



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.

REGENCY MODEL CB-501



MODEL CB-501

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

© 1977 Howard W. Sams & Co., Inc.

Printed in U. S. of America

7CE499

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:

L101 thru L104, L107, L108, L112 thru L116 9304
C217 5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of DC meter to TP1.	Ch. 19	R197	Adjust for 0.75 ± 0.05 volts.
Input of DC meter to TP2.	Ch. 19	L112	Adjust for 2.0 ± 0.1 volts.
Input of frequency counter to TP3.	Ch. 19	C217	Adjust for $10.240\text{MHz} \pm 25\text{Hz}$.
Input of frequency counter to TP5.	Ch. 19		Check for 14.270MHz.
	Ch. 19, Xmit		Check for 14.725MHz.

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.

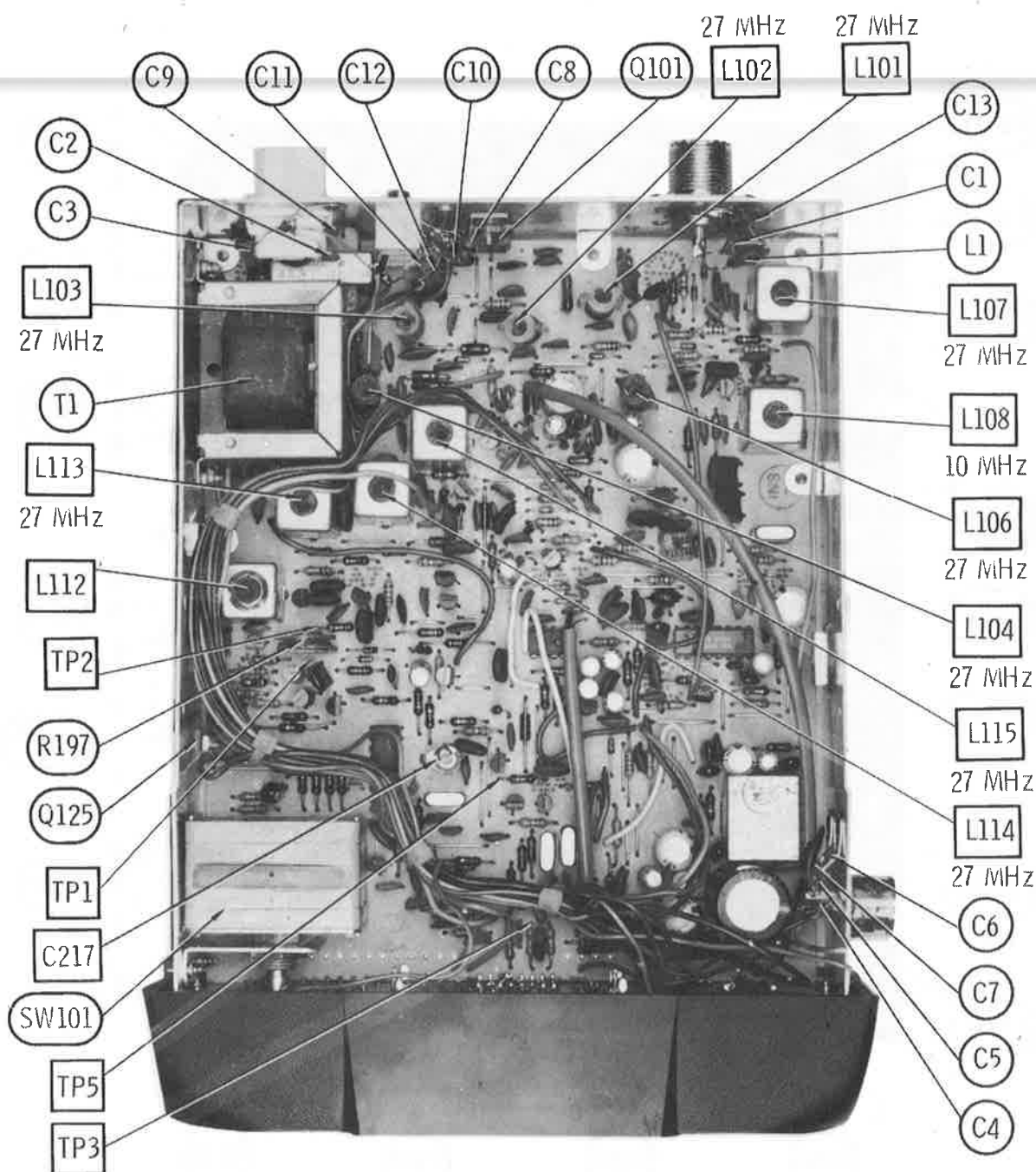
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP4. 10.695MHz, 1000Hz @ 30% modulation.	Ch. 19	L108	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 19	L107, L106	Adjust for maximum output. Repeat above steps if necessary.

TRANSMITTER ALIGNMENT

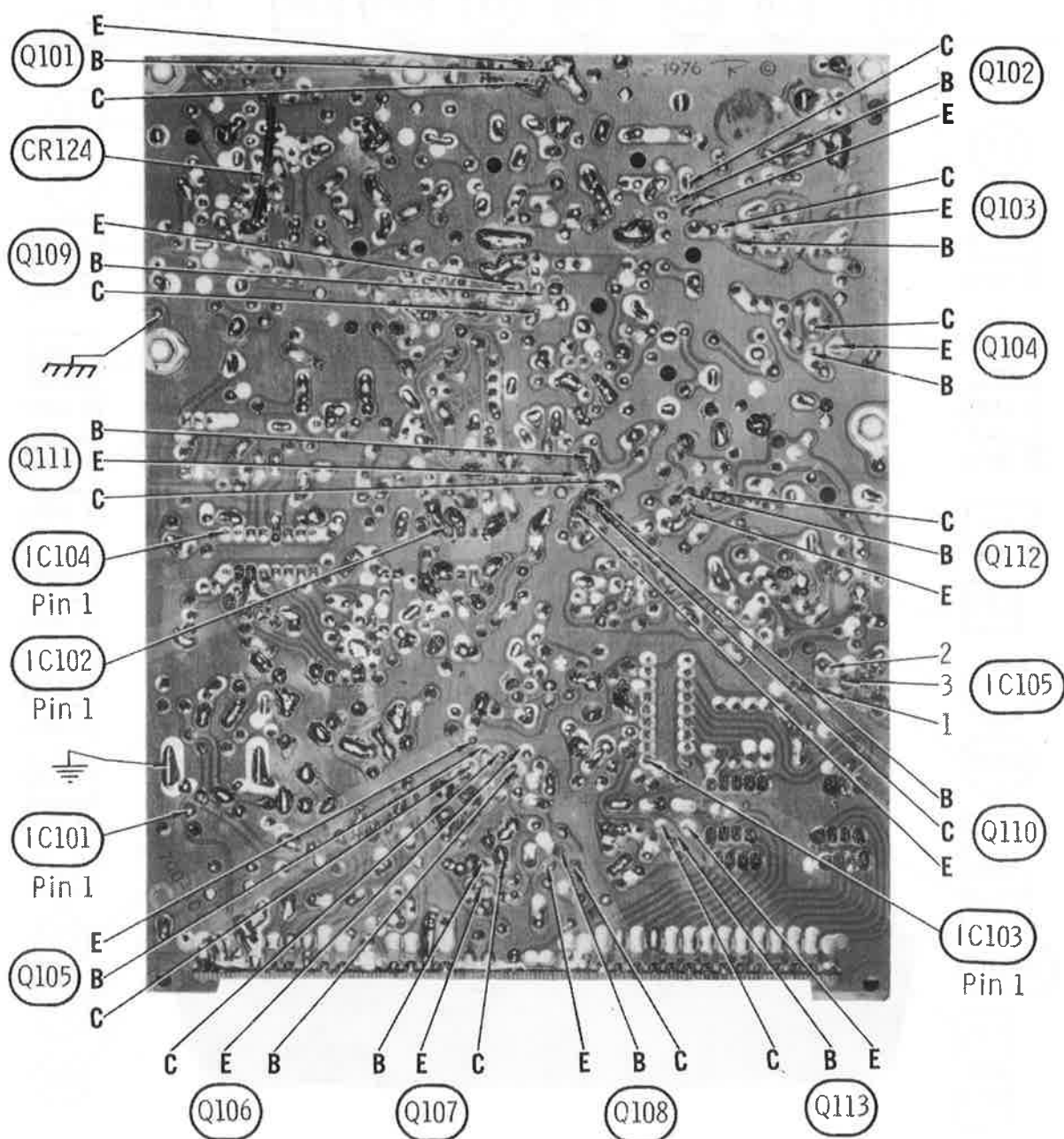
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

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

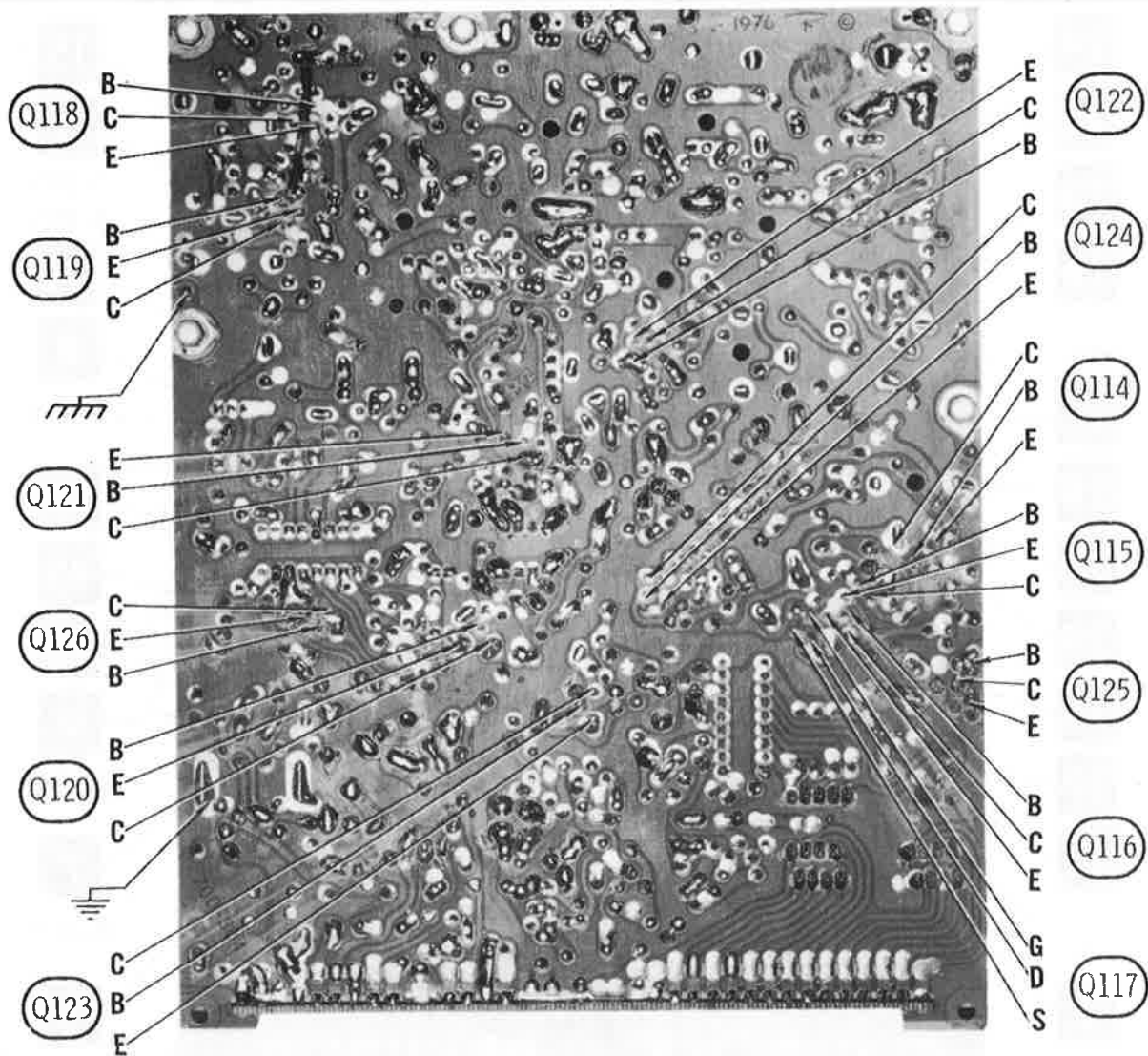
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	L115, L114, L113	Adjust for maximum.
	Ch. 1	L104	Adjust for maximum.
	Ch. 19	L103, L102, L101	Adjust for maximum.
	Ch. 19	L101	Turn core counterclockwise for 4 watts maximum.



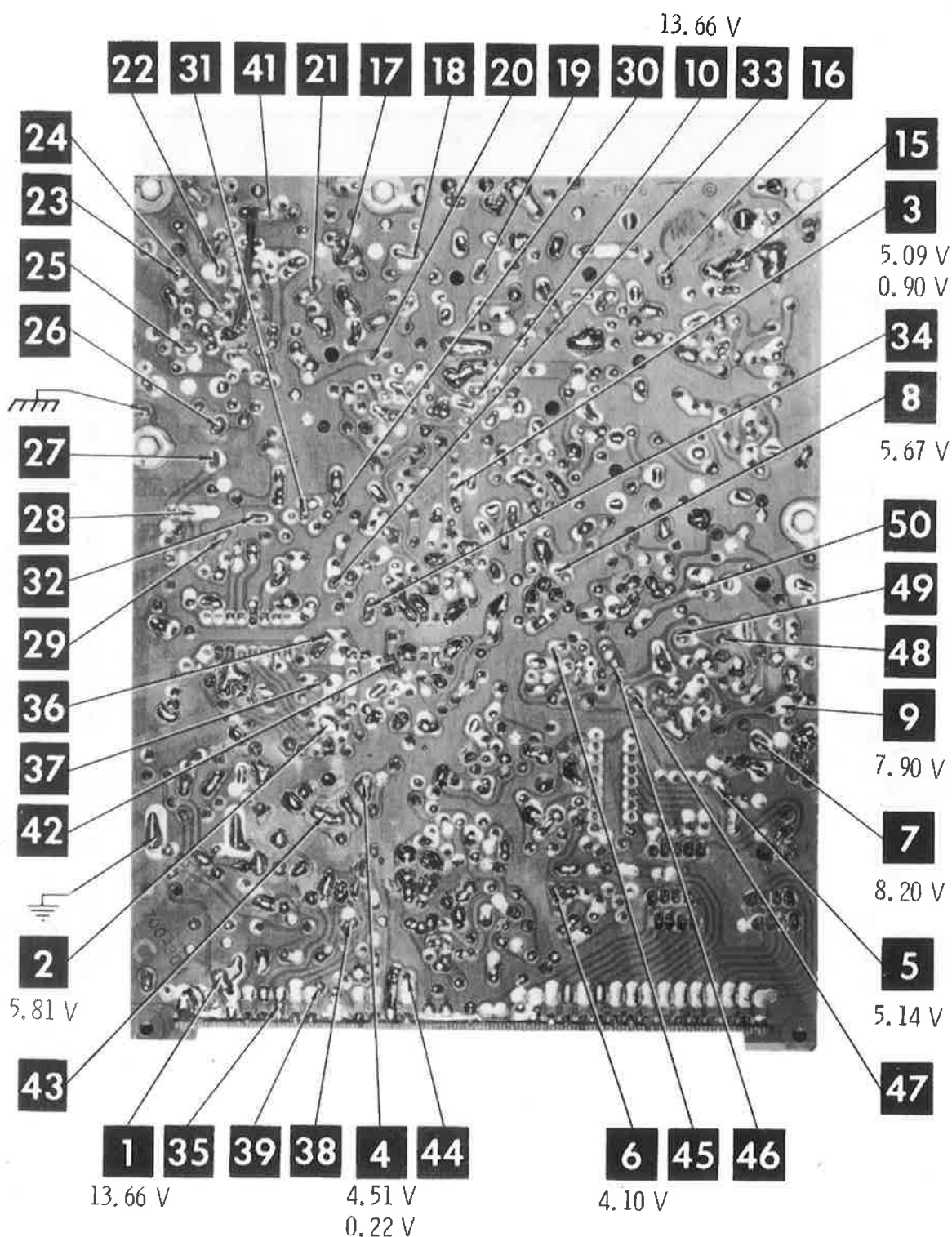
CHASSIS - BOTTOM



MAIN BOARD



MAIN BOARD

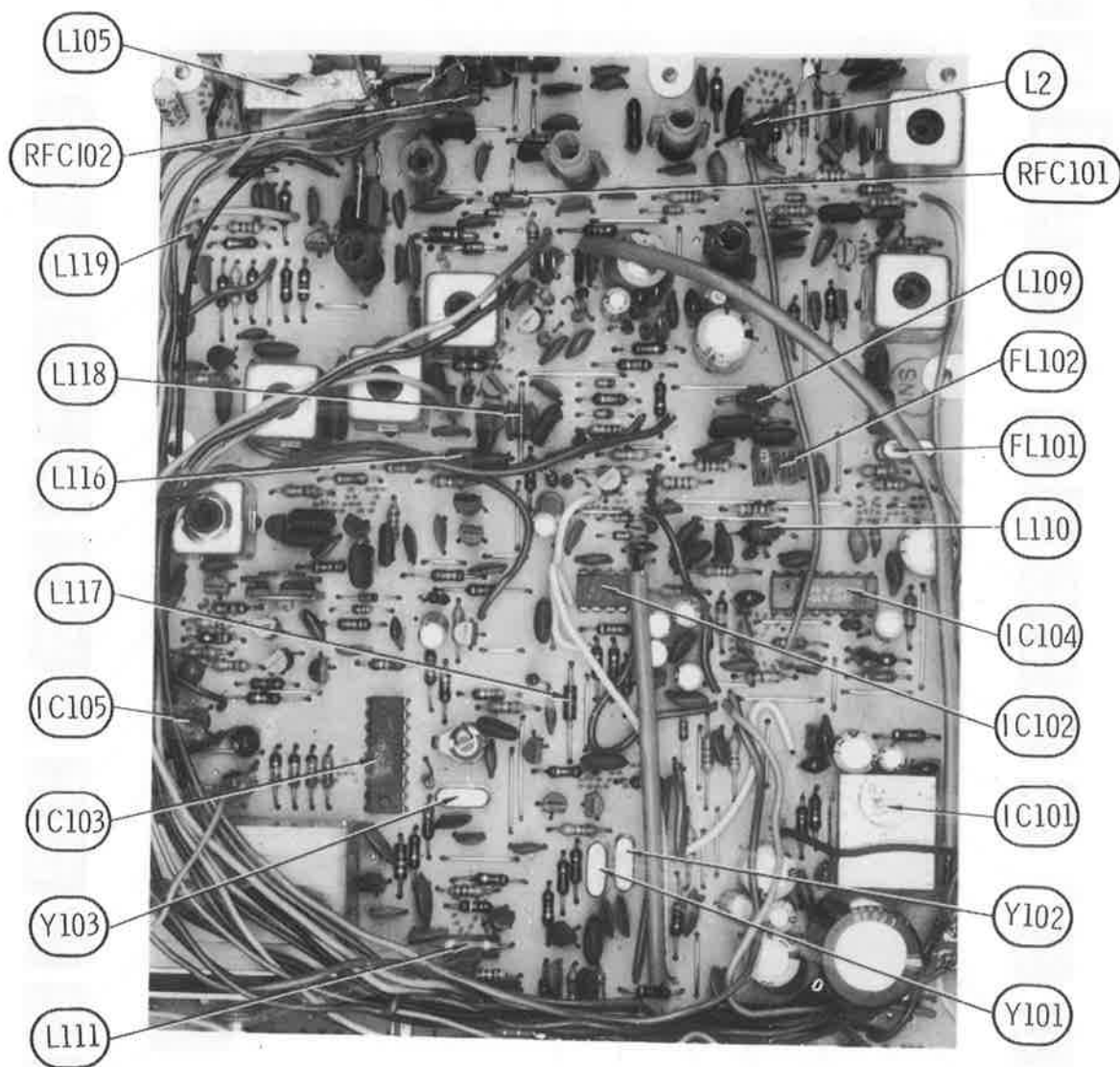


MAIN BOARD

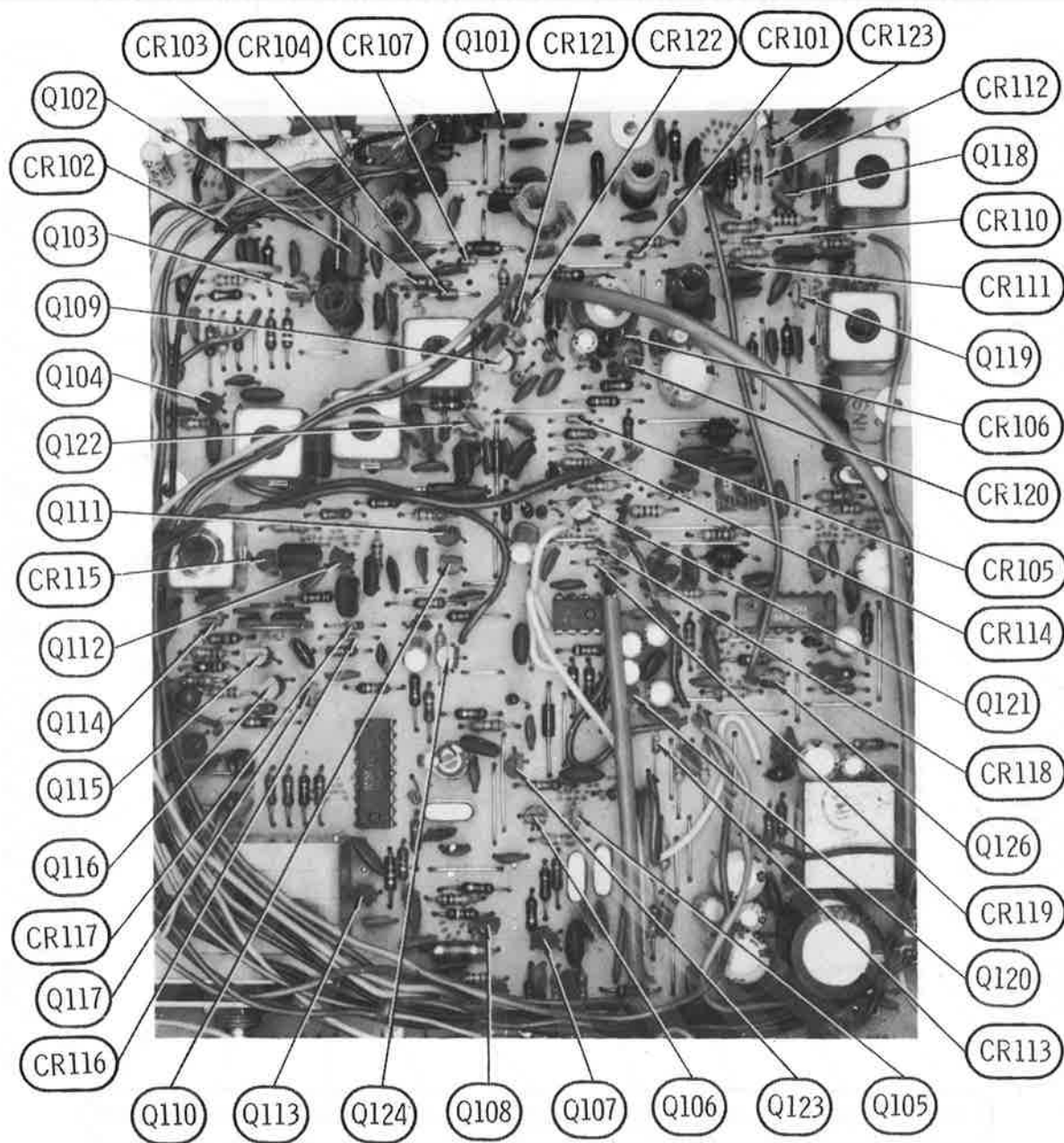


REGENCY MODEL CB-501

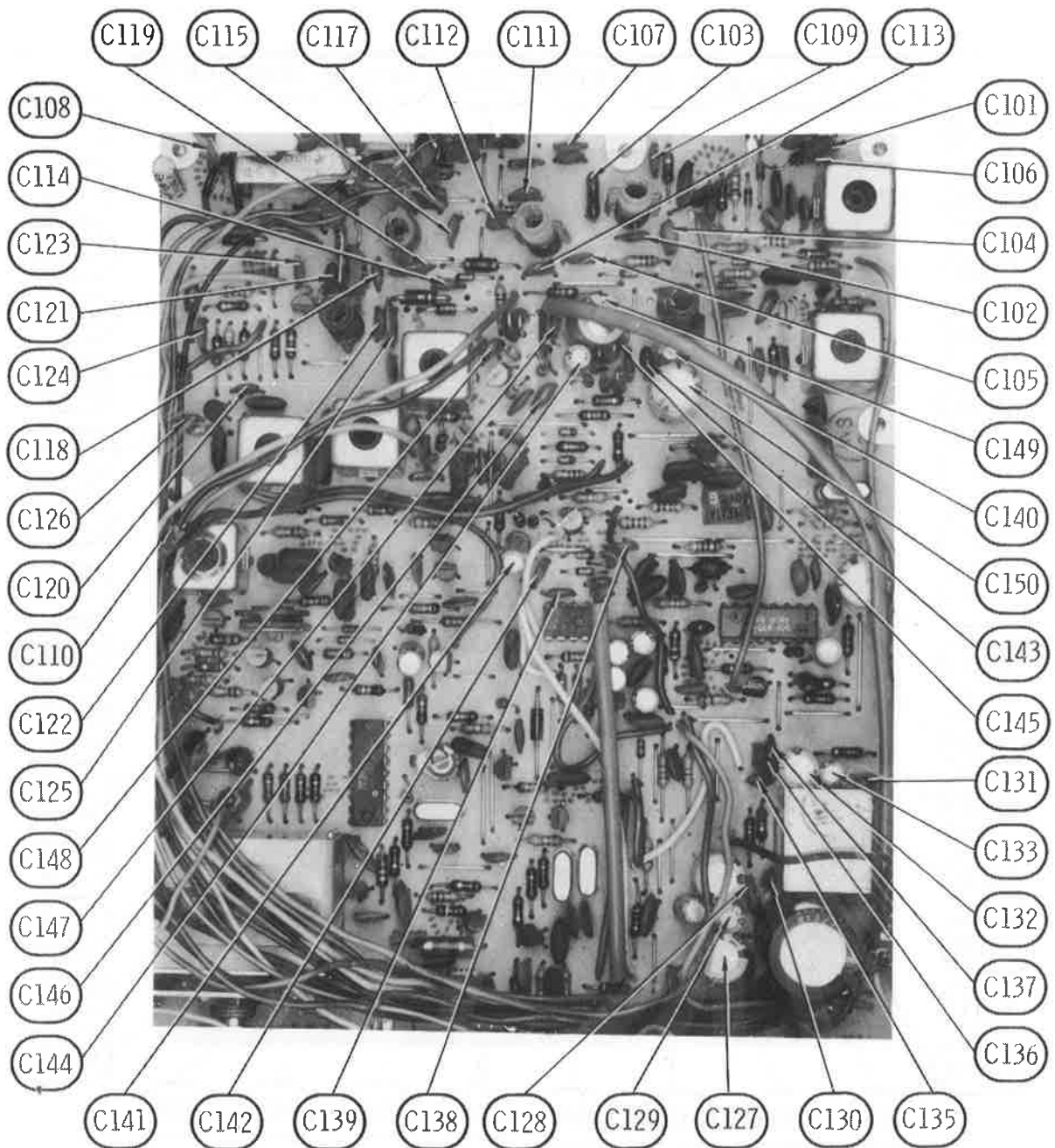
MAIN BOARD



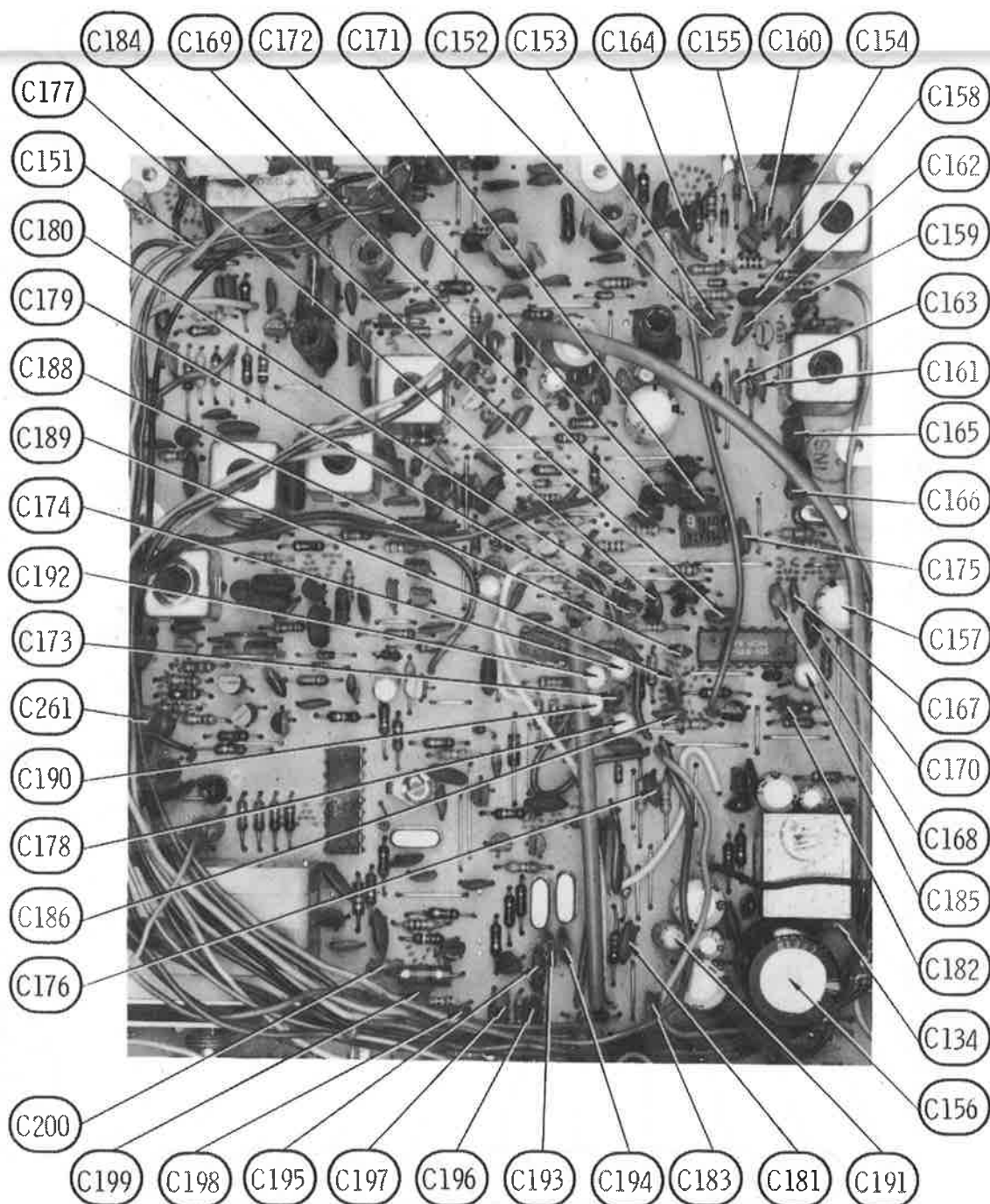
MAIN BOARD



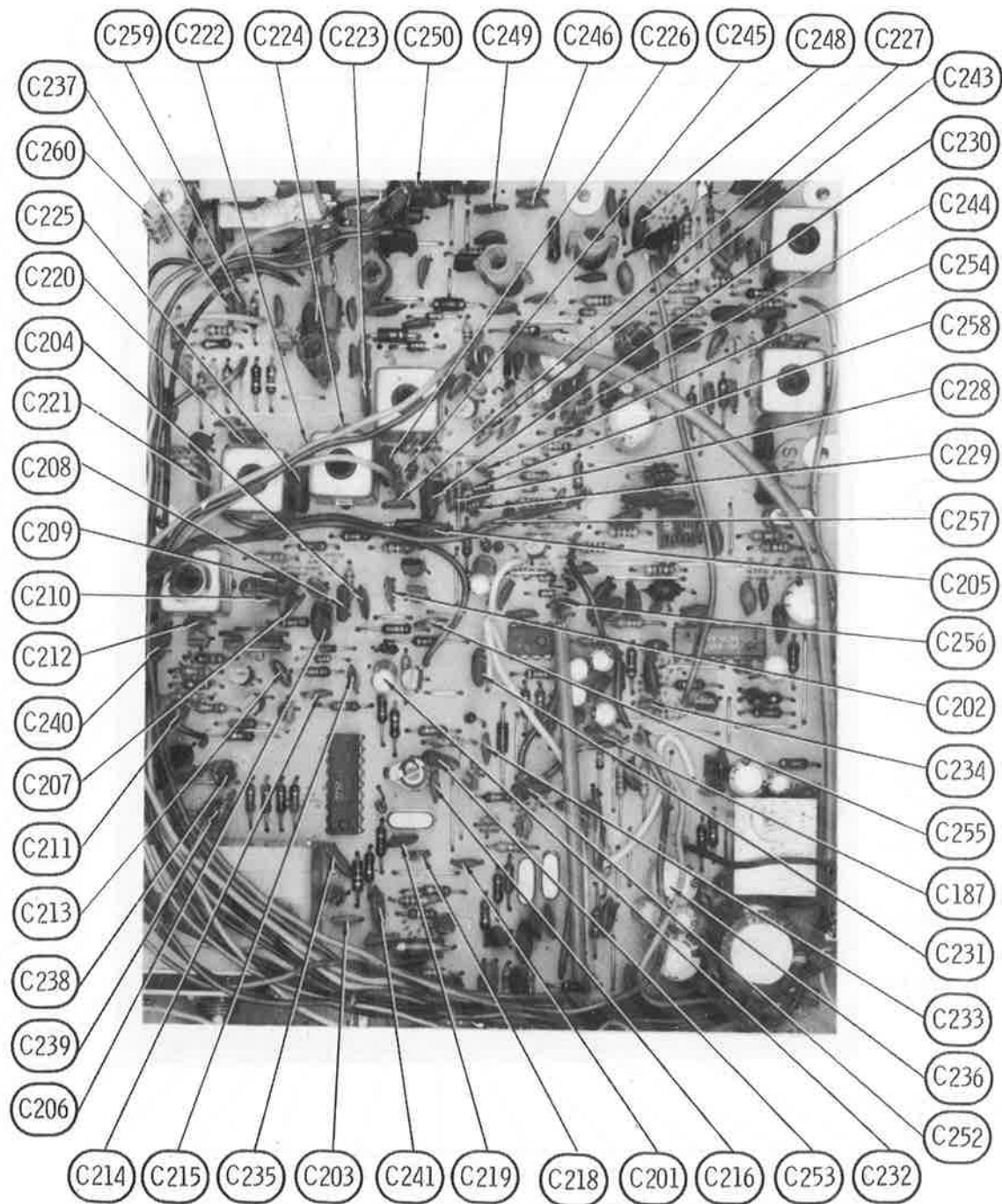
MAIN BOARD



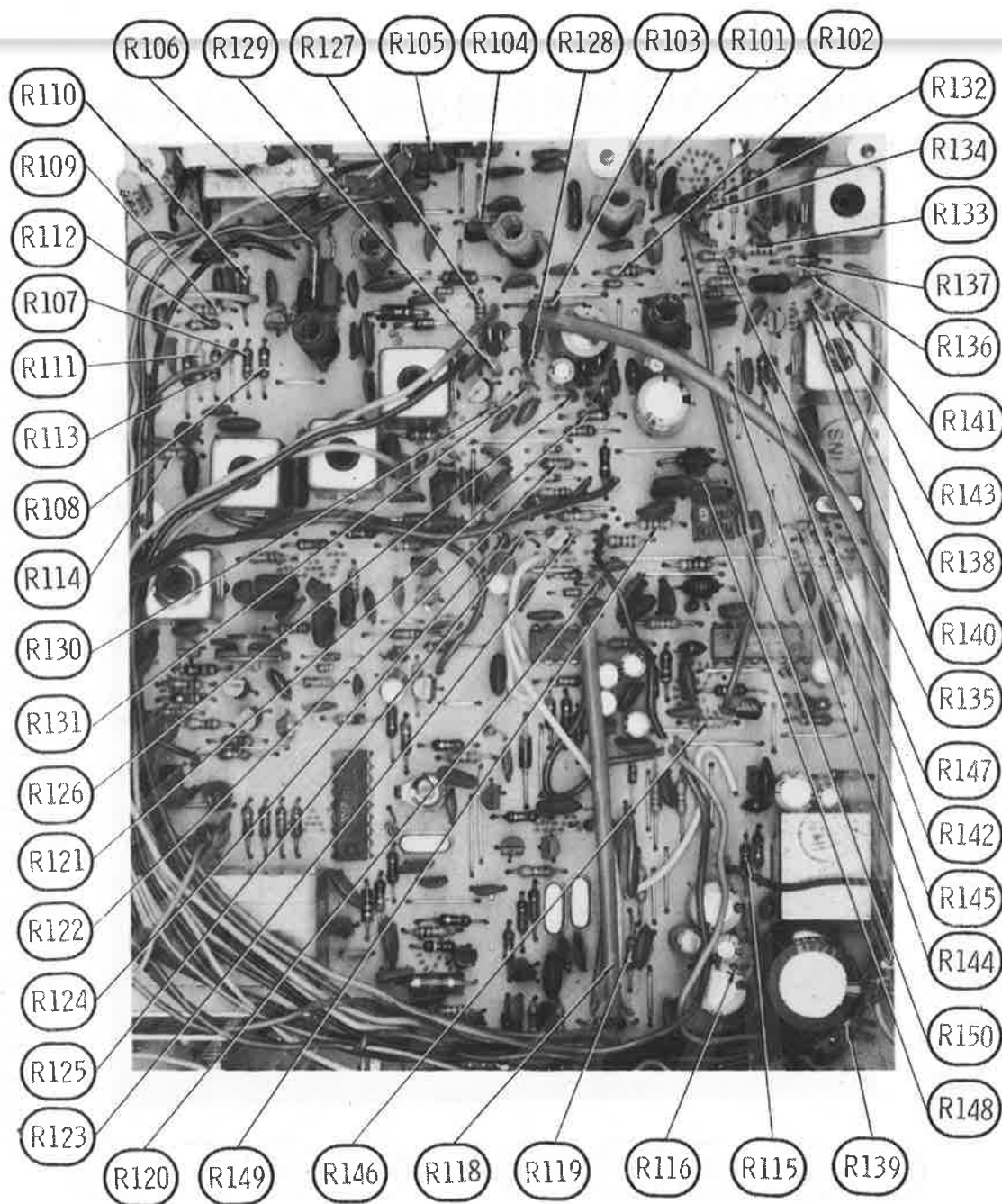
MAIN BOARD



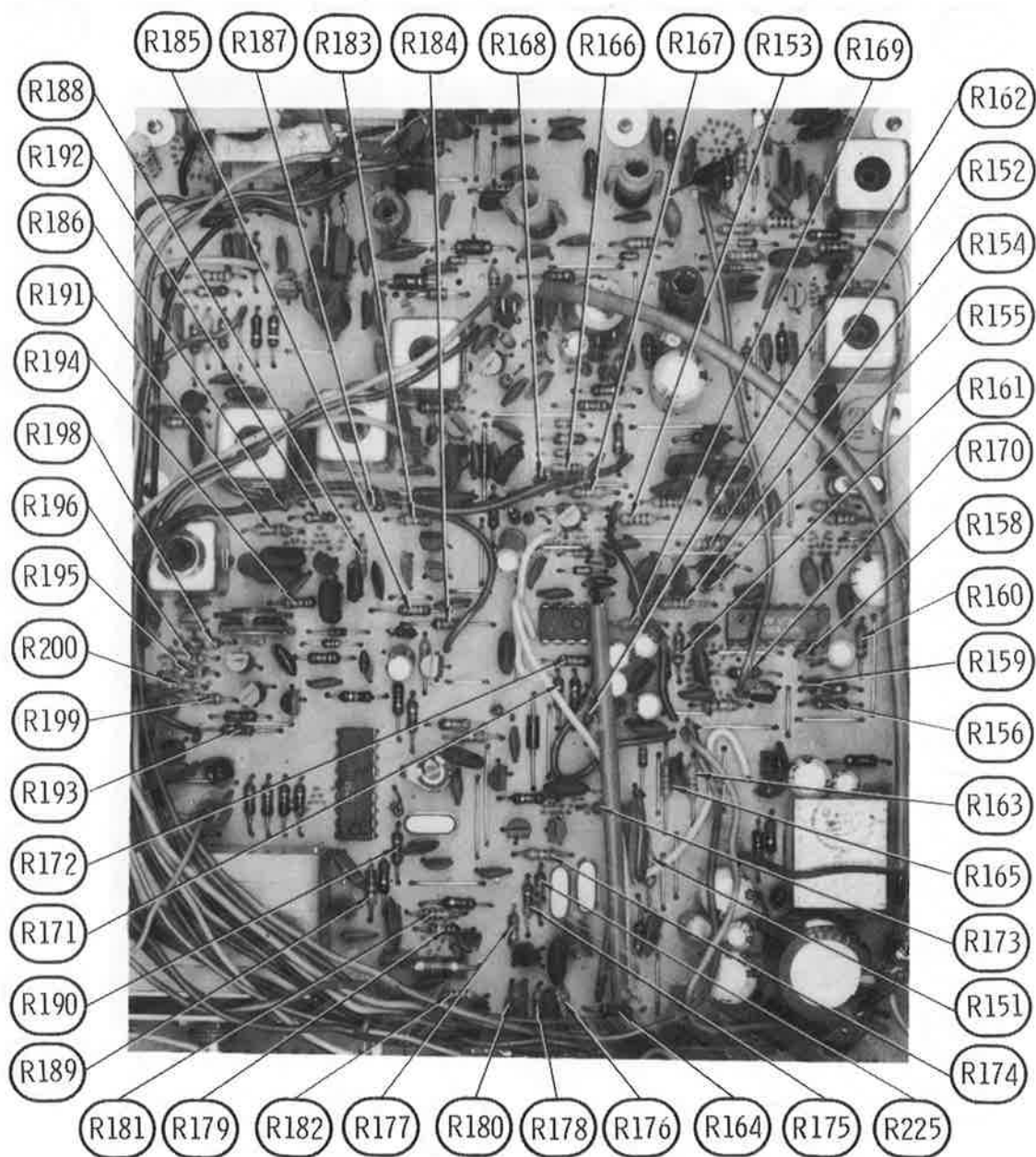
MAIN BOARD



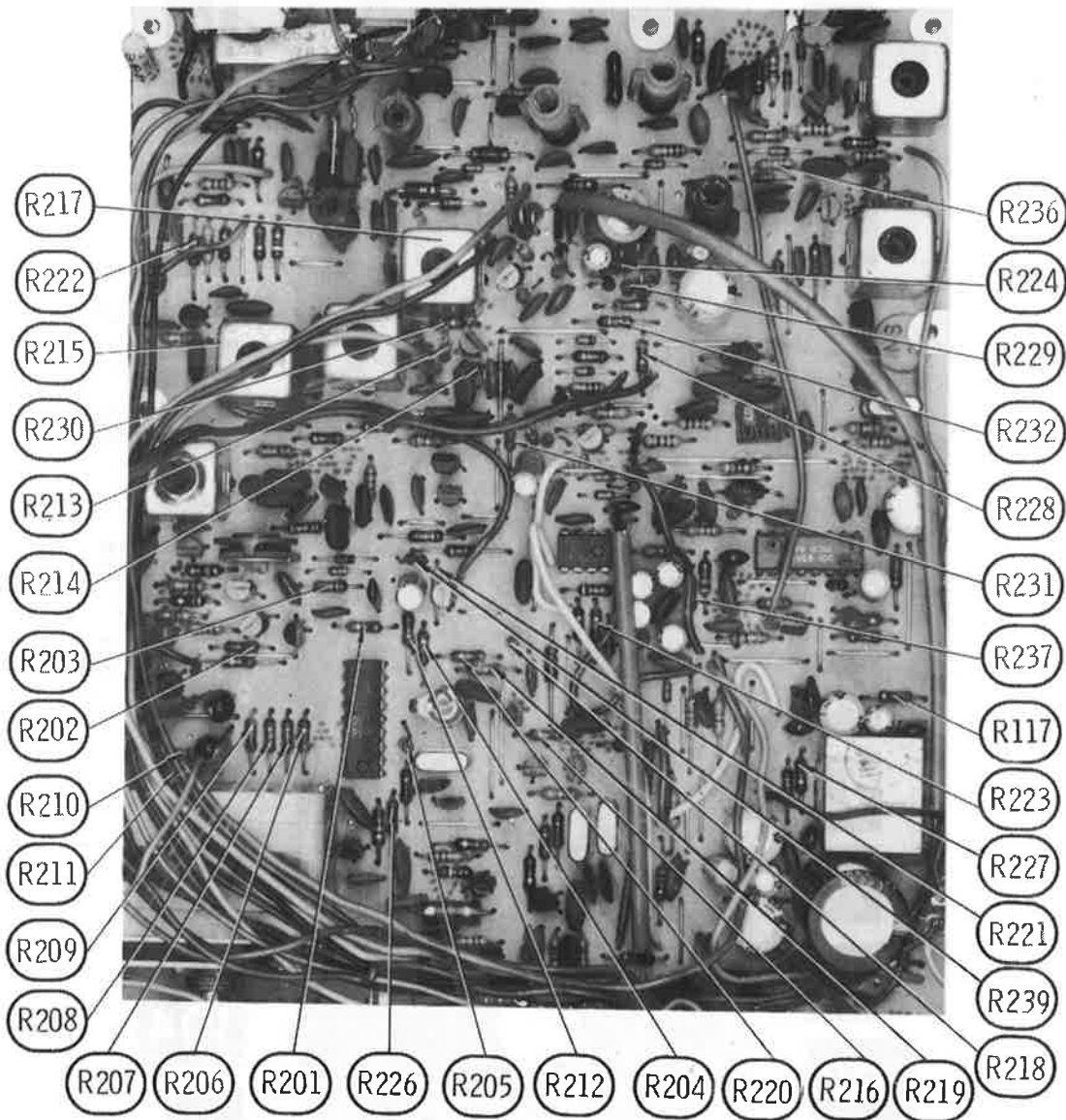
MAIN BOARD



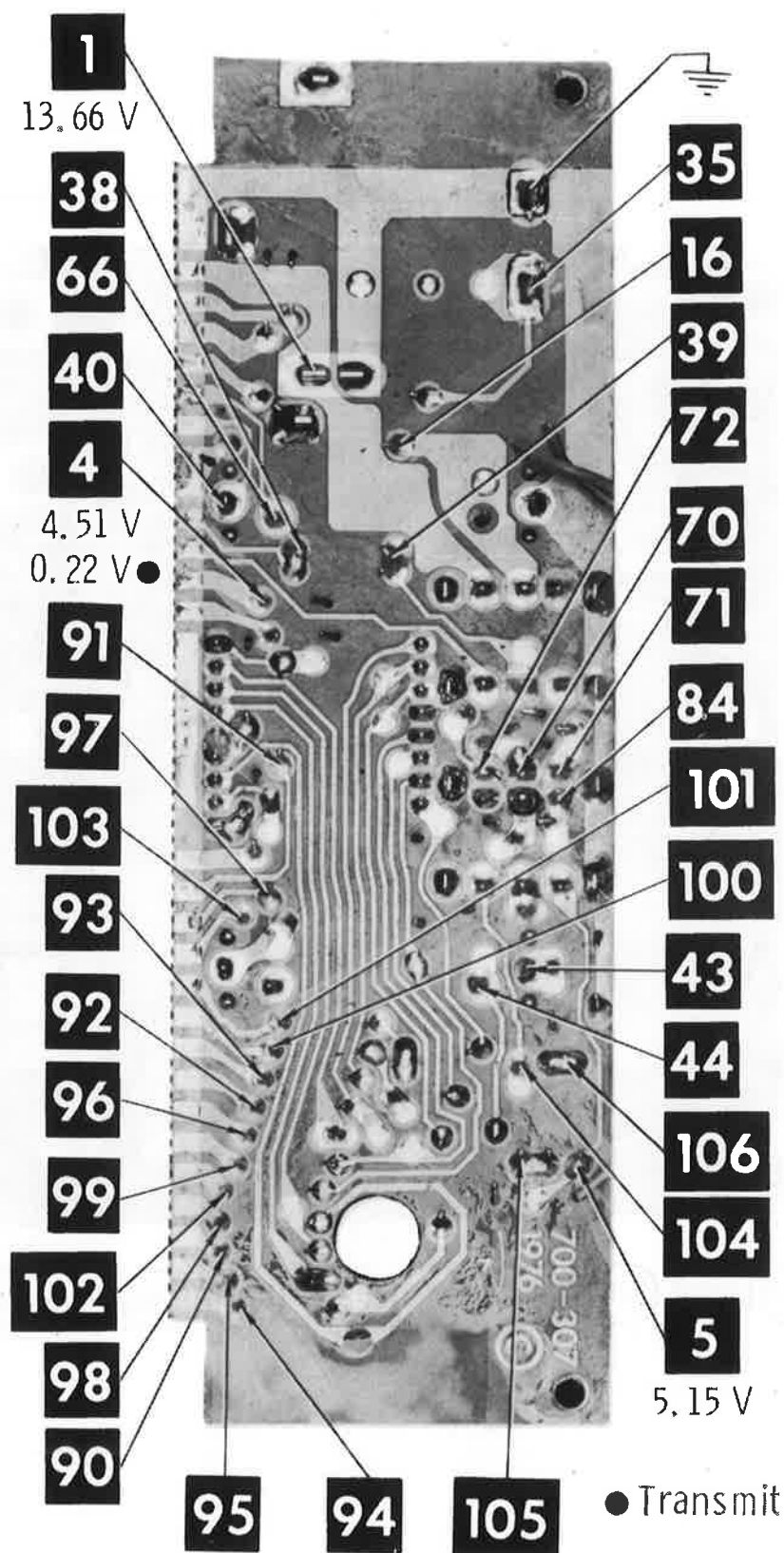
MAIN BOARD



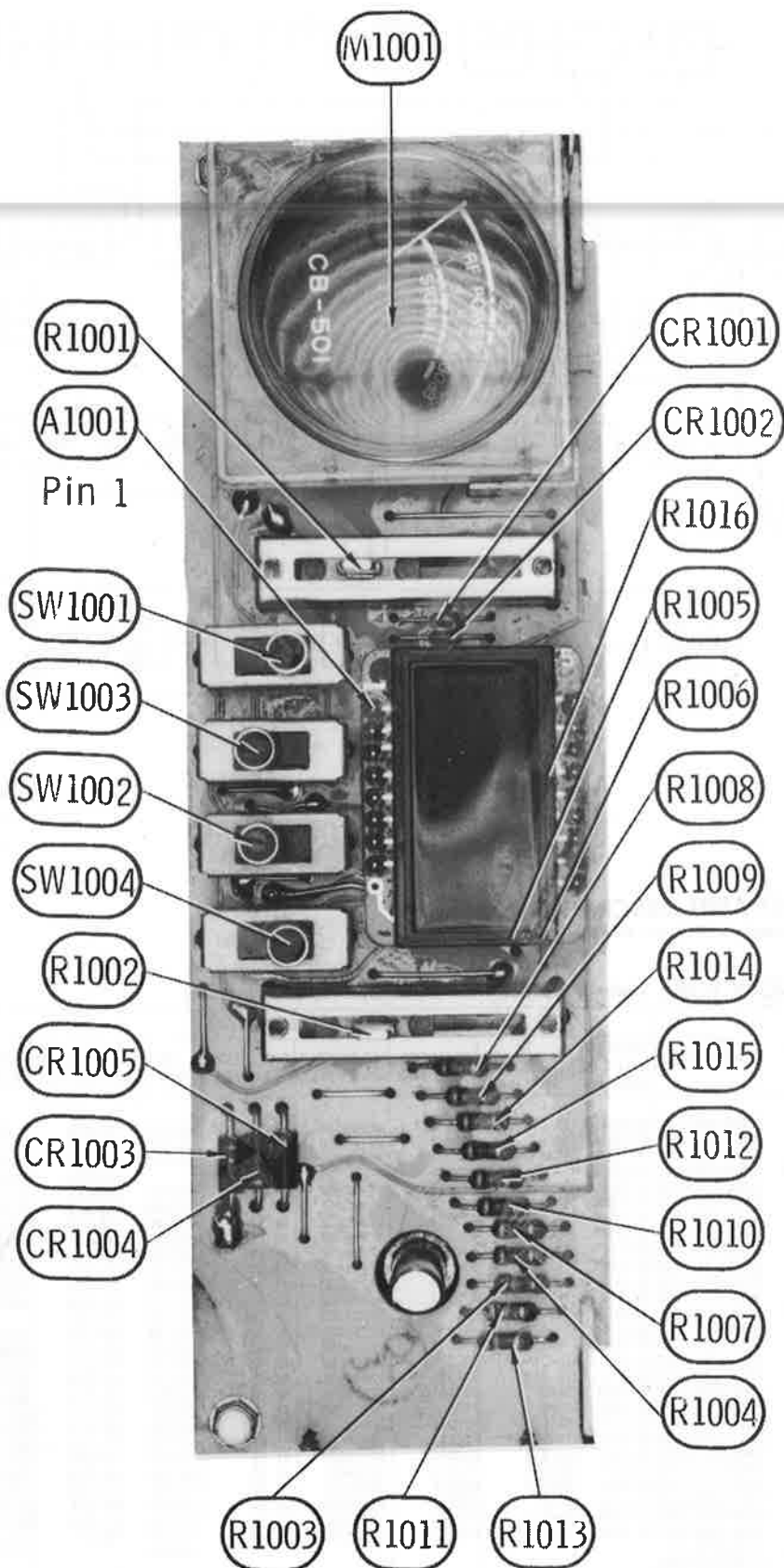
MAIN BOARD



MAIN BOARD

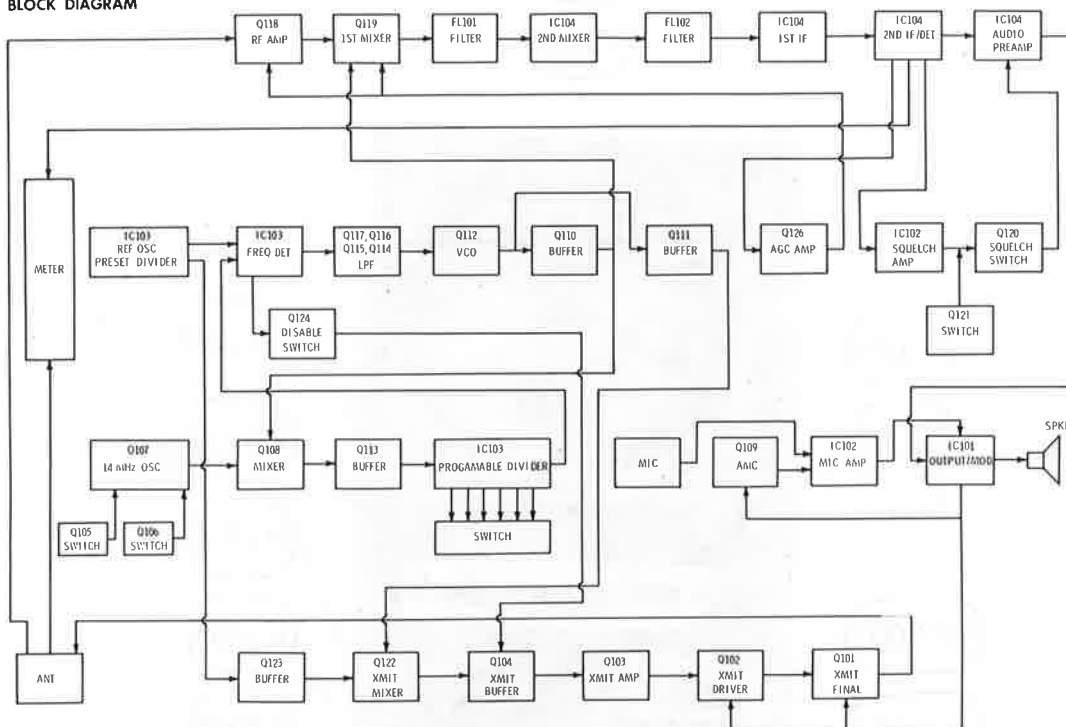


FRONT PANEL BOARD



FRONT PANEL BOARD

BLOCK DIAGRAM



PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. 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.
A1001										
CR101	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR102	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR103	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR104	1N4758A	4808-0000-037	GEZD-56		ZB56B				RT-253	ECG5090
CR105	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR106	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR107	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR110	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR111	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR112	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR113	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR114	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR115	SMV1172	4809-0000-001	GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
CR116	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR117	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR118	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR119	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR120	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR121	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR122	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR123	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR124	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR1001	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR1002	1N4148	4805-1241-200	GE-514	IR-914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CR1003	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR1004	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR1005	1N4002	4806-0000-004	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
IC101	TBA-810S	3130-3248-801						SK3184		ECG1115
IC102	LM358N	3130-3167-909								
IC103	302-681	3130-3268-100								
IC104	CA3088E	3130-3193-512								
								SK3146		ECG787

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (Select replacement transistor for best results)(cont)

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.
IC105	UA78L-8.2 AWC	3130-0000-014								
Q101	302-679-1	4804-3267-901	GE-236		PTC192		RE 212		RT-143	ECG299
Q102	302-680	4802-3268-000	GE-236		PTC192		RE 212		RT-143	ECG299
Q103	SPS-1476	4801-0000-003	GE-62 *	TR-21	PTC136	HEPS0015	RE 13	SK3018	RT-105 *	ECG123A
Q104	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115 *	HEPS0016 *	RE 13	SK3018	RT-308 *	ECG123A
Q105	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115 *	HEPS0016 *	RE 13	SK3018	RT-308 *	ECG123A
Q106	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115 *	HEPS0016 *	RE 13	SK3018	RT-308 *	ECG123A
Q107	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115 *	HEPS0016 *	RE 13	SK3018	RT-308 *	ECG123A
Q108	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115 *	HEPS0016 *	RE 13	SK3018	RT-308 *	ECG123A
Q109	SPS-1539	4801-0000-060	GE-21	TR-30	PTC103 *	HEPS0019 *	RE 26	SK3138 *	RT-106 *	ECG159
Q110	SPS-1476	4801-0000-003	GE-62 *	TR-21	PTC136	HEPS0015	RE 13	SK3018	RT-105 *	ECG123A
Q111	SPS-1476	4801-0000-003	GE-62 *	TR-21	PTC136	HEPS0015	RE 13	SK3018	RT-105 *	ECG123A
Q112	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115 *	HEPS0016 *	RE 13	SK3018	RT-308 *	ECG123A
Q113	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115 *	HEPS0016 *	RE 13	SK3018	RT-308 *	ECG123A
Q114	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115 *	HEPS0016 *	RE 13	SK3018	RT-308 *	ECG123A
Q115	SPS-1539	4801-0000-060	GE-21	TR-30	PTC103 *	HEPS0019 *	RE 26	SK3138 *	RT-106 *	ECG159
Q116	SPS-1539	4801-0000-060	GE-21	TR-30	PTC103 *	HEPS0019 *	RE 26	SK3138 *	RT-106 *	ECG159
Q117	2N5953	4811-0000-025	GE-FET-2	*FE-100	PTC161 *	HEPF0021	RE 45 *	SK3116	RT-175 *	ECG312 *
Q118	SPS-1473	4801-0000-035	GE-17 *	TR-24 *	PTC136 *	HEPS0025 *	RE 9 *	SK3018 *	RT-107 *	ECG107 *
Q119	SPS-1473	4801-0000-035	GE-17 *	TR-24 *	PTC136 *	HEPS0025 *	RE 9 *	SK3018 *	RT-107 *	ECG107 *
Q120	SPS-952-2	4801-0000-016	GE-211	TR-24 *	PTC115 *	HEPS0016 *	RE 13	SK3018 *	RT-308 *	ECG123A
Q121	SPS-1539	4801-0000-060	GE-21	TR-30	PTC103 *	HEPS0019 *	RE 26	SK3138 *	RT-106 *	ECG159
Q122	SPS-1473	4801-0000-035	GE-17 *	TR-24 *	PTC136 *	HEPS0025 *	RE 9 *	SK3018 *	RT-107 *	ECG107 *
Q123	SPS-952-2	4801-0000-016	GE-211	TR-24	PTC115	HEPS0016	RE 13	SK3018 *	RT-308	ECG123A
Q124	SPS-1539	4801-0000-060	GE-21	TR-30	PTC103 *	HEPS0019 *	RE 26	SK3138 *	RT-115 *	ECG159
Q125	SJE-649	4802-0000-002	GE-57	WEPS5003	PTC163	HEPS5000	RE 40		RT-194	ECG184
Q126	7623		GE-21 *	TR-30 *	PTC103 *	HEPS0019 *	RE 26 *	SK3138 *	RT-106 *	ECG159 *
	SPS-1539	4801-0000-060	GE-21	TR-30	PTC103 *	HEPS0019 *	RE 26	SK3138 *	RT-106 *	ECG159

* Lead Configuration may vary from original.

(1) Used in some versions.

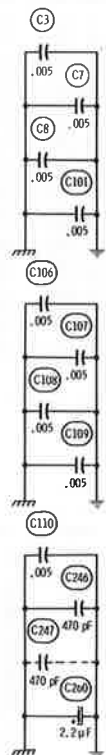
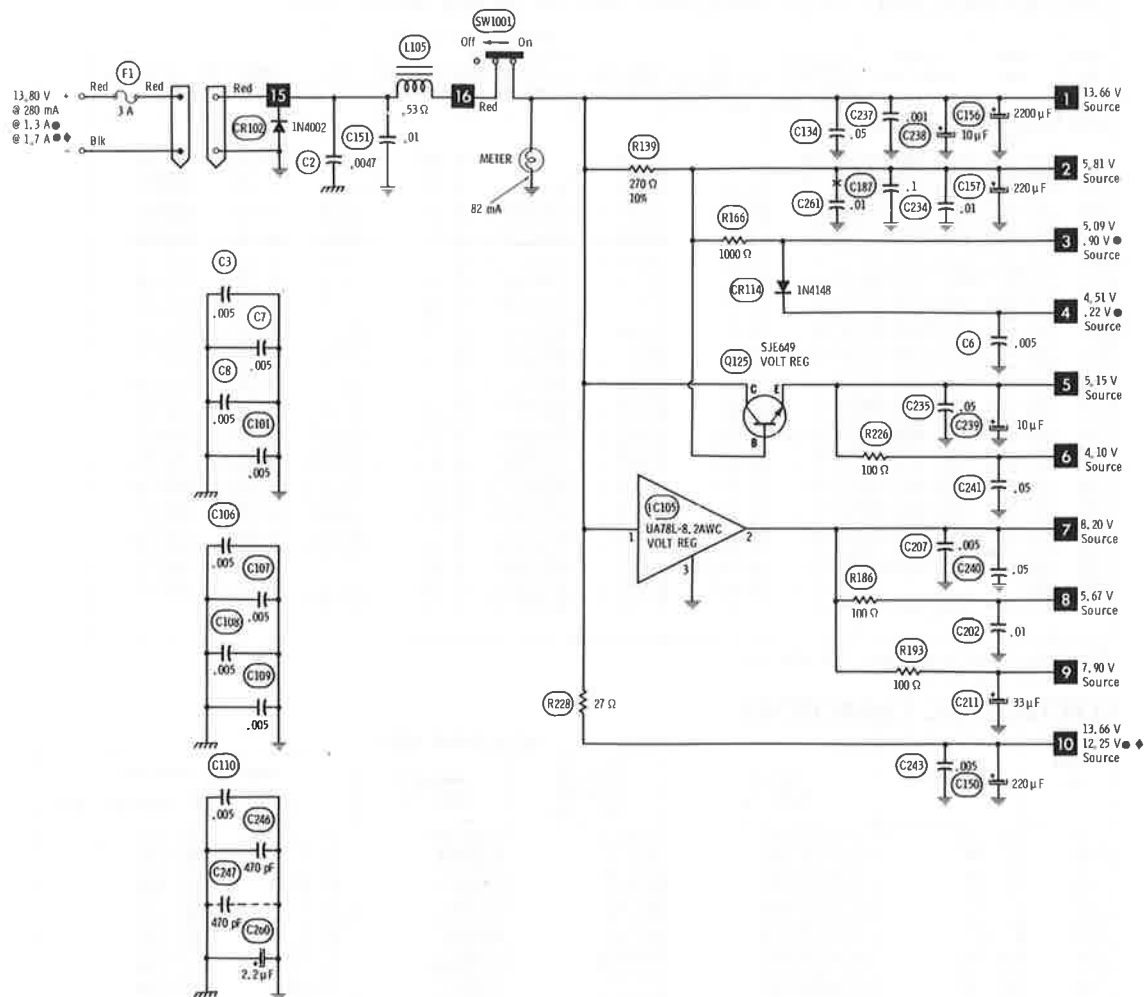
ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C127	220 16V	1513-0221-002	PC250-25	VTT220G16	QV1-117	EV-1240
C129	22 16V	1513-0220-002	PC25-25	VTT22A16	QV1-55	EV-1224
C132	47 16V	1513-0470-002	PC50-16	VTT47D16	QV1-73	EV-1226
C133	22 10V	1513-0220-001	PC25-25	VTT22A16	QV1-55	EV-1224
C140	1 50V	1513-0010-004	PC1-50	VTT1B63	QV1-11	EV-1615
C141	10 10V	1513-0100-001	PC10-25	VTT10A25	QV1-41	EV-1222
C144	1 50V	1513-0010-004	PC1-50	VTT1B63	QV1-11	EV-1615
C149	220 10V	1513-0221-001	PC250-10	VTT220F10	QV1-115	EV-1140
C150	220 16V	1513-0221-002	PC250-25	VTT220G16	QV1-117	EV-1240
C156	220 16V	1513-0222-002		TC1520C	QE1-641	TVA1134.5
C157	220 10V	1513-0221-001	PC250-10	VTT220F10	QV1-115	EV-1140
C174	1 50V	1513-0010-004	PC1-50	VTT1B63	QV1-11	EV-1615
C178	10 10V	1513-0100-001	PC10-25	VTT10A25	QV1-41	EV-1222
C185	10 10V	1513-0100-001	PC10-25	VTT10A25	QV1-41	EV-1222
C190	10 10V	1513-0100-001	PC10-25	VTT10A25	QV1-41	EV-1222
C191	10 10V	1513-0100-001	PC10-25	VTT10A25	QV1-41	EV-1222
C192	10 10V	1513-0100-001	PC10-25	VTT10A25	QV1-41	EV-1222
C211	33 15V	1515-0330-003	PC30-25	VTT33D25	QV1-63	EV-1325
C232	10 10V	1513-0100-001	PC10-25	VTT10A25	QV1-41	EV-1222
C236	100 16V	1513-0101-002	PC100-16	VTT100F16	QV1-95	EV-1230
C238	10 25V	1515-0100-005		TDC106M025FL	QDT1-64	SD25-109
C239	10 25V	1515-0100-005		TDC106M025FL	QDT1-64	SD25-109
C260	2.2 25V	1513-0228-003	PC2-100	VTT2R2A50	QV1-19	EV-1517

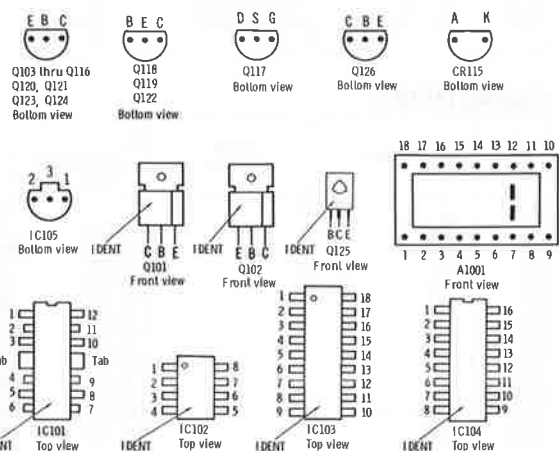
CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	100 5%			CD15FD101J03	SX310	QW1-27	MMA-101
C2	.0047		DD-472	GP4700	GP247		5GA-D47
C3	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C4	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C5	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C6	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C7	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C8	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C9	.0047		DD-472	GP4700	GP247		5GA-D47
C10	.0047		DD-472	GP4700	GP247		5GA-D47
C11	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C12	.0047		DD-472	GP4700	GP247		5GA-D47
C13	33 NPO 10%		DTZ-33	NPO33	CN0433		10TCC-Q33
C101	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C102	15 NPO 10%		DTZ-15	NPO15	CN0415		10TCC-Q15
C103	150 10%			CD15FD151J03	SX315	QW1-31	MMA-151
C104	2.2 NPO			NPO2P2	CN0522		10TCC-V22
C105	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C106	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C107	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C108	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C109	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C110	.005		DC-502	MGP005	TA250	QC2-123	TG-D50

REGENCY MODEL CB-501



Terminal Guides



—* Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

✱ Nominal value

⊥ Ground

⏏ Chassis

▽ Common tie point

Measurements with switching as shown unless noted:

■ Squelch fully on ◆ 100% modulation

● Transmit

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.

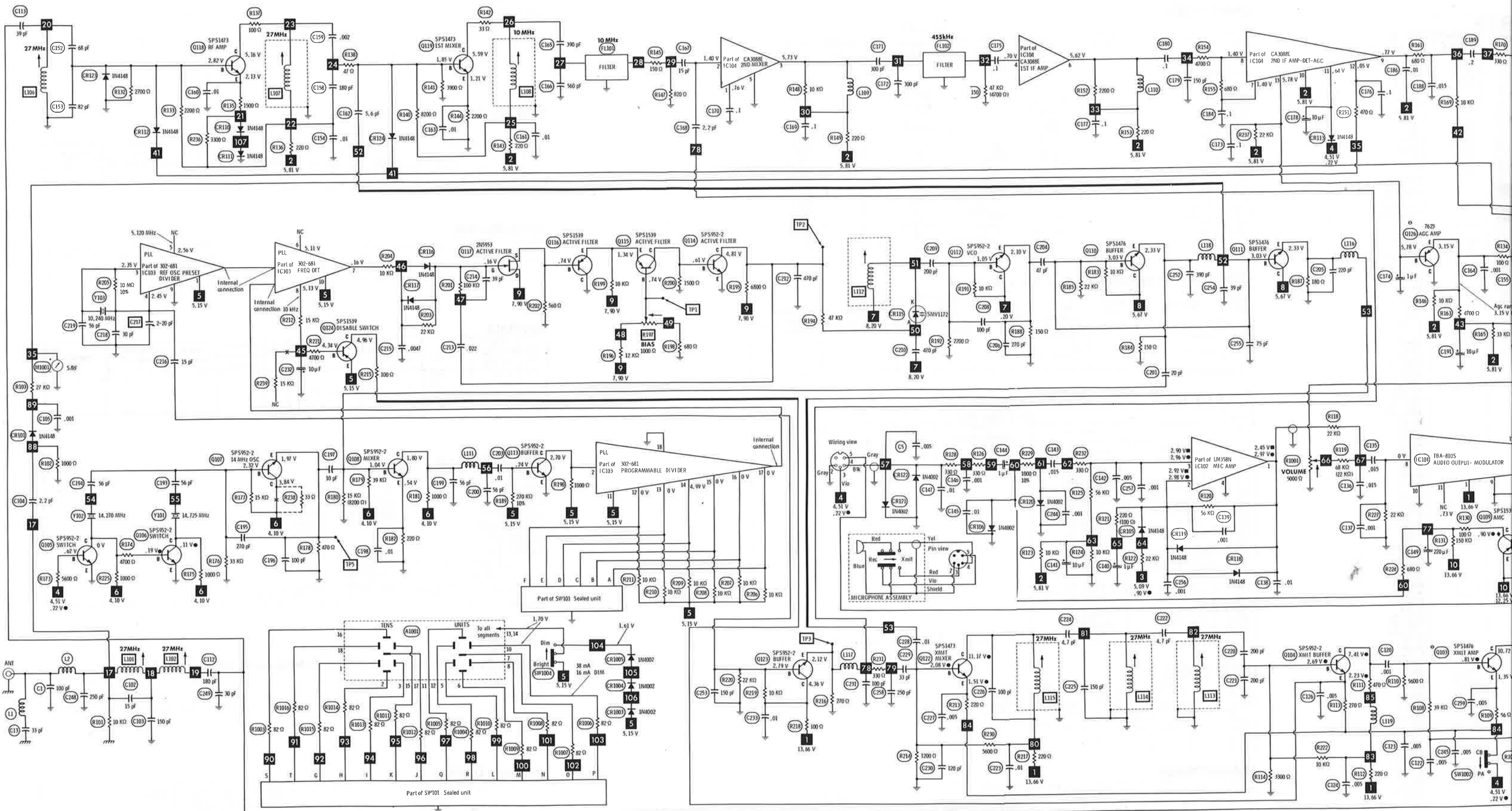
Terminal identification may not be found on unit.

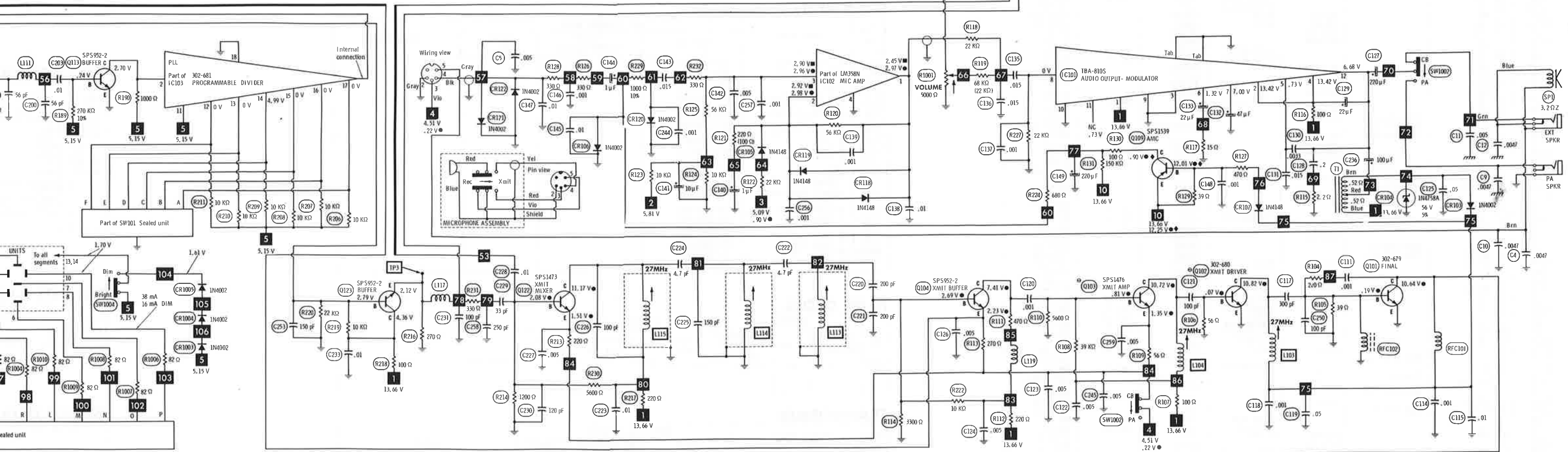
Resistors are 1/2W or less, 5% unless noted.

Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE

© Howard W. Sams & Co., Inc. 1977





PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C111	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C112	180 5%			CD15FD181J03	SX318	QW1-33	MWA-181
C113	39 5%			CD15ED390J03	SX439	QW1-17	MWA-390
C114	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C115	.01		UK25-103		MAG2511		HY-520
C117	300 5%			CD15FD301J03	SX330	QW1-38	MWA-301
C118	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C119	.05		UK50-503		MAG5015		
C120	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C121	100			CD15FD101J03	SX310	QW1-27	MWA-101
C122	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C123	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C124	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C125	.05		UK50-503		MAG5015		
C126	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C128	.2 12V	1502-0204-006	UK16-204				HY-470
C130	.0033	1508-0332-610			M192P3329R8		192P3329R8
C131	.015	1508-0153-610			M192P1539R8		192P1539R8
C134	.05		UK50-503		MAG5015		
C135	.015	1508-0153-610			M192P1539R8		192P1539R8
C136	.015	1508-0153-610			M192P1539R8		192P1539R8
C137	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C138	.01		UK25-103		MAG2511		HY-520
C139	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C142	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C143	.015	1508-0153-610			M192P1539R8		192P1539R8
C145	.01		UK25-103		MAG2511		HY-520
C146	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C147	.01		UK25-103		MAG2511		HY-520
C148	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C151	.01		UK25-103		MAG2511		HY-520
C152	68 NPO 5%		DTZ-68	NP068	CN0468		10TCC-Q68
C153	82 NPO 5%		DTZ-82	NP082	CN0482		10TCC-Q82
C154	.01		UK25-103		MAG2511		HY-520
C155	.01		UK25-103		MAG2511		HY-520
C158	180 5%			CD15FD181J03	SX318	QW1-33	MWA-181
C159	.002		DD-202	GP2000	GP220	QC2-93	5GA-D20
C160	.01		UK25-103		MAG2511		HY-520
C161	.01		UK25-103		MAG2511		HY-520
C162	5.6 NPO		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C163	.01		UK25-103		MAG2511		HY-520
C164	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C165	390 5%			CD15FD391J03	SX339	QW1-41	MWA-391
C166	560 5%			CD19FD561J03	SX356		MWC-561
C167	15 NPO		DTZ-15	NP015	CN0415		10TCC-Q15
C168	2.2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C169	.1 12V		UK12-104		MAG1201		HY-360
C170	.1 12V		UK12-104		MAG1201		HY-360
C171	300 5%			CD15FD301J03	SX330	QW1-38	MWA-301
C172	300 5%			CD15FD301J03	SX330	QW1-38	MWA-301
C173	.1 12V		UK12-104		MAG1201		HY-360
C175	.1 12V		UK12-104		MAG1201		HY-360
C176	.1 12V		UK12-104		MAG1201		HY-360
C177	.1 12V		UK12-104		MAG1201		HY-360
C179	150 5%			CD15FD151J03	SX315	QW1-31	MWA-151
C180	.1 12V		UK12-104		MAG1201		HY-360
C181	.2 12V	1502-0204-006	UK16-204				HY-470
C182	.0047	1508-0472-610			M192P4729R8		192P4729R8
C183	.2	1502-0204-006					HY-470
C184	.1 12V		UK16-204				HY-360
C186	.01		UK12-104		MAG1201		HY-520
C187	.1 12V		UK12-104		MAG1201		HY-360
C188	.015	1508-0153-610			M192P1539R8		192P1539R8
C189	.2 12V	1502-0204-006	UK16-204				HY-470
C193	56 NPO 5%	1524-0560-002			CN0456		10TCC-Q56
C194	56 NPO 5%	1524-0560-002			CN0456		10TCC-Q56
C195	270 5%			CD15FD271J03	SX327	QW1-37	MWB-271
C196	100 5%			CD15FD101J03	SX310	QW1-27	MWA-101
C197	10 NPO		DTZ-10	NP010	CN0410		10TCC-Q10
C198	.01		UK25-103		MAG2511		HY-520
C199	56 NPO 5%	1524-0560-002			CN0456		10TCC-Q56
C200	56 NPO 5%	1524-0560-002			CN0456		10TCC-Q56
C201	20 NPO 10%		DTZ-20	NP020	CN0420		10TCC-Q20
C202	.01		UK25-103		MAG2511		HY-520
C203	.01		UK25-103		MAG2511		HY-520
C204	47 NPO 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C205	220 5%			CD15FD221J03	SX322	QW1-35	MWA-221
C206	270 5%			CD15FD271J03	SX327	QW1-37	MWB-271
C207	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C208	100 5%			CD15FD101J03	SX310	QW1-27	MWA-101
C209	200 5%			CD15FD201J03	SX320	QW1-34	MWA-201
C210	470 5%			CD15FD471J03	SX347	QW1-42	MWA-471
C212	470		DD-471	GP470	GP347		10TS-T47
C213	.022	1508-0223-610			M192P2239R8		192P2239R8
C214	39 5%			CD15ED390J03	SX439	QW1-17	MWA-390
C215	.0047	1508-0472-610			M192P4729R8		192P4729R8
C216	15 NPO 10%		DTZ-15	NP015	CN0415		10TCC-Q15
C217	2-20	1517-0000-034					GKB20000
C218	30 NPO 5%		DTZ-33	NP033	CN0433		10TCC-Q33
C219	56 NPO 5%	1524-0560-002			CN0456		10TCC-Q56
C220	220 5%			CD15FD201J03	SX320	QW1-34	MWA-201
C221	200 5%			CD15FD201J03	SX320	QW1-34	MWA-201
C222	4.7 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C223	.01		UK25-103		MAG2511		HY-520
C224	4.7 NPO		DTZ-4R7		CN0547		10TCC-V47
C225	150 5%			NP04P7	SX315	QW1-31	MWA-151
C226	100 5%			CD15FD101J03	SX310	QW1-27	MWA-101
C227	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C228	.01		UK25-103		MAG2511		HY-520

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C229	33 NPO 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C230	120 5%			CD15FD121J03	SX312	QW1-29	MWA-121
C231	100 5%			CD15FD101J03	SX310	QW1-27	MWA-101
C233	.01		UK25-103		MAG2511		HY-520
C234	.01		UK25-103		MAG2511		HY-520
C235	.05 25V		UK50-503		MAG5015		
C237	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C240	.05 25V		UK50-503		MAG5015		
C241	.05 25V		UK50-503		MAG5015		
C243	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C244	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C245	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C246	470		DD-471	GP470	GP347		10TS-T47
C248	250 5%			CD15FD271J03	SX327	QW1-37	MWB-271
C249	30 NPO 5%		DTZ-33	NP033	CN0433		10TCC-Q33
C250	100 5%			CD15FD101J03	SX310	QW1-27	MWA-101
C252	390 5%			CD15FD391J03	SX339	QW1-41	MWA-391
C253	150 5%			CD15FD151J03	SX315	QW1-31	MWA-151
C254	39 5%			CD15ED390J03	SX439	QW1-17	MWA-390
C255	75 NPO 5%		DTZ-75	NP075	CN0475		10TCC-Q75
C256	.001		DD-102G	DPMS601	EWFA210	QF1-1	1PB-D10
C257	.001			GP1000	GP210	QC2-81	5GA-D10
C258	250 5%			CD15FD271J03	SX327	QW1-37	MWB-271
C259	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C261	.01		UK25-103		MAG2511		HY-520

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.	TRW PART No.
R197	Bias	1000	4751-0102-005	T-1000	C-102	MTCT13L1
R1001	Volume	5000	4752-5135-302 (5)			X201R102B
R1002	Squelch	5000	4752-5135-301 (5)			

(5) Number on unit.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (.27uH)	1802-0278-008			
L2	RF Choke (.27uH)	1802-0278-008			
L101	Final	1800-3191-401			
L102	Final	1800-3191-401			
L103	Xmit Driver (27MHz)	1800-3152-002			
L104	Xmit Amp (27MHz)	1800-3191-409			
L106	Rec Antenna (27MHz)	1800-3191-409			
L107	Rec RF (27MHz)	1800-3152-005			
L108	Rec Mixer (10MHz)	1800-3191-403			
L109	RF Choke	1803-3238-600			
L110	RF Choke	1803-3238-600			
L111	RF Choke (56uH)	1803-3267-700			
L112	VCO	1800-3191-411			
L113	Harmonic Suppressor (27MHz)	1800-3191-408			
L114	Harmonic Suppressor (27MHz)	1800-3191-407			
L115	Xmit Mixer (27MHz)	1800-3191-408			
L116	RF Choke (2.2uH)	1802-0229-003			
L117	RF Choke (2.2uH)	1802-0229-003			
L118	RF Choke (2.2uH)	1802-0229-003			
L119	RF Choke (.68uH)	1802-0688-003			
RFC101	RF Choke (.68uH)	1802-0688-003			
RFC102	RF Choke	1803-1245-900			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L105	1.7A	.530	3.53mH	1807-3263-200			

TRANSFORMER

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	.5	1		5605-5135-400			

PARTS LIST AND D

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

SPEAKER

ITEM No.	TYPE
SP1	4" PM 8 ohm

PARTS LIST AND DESCRIPTION (CONTINUED)
(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS(cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	GENERAL LINE
						Q-LINE	
QC2-81	5GA-D10		DTZ-33	NP033	CN0433		10TCC-Q33
QC2-81	5GA-D10			CD15FD121J03	SX312	QW1-29	MWA-121
QC2-81	5GA-D10			CD15FD101J03	SX310	QW1-27	MWA-101
QC2-81	5GA-D10				MAG2511		HY-520
QC2-81	5GA-D10				MAG2511		HY-520
QC2-81	5GA-D10				MAG5015	QC2-81	5GA-D10
QC2-81	5GA-D10				GP210		
QC2-81	5GA-D10				MAG5015		
QC2-81	5GA-D10				MAG5015		
QC2-81	5GA-D10				TA250	QC2-123	TG-D50
QC2-81	5GA-D10				GP210	QC2-81	5GA-D10
QC2-81	5GA-D10				TA250	QC2-123	TG-D50
QC2-81	5GA-D10				GP347		10TS-147
QC2-81	5GA-D10				SX327	QW1-37	MWB-271
QC2-81	5GA-D10				NP033		10TCC-Q33
QC2-81	5GA-D10				CD15FD101J03	QW1-27	MWA-101
QC2-81	5GA-D10				CD15FD391J03	QW1-41	MWA-391
QC2-81	5GA-D10				CD15FD151J03	QW1-31	MWA-151
QC2-81	5GA-D10				CD15ED390J03	QW1-17	MWA-390
QC2-81	5GA-D10				NP075		10TCC-Q75
QC2-81	5GA-D10				DPMS6D1	QF1-1	1PB-D10
QC2-81	5GA-D10				GP1000	QC2-81	5GA-D10
QC2-81	5GA-D10				CD15FD271J03	QW1-37	MWB-271
QC2-81	5GA-D10				TA250	QC2-123	TG-D50
QC2-81	5GA-D10				MAG2511		HY-520

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R197	Bias	1000	4751-0102-005	T-1000	C-102	MTCL3L1	X201RT02B
R1001	Volume	5000	4752-5135-302 (5)				
R1002	Squelch	5000	4752-5135-301 (5)				

(5) Number on unit.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (.27uH)	1802-0278-008			
L2	RF Choke (.27uH)	1802-0278-008			
L101	Final	1800-3191-401			
L102	Final	1800-3191-401			
L103	Xmit Driver (27MHz)	1800-3152-002			
L104	Xmit Amp (27MHz)	1800-3191-409			
L106	Rec Antenna (27MHz)	1800-3191-409			
L107	Rec RF (27MHz)	1800-3152-005			
L108	Rec Mixer (10MHz)	1800-3191-403			
L109	RF Choke	1803-3238-600			
L110	RF Choke	1803-3238-600			
L111	RF Choke (56uH)	1808-3267-700			
L112	VCO	1800-3191-411			
L113	Harmonic Suppressor (27MHz)	1800-3191-408			
L114	Harmonic Suppressor (27MHz)	1800-3191-407			
L115	Xmit Mixer (27MHz)	1800-3191-408			
L116	RF Choke (2.2uH)	1802-0229-003			
L117	RF Choke (2.2uH)	1802-0229-003			
L118	RF Choke (2.2uH)	1802-0229-003			
L119	RF Choke (.68uH)	1802-0688-003			
RFC101	RF Choke (.68uH)	1802-0688-003			
RFC102	RF Choke	1803-1245-900			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L105	1.7A	.530	3.53mH	1807-3263-200			

TRANSFORMER

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	.5	1		5605-5135-400			

PARTS LIST AND DESCRIPTION (CONTINUED)
(When ordering parts, state Model, Part Number, and Description.)

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	4" PM 8 ohm		4A1Z8	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	3A			AGC3	HDJ	312003	150145

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFR. 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	1300-6049-001	18-032	18-034	18-010	18-099	4	2	3	5	NC	2

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.	CTS KNIGHTS PART No.	CHANNEL
Y101	14.725	2335-3266-402	CA32W14.725	LOC. OSC. XMIT	Y103	10.240	2301-3151-606	CB32W10.240	REF. OSC.
Y102	14.270	2335-3266-401	CA32W14.270	LOC. OSC. REC.					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FL101	Xtal Filter	2705-3262-900	(10MHz)
FL102	Ceramic Filter	2700-3262-800	(CFU455)
M1001	Meter	2950-5136-100	S/RF
SW101	Switch	5111-5138-800	Channel Select
SW1001	Switch		On/Off
SW1002	Switch		PA/CB
SW1003	Switch		ANL
SW1004	Switch		Dim
	Connector Assembly	7011-1177-600	Power
	Bracket	1400-3214-200	Mobile Mount
	Power Cord Assembly	7011-1177-600	
	Printed Circuit Board	1700-7030-400	Main
	Printed Circuit Board	7011-1176-700	Display Assembly

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

ITEM	PART No.	ITEM	PART No.
Escutcheon Knob, Control	1411-7030-200 2402-5136-600	Knob, Channel Selector	2402-5136-800

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene