SC945L	VS2SC945L/-1	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945LP	VS2SC945LP/-1 (1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q301	2SC394Y	VS2SC394-Y/-1	GE-61 *	(IR)2SC372	PTC121 *	HEPS0014 *	RE 9	SK3018 *	RT-309	ECG229 *
	2SK49	VS2SC394-Y/-1	FE-100	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	2SK49F	VS2SK49-F/-1 (1)	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q302	2SC945L	VS2SC945L/-1	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945LP	VS2SC945LP/-1 (1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC735Y	VS2SC735-Y/-1 (1)								
Q303	2SC1166Y	VS2SC1166-Y/-1	GE-81 *	TR-63 *	PTC143	HEPS5026 *	RE 210	SK3122	RT-141	ECG297
	2SC1166-0	VS2SC1166-0/-1 (1)	GE-81 *	TR-63 *	PTC143	HEPS5026 *	RE 210	SK3122	RT-141	ECG297
Q304	2SC495T	VS2SC495-T/-1 (16)	GE-270	WEP913	PTC180		RE 209		RT-162	ECG295
Q305	2SC1237	VS2SC1237-1F (17)	GE-215	WEP1237	PTC186		RE 203	SK3197	RT-191	ECG235
Q501	2SA738C	VS2SA738-C/-1	GE-58	WEP238	PTC162	HEPS5006	RE 41	SK3191	RT-195	ECG185
Q502	2SC373	VS2SC373-G/-1	GE-212	(IR)2SC373	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-105	ECG199
	2SC945L	VS2SC945L/P/-1 (1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q503	2SC373	VS2SC373-G/-1	GE-212	(IR)2SC373	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-105	ECG199
	2SC945L	VS2SC945L/P/-1 (1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199

* Lead configuration may vary from original.

(1) Used in some versions.

(12) Used in PWB F0485AF5 & PWB F0552AF

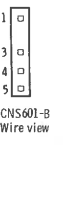
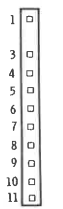
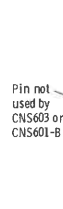
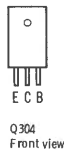
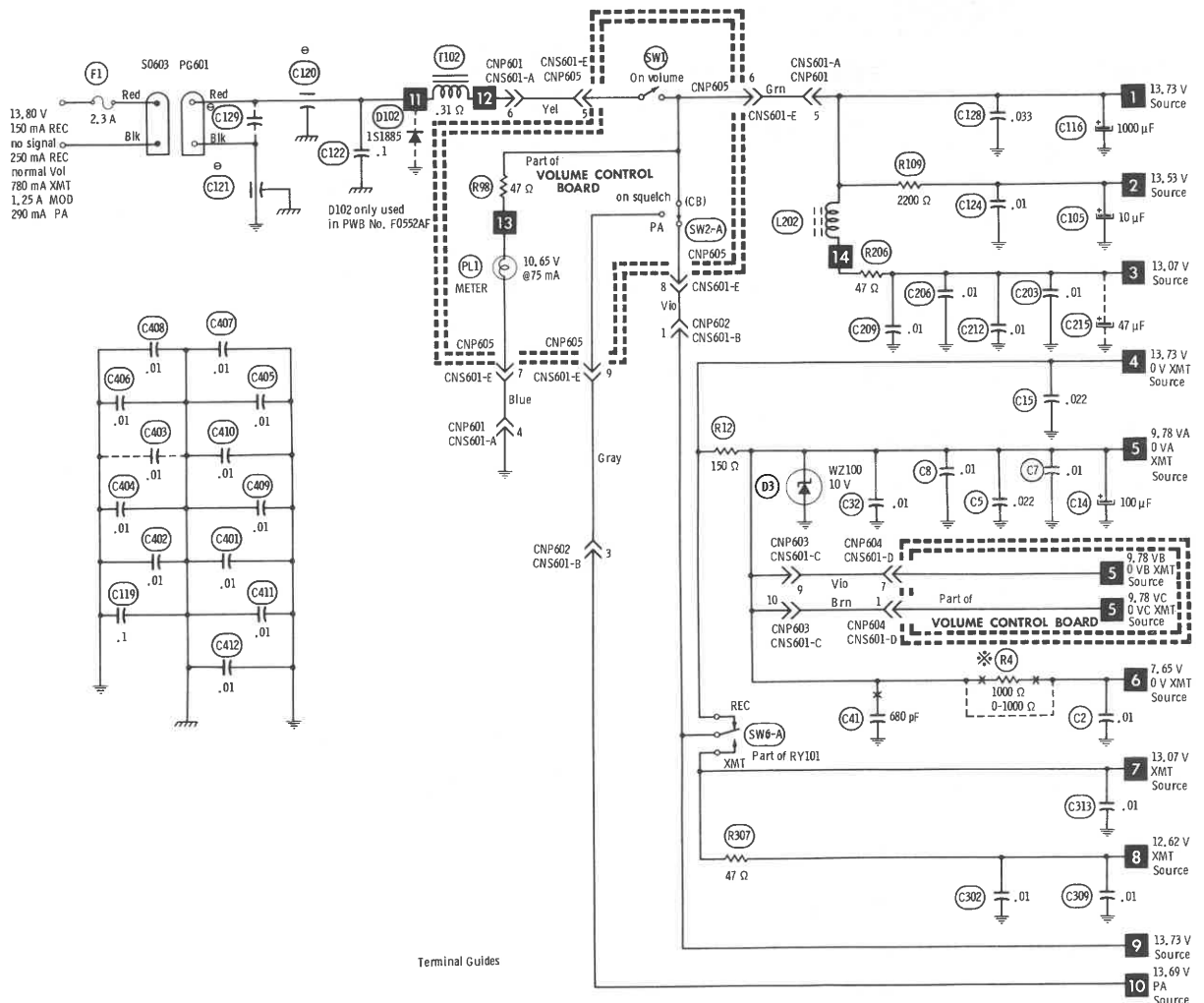
(13) Not used in PWB F0552AF

(15) Used only in PWB F0552AF

(16) Rating 5W @ 800 mA

(17) Rating 10 WATT

SHARP MODEL CB-800



✱ Circuitry not used in some versions

--- Circuitry used in some versions

⊕ See parts list

✱ Nominal value

⊕ Ground

⊕ Chassis

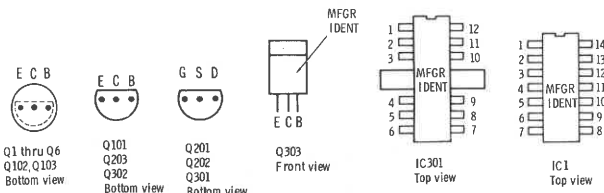
▽ Common tie point

Measurements made in Channel 1 with switching as shown unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. Supply voltage maintained as shown at input. Voltages measured with digital meter, no signal. Controls adjusted for normal operation. Arrow at control indicates direction of advance. Terminal identification may not be found on unit. Resistors are 1/2W or less, 5% unless noted. Value in () used in some versions.

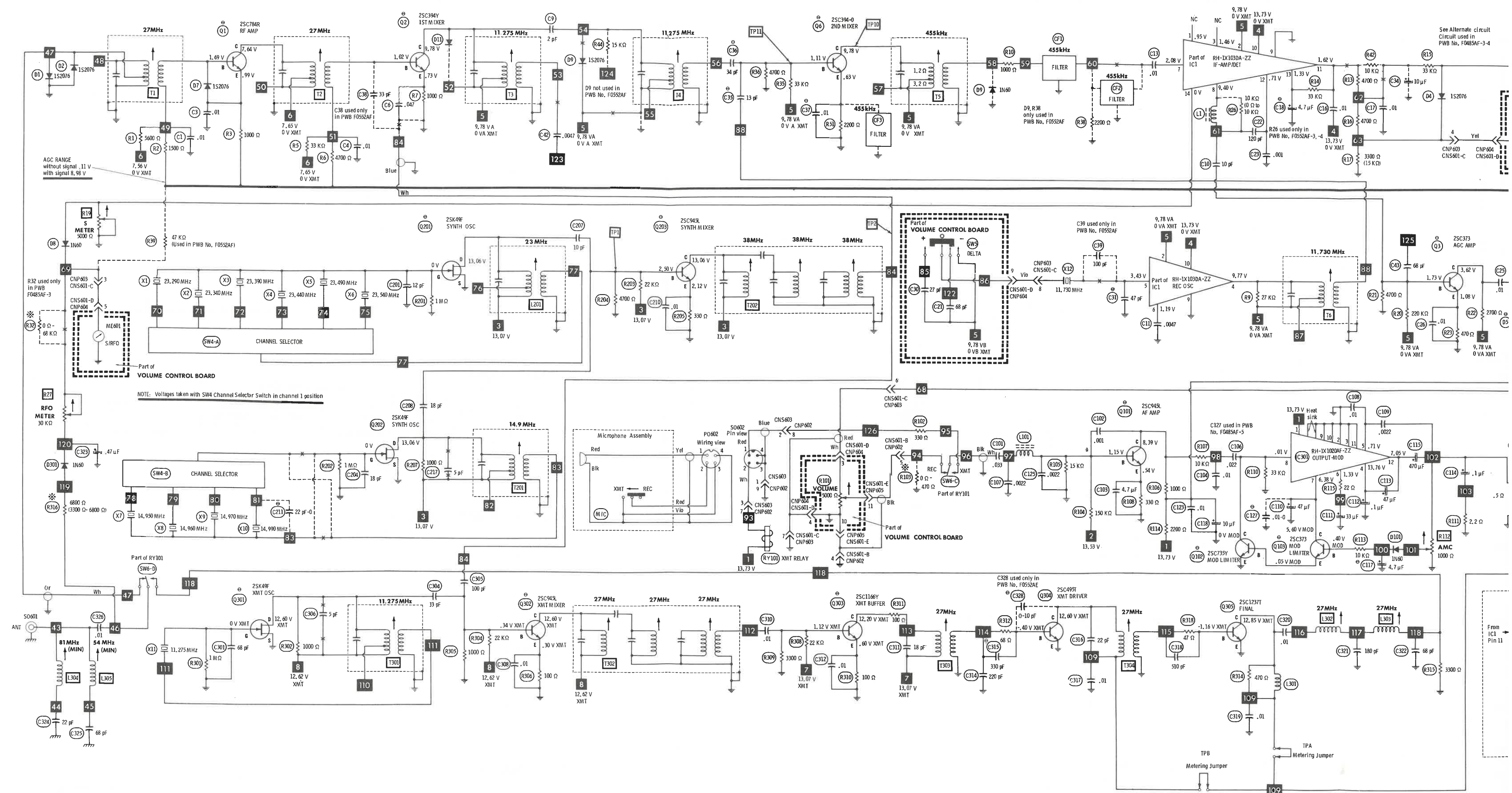
A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE®

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Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X7	7	X2, X9	13	X4, X7	19	X5, X9
2	X1, X8	8	X2, X10	14	X4, X8	20	X5, X10
3	X1, X9	9	X3, X7	15	X4, X9	21	X6, X7
4	X1, X10	10	X3, X8	16	X4, X10	22	X6, X8
5	X2, X7	11	X3, X9	17	X5, X7		
6	X2, X8	12	X3, X10	18	X5, X8	23	X6, X10



PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFRG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C14	100 10V	VCEAAUTAW107Y	PC100-10	VTT100E10	QV1-93	EV-1130
C18	4.7 50V		PC5-50	VTT4R7B50	QV1-29	EV-1519
	3.3 25V	VCEAAUTEW335Y(1)	PC5-50	VTT3R3A50	QV1-23	EV-1318
C27	1 50V	VCEAAUTHW105Y	PC1-50	VTT1A50	QV1-11	EV-1615
C28	4.7 25V	VCEAAUTEW475Y	PC5-50	VTT4R7B50	QV1-27	EV-1319
C29	10 10V	VCEAAUTCW106Y	PC10-25	VTT10B25	QV1-41	EV-1222
C34	10 16V	VCEAAUTCW106Y	PC10-25	VTT10B25	QV1-41	EV-1222
C103	4.7 25V	VCEAAUTEW475Y	PC5-50	VTT4R7B50	QV1-27	EV-1319
C105	10 16V	VCEAAUTCW106Y	PC10-25	VTT10B25	QV1-41	EV-1222
C110	47 16V	VCEAAUTCW476Y	PC50-16	VTT47D16	QV1-73	EV-1226
C111	33 10V	VCEAAUTAW336Y	PC30-25	VTT33B10	QV1-61	EV-1125
C112	.1 50V	VCEALU1HW104M		TDC104M050EL	QDT1-2	SD50-R109
C113	47 16V	VCEAAUTCW476Y	PC50-16	VTT47D16	QV1-73	EV-1226
C114	1 50V	VCEALU1HW104M	PC1-50	VTT1A50	QV1-11	EV-1615
C115	470 10V	VCEAAUTAW477Y	PC500-16	VTT470K16	QV1-149	EV-1150
C116	1000 16V	VCEAAUTCW108Y	PC1000-16	VTT1000L16	QV1-183	EV-1260
C117	4.7 50V		PC5-50	VTT4R7B50	QV1-29	EV-1519
	3.3 25V	VCEAAUTEW335Y(1)	PC5-50	VTT3R3A50	QV1-23	EV-1318
C118	10 16V	VCEAAUTCW106Y	PC10-25	VTT10B25	QV1-41	EV-1222
C126	1 50V	VCEAAUTHW105Y	PC1-50	VTT1A50	QV1-11	EV-1615
C215	47 16V	VCEAAUTCW476Y	PC50-16	VTT47D16	QV1-73	EV-1226
C323	4.7 6.3V	VAAKUOXAA474M	PC5-50	VTT4R7B50	QV1-27	EV-1319
C501	3.3 25V	VCEAAUTEW335Y	PC5-50	VTT3R3A50	QV1-23	EV-1318
C502	3.3 25V	VCEAAUTEW335Y	PC5-50	VTT3R3A50	QV1-23	EV-1318

(1) Used in some versions.

CAPACITORS

ITEM No.	RATING	MFRG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	.01 50V		UK50-103		MAG5011		
C2	.01 50V		UK50-103		MAG5011		
C3	.01 50V		UK50-103		MAG5011		
C4	.01 50V		UK50-103		MAG5011		
C5	.022 50V		UK25-223				
C6	.0047 50V		DD-472	GP4700	GP247		HY-725
C7	.01 50V		UK50-103		MAG5011		5GA-D47
C8	.01 50V		UK50-103		MAG5011		
C9	2 50V		UK50-103		MAG5011		
C10	10 50V		DTZ-10	NP010	CN0410		10TCC-Q10
	22 5% 50V	(1)	DTZ-22	NP022	CN0422		10TCC-Q22
C11	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C13	.01 50V		UK50-103		MAG5011		
C15	.022 50V		UK25-223				HY-725
C16	.01 50V		UK50-103		MAG5011		
C17	.01 10% 50V			WMF1S1	EWFI1A110	QFT2-91	1FT-S10
C19	.033 50V		UK50-333		MAG50133		
C20	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C21	68 5% 50V		DTZ-68	NP068	CN0468		10TCC-Q68
C22	120 5% 50V	(5)	DTZ-120		CN0312		10TCC-T12
C23	.001 50V		DD-1026	GP1000	GP210	QC2-81	5GA-D10
C25	.01 50V		UK50-103		MAG5011		
C26	.01 50V		UK50-103		MAG5011		
C30	27 5% 50V			NP047	CN0427		10TCC-Q27
C31	47 5% 50V		DTZ-47		CN0447		10TCC-Q47
C32	.01 50V		UK50-103		MAG5011		
C33	.033 10% 50V	(4)			M192P3339R8	QFT2-149	1FT-S33
C35	13 N750 50V		DTN-15	N15	CN7415		10TCU-Q15
	12 5% 50V				CN0412		10TCC-Q12
C36	34 5% 50V		DTZ-33	NP033	CN0433		10TCC-Q33
	33 5% 50V	(5)	DTZ-33	NP033	CN0433		10TCC-Q33
C37	.01 50V		UK50-103		MAG5011		
	680 5% 50V	(3)	DD-681	GP680	GP368		10TS-T68
C38	33 5% 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C39	100 5% 50V		DTZ-100	NP0100	CN0310		10TCC-T10
C41	680 10% 50V		DD-681	GP680	GP368		10TS-T68
C42	.0047 10% 50V				M192P4729R8		192P4729R8
C43	68 10% 50V		DTZ-68	NP068	CN0468		10TCC-Q68
C101	.033 10% 50V		UK50-333		MAG50133		
C102	.001 10% 50V			DPMS6D1	EWFI1A210	QFT2-1	1FT-D10
C104	.01 50V			WMF1S1	EWFI1A110	QFT2-91	1FT-S10
C106	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C107	.0022 50V				M192P2229R8	QFT2-27	1FT-D22
C108	.01 50V			WMF1S1	EWFI1A110	QFT2-91	1FT-S10
C109	.0022 50V				M192P2229R8	QFT2-27	1FT-D22
C119	.1 50V		CK-104		MAG5001		
C120		RC-KZ1006AFZZ (2)					
C121		RC-KZ1006AFZZ (2)					
C122	.1 50V		CK-104		MAG5001		
C123	.01 50V		UK50-103		MAG5011		
C124	.01 50V		UK50-103		MAG5011		
C125	.0022 50V				GP222		10TS-D22
C126	.01 50V	(4)	UK50-103		MAG5011		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFRG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C127	.01 50V	(4)	UK50-103		MAG5011	QFT2-149	1FT-S33
C128	.033 10% 50V				M192P3339R8		
C129	.01 50V		UK50-103		MAG5011		
C201	12 5% 50V		UK50-103		CN0412		10TCC-Q12
C203	.01 50V				MAG5011		
C204	18 5% 50V				CN0418		10TCC-Q18
C206	.01 50V		UK50-103		MAG5011		
C207	10 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C208	18 5% 50V				CN0418		10TCC-Q18
C209	.01 50V		UK50-103		MAG5011		
C210	.01 50V		UK50-103		MAG5011		
C212	.01 50V		UK50-103		MAG5011		
C217	5 N220 50V				MAG5011		
C301	68 5% 50V		DTZ-68	NP068	CN0468		10TCC-Q68
C302	.02 50V		UK50-223		MAG5012		
C304	33 5% 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C305	100 5% 50V		DD-101	GP100	GP310		10TS-T10
C306	5 N220 50V						
C308	.01 50V		UK50-103		MAG5011		
C309	.01 50V		UK50-103		MAG5011		
C310	.01 50V		UK50-103		MAG5011		
C311	18 5% 50V				CN0418		10TCC-Q18
C312	.01 50V		UK50-103		MAG5011		
C313	.01 50V		UK50-103		MAG5011		
C314	220 5% 50V		DTZ-220				
C315	330 5% 50V		DD-331	GP330	GP333		10TCC-T22
C316	22 5% 50V		DTZ-22	NP022	CN0422		10TS-T33
C317	.01 50V		UK50-103		MAG5011		10TCC-Q22
C318	510 5% 50V		DD-501	GP500	GP350		10TS-T50
C319	.01 50V		UK50-103		MAG5011		
C320	.01 50V		UK50-103		MAG5011		
C321	180 5% 50V		DTZ-180				
C322	68 5% 50V		DTZ-68	NP068	CN0468		10TCC-T18
C324	22 5% 50V		DTZ-22	NP022	CN0422		10TCC-Q68
C325	68 5% 50V		DTZ-68	NP068	CN0468		10TCC-Q22
C326	.01 50V		UK50-103		MAG5011		10TCC-Q68
C401	.01 50V		UK50-103		MAG5011		
C402	.01 50V		UK50-103		MAG5011		
C403	.01 50V		UK50-103		MAG5011		
C404	.01 50V		UK50-103		MAG5011		
C405	.01 50V		UK50-103		MAG5011		
C406	.01 50V		UK50-103		MAG5011		
C407	.01 50V		UK50-103		MAG5011		
C408	.01 50V		UK50-103		MAG5011		
C409	.01 50V		UK50-103		MAG5011		
C410	.01 50V		UK50-103		MAG5011		
C411	.01 50V		UK50-103		MAG5011		
C412	.01 50V		UK50-103		MAG5011		

- (1) Used on Printed Circuit Board #F0552AF.
(2) Includes C120, C121 and mounting bracket.
(3) Used when CF2 & CF3 are used.
(4) Used on Printed Circuit Boards #F0485AF-5 & F0522AF.
(5) Nominal value, replace with original value.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFRG. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.
R19	S Meter	5000	RVR-M0119AFZZ			
R27	RFO Meter	30K	RVR-M0010AFZZ			
R28	Squelch/PA Switch	10K	RVR-B0131AFZZ			
R101	Volume/Power Switch	5000	RVR-D0103AFZZ			
R112	AMC	1000	RVR-M0116AFZZ			

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFRG. PART No.			WORKMAN PART No.	MFRG. PART No.
R510	Resistor Network		RMPTC0001AFZZ (1)	R512	Resistor Network		RMPTC0002AFZZ (2)
R511	Resistor Network		RMPTC0001AFZZ (1)				

- (1) Consists of five 680 Ohm resistors.
(2) Consists of three 680 Ohm resistors.

PARTS LIST AND DE

(When ordering parts, state Mode

COILS (RF-IF)

ITEM No.	FUNCTION
L1	RF Choke
L101	RF Choke
L201	Synth Oscillator(23MHz
L202	RF Choke
L301	RF Choke
L302	Final Amp (27MHz)
L303	Pi Filter (27MHz)
L304	81MHz Trap
L305	TVI Trap (54MHz)
T1	Rec Antenna (27MHz)
T2	Rec RF (27MHz)
T3	Mixer (11.275MHz)
T4	Mixer (11.275MHz)
T5	IF (455kHz)
T6	Record Oscillator (11.730MHz
T201	Synth Oscillator
T202	Synth Mixer (38MHz)
T301	XMT Oscillator (11.257MHz
T302	XMT Mixer (27MHz)
T303	XMT Buffer (27MHz)
T304	XMT Driver (27MHz)

FILTER CHOKE

ITEM No.	RATINGS		
	CURRENT (Measured)	DC RES.	INDU (0 C 10
F102	1.25A	.31	5.

TRANSFORMER (Audio)

ITEM No.	IMPEDANCE		
	PRI.	SEC.	
T101	3.92	1 8 28.8	RT MO

SPEAKER

ITEM No.	TYPE
SP601	3" PM 8 Ohms

FUSE DEVICES

ITEM No.	DESCRIPTION
F1	2.3A Quick Acting

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFRG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE	PART No.
						Q-LINE	GENERAL LINE
C127	.01 50V	(4)	UK50-103	NP010	MAG5011	QFT2-149	1FT-S33
C128	.033 10% 50V				M192P3339R8		
C129	.01 50V		UK50-103		MAG5011		
C201	12 5% 50V				CN0412		10TCC-Q12
C203	.01 50V		UK50-103		MAG5011		
C204	18 5% 50V				CN0418		10TCC-Q18
C206	.01 50V		UK50-103		MAG5011		
C207	10 50V		DTZ-10		CN0410		10TCC-Q10
C208	18 5% 50V				CN0418		10TCC-Q18
C209	.01 50V		UK50-103		MAG5011		
C210	.01 50V		UK50-103		MAG5011		
C212	.01 50V		UK50-103	MAG5011			
C217	5 N220 50V						
C301	68 5% 50V		DTZ-68	NP068	CN0468	10TCC-Q68	
C302	.02 50V		UK50-223		MAG5012		
C304	33 5% 50V		DTZ-33	NP033	CN0433	10TCC-Q33	
C305	100 5% 50V		DD-101		GP100		GP310
C306	5 N220 50V						
C308	.01 50V		UK50-103		MAG5011		
C309	.01 50V		UK50-103		MAG5011		
C310	.01 50V		UK50-103		MAG5011		
C311	18 5% 50V				CN0418	10TCC-Q18	
C312	.01 50V		UK50-103		MAG5011		
C313	.01 50V		UK50-103		MAG5011		
C314	220 5% 50V		DTZ-220			10TCC-T22	
C315	330 5% 50V		DD-331	GP330	GP333	10TS-T33	
C316	22 5% 50V		DTZ-22		NP022	CN0422	10TCC-Q22
C317	.01 50V		UK50-103		MAG5011		
C318	510 5% 50V		DD-501	GP500	GP350	10TS-T50	
C319	.01 50V		UK50-103		MAG5011		
C320	.01 50V		UK50-103		MAG5011		
C321	180 5% 50V		DTZ-180			10TCC-T18	
C322	68 5% 50V		DTZ-68	NP068	CN0468	10TCC-Q68	
C324	22 5% 50V		DTZ-22		NP022	CN0422	10TCC-Q22
C325	68 5% 50V		DTZ-68	NP068	CN0468	10TCC-Q68	
C326	.01 50V		UK50-103			MAG5011	
C401	.01 50V		UK50-103		MAG5011		
C402	.01 50V		UK50-103		MAG5011		
C403	.01 50V		UK50-103		MAG5011		
C404	.01 50V		UK50-103		MAG5011		
C405	.01 50V		UK50-103		MAG5011		
C406	.01 50V		UK50-103		MAG5011		
C407	.01 50V		UK50-103		MAG5011		
C408	.01 50V		UK50-103		MAG5011		
C409	.01 50V	UK50-103		MAG5011			
C410	.01 50V	UK50-103		MAG5011			
C411	.01 50V	UK50-103		MAG5011			
C412	.01 50V	UK50-103		MAG5011			

- (1) Used on Printed Circuit Board #F0552AF.
(2) Includes C120, C121 and mounting bracket.
(3) Used when CF2 & CF3 are used.
(4) Used on Printed Circuit Boards #F0485AF-5 & F0522AF.
(5) Nominal value, replace with original value.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFRG. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R19	S Meter	5000	RVR-M0119AFZZ				
R27	RFO Meter	30K	RVR-M0010AFZZ				
R28	Squelch/PA Switch	10K	RVR-B0131AFZZ				
R101	Volume/Power Switch	5000	RVR-D0103AFZZ				
R112	AMC	1000	RVR-M0116AFZZ				

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFRG. PART No.			WORKMAN PART No.	MFRG. PART No.
R510	Resistor Network		RMPTC0001AFZZ (1)	R512	Resistor Network		RMPTC0002AFZZ (2)
R511	Resistor Network		RMPTC0001AFZZ (1)				

- (1) Consists of five 680 Ohm resistors.
(2) Consists of three 680 Ohm resistors.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke	RCILZ0014AGZZ			
L101	RF Choke	RCIL00023AFZZ		9230-32	
L201	Synth Oscillator(23MHz)	RCILA0377AFZZ			
L202	RF Choke	RCILC0024AFZZ			
L301	RF Choke	RCILC0024AFZZ			
L302	Final Amp (27MHz)	RCILR0135AFZZ		4610	
L303	Pi Filter (27MHz)	RCILR0055AFZZ		CB144	
L304	81MHz Trap	RCILC0055AFZZ		CB143	
L305	TVI Trap (54MHz)	RCILC0055AFZZ		CB143	
T1	Rec Antenna (27MHz)	RCILA0377AFZZ	A0377		
T2	Rec RF (27MHz)	RCILR0304AFZZ			
T3	Mixer (11.275MHz)	RCILI0210AFZZ	10210		
T4	Mixer (11.275MHz)	RCILI0210AFZZ	10210		
T5	IF (455kHz)	RCILI0154AFZZ	10154A6135		
T6	Record Oscillator (11.730MHz)	RCILI0210AFZZ			
T201	Synth Oscillator	RCILB0378AFZZ	B0378		
T202	Synth Mixer (38MHz)	RCILI0212AFZZ	1021262		
T301	XMT Oscillator (11.257MHz)	RCILB0378AFZZ	B0378		
T302	XMT Mixer (27MHz)	RCILI0211AFZZ	10211615		
T303	XMT Buffer (27MHz)	RCILB0221AFZZ			
T304	XMT Driver (27MHz)	RCILR0037AFZZ			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFRG. PART No.	THORDARSON PART No.	TRIAD PART No.	
F102	1.25A	.31	5.62mH	RTRNC0003AFZZ 9T735 (1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFRG. PART No.	THORDARSON PART No.	TRIAD PART No.	
T101	3.92	1 8 2 28.8	RTRNM0050AFZZ M0050AF (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFRG. PART No.	QUAM PART No.	
SP601	3" PM 8 Ohms	VSP0080P-208A	30A05Z8	

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	2.3A Quick Acting	QFS-A232AAFNA		AGC2 1/2	HDJ	31202.5	150145	

SHARP MODEL CB-800

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	RMICD0205AFZZ	18-032	18-034	18-010	18-092	1	3,4	2	NC	NC	3,4

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Ceramic Filter	RFILA0050AFZZ	455kHz
CF2	Ceramic Filter	RFILA0050AFZZ	455kHz
CF3	Ceramic Filter	RFILA0001AFZZ	455kHz
J601A	Jack	QJAKB0050AFZZ	PA Speaker
J601B	Jack	QJAKB0050AFZZ	External Speaker
LED501	LED	VHPGL-8R04/-1	Channel Display
LED502	LED	VHPGL-8R04/-1	Channel Display
ME601	Meter	RMTRE0057AFZZ	S/RF
PG601	Plug	QSOCZ2454AFZZ	DC Power
PG602	Plug	QPLGZ1250AFZZ	Microphone
PL1	Lamp	RLMPM0058AFZZ	Meter (10.65V @ 75mA)
RY101	Relay	RRLYZ0007AFZZ	Xmt/Rec
S0601	Jack	QSOCZ2453AFZZ	Antenna
S0602	Jack	QSOCZ2456AFZZ	Microphone
S0603	Jack	QFSHJ9052AFZZ	Power
SW1	Switch		Power (Part of Volume Control)
SW2	Switch		PA/CB (Part of Squelch Control)
SW3	Switch	QSW-B0028AGZZ	ANL
SW4	Switch	QSW-R0125AFZZ	Channel Select
SW5	Switch	QSW-B0003AFZZ	Delta Tune
SW6	Switch	RRLYZ0007AFZZ	Xmt/Rec (Part of Relay RY101)
X1	Crystal	RCRSB0005AFZZ	14.950MHz
X2	Crystal	RCRSB0006AFZZ	14.960MHz
X3	Crystal	RCRSB0007AFZZ	14.970MHz
X4	Crystal	RCRSB0008AFZZ	14.990MHz
X5	Crystal	RCRSB0009AFZZ	23.290MHz
X6	Crystal	RCRSB0010AFZZ	23.340MHz
X7	Crystal	RCRSB0011AFZZ	23.390MHz
X8	Crystal	RCRSB0012AFZZ	23.440MHz
X9	Crystal	RCRSB0013AFZZ	23.490MHz
X10	Crystal	RCRSB0014AFZZ	23.540MHz
X11	Crystal	RCRSB0015AFZZ	11.275MHz
X12	Crystal	RCRSB0016AFZZ	11.730MHz
	Printed Circuit Board	QPWBF0485AFZZ	Main
	Printed Circuit Board	QPWBF0552AFZZ	Main
	Printed Circuit Board	QPWBF0542AFZZ	SUB
	Printed Circuit Board	QPWBE0066AFZZ	Channel Indicator
	Printed Circuit Board	QPWBF0487AFZZ	Volume

SHARP MODEL CB-800

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

ITEM	PART No.	ITEM	PART No.
Cabinet	GCAB-3016AFSA	Knob, Volume/Squelch	JKNB0300AFSA
Cabinet, Front Panel	GWAKP1057AFSA	Knob, ANL/Delta Tune	JKNB0219AFSA
Knob, Channel Select	JKNB0299AFSA	Hanger, Microphone	PHAG-8001AFCC

WIRING DATA

General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded) 23AWG	BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672	28AWG	BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106	31AWG	BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded) 23AWG	BELDEN No. 8415 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

