



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-711 (Saturn)

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

T5, T6.....	GC ELECTRONICS
L101, L102, L106.....	5000, 8290
ALL other tunable transformers and coils.....	9302
	9440

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 14-volt DC input.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to collector at Q3, low side to ground.	455kHz, 1000Hz @ 30% modulation	Any	T5, T6	Set generator to maintain .5V across speaker voice coil. Adjust for maximum.
High side thru .01uF to base of Q2, low side to ground.	10.010MHz, 1000Hz @ 30% modulation	Any	T3	Set generator to maintain a .5V output across speaker voice coil. Adjust for maximum.
High side thru .01uF to base of Q2, low side to ground.	10.020Hz, 1000Hz @ 30% modulation	Any	T4	Set generator to maintain a .5V output across speaker voice coil. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.085MHz, 1000Hz @ 30% modulation, output 1uV	11	T1, T2	Adjust for maximum.

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

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RAY JEFFERSON MODEL CB-711

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
These adjustments made with 14-volt DC input.
Adjust volume control to obtain a suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.085MHz, 1000Hz @ 30% modulation, output 10,000uV.	11	R35	Set squelch control fully clockwise. Adjust so that squelch just breaks.
"S" METER High side thru .01uF to antenna jack, low side to ground.	27.085MHz, 1000Hz @ 30% modulation, output 100uV	11	R75	Adjust for "S" 9 reading on panel meter.

VHF (MARINE WEATHER)

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
VHF 1 Frequency Counter	1	C109	151,850MHz	Connect counter to L102 with a two turn link.
VHF 2 Frequency Counter	2	C110	151,700MHz	Same as above.

VHF (MARINE WEATHER)

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to antenna jack, low side to ground.	162.550MHz, 1000Hz @ 30% modulation, output 2uV	VHF 1	L101,L102 L106,T101	Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	162.400MHz, 1000Hz @ 30% modulation, output 2uV	VHF 2		A 2uV signal should produce a 20dB S/N ratio.

TRANSMITTER

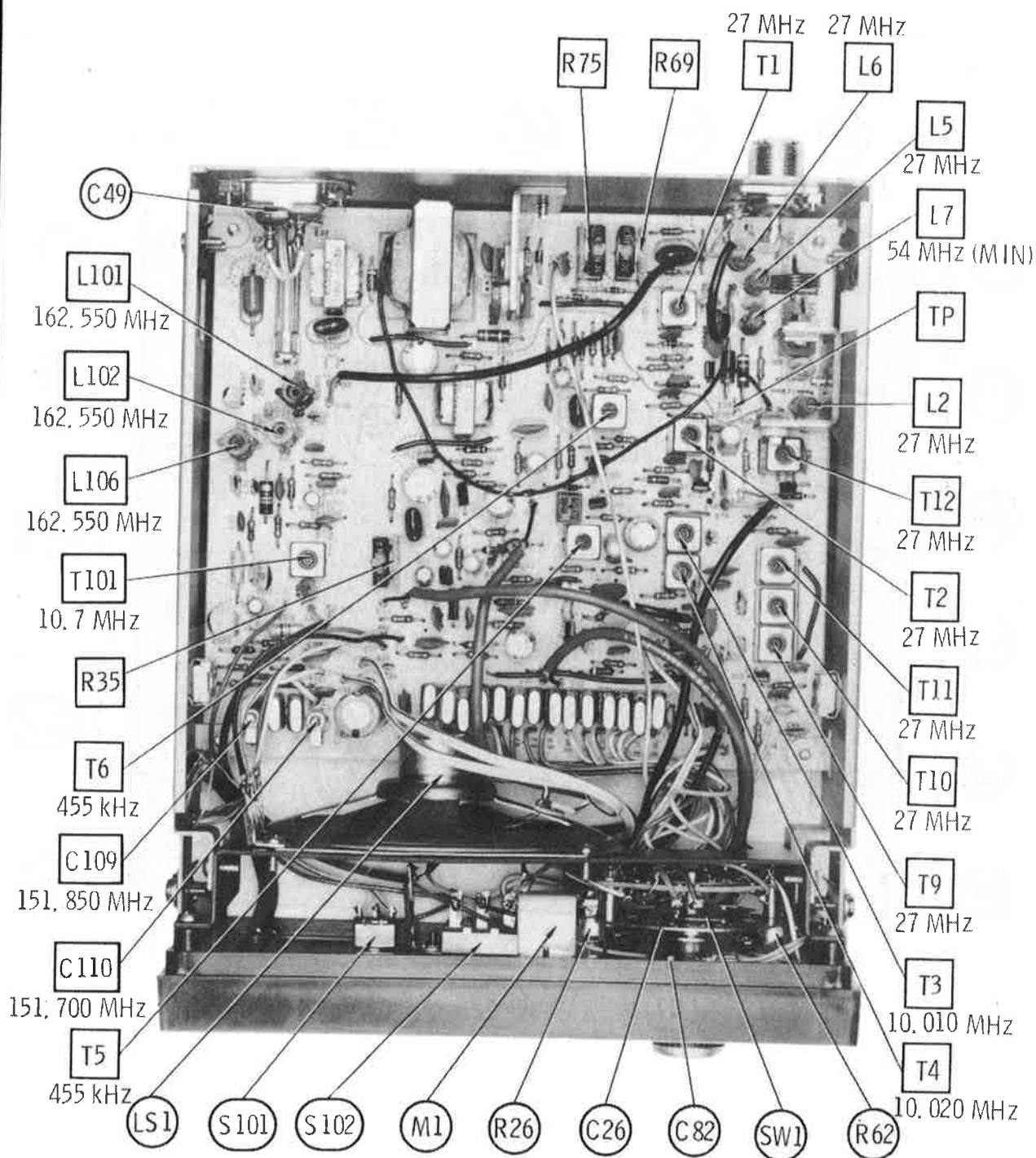
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	T9, T10, T11, T12, L5, L6	Set Delta tune to mid-range. Channel selector to Ch. 11. Key transmitter. Adjust for maximum.
TVI TRAP TV (Ch. 2)	L7	Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Remove jumper at TP and connect 0-1000 DC milliammeter.	L2, T12	Adjust T12 for maximum current. Adjust L2 for MINIMUM current. Adjust for 5 watts (maximum).

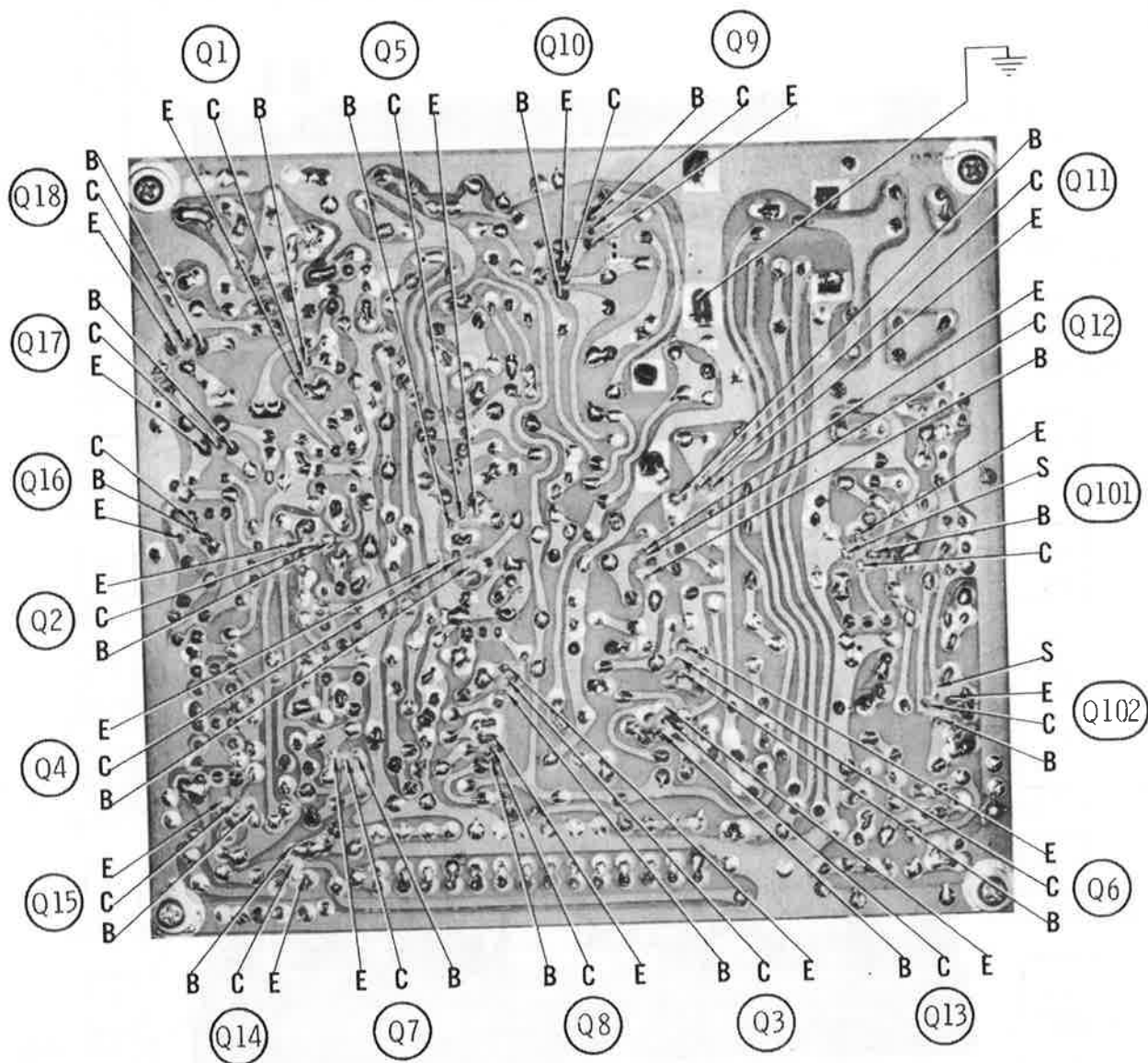
TRANSMITTER ADJUSTMENTS

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

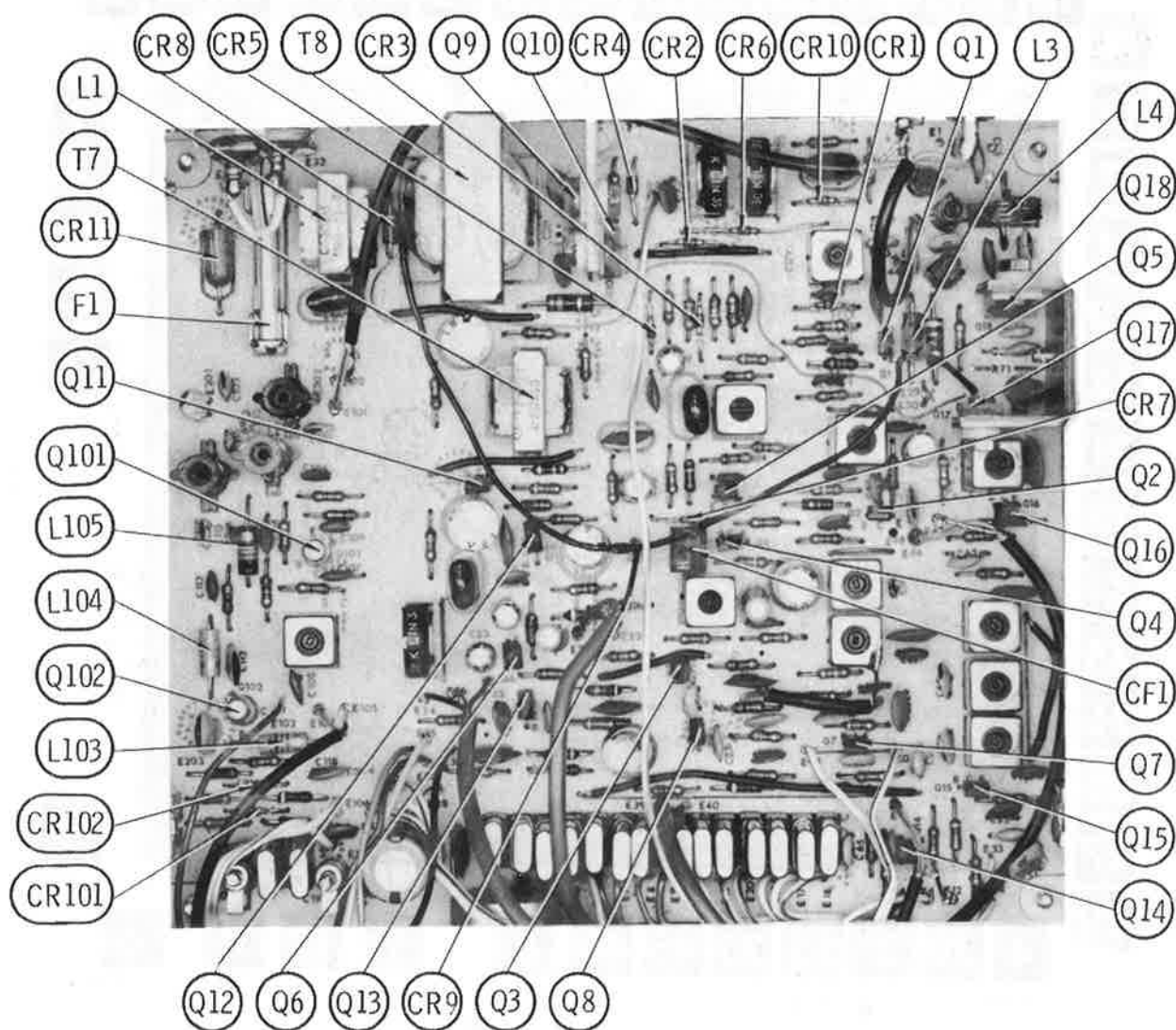
INDICATOR	ADJUST	REMARKS
RF PANEL METER RF Wattmeter	R69	Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter. A 4 watt reading should bring needle to start of red line on panel meter.



CHASSIS - TOP



MAIN BOARD

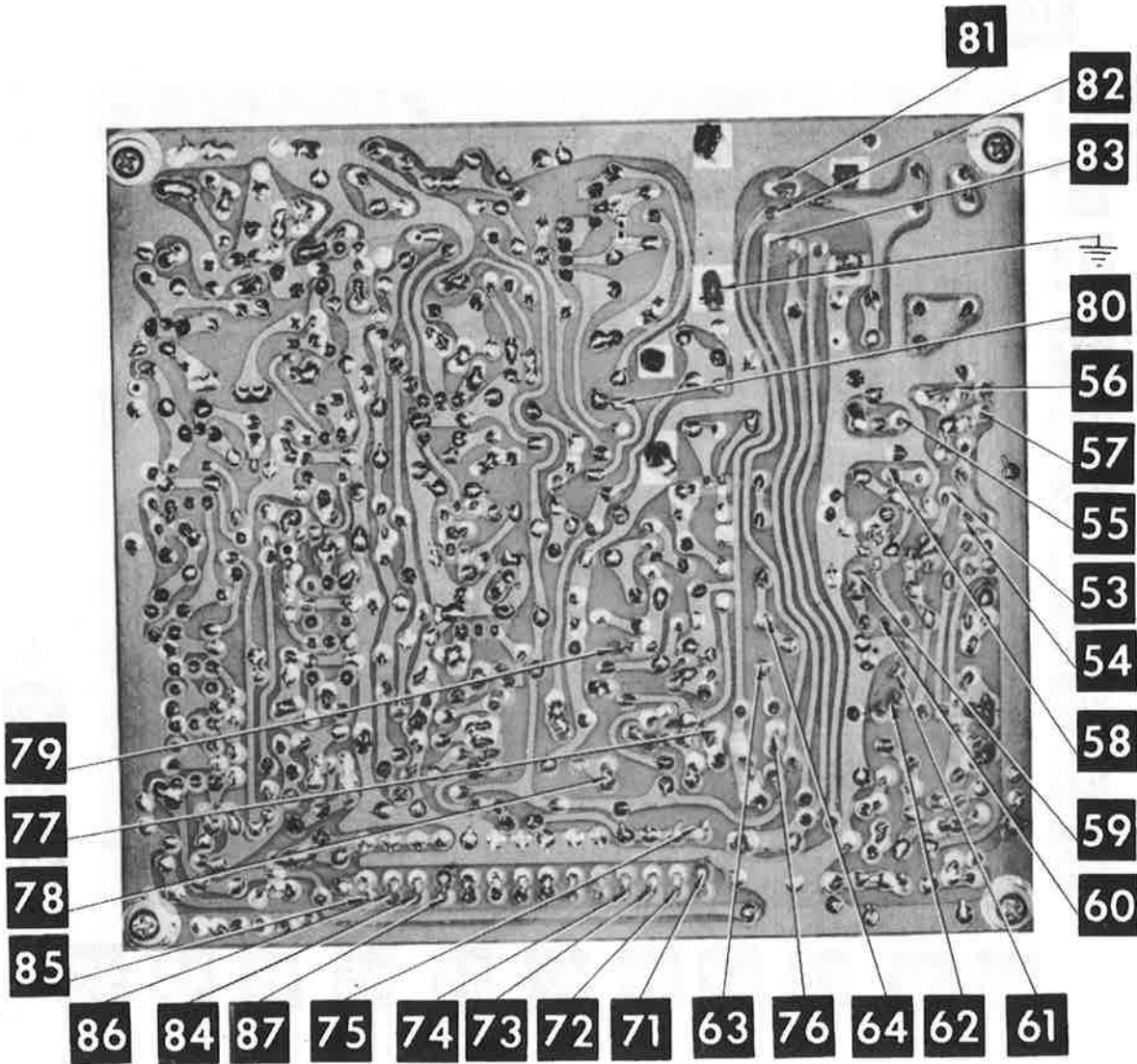


MAIN BOARD

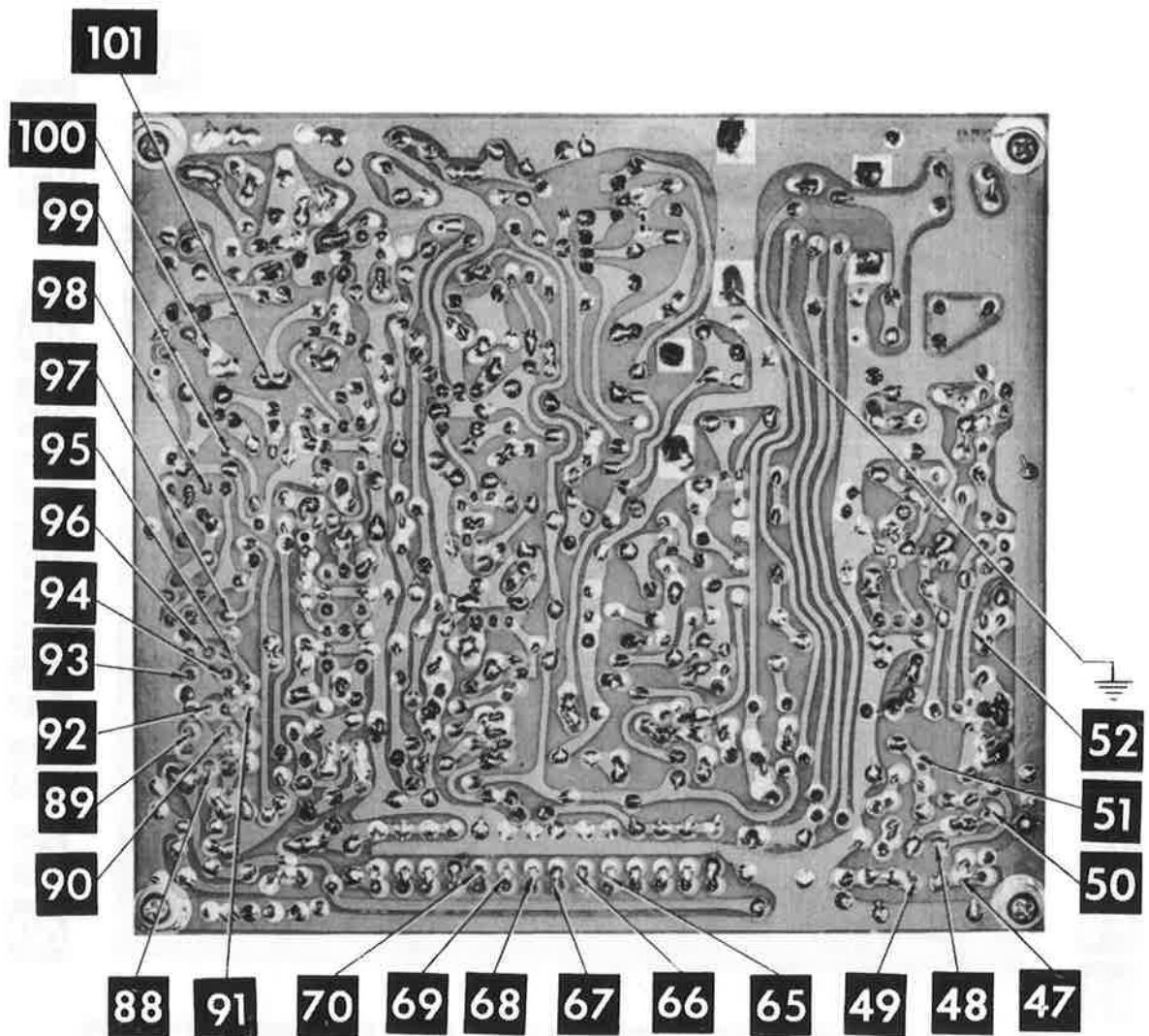


MAIN BOARD

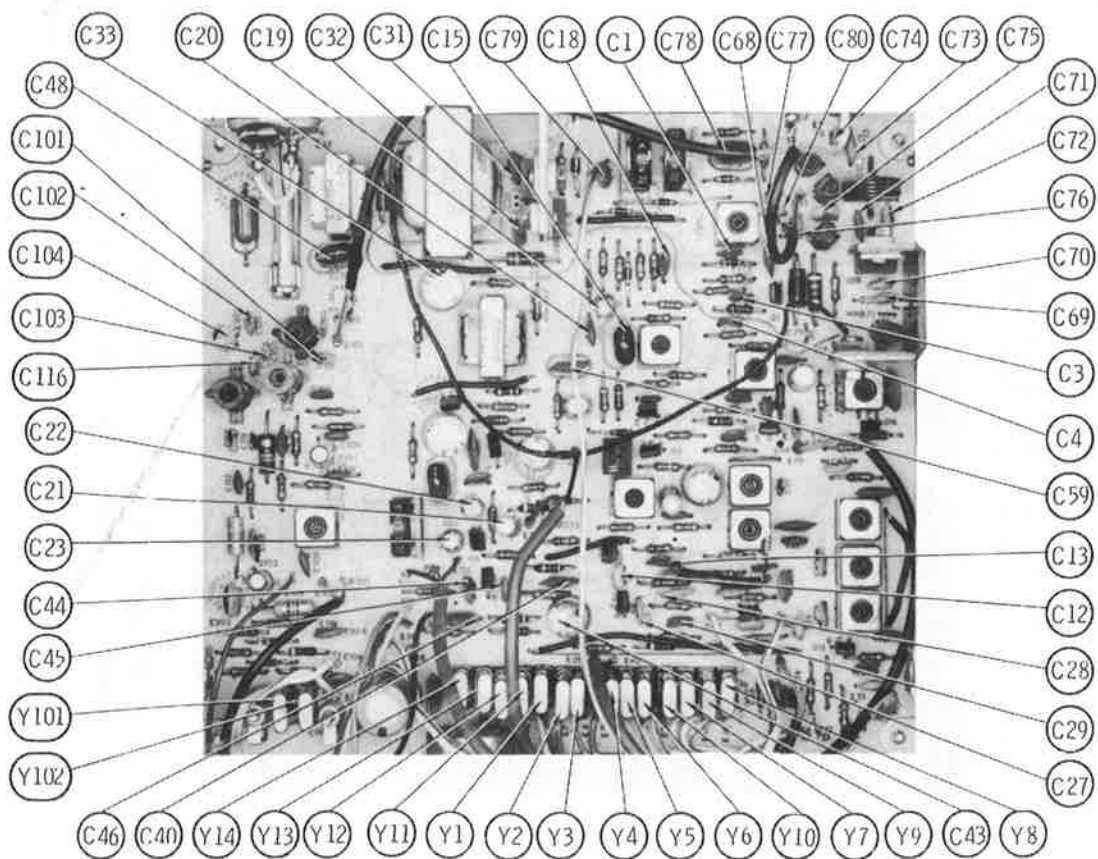
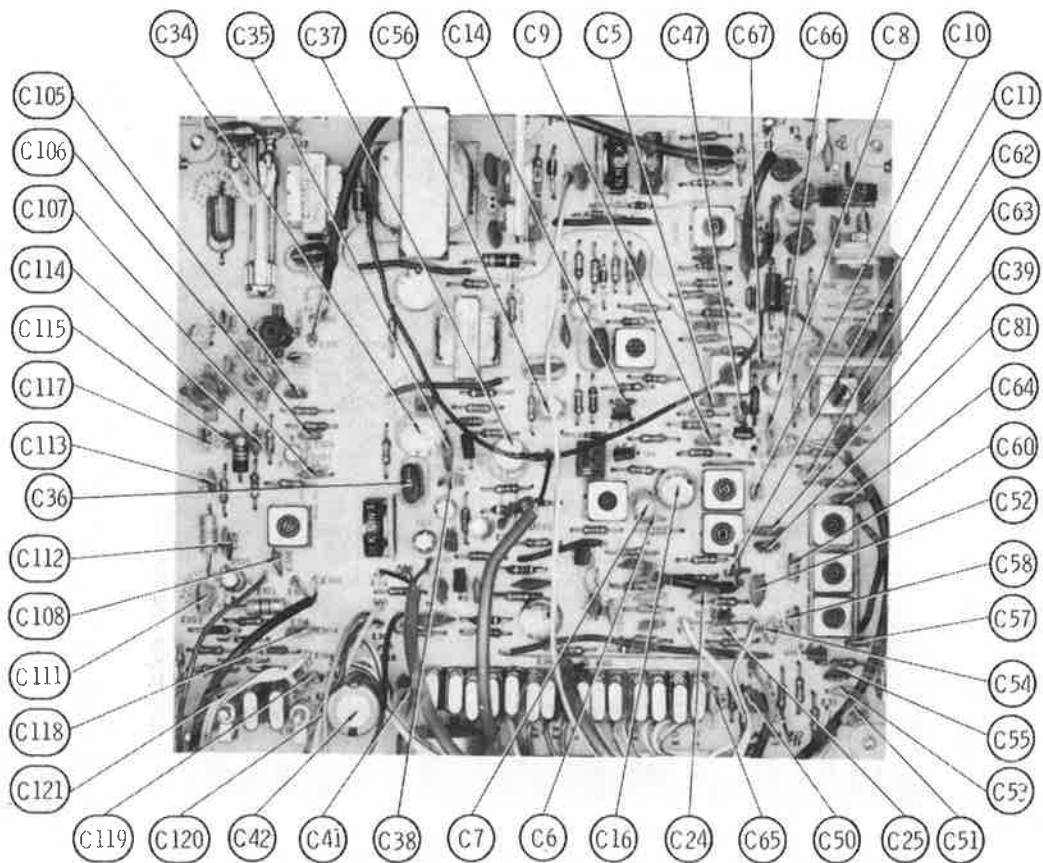
RAY JEFFERSON MODEL CB-711



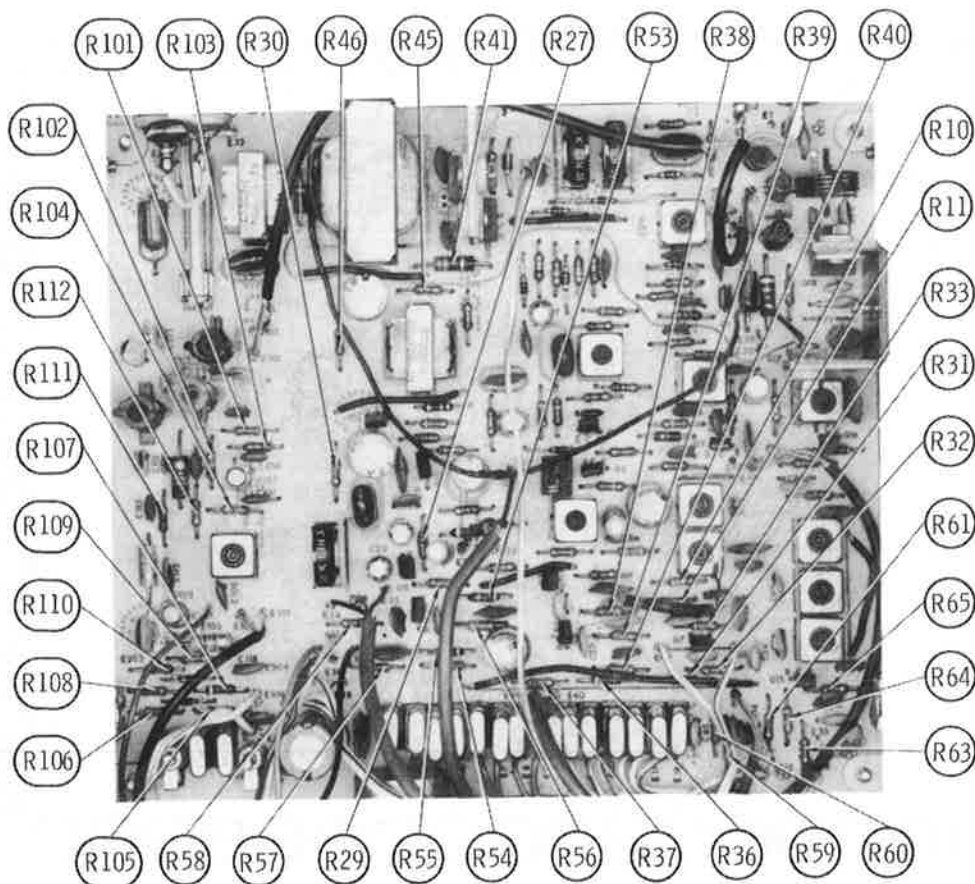
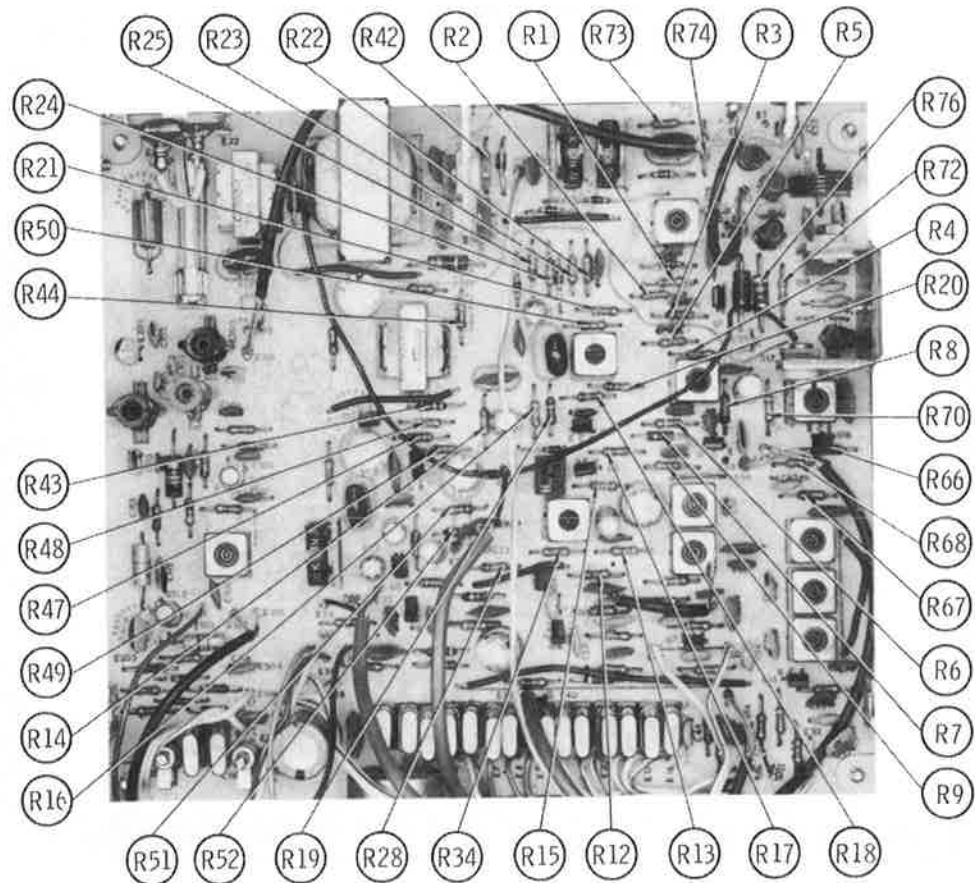
MAIN BOARD



MAIN BOARD



MAIN BOARD



MAIN BOARD

PARTS LIST AND DESCRIPTION

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

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord, 2-Wire	8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet
	17109 (Plastic) or 17129 (Rubber) -9 feet
Coiled Microphone Cable	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)
Ignition Noise Suppression	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene
Bonding Strap	8491 4-Conductor (2 shielded, 2 unshielded) Neoprene
	7300-Series Spark-Plug Sets
	Use BELDEN No. 8661 (3/8 inch)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CR1	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR2	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR3	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR4	1N4739A		GEZD-9.1	Z1209	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
	9.1V Zen									
	AW01-9(1)									
	9V Zener		GEZD-9.1	Z1209	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
CR5	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR6	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR7	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR8	1N4002		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-215	ECG116
CR9	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR10	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR11	BY127		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CR101	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
CR102	BAX13		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
Q1	2SC535B		GE-20	(1R)2SC535B	PTC136	HEPS0016	RE 9	SK3018	RT-108A	ECG229
Q2	2SC535B		GE-20	(1R)2SC535B	PTC136	HEPS0016	RE 9	SK3018	RT-108A	ECG229
Q3	2SC535B		GE-20	(1R)2SC535B	PTC136	HEPS0016	RE 9	SK3018	RT-108A	ECG229
Q4	2SC460C		GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-187	ECG233
Q5	2SC460C		GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-187	ECG233
Q6	2SC460C		GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-187	ECG233
Q7	2SC535B		GE-20	(1R)2SC535B	PTC136	HEPS0016	RE 9	SK3018	RT-108A	ECG229
Q8	2SC535B		GE-20	(1R)2SC535B	PTC136	HEPS0016	RE 9	SK3018	RT-108A	ECG229
Q9	2SC1061B	(2)	GE-66	TR-92	PTC137	HEPS5000	RE 21	SK3054	RT-197	ECG152
Q10	2SC1061B	(2)	GE-66	TR-92	PTC137	HEPS5000	RE 21	SK3054	RT-197	ECG152
Q11	2SC1213C		GE-63	TR-25	PTC178	HEPS5014	RE 17	SK3024	RT-114	ECG192
Q12	2SC460C		GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-187	ECG233
Q13	2SC460C		GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-187	ECG233
Q14	2SC460C		GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-187	ECG233
Q15	2SC460C		GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-187	ECG233
Q16	2SC460C		GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-187	ECG233
Q17	2SC1162C	(3)	GE-57	TR-72	PTC163	HEPS5000	RE 40	SK3054	RT-197	ECG295
Q18	2SC1306		GE-215	TR-55	PTC186		RE 194		RT-197	ECG236
Q101	MRF502		GE-39	TR-80	PTC115	HEPS0017	RE 28	SK3039	RT-112	ECG161
Q102	MRF502		GE-39	TR-80	PTC115	HEPS0017	RE 28	SK3039	RT-112	ECG161

(1) Alternate.

(2) Rating 25 watts @ 3 amp.

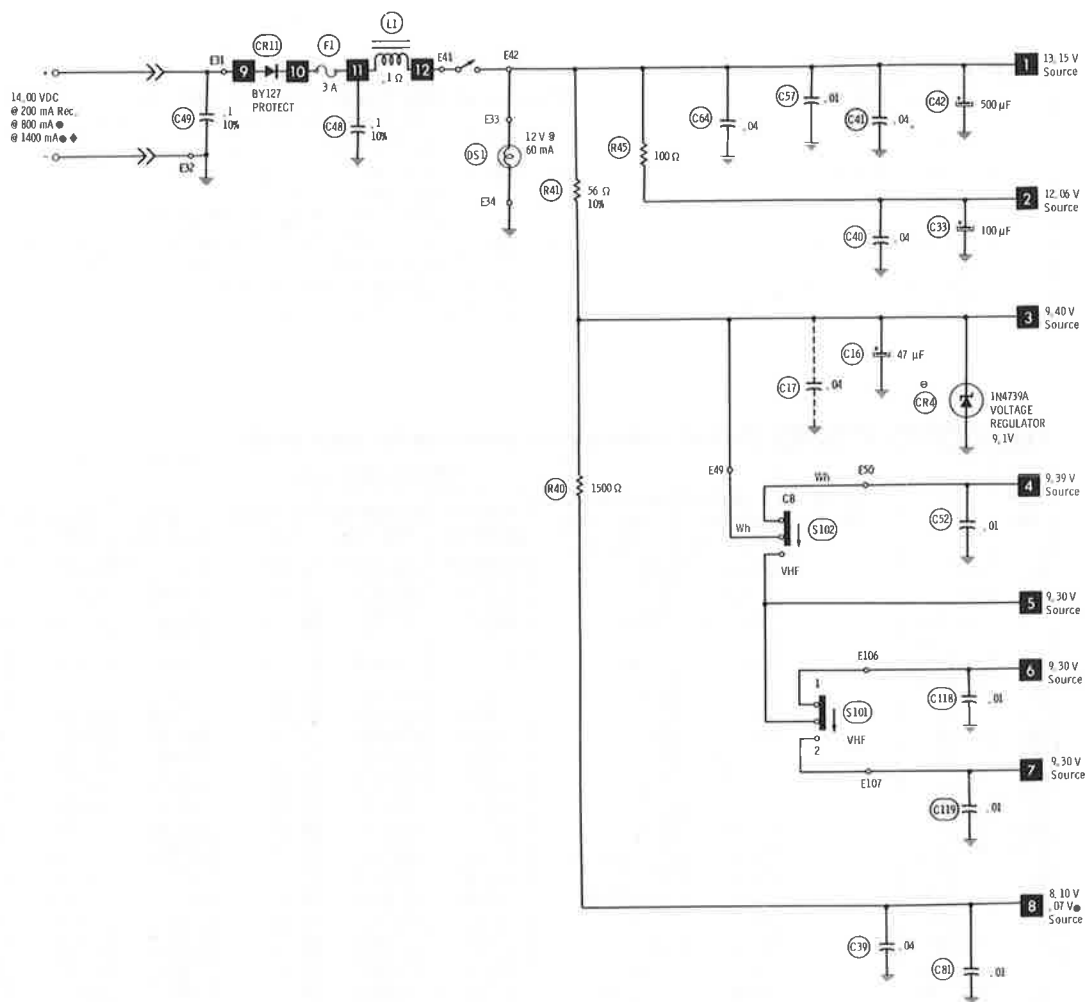
(3) Rating 8 watts @ 1.5 amp.

RAY JEFFERSON MODEL CB-711

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.
C7	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C16	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C19	.5 16V		RME-A-J-001	EP30-1	PC1-50	VTT47B63	EV-1310
C21	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C22	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C23	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C33	100 16V		RME-E-E-100	EP15-100	PC100-16	VTT100F16	EV-1230
C34	100 16V		RME-E-E-100	EP15-100	PC100-16	VTT100F16	EV-1230
C37	47 16V		RME-C-B-050	EP6-50	PC50-10	VTT47A6	EV-1026
C42	500 16V		RME-L-E-500	EP15-500	PC500-16	MTV500DN15	TVA-1162
C43	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C56	4.7 50V		RME-B-J-005	EP50-5	PC5-50	VTT47A50	EV-1519
C66	4.7 50V		RME-B-J-005	EP50-5	PC5-50	VTT47A50	EV-1519

(CONTINUED ON PAGE 110)



Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	Y1 Y7 Y14	7	Y2 Y9 Y12	13	Y4 Y7 Y14	19	Y5 Y9 Y12
2	Y1 Y8 Y13	8	Y2 Y10 Y11	14	Y4 Y8 Y13	20	Y5 Y10 Y11
3	Y1 Y9 Y12	9	Y3 Y7 Y14	15	Y4 Y9 Y12	21	Y6 Y7 Y14
4	Y1 Y10 Y11	10	Y3 Y8 Y13	16	Y4 Y10 Y11	22	Y6 Y8 Y13
5	Y2 Y7 Y14	11	Y3 Y9 Y12	17	Y5 Y7 Y14	23	Y6 Y10 Y11
6	Y2 Y8 Y13	12	Y3 Y10 Y11	18	Y5 Y8 Y13		

—X— 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.

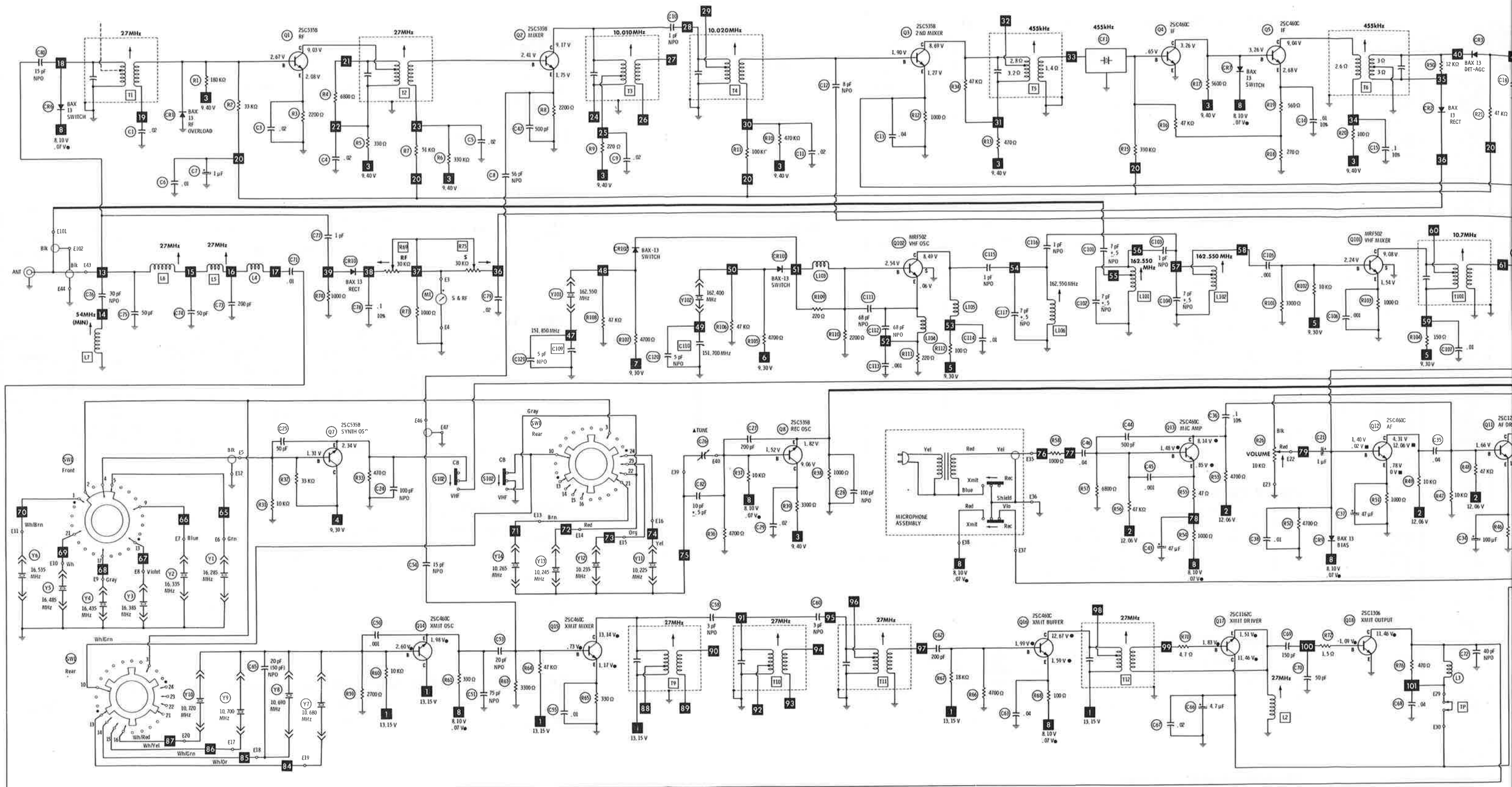
Resistors are 1/2W or less, 5% unless noted.

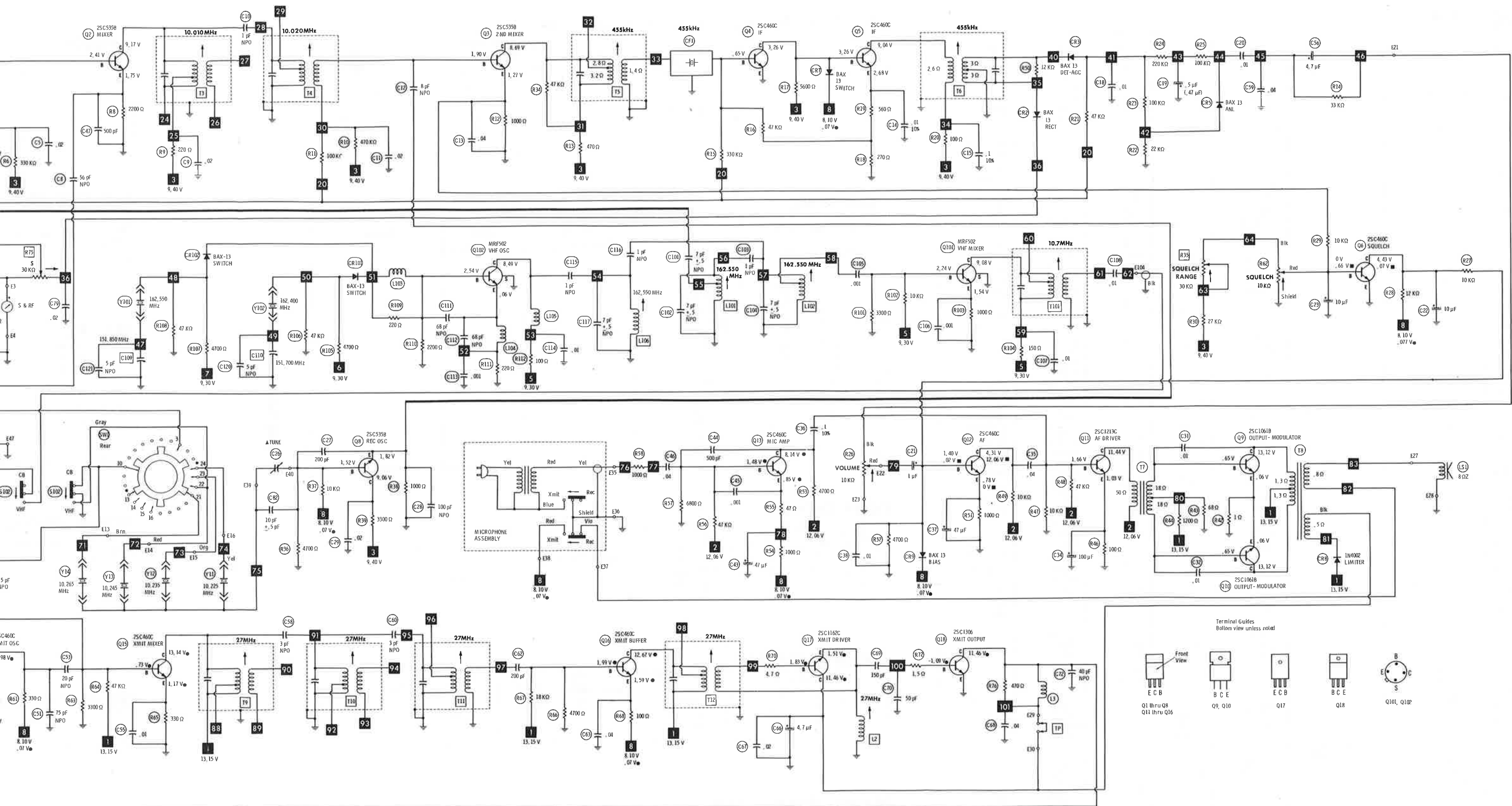
Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE[®]

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RAY JEFFERSON MODEL CB-711

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.02	B-9097	CCD-203	DC-203		MAG5012	2SS-S20
C3	.02		CCD-203	DC-203		MAG5012	2SS-S20
C4	.02		CCD-203	DC-203		MAG5012	2SS-S20
C5	.02		CCD-203	DC-203		MAG5012	2SS-S20
C6	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C8	56 NPO 10%		CCTO-560			CN0456	10TCC-Q56
C9	.02		CCD-203	DC-203		MAG5012	2SS-S20
C10	1 NPO					CN0510	10TCC-V10
C11	.02					MAG5012	2SS-S20
C12	8 NPO		CCD-203	DC-203	NP010	CN0410	10TCC-Q10
C13	.04 50V					GP140	5GA-S40
C14	.01 10%		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C15	.1 10%		1MDF-3-104		DPMS2P1	EWFA1A010	1PB-P10
C18	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C20	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C24	100 NPO		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C25	50		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C26							
C27	200		CCD-201	DD-201	GP200	GP320	10TS-T20
C28	100 NPO		CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C29	.02		CCD-203	DC-203		MAG5012	2SS-S20
C31	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C32	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C35	.04 50V		CCD-403			GP140	5GA-S40
C36	.1 10%		1MDF-3-104		DPMS2P1	EWFA1A010	1PB-P10
C38	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C39	.04		CCD-403			GP140	5GA-S40
C40	.04 50V		CCD-403			GP140	5GA-S40
C41	.04 50V		CCD-403			GP140	5GA-S40
C44	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C45	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C46	.04 50V		CCD-403			GP140	5GA-S40
C47	500		CCD-501	DD-501	GP500	GP350	10TS-T50
C48	.1 10%		1MDF-3-104		DPMS2P1	EWFA1A010	1PB-P10
C49	.1 10%		1MDF-3-104		DPMS2P1	EWFA1A010	1PB-P10
C50	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C51	75 NPO		CCTO-750	DTZ-75	NP075	CN0475	10TCC-Q75
C52	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C53	20 NPO 10%		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C54	15 NPO		CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C55	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C57	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C58	3 NPO		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C59	.04 50V		CCD-403			GP140	5GA-S40
C60	3 NPO		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C62	200		CCD-201	DD-201	GP200	GP320	10TS-T20
C63	.04		CCD-403			GP140	5GA-S40
C64	.04 50V		CCD-403			GP140	5GA-S40
C65	20 NPO		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C67	.02		CCD-203	DC-203		MAG5012	2SS-S20
C68	.04 50V		CCD-403			GP140	5GA-S40
C69	150		CCD-151	DD-151		CN0315	10TCC-T15
C70	50		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C71	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C72	40 NPO		CCTO-390			CN0439	10TCC-Q39
C73	200		CCD-201	DD-201	GP200	GP320	10TS-T20
C74	50		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C75	50		CCTO-510	DTZ-50	NP050	CN0450	10TCC-Q50
C76	30 NPO		CCTO-300				10TCC-Q30
C77	1					CN0510	10TCC-V10
C78	.1 10%						
C79	.02		CCD-203	DC-203		MAG5012	2SS-S20
C80	15 NPO		CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C81	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C82	10 +.5pF						
C101	7 +.5 NPO			DTZ-6R8	NP06P8		10TCC-V68
C102	7 +.5 NPO			DTZ-6R8	NP06P8		10TCC-V68
C103	1 NPO					CN0510	10TCC-V10
C104	7 +.5 NPO			DTZ-6R8	NP06P8		10TCC-V68
C105	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C106	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C107	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C108	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C109	2-10	2222-801-96128 2222-801-96128					
C110	2-10						
C111	68 NPO		CCTO-680	DTZ-68	NP068	CN0468	10TCC-Q68
C112	68 NPO		CCTO-680	DTZ-68	NP068	CN0468	10TCC-Q68
C113	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C114	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C115	1 NPO					CN0510	10TCC-V10
C116	1 NPO					CN0510	10TCC-V10
C117	7 +.5 NPO			DTZ-6R8	NP06P8		10TCC-V68
C118	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C119	.01 50V		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C120	5 NPO		CCTO-Q50				10TCC-V50
C121	5 NPO		CCTO-Q50				10TCC-V50

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.
R26 R35	Volume/Switch SqueIch	10K 30K	B-8548-7				
R62 R69	SqueIch "RF" Meter	10K 30K	B-8548-8	TSV-50K or T-50K	C-503	MTC54L1	X201R503B
R75	"S" Meter	30K		TSV-50K or T-50K	C-503	MTC54L1	X201R503B

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L2	RF Choke	121873-AH3			
L3	RF Choke	A-11105-1			
L4	RF Choke	B-9263			
L5	Pi Filter (27MHz)	121873-AH3			
L6	Pi Filter (27MHz)	121873-AH3			
L7	TVI Trap (54MHz)	121873-AH-4			
L101	VHF Osc (162.550MHz)	01871-BA1			
L102	VHF Mixer (162.550MHz)	01871-BA5			
L103	VHF Osc (162.550MHz)	9310-12			
L104	RF Choke (.68uH)	9310-80			
L105	VHF Osc (.47uH)	9310-06			
L106	VHF Osc (162.550MHz)				
T1	Rec. Ant. (27MHz)	RFXN-1310			
T2	Rec. RF (27MHz)	KXC-7343			
T3	10MHz IF	KAC-6184A			
T4	10MHz IF	KAC-6184A			
T5	Input IF (455kHz)	YMC-150002A			
T6	Output IF (455kHz)	YMC-150002A			
T9	Harmonic Sup. (27MHz)	KXC-7343			
T10	Harmonic Sup. (27MHz)	KXC-7343			
T11	Xmit. Mixer (27MHz)	KXC-7343			
T12	Xmit. Driver (27MHz)	KXC-7343			
T101	VHF Mixer (10.7MHz)	KAC-6184A			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (O CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L1	1400mA	.1	.65mH	C-5303 C5303-1 (1)			(1) Number on unit.

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T7	1	1		C-5304 C5304-1 (1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T8	32	8	C-5305 C5304-1 (1)			(1) Number on unit.

PARTS LIST AND D

(When ordering parts, sta

SPEAKER

ITEM No.	TYPE
LS1	3" X 5" PM 8 Ohms

FUSE DEVICES

ITEM No.	DESCRIPTION
F1	3 Amp Fast Acting

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.
Y1	16.285	
Y2	16.335	
Y3	16.385	
Y4	16.435	
Y5	16.485	
Y6	16.535	
Y7	10.680	
Y8	10.690	

MISCELLANEOUS

ITEM No.	PART NAME
CF1	Ceramic Filter
M1	Meter
SW1	Switch
S101	Switch
S102	Switch
MK1	Microphone Assembly

CABINETS & CABINETS

ITEM
Cover
Microphone Hanger
Escutcheon

ACCESSORIES

ITEM
Power Cord

RAY JEFFERSON MODEL CB-711

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R26 R35	Volume/Switch Squelch	10K 30K	B-8548-7	TSV-50K or T-50K	C-503	MTC54L1	X201R503B
R62 R69	Squelch "RF" Meter	10K 30K	B-8548-8	TSV-50K or T-50K	C-503	MTC54L1	X201R503B
R75	"S" Meter	30K		TSV-50K or T-50K	C-503	MTC54L1	X201R503B

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L2	RF Choke	121873-AH3			
L3	RF Choke	A-11105-1			
L4	RF Choke	B-9263			
L5	Pi Filter (27MHz)	121873-AH3			
L6	Pi Filter (27MHz)	121873-AH3			
L7	TVI Trap (54MHz)	121873-AH-4			
L101	VHF Osc (162.550MHz)	01871-BA1			
L102	VHF Mixer (162.550MHz)	01871-BA5			
L103	VHF Osc (162.550MHz)	9310-12			
L104	RF Choke (.68uH)	9310-80			
L105	VHF Osc (.47uH)	9310-06			
L106	VHF Osc (162.550MHz)				
T1	Rec. Ant. (27MHz)	RFXN-1310			
T2	Rec. RF (27MHz)	KXC-7343			
T3	10MHz IF	KAC-6184A			
T4	10MHz IF	KAC-6184A			
T5	Input IF (455kHz)	YMC-150002A			
T6	Output IF (455kHz)	YMC-150002A			
T9	Harmonic Sup. (27MHz)	KXC-7343			
T10	Harmonic Sup. (27MHz)	KXC-7343			
T11	Xmit. Mixer (27MHz)	KXC-7343			
T12	Xmit. Driver (27MHz)	KXC-7343			
T101	VHF Mixer (10.7MHz)	KAC-6184A			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L1	1400mA	.1	.65mH	C-5303 C5303-1 (1)			(1) Number on unit.

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T7	1	1		C-5304 C5304-1 (1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T8	32	8	C-5305 C5304-1 (1)			(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
LS1	3" X 5" PM 8 Ohms	107EP-05		

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	3 Amp Fast Acting	AGC3		AGC3	1A1310-05	312003	102068	F63-2

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
Y1	16.285		ARA80M16.285	1,2,3,4	Y9	10.700		ARB80M10.700	3,7,11,15,19
Y2	16.335		ARA80M16.335	5,6,7,8	Y10	10.720		ARB80M10.720	4,8,12,16,20,23
Y3	16.385		ARA80M16.385	9,10,11,12	Y11	10.225		ARC20M10.225	4,8,12,16,20,23
Y4	16.435		ARA80M16.435	13,14,15,16	Y12	10.235		ARC20M10.235	3,7,11,15,19
Y5	16.485		ARA80M16.485	17,18,19,20	Y13	10.245		ARC20M10.245	2,6,10,14,18,22
Y6	16.535		ARA80M16.535	21,22,23	Y14	10.265		ARC20M10.265	1,5,9,13,17,21
Y7	10.680		ARB80M10.680	1,5,9,13,17,21	Y101	162.550	A-10871-W1	ARD20M50.61666	
Y8	10.690		ARB80M10.690	2,6,10,14,18,22	Y102	162.400	A-10871-W2	ARD20M50.56666	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Ceramic Filter	CFU455H	455kHz
M1	Meter	B-9264	S/RF
SW1	Switch	C-5279	Channel Selector
S101	Switch	80-3A	VHF (Ch 1, Ch 2)
S102	Switch	1109	VHF/CB
MK1	Microphone Assembly	C-4937	

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

ITEM	PART No.	ITEM	PART No.
Cover	B-6958	Knob Volume, Fine Tuning, Squelch	B-8972
Microphone Hanger	B-9066	Knob Channel Selector	B-9114
Escutcheon	B-9245-1		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Power Cord	B-9281-1	

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