



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.



XTAL MODEL XCB-11

MODEL XCB-11

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:
L3 thru L7, L13, L15 8728
L1, L2, L8, L10, L11, L12 9440

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Inputs of frequency counter and RF VTVM to L8 secondary.	Ch. 13	L8	Adjust for 37.750MHz at maximum.
Input of frequency counter to L8 secondary.	Ch. 17 Ch. 21 Ch. 1 Ch. 5 Ch. 9		Check for 37.800MHz Check for 37.850MHz Check for 37.600MHz Check for 37.650MHz Check for 37.700MHz
Input of frequency counter to Q6 emitter.	Ch. 13 Ch. 14 Ch. 15 Ch. 16		Check for 10.180MHz Check for 10.170MHz Check for 10.160MHz Check for 10.140MHz
Input of frequency counter to Q17 emitter.	Ch. 13, Xmit Ch. 14, Xmit Ch. 15, Xmit Ch. 16, Xmit		Disconnect C405. Check for 10.635MHz Check for 10.625MHz Check for 10.615MHz Check for 10.595MHz Reconnect C405.

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 Q3 base. 455kHz, 1000Hz @ 30% modulation.	Ch. 13	L7, L6, L5	Adjust for maximum.
Output of signal generator thru .01uF to Q2 base. 10.6MHz, 1000Hz @ 30% modulation.	Ch. 13	L4, L3	Adjust for maximum.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 13	L2, L1	Adjust for maximum. Repeat above steps if necessary.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 200uV.	Ch. 13	RT2	<u>SQUELCH RANGE</u> Set squelch control VR2 fully clockwise. Adjust RT2 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 13	RT1	<u>S METER</u> Adjust RT1 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.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 13	L10, L11, L12, L13, L15	Adjust for maximum.
	Ch. 13	L15, L13	Adjust for 4 watts maximum.

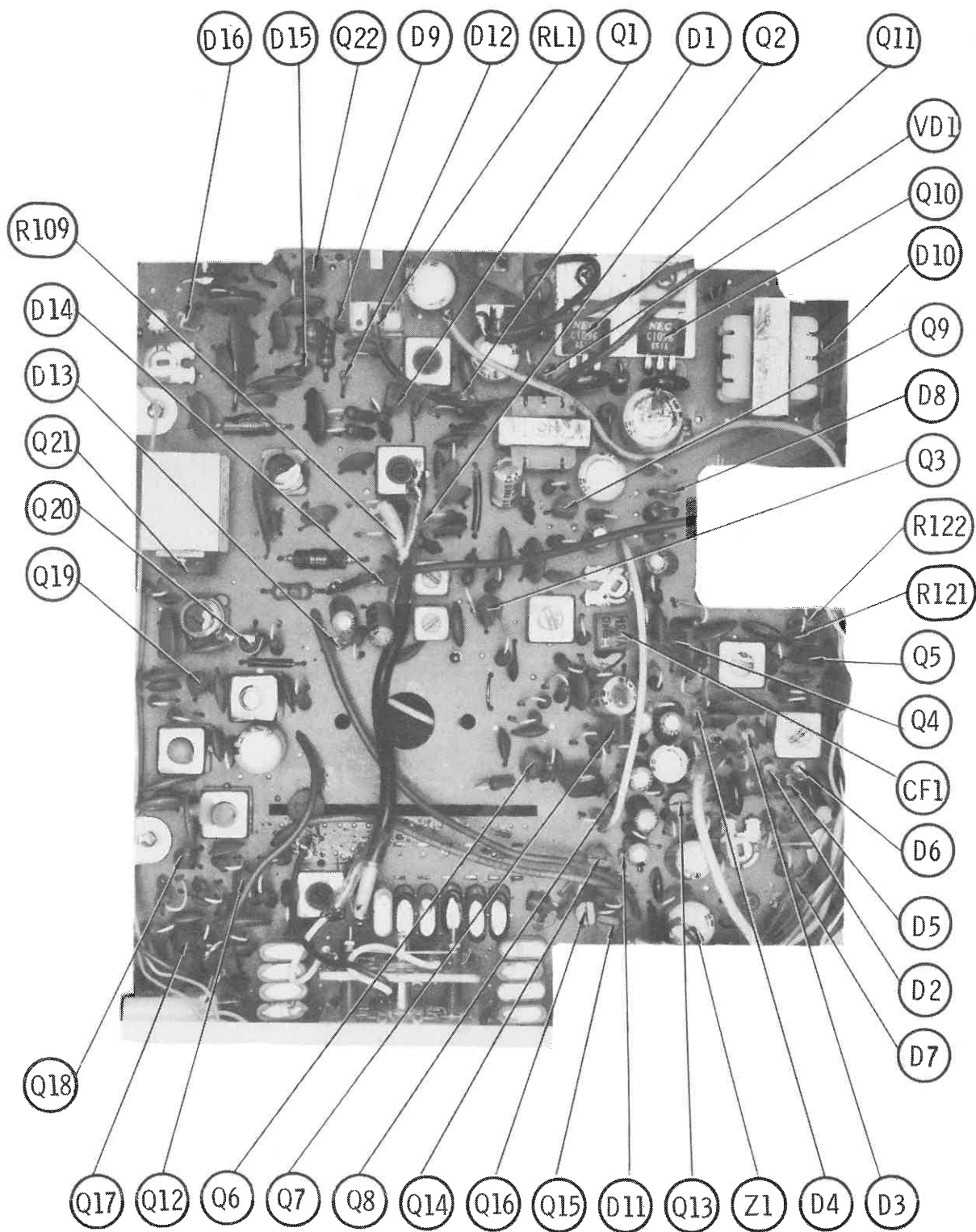
TRANSMITTER ADJUSTMENTS

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

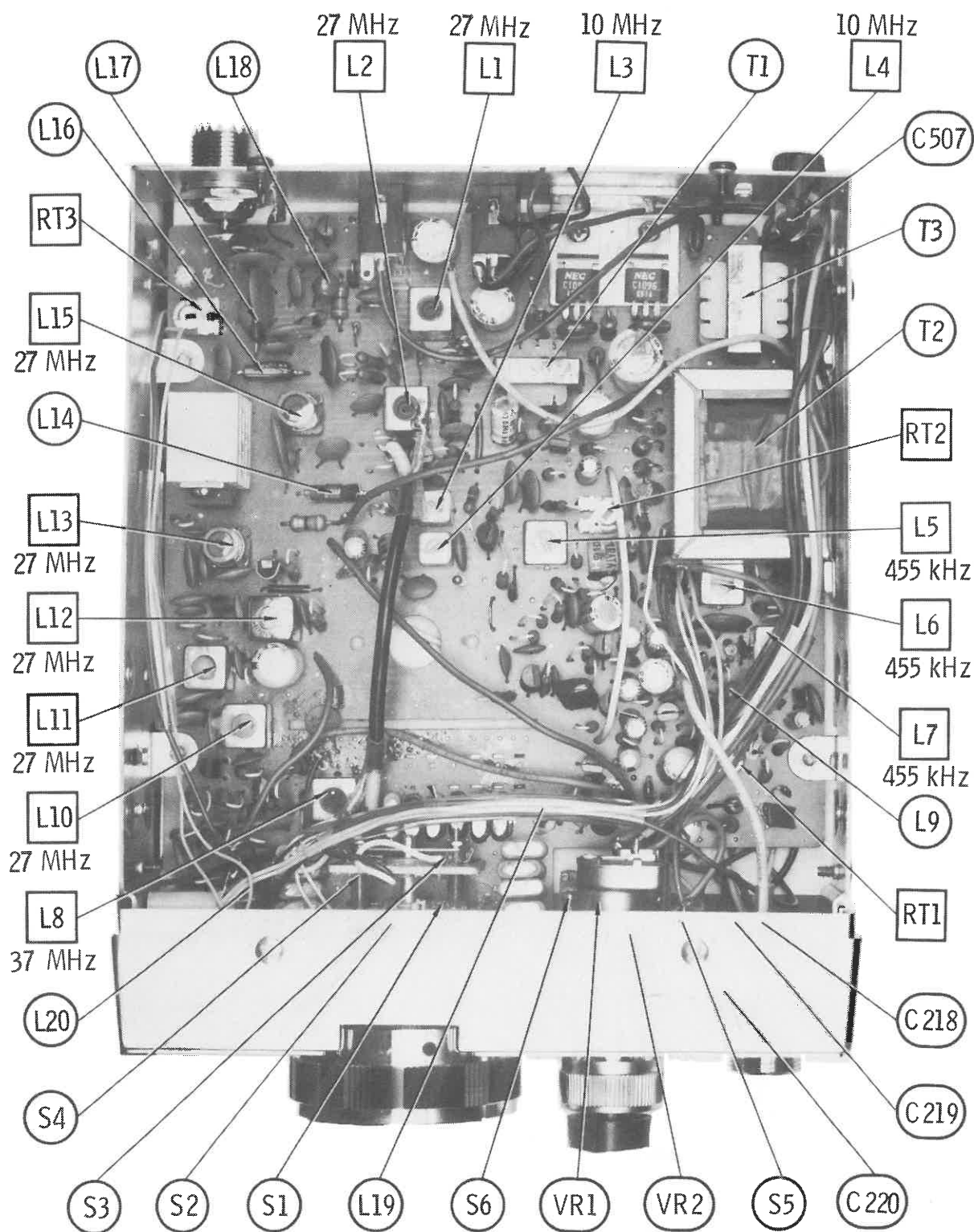
NOTE: Be sure to check transmit frequency and power on all active channels after adjustments of transmitter.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 13	RT3	<u>RF PANEL METER</u> Adjust RT3 so that RF panel meter agrees with RF wattmeter

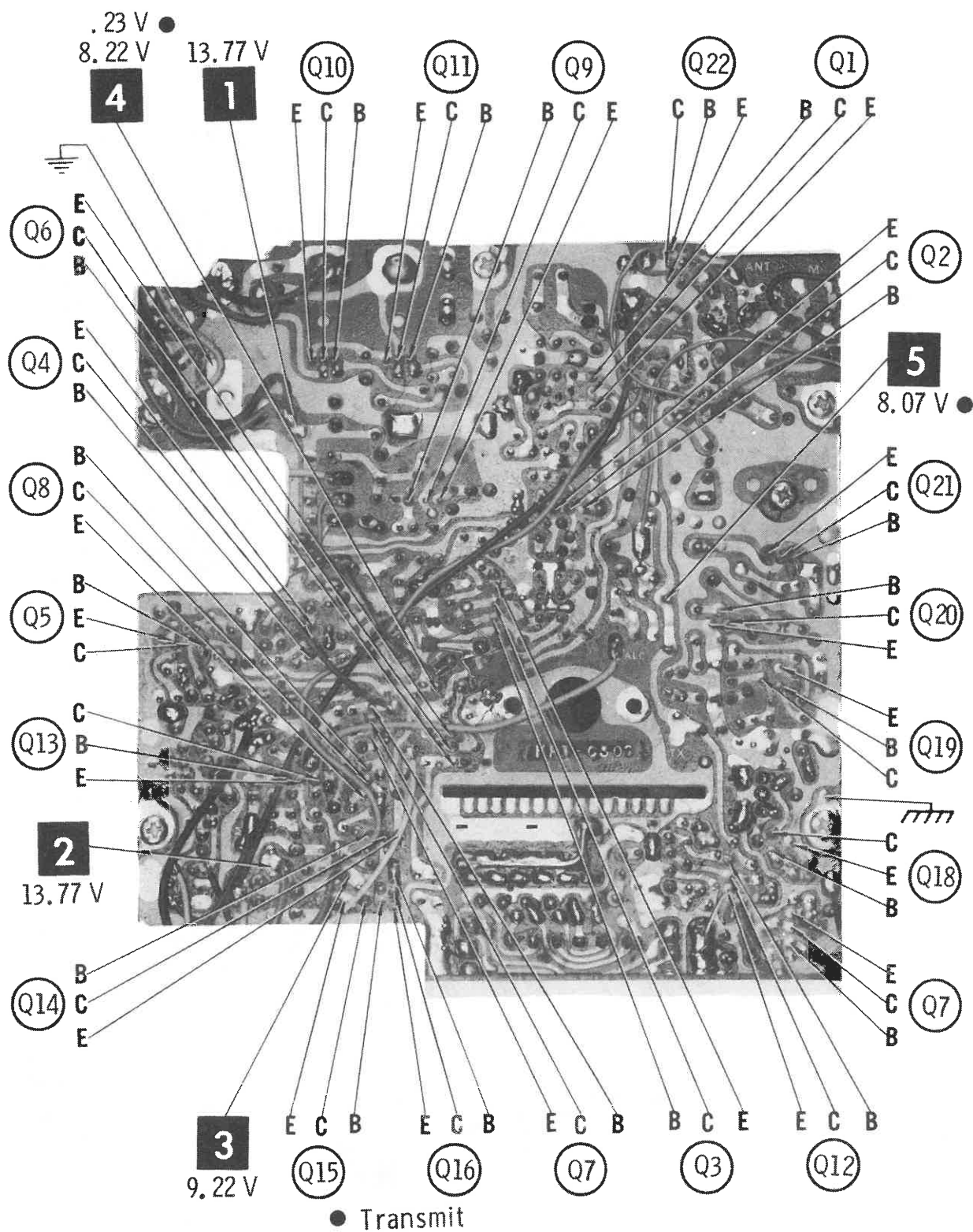
XTAL MODEL XCB-11



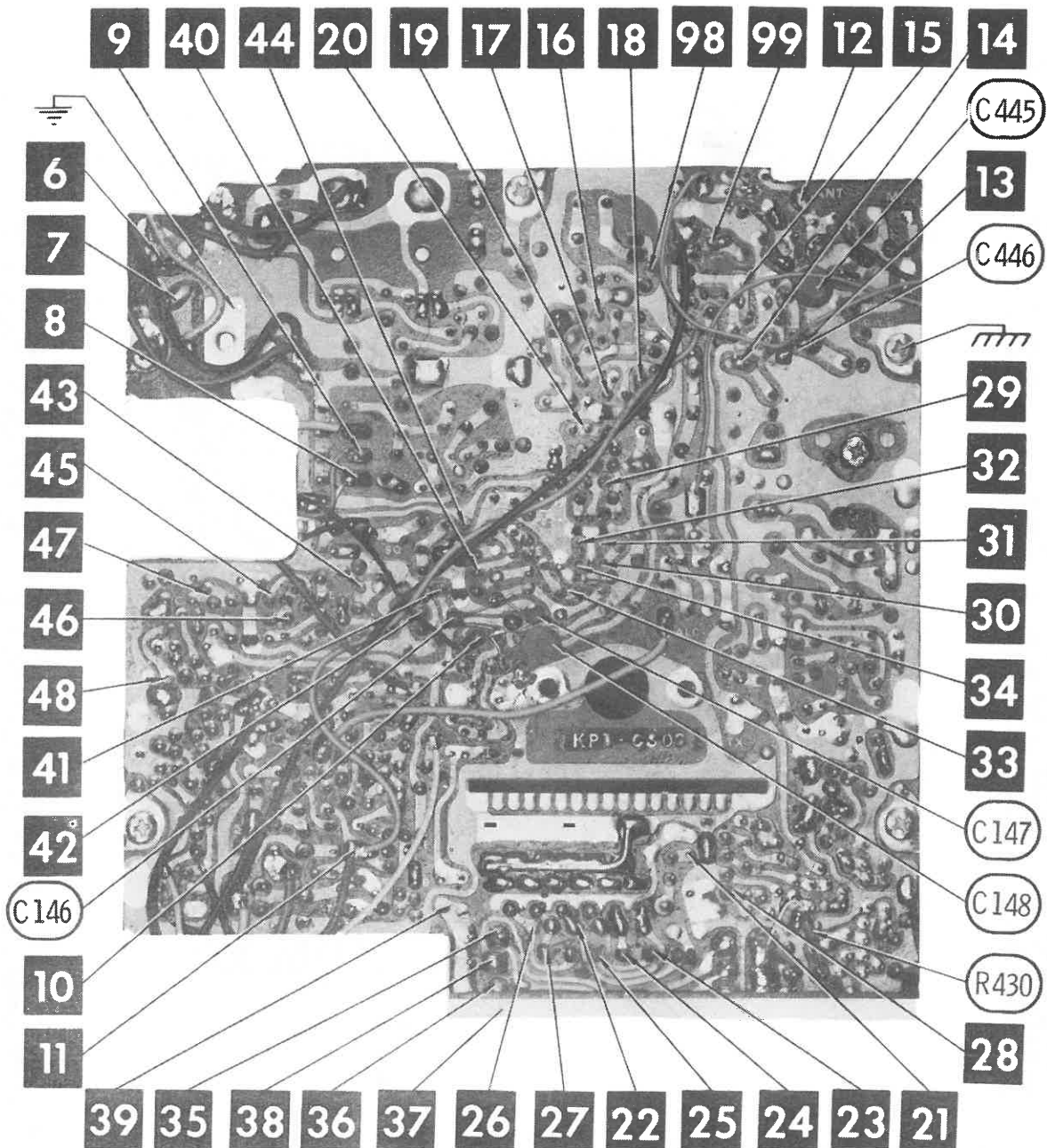
MAIN BOARD



CHASSIS-BOTTOM

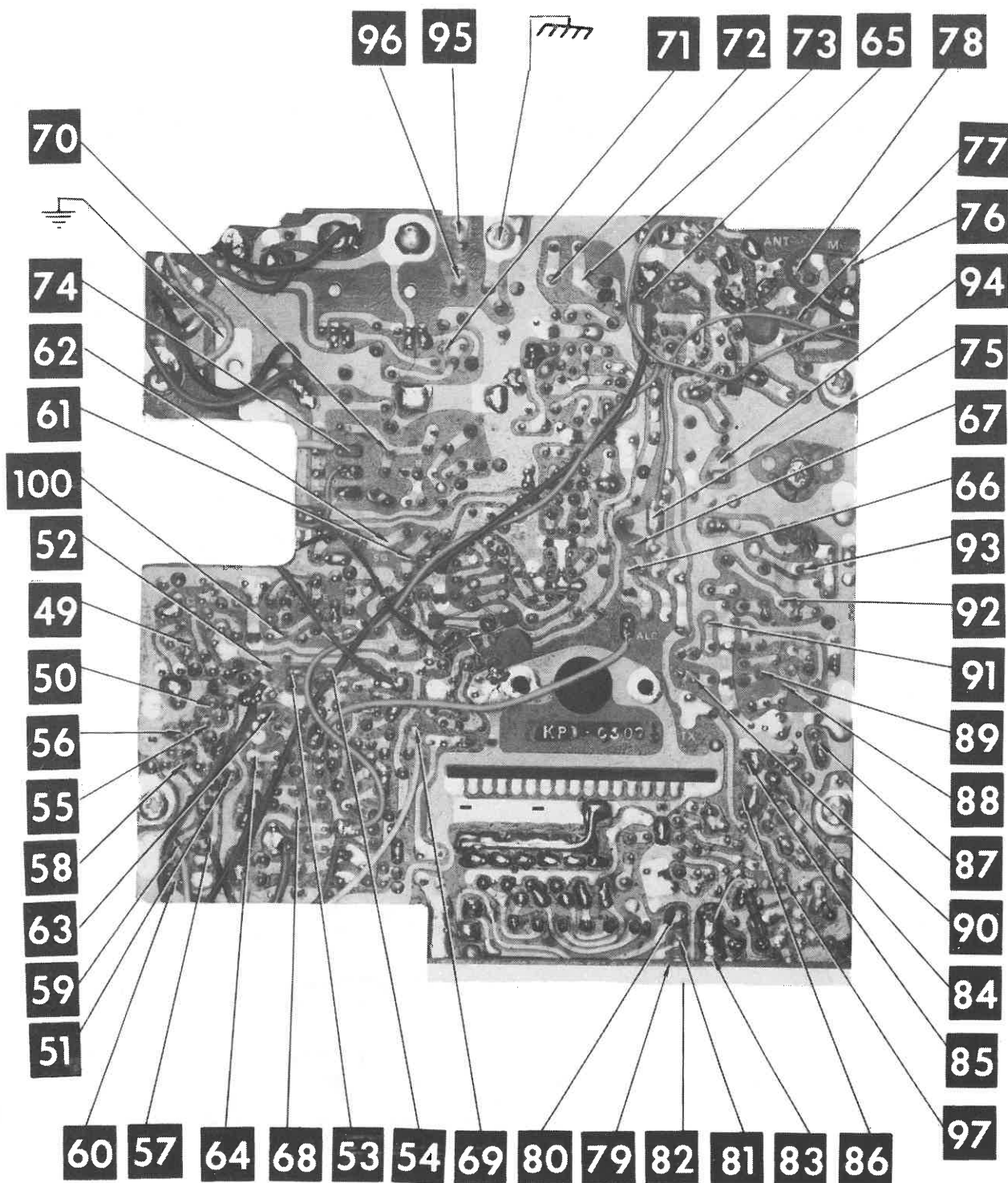


MAIN BOARD

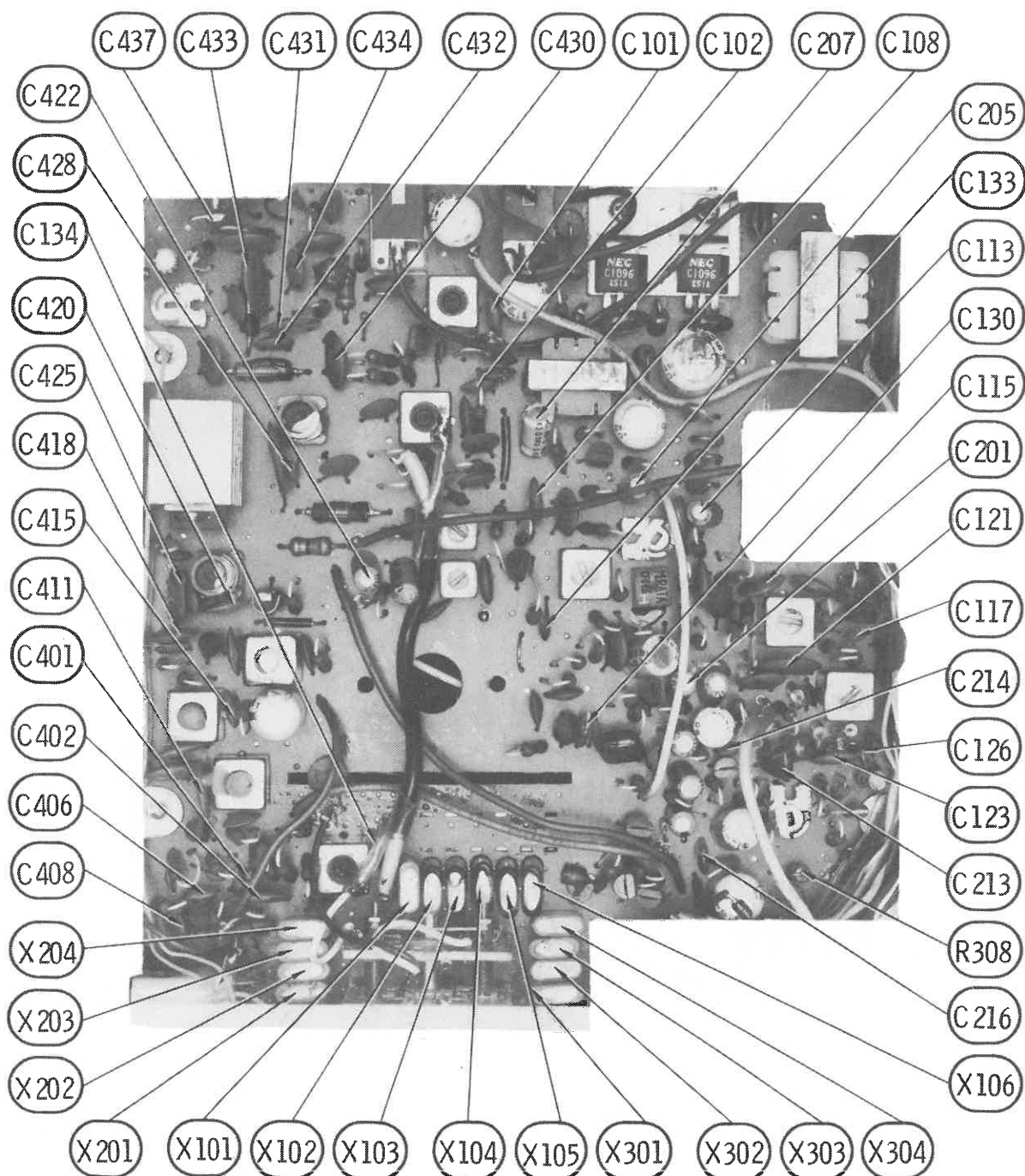


XTAL MODEL XCB-11

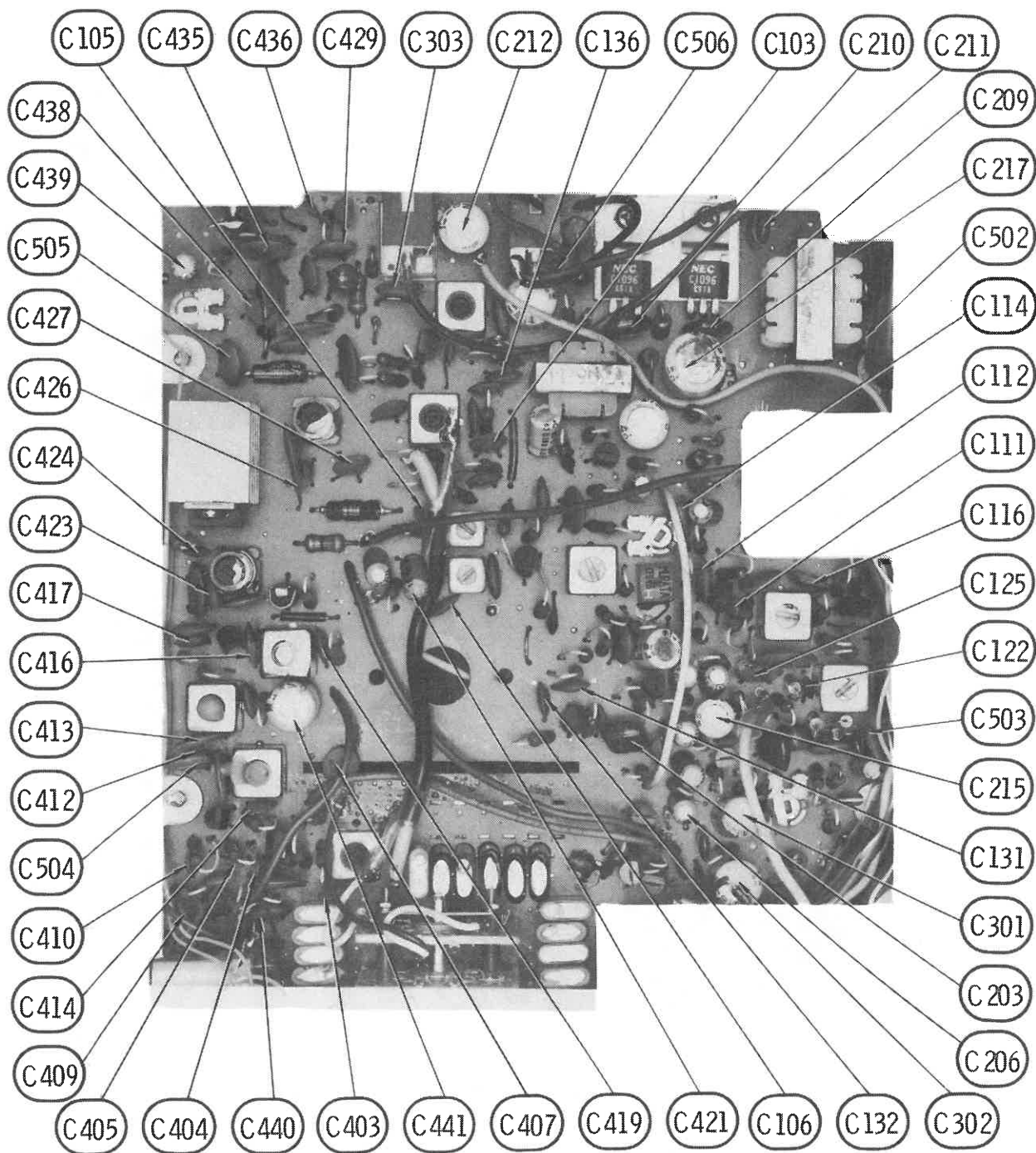
MAIN BOARD



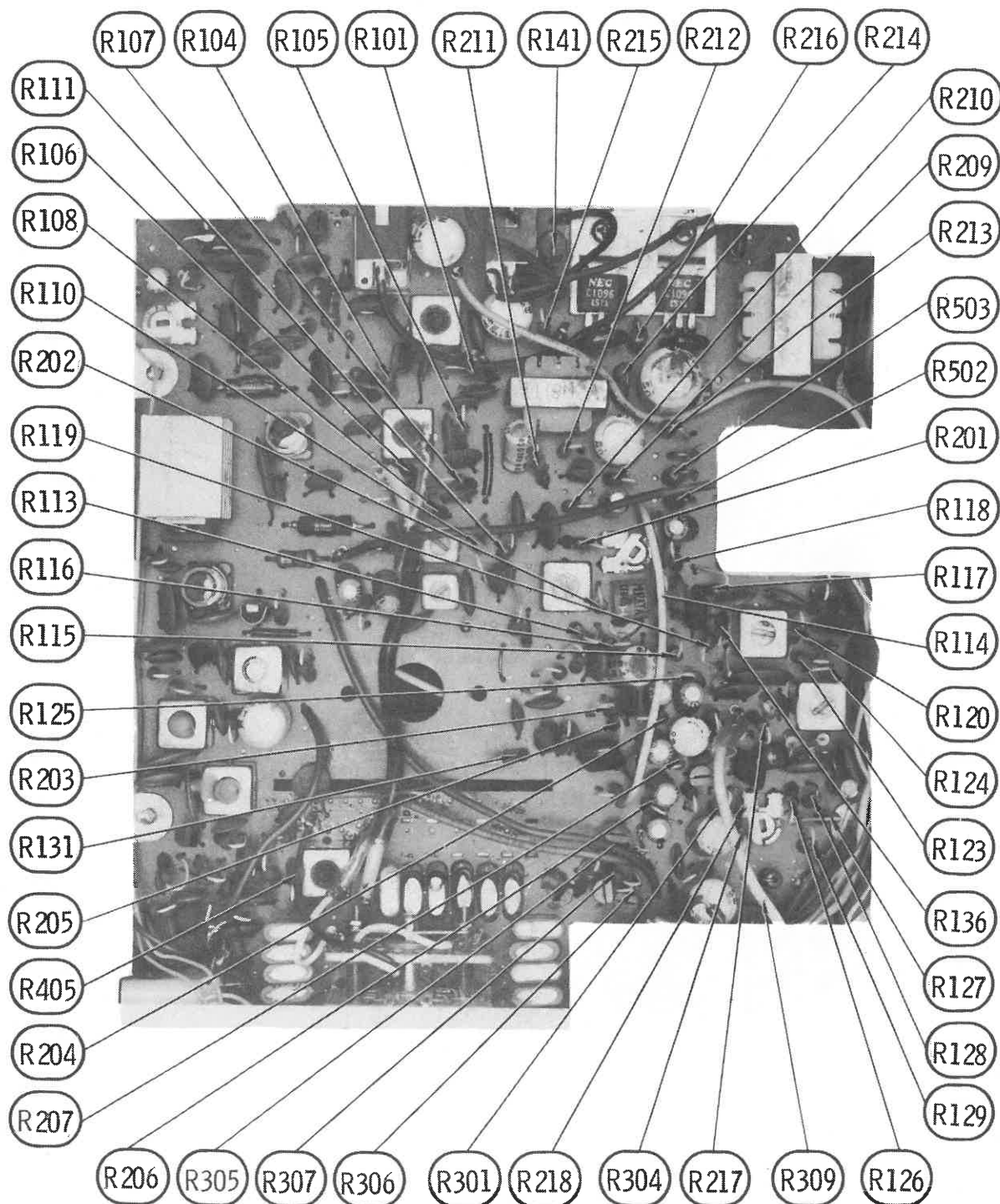
MAIN BOARD



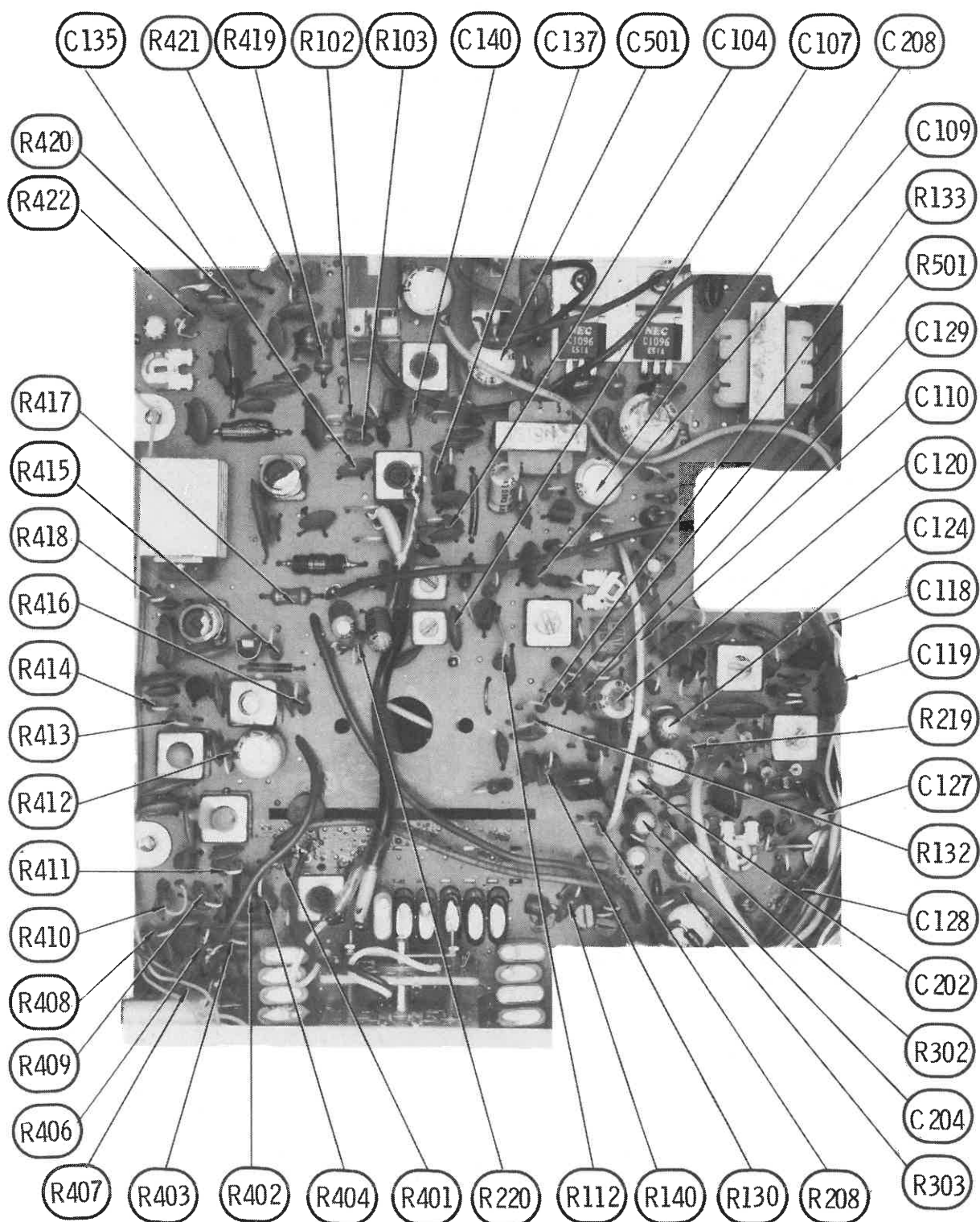
MAIN BOARD



MAIN BOARD



MAIN BOARD



MAIN BOARD

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	1S188AM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D2	1S188FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D3	1S188FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D4	1S188FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D5	1S188FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D6	1S188FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D7	1S953		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	1N4003		GE-504A	5A4D	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116
D9	1N4003		GE-504A	5A4D	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116
D10	1N4003		GE-504A	5A4D	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116
D11	1S953		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1S953		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	1S188AM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D14	1S188AM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D15	1N4003		GE-504A	5A4D	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116
D16	1S188AM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
Q1	2SC710B		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q2	2SC710B		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q3	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q4	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q5	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q6	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q7	2SC945Q		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q8	2SC945Q		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q9	2SC945Q		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q10	2SC1096K (11)		GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3054	RT-166	ECG186A
Q11	2SC1096K (11)		GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3054	RT-166	ECG186A
Q12	2SC710B		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q13	2SC945Q		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q14	2SD327Y		GE-47	TR-21 *	PTC136 *	HEPS0015 *	RE 13 *	SK3122	RT-114 *	ECG123A *
Q15	2SD327Y		GE-47	TR-21 *	PTC136 *	HEPS0015 *	RE 13 *	SK3122	RT-114 *	ECG123A *
Q16	2SC945Q		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q17	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	JSP7001L		GE-20 *	TR-21 *	PTC136 *	HEPS0015 *	RE 13 *	SK3122 *	RT-172 *	ECG123A *
Q19	JSP7001L		GE-20 *	TR-21 *	PTC136 *	HEPS0015 *	RE 13 *	SK3122 *	RT-172 *	ECG123A *
Q20	MPS8000L		GE-219	TR-65	PTC191	HEPS3001	RE 79A	SK3048	RT-306	ECG195A
Q21	2SC1909K (12)		GE-215		PTC186		RE 203	SK3197	RT-146	ECG235
Q22	2SC945Q		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
VD-1	VD1122				PTC301					
Z1	ZB090		GEZD-9.1		ZB9.1B		RE 114		RT-240	ECG139

(1) Used in some versions.

(11) Rating, 10 Watt @ 2.0 Amp.

(12) Rating, 10 Watt @ 3.0 Amp.

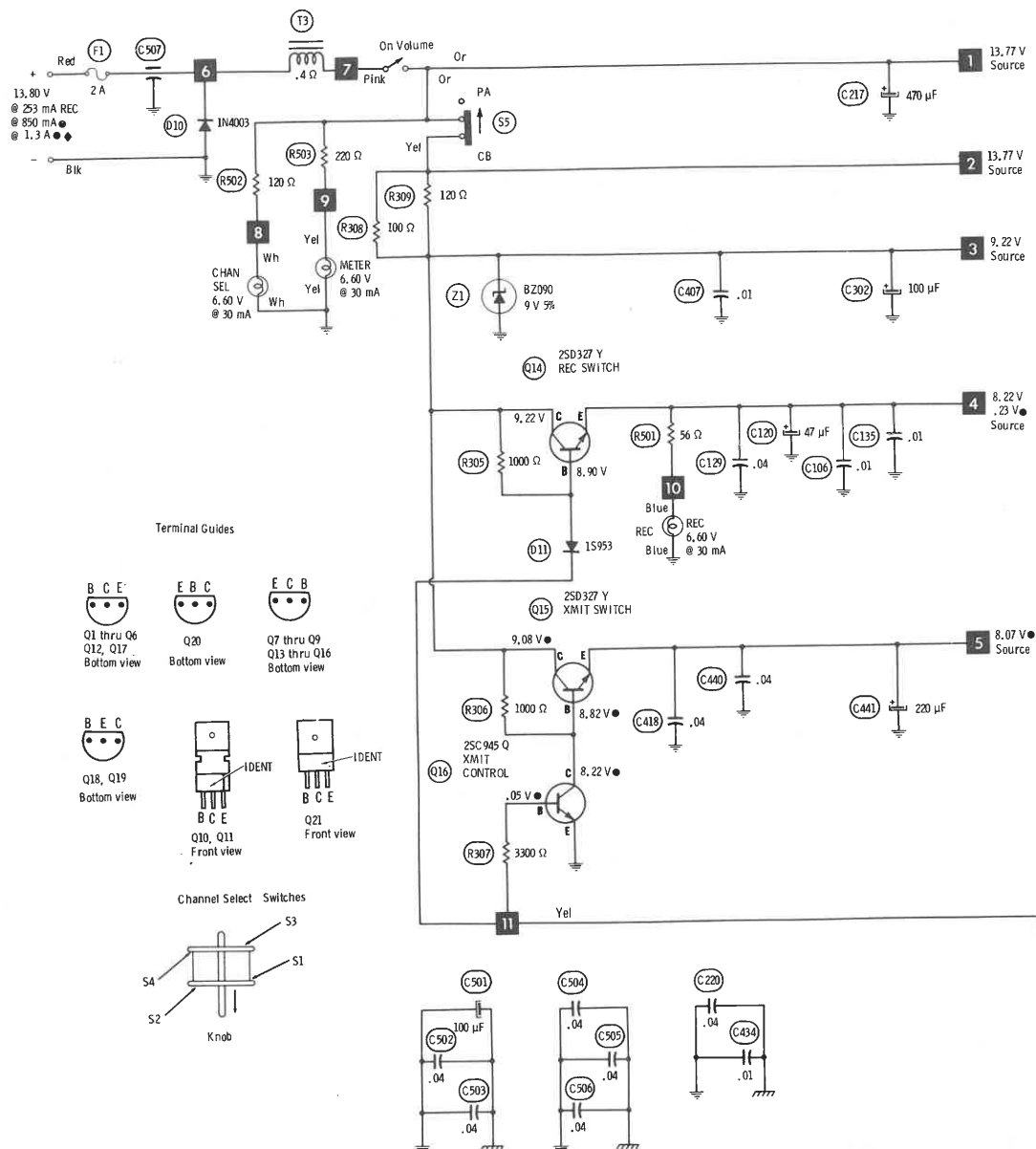
(13) Rating, 12 Watt @ 3.0 Amp.

* Lead Configuration may vary from original.

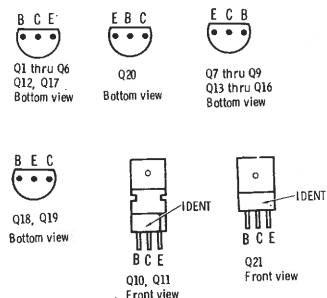
XTAL MODEL XCB-11

ELECTROLYTIC CAPACITORS

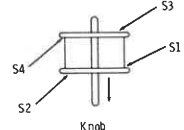
ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C113	1 50V		PC1-50	VTT1B63	EV-1615
C120	47 16V		PC50-16	VTT47D16	EV-1226
C124	1 50V		PC1-50	VTT1B63	EV-1615
C127	.22 25V			TDC224M050EL	SD50-R229
C201	4.7 35V		PC5-50	VTT47A50	EV-1519
C202	4.7 35V		PC5-50	VTT47A50	EV-1519
C204	10 16V		PC10-25	VTT10A25	EV-1222
C205	1 50V		PC1-50	VTT1B63	EV-1615
C206	1 50V		PC1-50	VTT1B63	EV-1615
C207	22 10V		PC25-25	VTT22A16	EV-1224
C208	100 16V		PC100-16	VTT100F16	EV-1230
C212	47 16V		PC50-16	VTT47D16	EV-1226
C215	47 16V		PC50-16	VTT47D16	EV-1226
C217	470 16V		PC500-16	VTT470J16	EV-1250
C301	47 16V		PC50-16	VTT47D16	EV-1226
C302	100 16V		PC100-16	VTT100F16	EV-1230
C421	10 16V		PC10-25	VTT10A25	EV-1222
C422	1 50V		PC1-50	VTT1B63	EV-1615
C439	10 16V		PC10-25	VTT10A25	EV-1222
C441	220 10V		PC250-10	VTT220F10	EV-1140
C501	100 16V		PC100-16	VTT100F16	EV-1230



Terminal Guides



Channel Select Switches



✖ 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 clockwise ◆ 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.

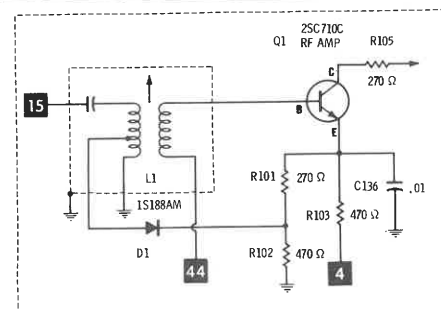
Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITTRACE

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Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X101, X201, X301	7	X102, X203, X303	13	X104, X201, X301	19	X105, X203, X303
2	X101, X202, X302	8	X102, X204, X304	14	X104, X202, X302	20	X105, X204, X304
3	X101, X203, X303	9	X103, X201, X301	15	X104, X203, X303	21	X106, X201, X301
4	X101, X204, X304	10	X103, X202, X302	16	X104, X204, X304	22	X106, X202, X302
5	X102, X201, X301	11	X103, X203, X303	17	X105, X201, X301		
6	X102, X202, X302	12	X103, X204, X304	18	X105, X202, X302	23	X106, X204, X304



NOTE: Q1 RF AMP Alternate May Be Used In Some Versions

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	.04					
C102	.01					
C103	.01		UK50-103	MGP01	MAG5011	TG-S10
C104	.01		UK50-103	MGP01	MAG5011	TG-S10
C105	1		UK50-103	MGP01	CN0510	10TCC-V10
C106	.01				MAG5011	TG-S10
C107	.04					
C108	.04					
C109	.04					
C110	.005					
C111	1		DC-502	MGP005	TA250	TG-D50
C112	.04				CN0510	10TCC-V10
C114	.04					
C115	.04					
C116	.04					
C117	1					
C118	.04					
C119	.04					
C121	150 10% NPO		DTZ-150		CN0315	10TCC-T15
C122	30 10% NPO		DTZ-33	NP033	CN0433	10TCC-Q33
C123	.04					
C125	.04					
C126	.0022			DPMS6D22	M192P2229R8	192P2229R8
C128	.01			WMF1S1	EWFA1110	1PB-S10
C129	.04					
C130	680 10%		DD-681	GP680	GP368	10TS-T68
C131	47 10% NPO		DTZ-47	NP047	CN0447	10TCC-Q47
C132	.01		UK50-103	MGP01	MAG5011	TG-S10
C133	10 NPO		DTZ-10	NP010	CN0410	10TCC-Q10
C134	15 10% NPO		DTZ-15	NP015	CN0415	10TCC-Q15
C135	.01		UK50-103	MGP01	MAG5011	TG-S10
C136	.01		UK50-103	MGP01	MAG5011	TG-S10
C137	.01		UK50-103	MGP01	MAG5011	TG-S10
C140	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C146	7		DTZ-6R8	NP06P8	CN0568	10TCC-V68
C147	7		DTZ-6R8	NP06P8	CN0568	10TCC-V68
C148	47 5% NPO		DTZ-47	NP047	CN0447	10TCC-Q47
C149	120		DTZ-120		CN0312	10TCC-T12
C150	120		DTZ-120		CN0312	10TCC-T12
C203	.047				EWFA1A147	1PB-S47
C209	.04				M192P3939R8	192P3939R8
C210	.04				M192P3939R8	192P3939R8
C211	.04				M192P3939R8	192P3939R8
C213	.022				M192P2239R8	192P2239R8
C214	.001		DD-102G	DPMS2S22	GP210	5GA-D10
C216	.01			GP1000	EWFA1110	1PB-S10
C218	.01			WMF1S1	EWFA1110	1PB-S10
C219	.04			WMF1S1	M192P3939R8	192P3939R8
C220	.04				M192P3939R8	192P3939R8
C303	.04					
C401	8				GP580	5GA-V82
C402	150 10% NPO		DTZ-150		CN0315	10TCC-T15
C403	.01		UK50-103	MGP01	MAG5011	TG-S10
C404	8				GP580	5GA-V82
C405	22		DTZ-22	NP022	CN0422	10TCC-Q22
C406	47 10% NPO		DTZ-47	NP047	CN0447	10TCC-Q47
C407	.01		UK50-103	MGP01	MAG5011	TG-S10
C408	.001		DD-102		GP210	10TS-D10
C409	100 10% NPO		DTZ-100	NP0100	CN0310	10TCC-T10
C410	5		DTZ-4R7	NP04P7	CN0547	10TCC-V47
C411	120 10% NPO		DTZ-120		CN0312	10TCC-T12
C412	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C413	120 10% NPO		DTZ-120		CN0312	10TCC-T12
C414	.01		UK50-103	MGP01	MAG5011	TG-S10
C415	.01		UK50-103	MGP01	MAG5011	TG-S10
C416	68 10% NPO		DTZ-68	NP068	CN0468	10TCC-Q68
C417	.01		UK50-103	MGP01	MAG5011	TG-S10
C418	.04					
C419	.01		UK50-103	MGP01	MAG5011	TG-S10
C420	68 10%		DTZ-68	NP068	CN0468	10TCC-Q68
C423	.01		UK50-103	MGP01	MAG5011	TG-S10
C424	680 10%		DD-681	GP680	GP368	10TS-T68
C425	100 10% NPO		DTZ-100	NP0100	CN0310	10TCC-T10
C426	200 10% NPO		DTZ-200			10TCC-T20
C427	.01		UK50-103	MGP01	MAG5011	TG-S10
C428	22		DTZ-22	NP022	CN0422	10TCC-Q22
C429	.04					
C430	120 10% NPO		DTZ-120		CN0312	10TCC-T12
C431	120 10% NPO		DTZ-120		CN0312	10TCC-T12
C432	47 10% NPO		DTZ-47	NP047	CN0447	10TCC-Q47
C433	150 10% NPO		DTZ-150		CN0315	10TCC-T15
C434	.01		UK50-103	MGP01	MAG5011	TG-S10
C435	120 10% NPO		DTZ-120		CN0312	10TCC-T12
C436	5		DTZ-4R7	NP04P7	CN0547	10TCC-V47
C437	1				CN0510	10TCC-V10

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.
C438	.01		UK50-103	MGP01	MAG5011	TG-S10
C440	.04					
C445	47 10% NPO		DTZ-47	NP047	CN0447	10TCC-Q47
C446	7		DTZ-6R8	NP06P8	CN0568	10TCC-V68
C502	.04					
C503	.04					
C504	.04					
C505	.04					
C506	.04					
C507	2000					

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.
RT1	S Meter	5000	EVN-K4AA00B53			
RT2	Squelch Range	5000	EVN-K4AA00B53			
RT3	RF Meter	10K	EVN-K4AA00B14			
VR1	Squelch	5000	EWK-06CS17604			
VR2	Volume/Switch	50K				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Rec Ant (27MHz)	CRV103			
L2	Rec RF (27MHz)	CRV105			
L3	Rec Mixer (10MHz)	FS1703			
L4	Rec Mixer (10MHz)	FS1703			
L5	IF (455kHz)	AS1103			
L6	IF (455kHz)	AS1104			
L7	IF (455kHz)	AS1104			
L8	Synth Osc (37MHz)	CRV101			
L9	RF Choke	CHL18A			
L10	Harmonic Suppressor (27MHz)	CTV101			
L11	Xmit Mixer (27MHz)	CTV101			
L12	Xmit Buffer (27MHz)	CTV102			
L13	Xmit Driver (27MHz)	CTV103			
L14	RF Choke	CHL16A			
L15	Final Amp (27MHz)	CTV105			
L16	Pi Filter	CHL16A			
L17	Ant Match	CHL16A			
L18	RF Choke	CHL18A			
L19	RF Choke	CHL05A			
L20	RF Choke	CHL04A			
		CHL05A			Using TEU Crystals
		CHL04A			Using KSC Crystals
					Using TEU Crystals
					Using KSC Crystals

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.	
T3	1.2A	.4	5mH	TC2401A	TR560		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	1.5	1		TI1902A	TR660		

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	32	1 2 8 14	TM4102A			

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3 PM 8 ohms		30A05Z8R	

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	2A Fast Acting			AGC2	HDJ	312002	150145	F62-2

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		18-032	18-034	18-010	18-092	2	1	4	NC	NC	1

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X101	37.600		DA14W37.600	1,2,3,4	X202	10.625		DB90W10.625	2,6,10,14,18,22
X102	37.650		DA14W37.650	5,6,7,8	X203	10.615		DB90W10.615	3,7,11,15,19
X103	37.700		DA14W37.700	9,10,11,12	X204	10.595		DB90W10.595	4,8,12,16,20,23
X104	37.750		DA14W37.750	13,14,15,16	X301	10.180		DC90W10.180	1,5,9,13,17,21
X105	37.800		DA14W37.800	17,18,19,20	X302	10.170		DC90W10.170	2,6,10,14,18,22
X106	37.850		DA14W37.850	21,22,23	X303	10.160		DC90W10.160	3,7,11,15,19
X201	10.635		DB90W10.635	1,5,9,13,17,21	X304	10.140		DC90W10.140	4,8,12,16,20,23

XTAL MODEL XCB-11

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	CFV455H	455kHz
M1	Meter		S/RF
RL1	Relay	MZ-12	Xmit/Rec (350 ohms)
S1	Switch		Channel Selector
S4			
S5	Switch		PA/CB
S6	Switch		ANL
	Printed Circuit Board		Main (KPB-CS03)

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. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene

INDEX

Listing all models/chassis covered in
PHOTOFACT CB (Citizens Band) Series volumes

KEY —————→ (EP) Early Production (LP) Late Production (Rev) Revised (SN) Serial Number (PCB) Production Change Bulletin

AIRCRAFT	VOL.	BENDIX	VOL.	CONCORD	VOL.	EICO (CONT.)	VOL.	GM	VOL.
JE321	15	CB-6/-12	2	TG-132B	12	777	7	CBD-12	111
23-02	38					779	9	GM23B	92
AIMOR		BROWNING		COURIER (E.C.I.)		779A	17	GM123A	93
CB-7000	109	Brownie	80	Cadet 23	46	7923 (Nova 23)	18	GM130	95
AIRLINE		Eaglette	20	Caravelle	38	ELECTRONIC 2000		GM130A	
GAS-587	4	Eaglette 2	29	Caravelle II	73	(Sim. to Pg.47)	90	GM132	
ALARON		Golden Eagle Mark III	79	CCT-2 W/CHB-3	35	Contact CB-23CH	56	(Sim. to Pg.5)	69
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B-1050	106	Mark II Series B,		CCT-4	36	(See Ross/Electroponic)		994856	95
B-1100	108	SSB-115	39	Centurion	52	FANON		995432	93
B-1150(HA-23C)	107	R-27, S-23	10	Centurion Plus		CHB-3	35	GONSET	
ALLIED		SST	37	(Pg. 5)	52	CHB-4	37	G-11-3303/04/-05,	
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A-2530 (17B6825X)	19	(Ser. No. T-50000		Citation	34	Fanfare 120	97	G-14 (3430), (3433) ..	3
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A-2544 (17B9802S)	23	Eagle Mark II)	27	Classic III	67	FCB-9	4	CB-6	107
A-2545 (17B9803S)	18	CADRE		Comet 23	48	IC-3000	24	HALLICRAFTERS	
A-2559 (21B5559U)	34	C-75	11	Conqueror	38	IC-5000	25	BC-8	10
A-2561 (21B5561)	35	500/C	3	Conqueror II	73	L-1000	18	CB-1	1
A-2564 (17A6966U)	29	510	4	Courier Clipper 23	26	L-2000	17	CB-3	3
A-2567 (17B6435X)	22	510A, 515	6	Courier TR-5	16	SFT-400	35	CB-3A	5
A-2568 (17A696SU)	29	525 (500-1, 520)	7	Courier TR-23S	13	SFT-500	35	CB-4 (Littlefone)	3
A-2569 (17C6469U)	24	CAPITOL		Courier 1M, 23	8	SFT-600	31	CB-5A	5
ALLSTATE		ND-309	3	Courier 23 Plus	18	SFT-800A	34	CB-5 Mark II, HA-14,	
832.62270	7	CHANNEL MASTER		Cruiser	79	SFT-900A		P-5-120	6
893.62910/11/21/31/41. 6		6423	40	CWT-30	29	(Guardman)	37	CB-7	7
AMERICAN ELECTRONICS		6553	9	CWT-40	27	T-600	96	CB-8	10
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671 (Hy-Range II)	63	Messenger 350		HB-502A	19	13-721	76	PACE	
671A (Pg. 5)	63	(242-0154)	14	HB-525/A/B	15	13-722	25		
672 (Hy-Range III)	65	Messenger 351	57	HB-525C (99-3156WX) ..	23	13-723	56	Auto-Mate	20
672A (Pg. 5)	65	Personal Messenger		HB-525D (99-31759WX) ..	31	13-723B		C123A, 123A (LP)	55
673 (Hy-Range IV)	64	(242-101-1)	2	HB-525E (99-32369WX) ..	43	(Sim. to Pg.115)	56	CB76	50
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		12TR335 (Skyhawk)	10	HE-20C	2	13-775B	24	CBST-23	
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