

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 CR-240

REGENCY MODEL CR-240

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

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7CY484

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

L205, L206, L207, L213, L214, L217 5009

L1, L2, L5, L201, L202, L203, L204, L208,

L209, L210, L211, L212, L221, L222 9440

CT1 5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP10.	Ch. 13	CT1	Adjust for 10.240MHz.
Input of DC meter to TP5.	Ch. 13	L2	Adjust for 2.1 volts.
Inputs of frequency counter and RF VTVM to TP2.	Ch. 13	L5	Adjust for 5.120MHz at maximum.
Inputs of frequency counter and RF VTVM to TP1.	Ch. 13	L1	Adjust for 21.540MHz at maximum.
Input of frequency counter to TP1.	Ch. 1		Check for 21.390MHz. Repeat for all channels. (Channel frequency-5.575MHz=frequency on counter.)
Inputs of frequency counter and RF VTVM to TP201.	Ch. 13, Xmit	L208	Adjust for 5.575MHz at maximum.

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 TP2. 455kHz, 1000Hz @ 30% modulation.	Ch. 13 LOCAL/DX-DX NB-Off	L207,L206, L205	Adjust for maximum output.
Output of signal generator thru .01uF to TP11. 5.575MHz, 1000Hz @ 30% modulation.	Ch. 13	L204,L203	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 13	L202,L201	Adjust for maximum output. Repeat above steps, if necessary.
Output of signal generator thru .01uF to antenna jack. 23.500MHz. Input of RF VTVM to TP204.	Ch. 13 NB-On	L221,L222	Adjust for maximum.

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 50,000uV.	Ch. 13 LOCAL/DX-DX NB-Off	VR202	AGC Adjust volume to obtain 0db. Decrease generator to 50uV. Adjust VR202 so that audio signal does not drop more than 10db.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 200uV.	Ch. 13	VR208	SQUELCH RANGE Set squelch control VR209 fully counterclockwise. Adjust VR208 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 13	VR212	S METER Adjust VR212 for 9 on S scale of meter.

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TRANSMITTER ALIGNMENT

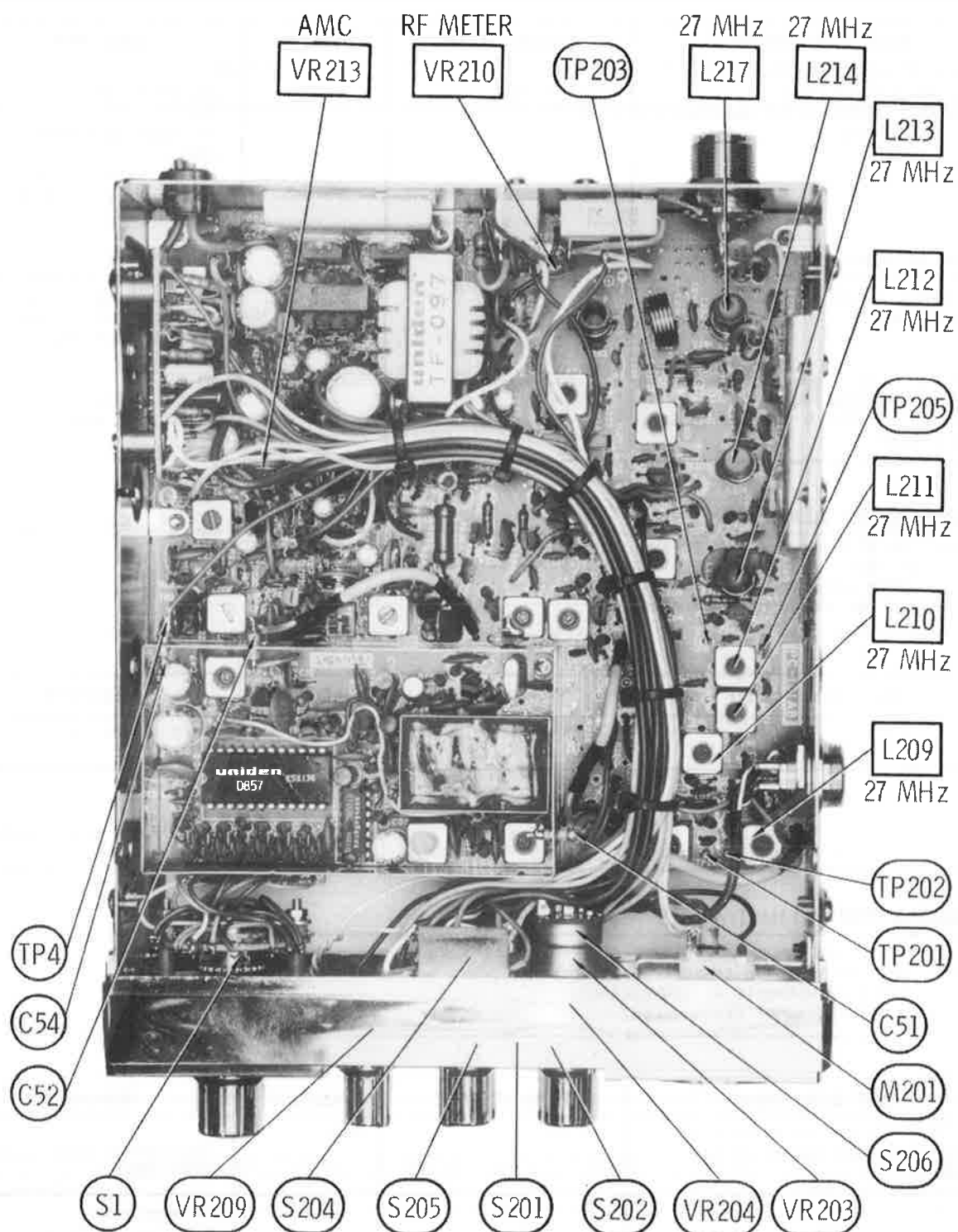
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 13	L209,L210, L211,L212, L213,L214, L217	Adjust for maximum.
	Ch. 13	L217	Adjust for 4 watts maximum.

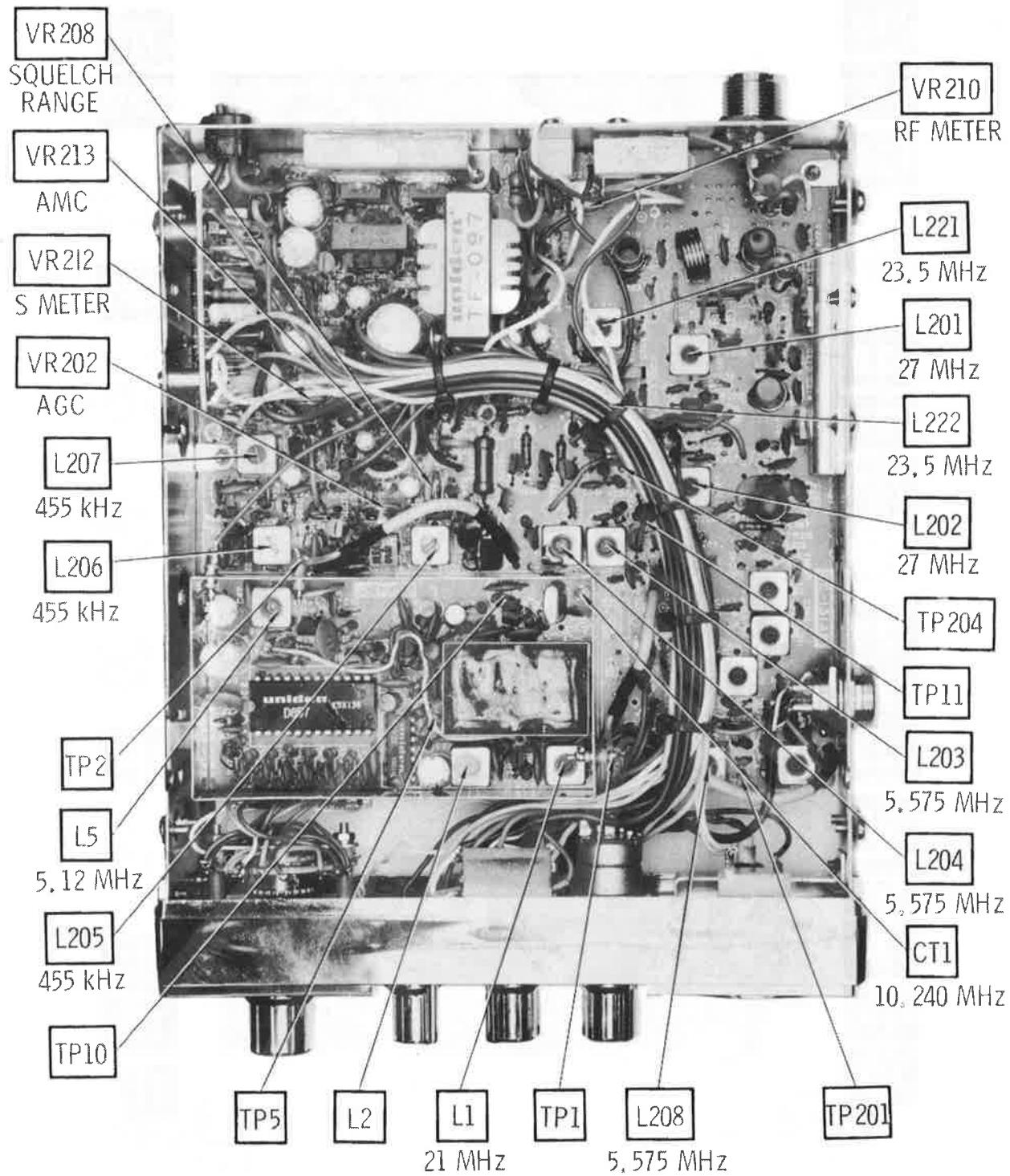
TRANSMITTER ADJUSTMENTS

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.
See page 4 for channel frequencies.

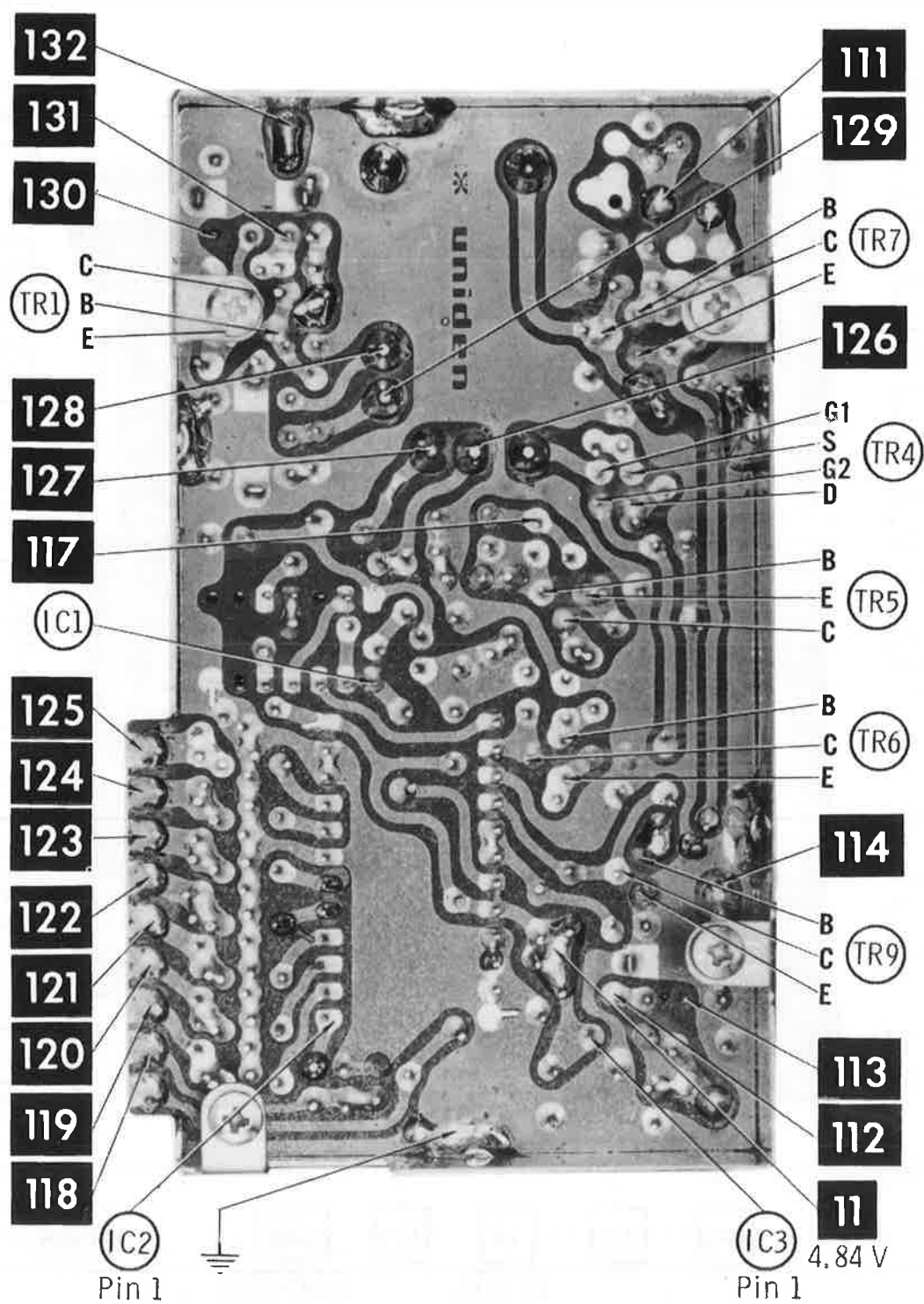
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 1000Hz signal at mic input.	Ch. 13	VR213	AMC Disconnect C293 to disable AMC. Adjust signal for over-modulation. Restore AMC operation. Adjust VR213 for 100% modulation maximum.
	Ch. 13	VR210	RF PANEL METER Adjust for 2/3 scale of power meter.



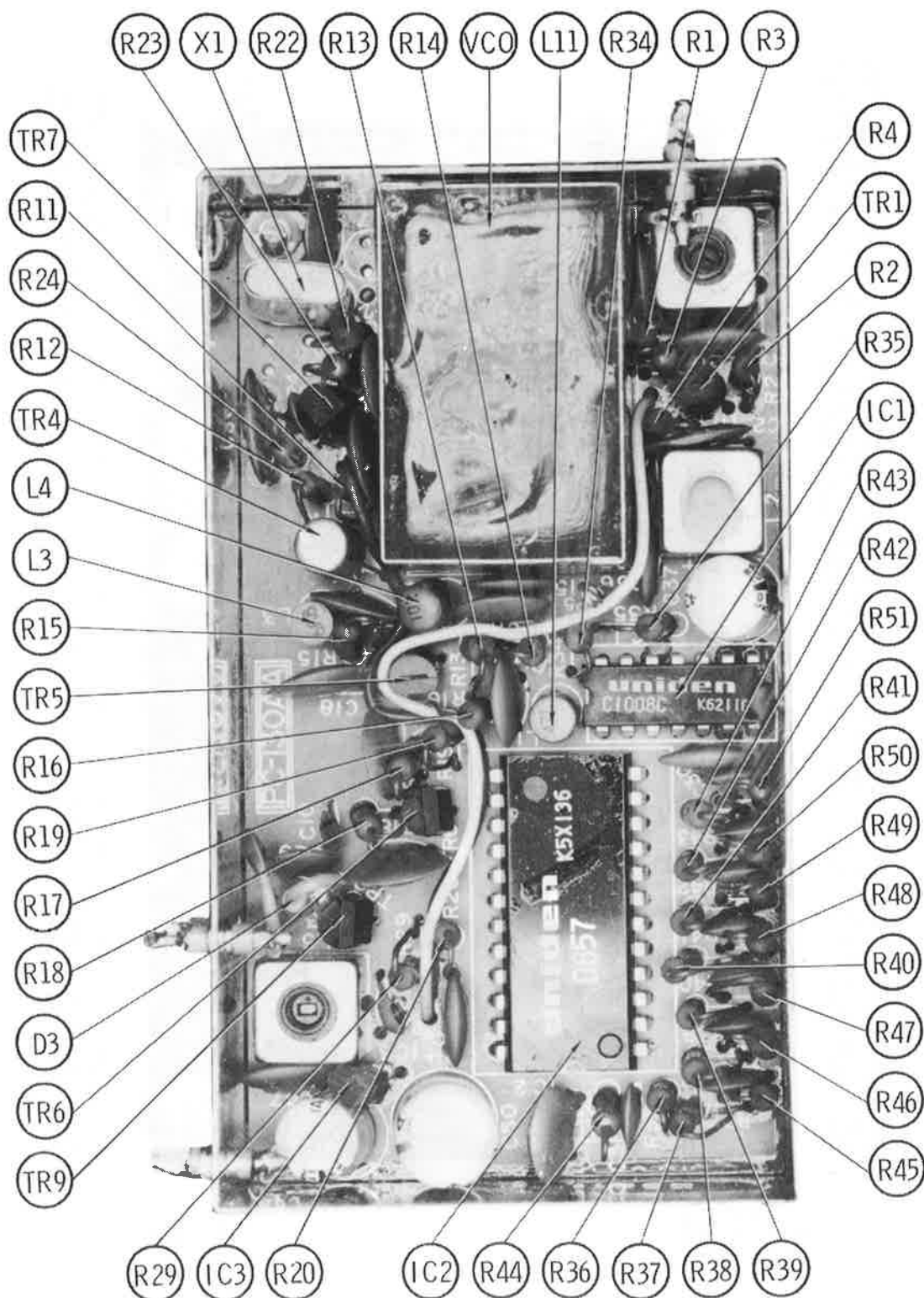
CHASSIS-BOTTOM



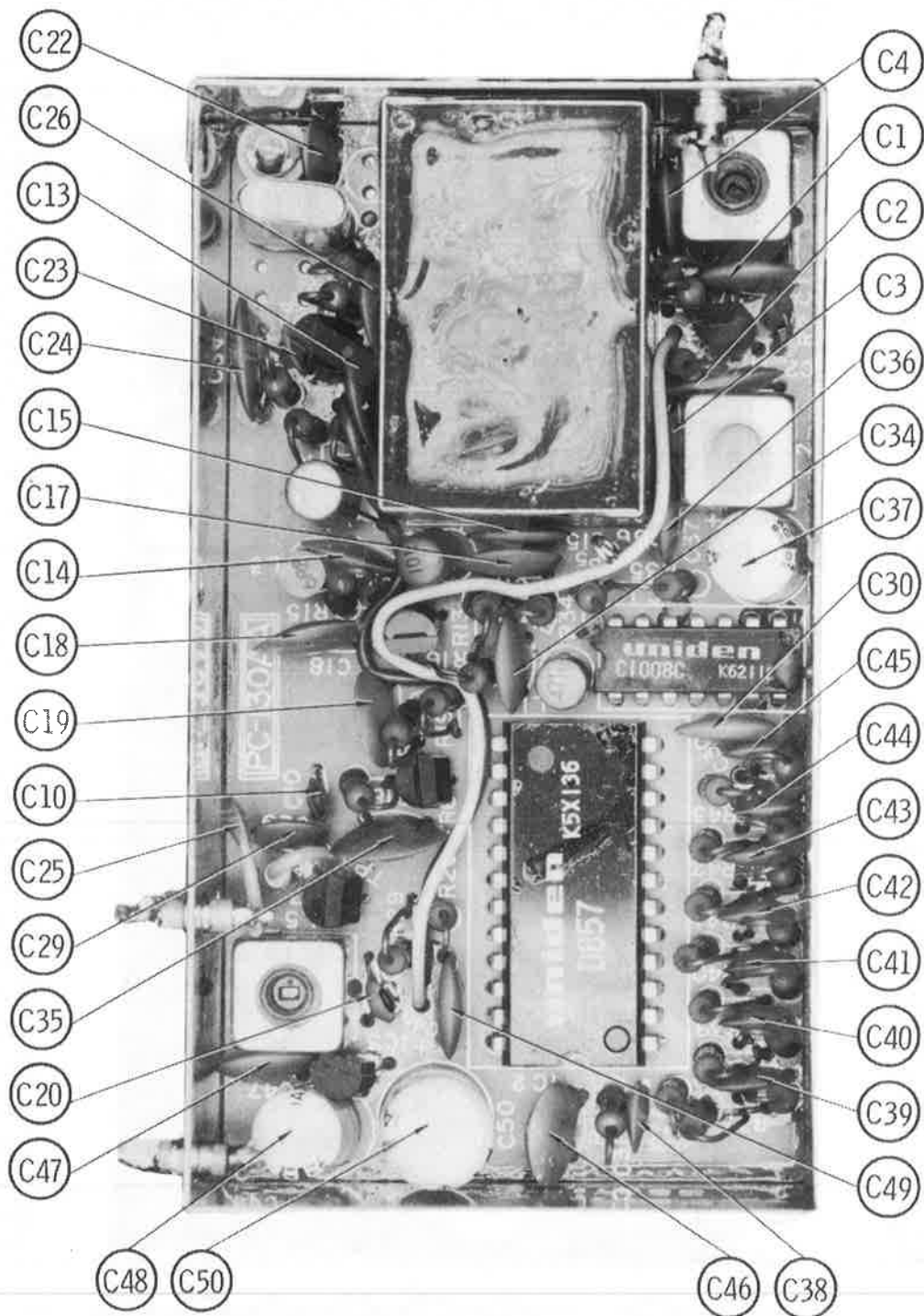
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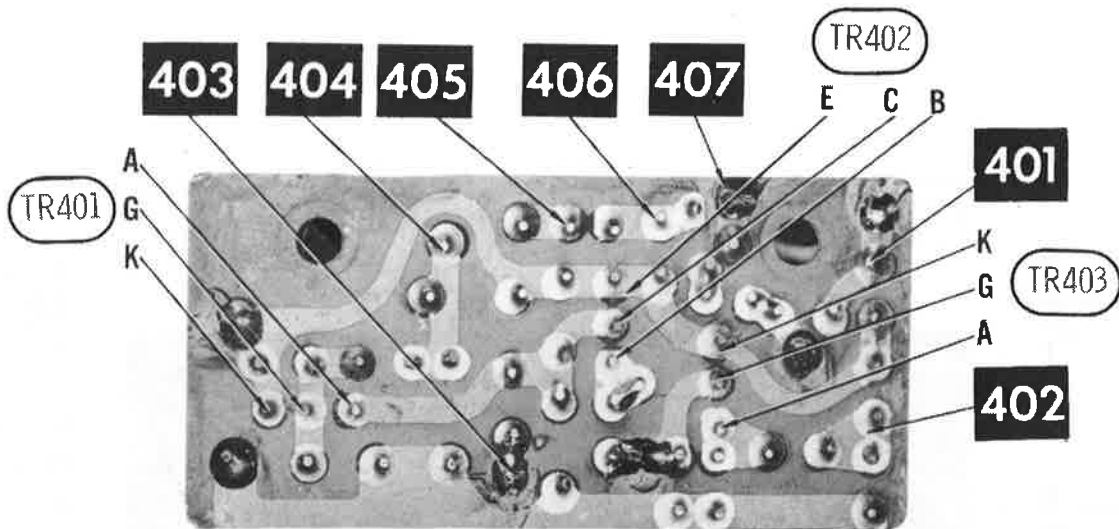
SYNTH BOARD



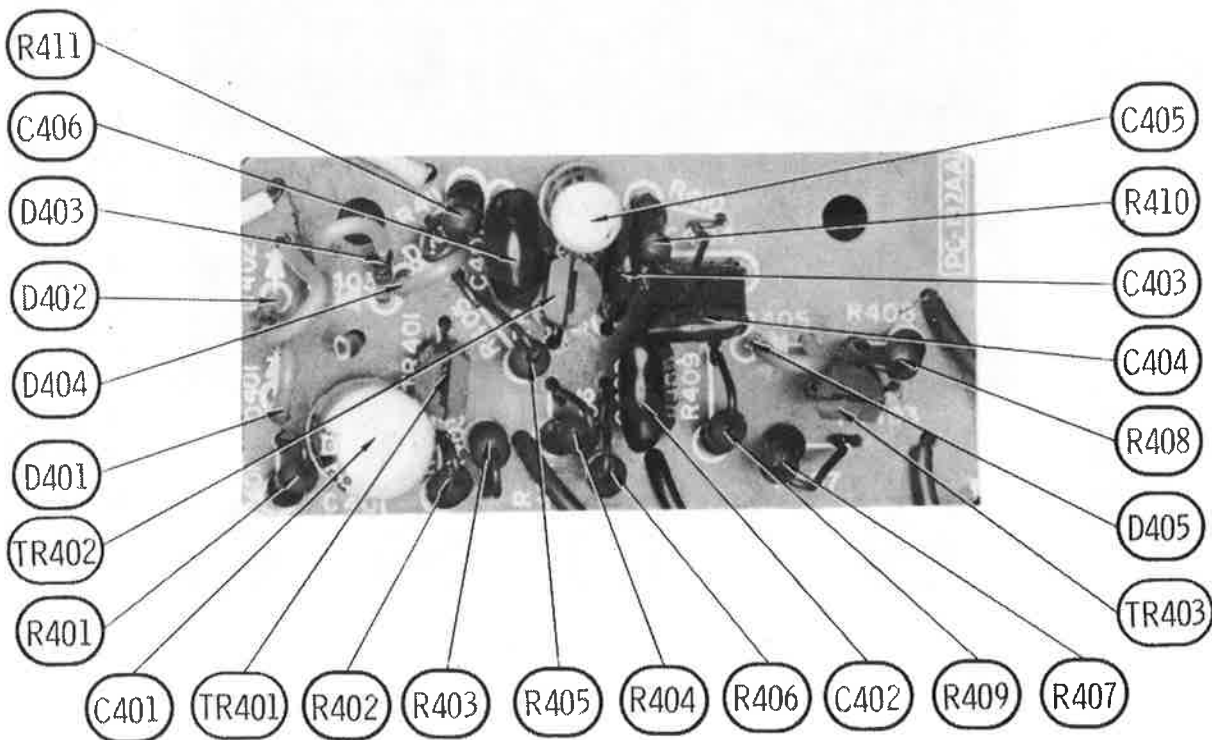
SYNTH BOARD



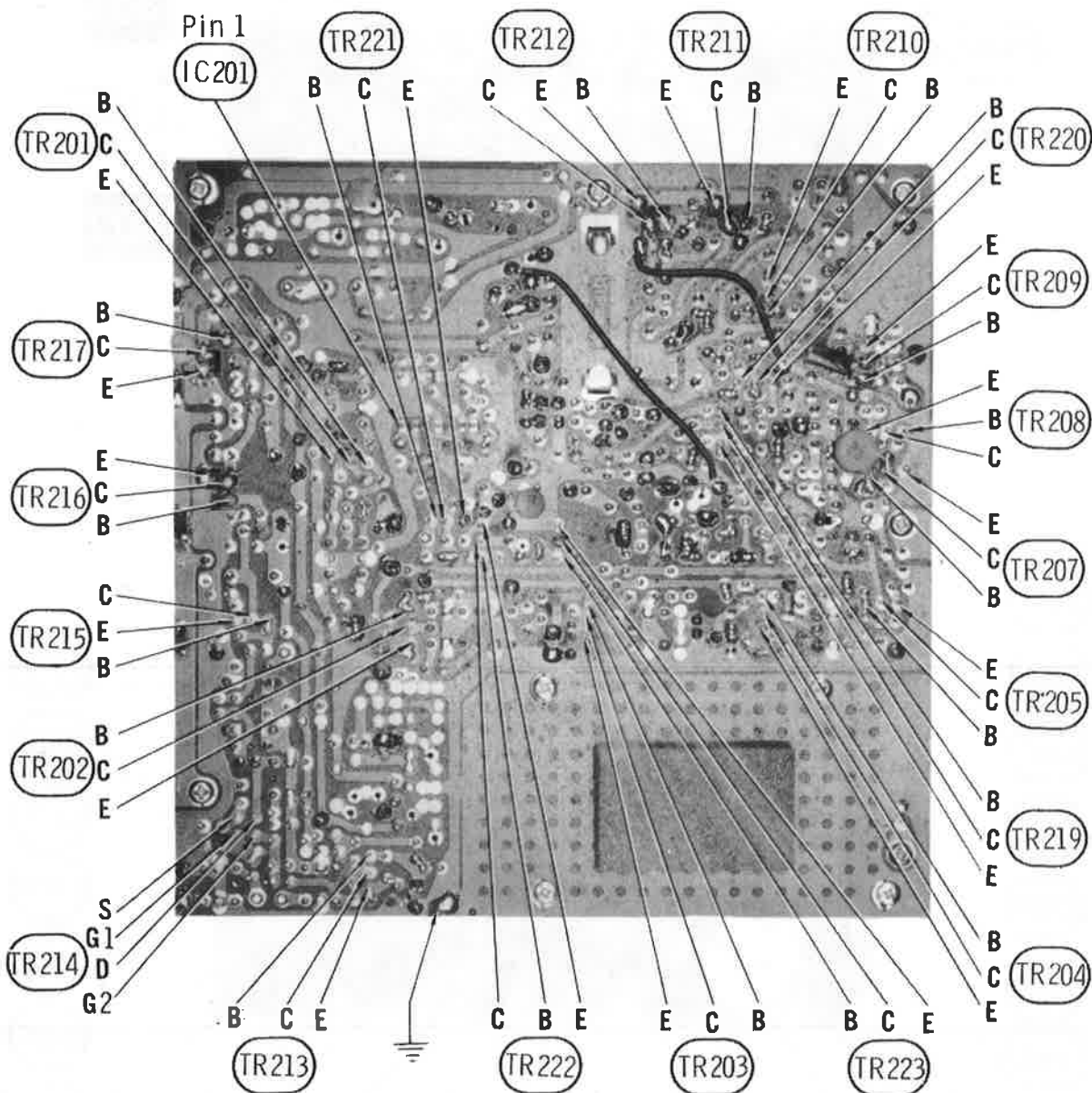
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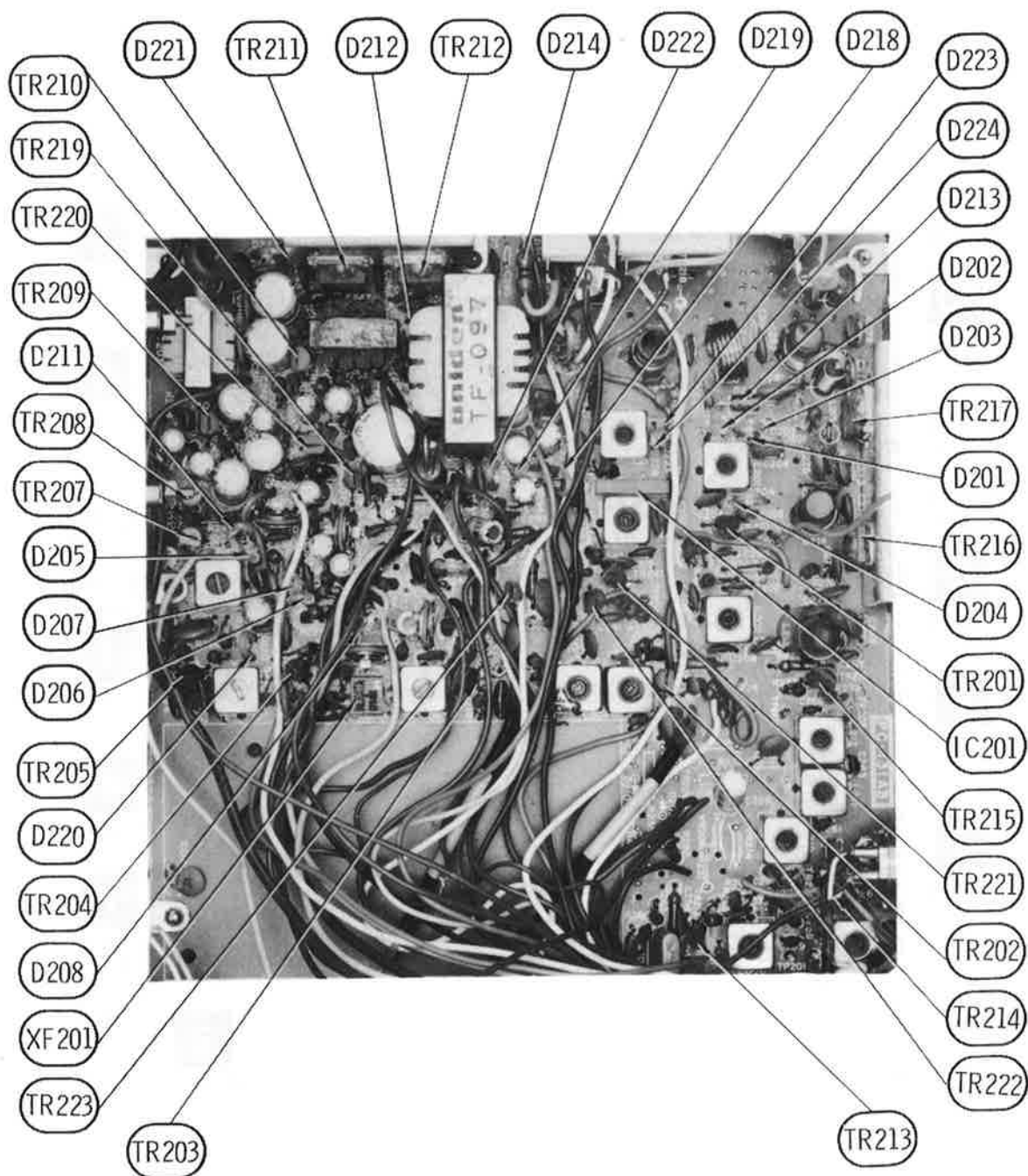
REGENCY MODEL CR-240



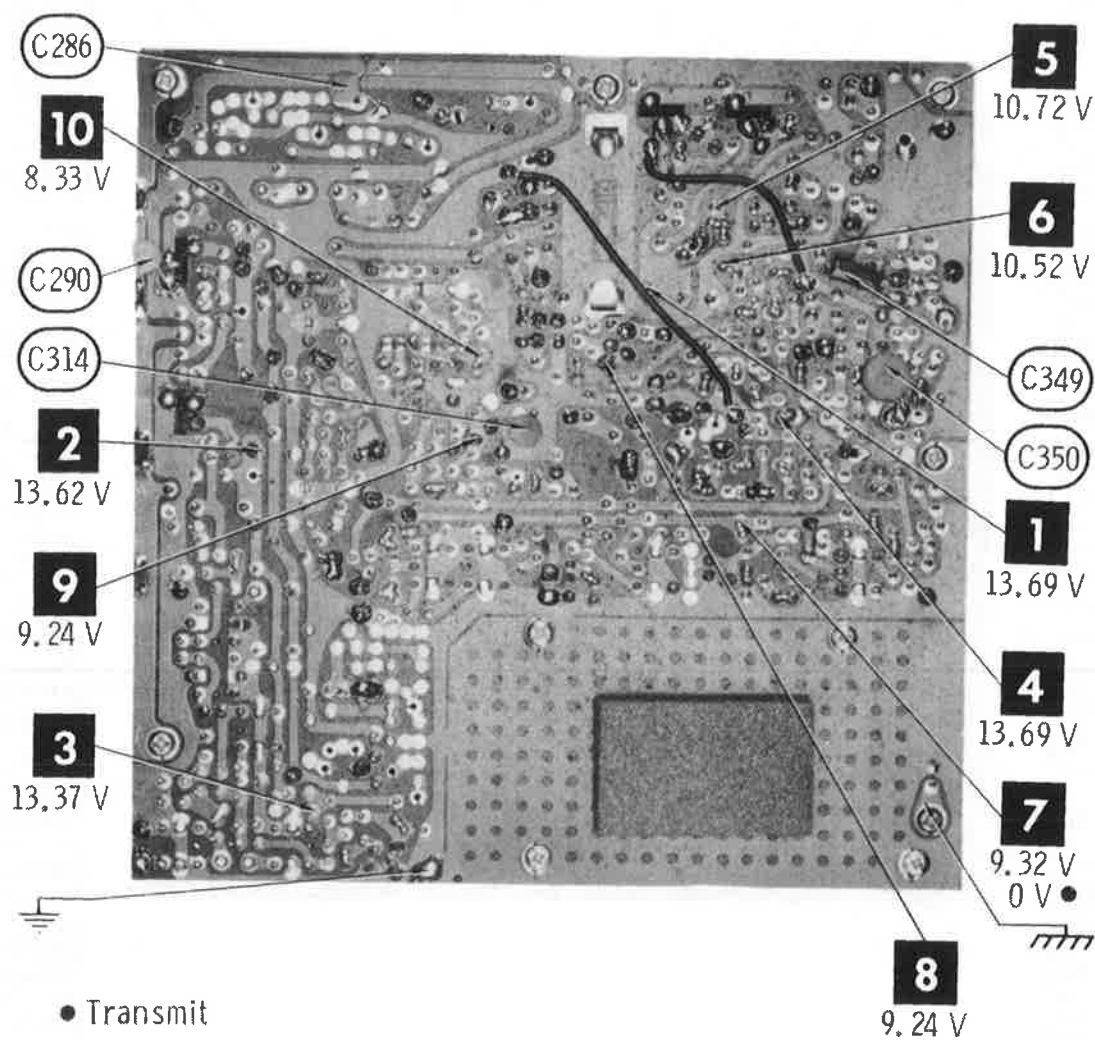
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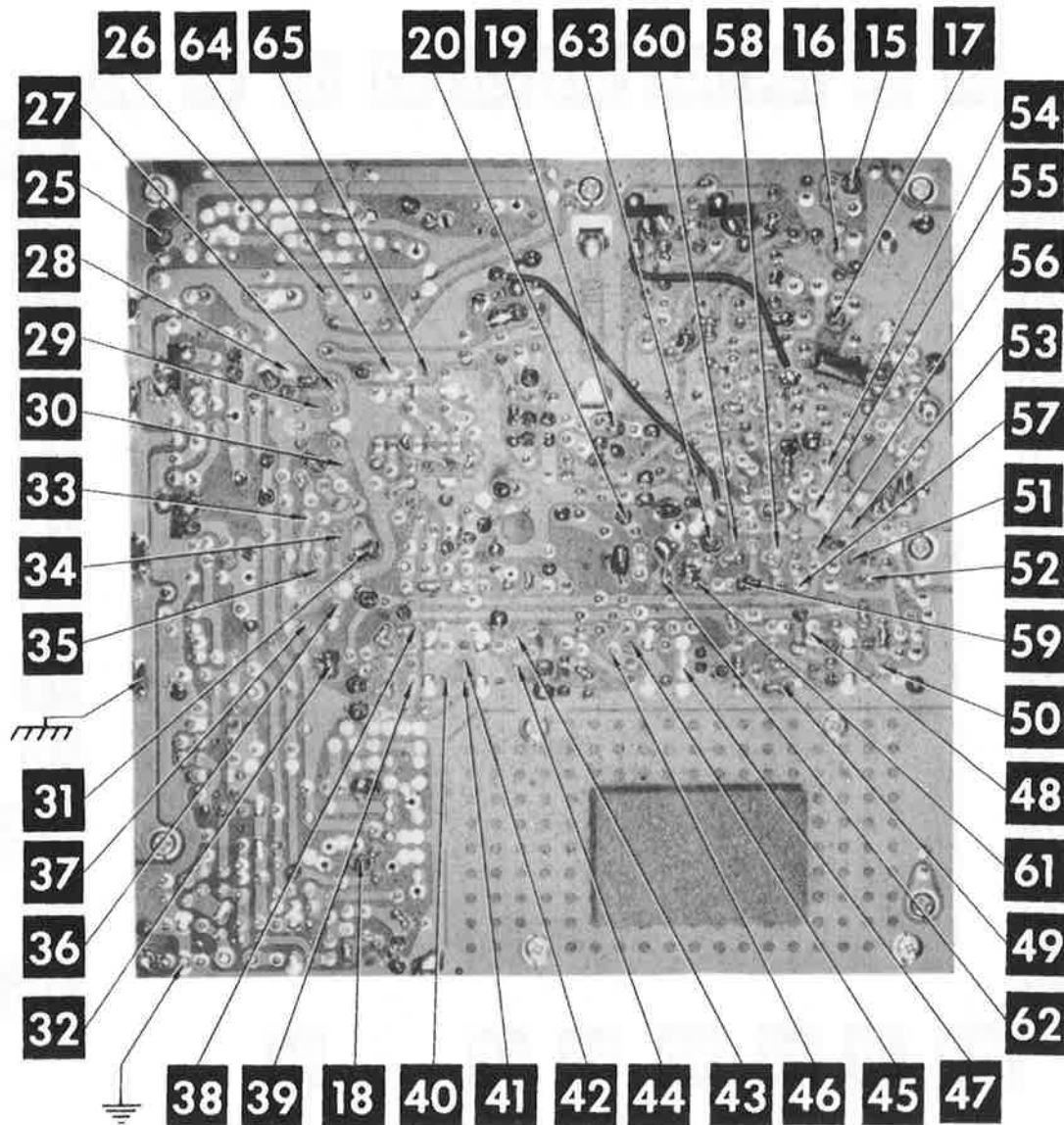
MAIN BOARD



MAIN BOARD

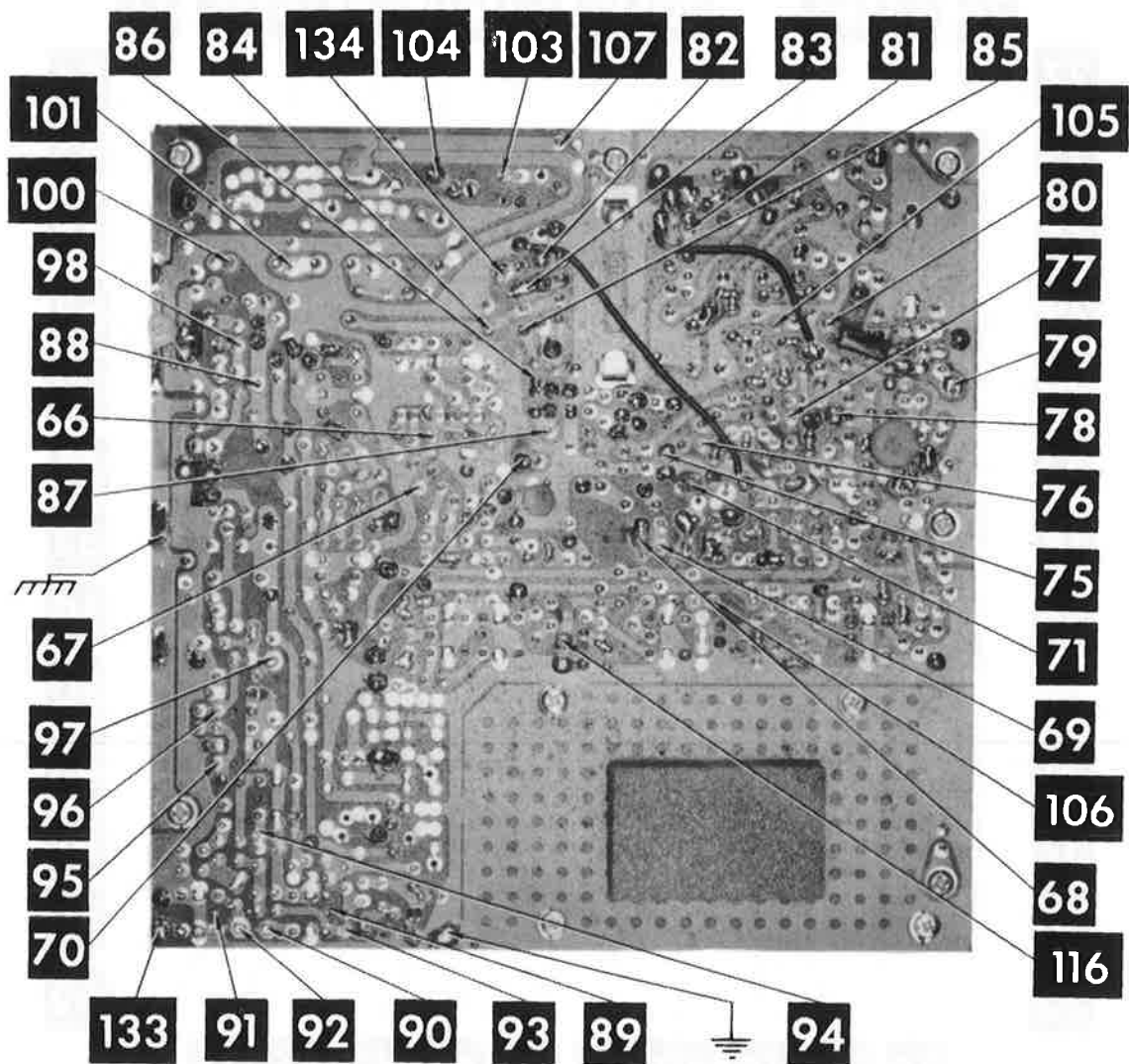


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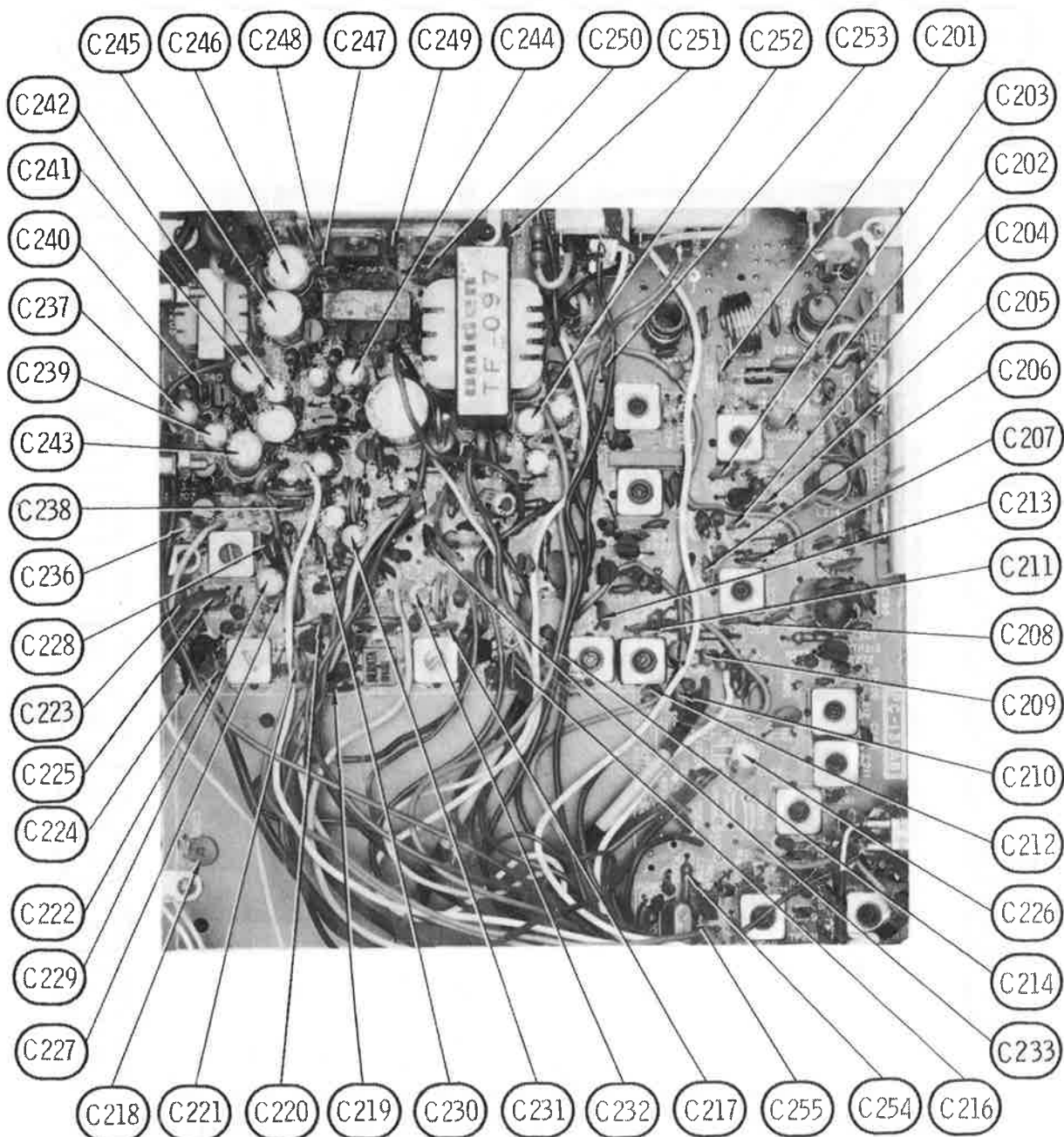


REGENCY MODEL CR-240

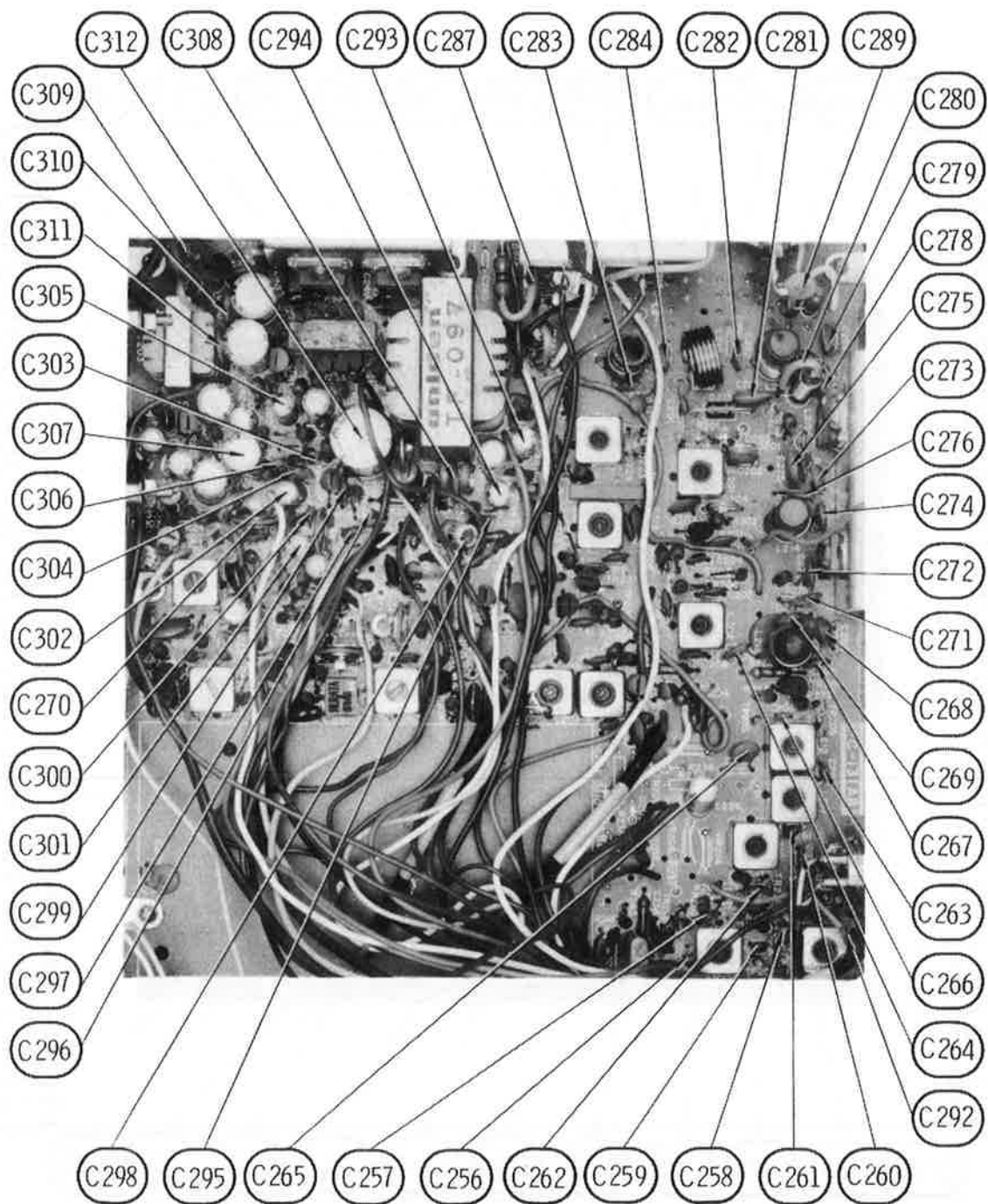
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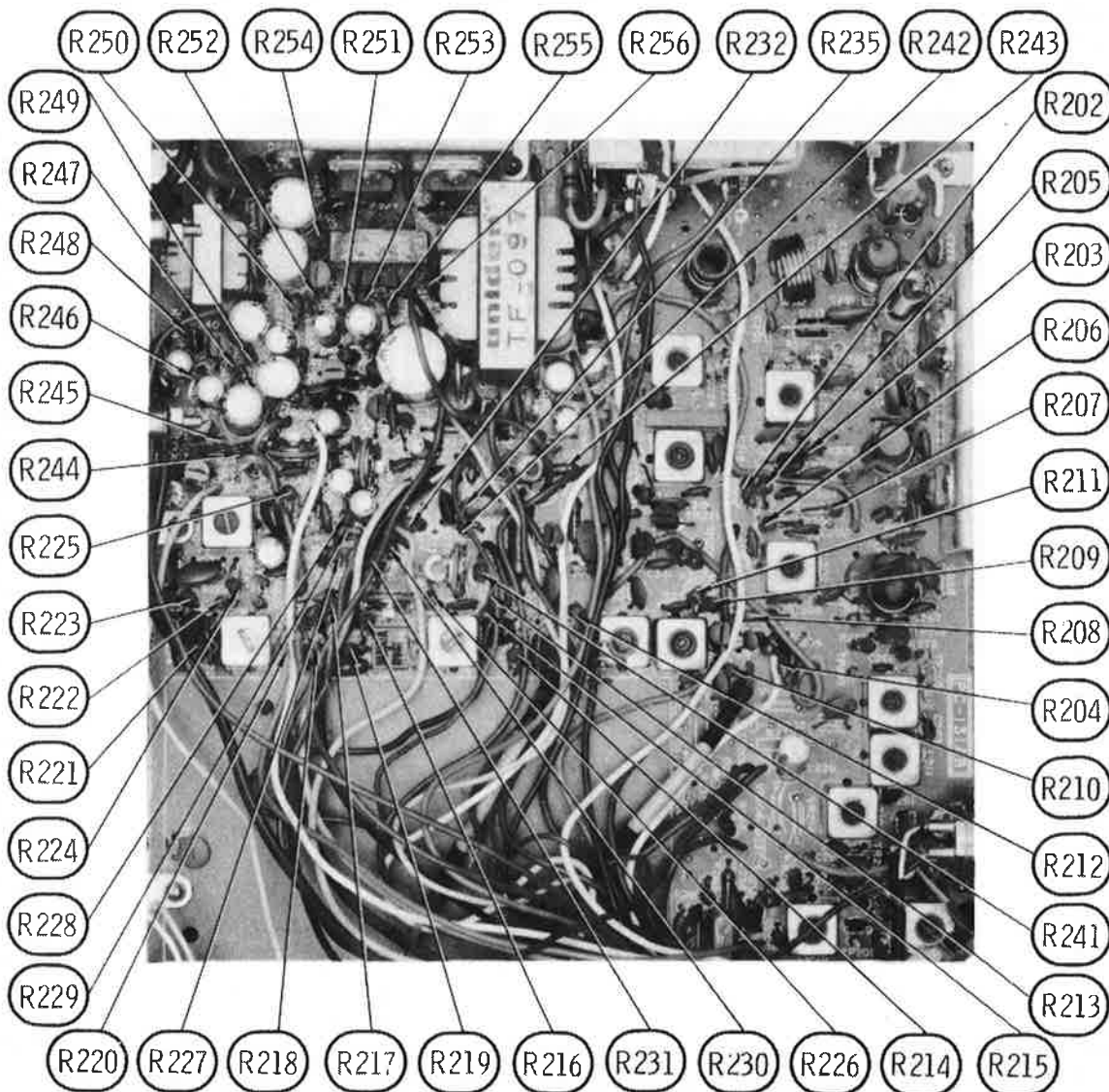
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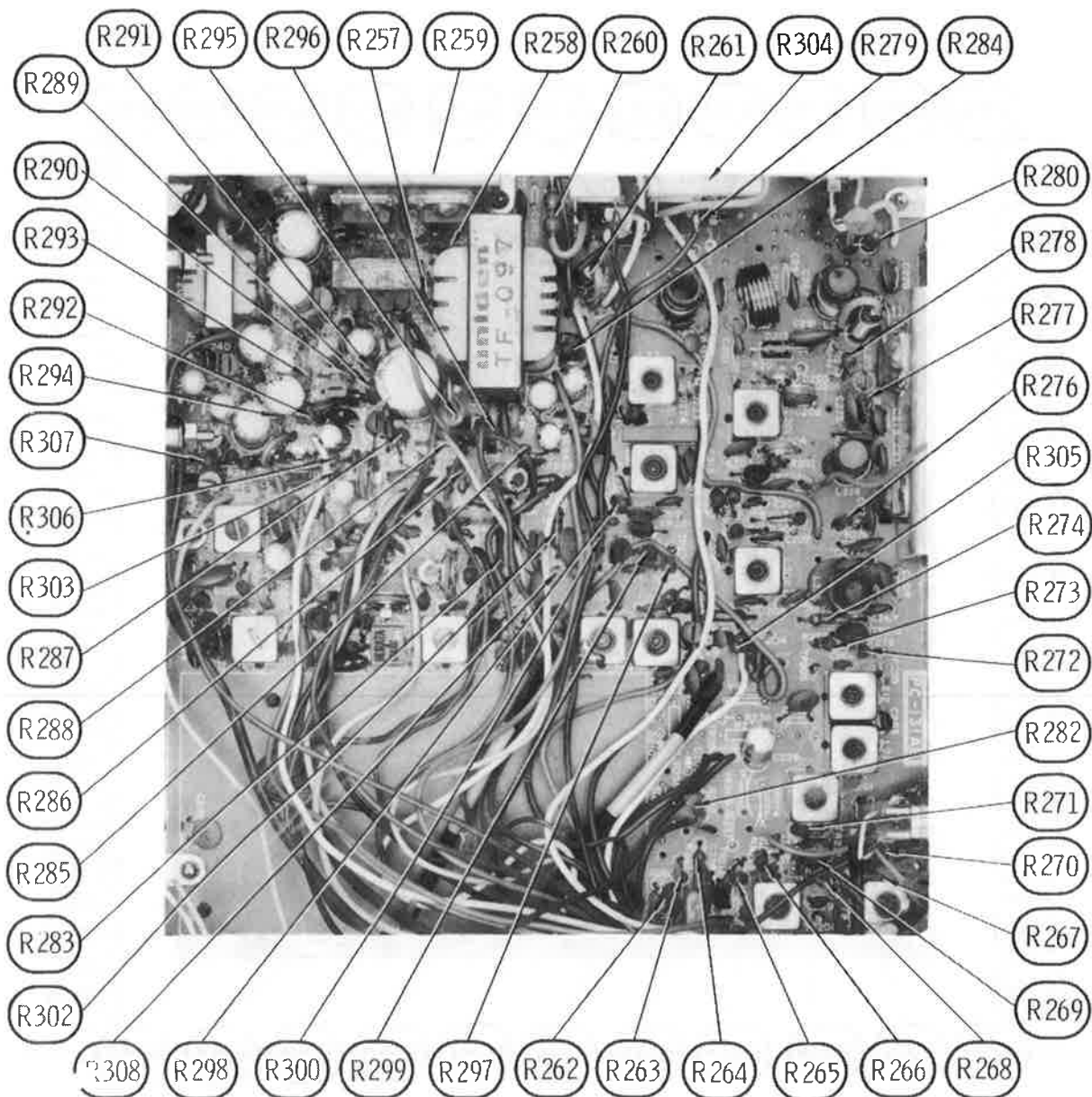
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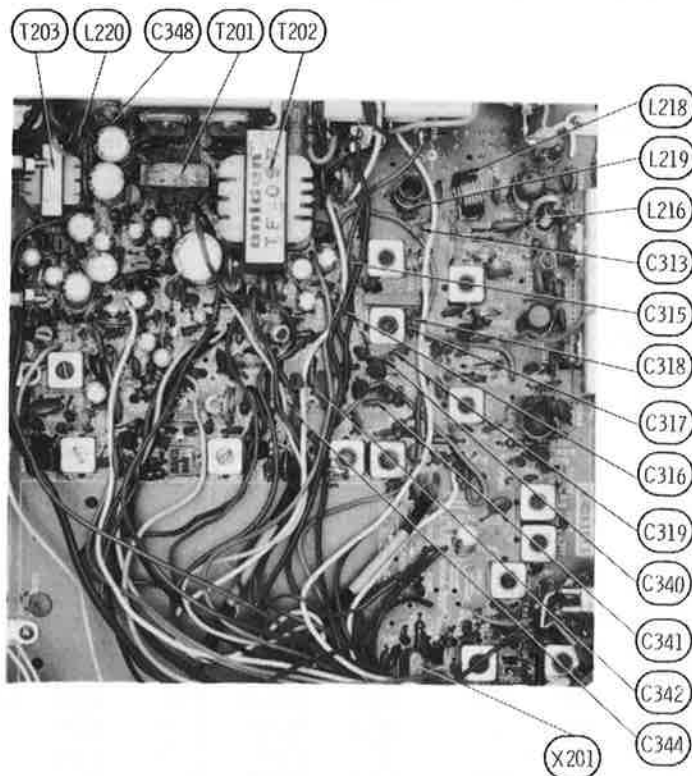
MAIN BOARD



MAIN BOARD

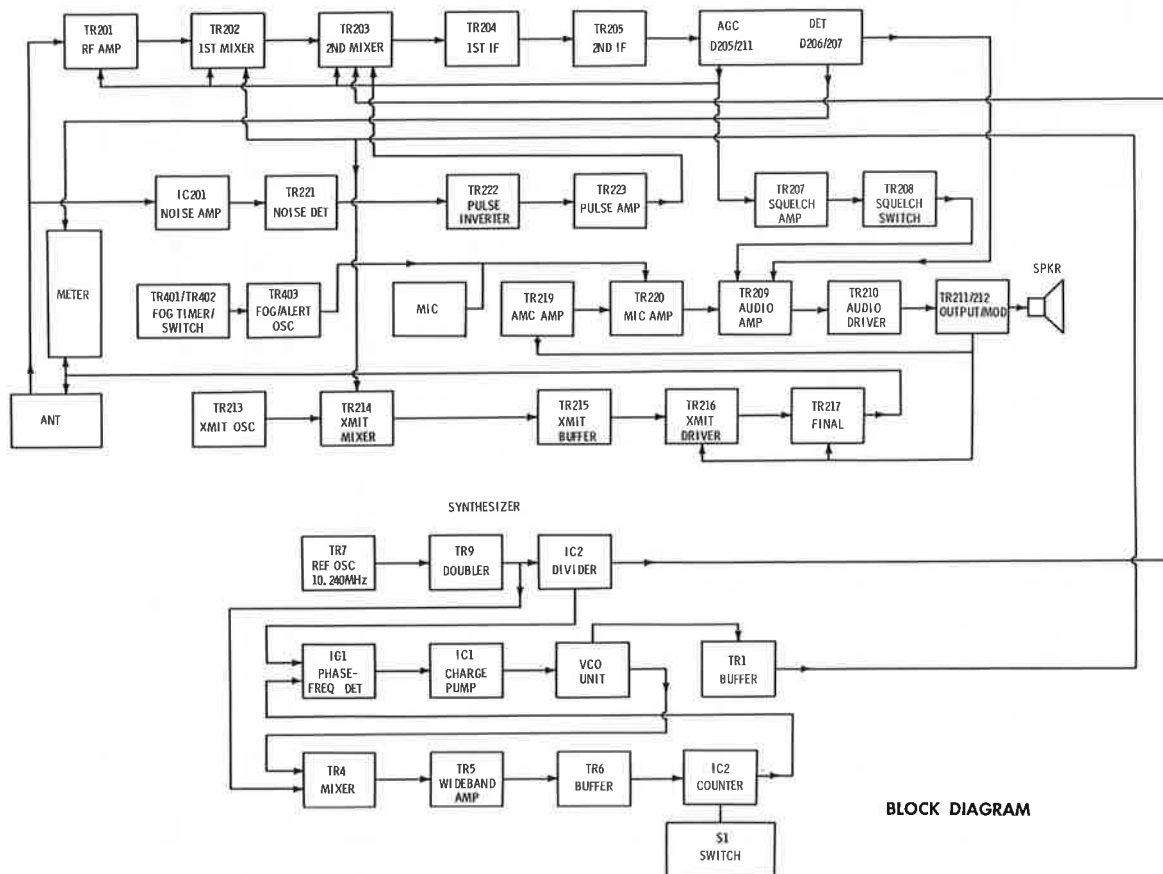


MAIN BOARD



MAIN BOARD

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BLOCK DIAGRAM

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 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

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.
D3	1S1588	DDAY047001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D201	1S1588	DDAY047001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D202	1S1588	DDAY047001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D203	1S1588	DDAY047001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D204	WG713	DDAY004001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D205	1N60	DDAY001004	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D206	1N60	DDAY001004	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D207	1N60	DDAY001004	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D208	WG713	DDAY004001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D211	1N60	DDAY001004	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D212	MV-1	DDFY007001			PTC301					
D213	SR1K-1	DDBY002001	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D214	1N60	DDAY001004	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D218	1N60	DDAY001004	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D219	1N60	DDAY001004	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D220	CZ-092	DDAY010002	GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D221	SR1K-1	DDBY002001	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D222	CZ-092	DDAY010002	GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D223	1S1588	DDAY047001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D224	1S1588	DDAY047001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D401	WG713	DDAY004001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D402	WG713	DDAY004001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D403	WG713	DDAY004001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D404	WG713	DDAY004001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D405	WG713	DDAY004001	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC1	UPC1008C	DDEY032001								
IC2	MC4004(1)									
IC3	UPD857C	DDEY037001								
IC201	78L05AV	DDEY046001								
TR1	TA7061AP	DDEY004001	GEIC-92	WEP914	PTC781					
	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675L	DDBY259001(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC372(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
TR4	3SK458	DDCY104001	GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
	3SK41 (1)		GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
TR5	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675L	DDBY259001(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC372		GE-61 *	(1R)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
TR6	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675L	DDBY259001(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
TR7	2SC373(1)		GE-212	(1R)2SC373	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-105	ECG199
	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675L	DDBY259001(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC372(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
TR9	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675L	DDBY259001(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC372(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
TR201	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675M	DDBY259002(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC394(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0014 *	RE 9	SK3018 *	RT-309	ECG229 *
TR202	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675M	DDBY259002(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC394(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0014 *	RE 9	SK3018 *	RT-309	ECG229 *
TR203	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675M	DDBY259002(1)	GE-2.3	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC394(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0014 *	RE 9	SK3018 *	RT-309	ECG229 *
TR204	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675M	DDBY259002(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC394(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0014 *	RE 9	SK3018 *	RT-309	ECG229 *
TR205	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC1675M	DDBY259002(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *
	2SC394(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0014 *	RE 9	SK3018 *	RT-309	ECG229 *
TR207	2SC945		GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945AQ	DDBY224001(1)	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC372(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
TR208	2SA733		GE-65	TR-31	PTC103 *	HEPS5022 *	RE 26 *	SK3025 *	RT-303	ECG159 *
	2SA733R	DDBY003003(1)	GE-65	TR-31	PTC103 *	HEPS5022 *	RE 26 *	SK3025 *	RT-303	ECG159 *
	2SA495(1)		GE-221 *	(1R)2SA495	PTC103 *	HEPS0013 *	RE 26 *	SK3114	RT-303	ECG159 *
TR209	2SC945		GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945AQ	DDBY224001(1)	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC372(1)		GE-61 *	(1R)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
TR210	2SC1364		GE-210 *	(1R)2SC8298	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	2SC733	DDBY233001(1)	GE-62	(1R)2SC372	PTC139 *	HEPS0025 *	RE 192	SK3122	RT-302	ECG199
TR211	2SD313F	DDBY407001(11)	GE-66	TR-76	PTC154		RE 205	SK3054	RT-154	ECG196
TR212	2SD570(1)		GE-66	TR-76	PTC154		RE 205	SK3054	RT-154	ECG196
	2SD313F	DDBY407001(11)	GE-66	TR-76	PTC154		RE 205	SK3054	RT-154	ECG196
TR213	2SD570(1)		GE-66	TR-76	PTC154		RE 205	SK3054	RT-154	ECG196
	2SC1675		GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG229 *

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.	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.
TR214	2SC1675M	DOBX259002(1)	GE-213	TR-33	PTC139 *	HEPS0025 *	RE 13 *	SK3124	RT-308	ECG290 *
	2SC372(1)		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
TR215	3SK45	DDCY104002(1)	GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
	3SK45B		GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
TR216	2SC710	DDBY209003(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC7100		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
TR217	2SC2028/2	DDBY256001(1)	GE-270	WEP913	PTC180		RE 209			ECG295
	2SC2028A		GE-270	WEP913	PTC180		RE 209			ECG295
TR218	2SC1760		GE-276						RT-310	ECG306
	(1)(12)									
TR219	2SC2029/1	DDBY257001(1)	GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
	2SC2029B		GE-216		PTC186		RE 201	SK3197	RT-146	ECG235
TR220	2SC1816									
	(1)(13)									
TR221	2SC945	DDBY224003(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945AQ		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
TR222	2SC372(1)	DDBY224003(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	2SC945		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
TR223	2SC945AQ	DDBY224003(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC372(1)		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
TR401	2A733R	DDBY003003(1)	GE-65	TR-31	PTC103 *	HEPS0022 *	RE 26 *	SK3025 *	RT-303	ECG159 *
	2SA495(1)		GE-221 *	(IR)2SA495	PTC103 *	HEPS0013 *	RE 26 *	SK3114	RT-303	ECG159 *
TR402	2SC945	DDBY224003(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945AQ		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
TR403	2SC372(1)	DDFY017001	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	NT3T1					HEPS0001			RT-192	ECG6402

* Lead configuration may vary from original.

(1) Used in some versions.

(11) 30 WATT @ 3 AMP

(12) 950 mW @ 500 Ma

(13) 16 WATT @ 4 AMP

REGENCY MODEL CR-240

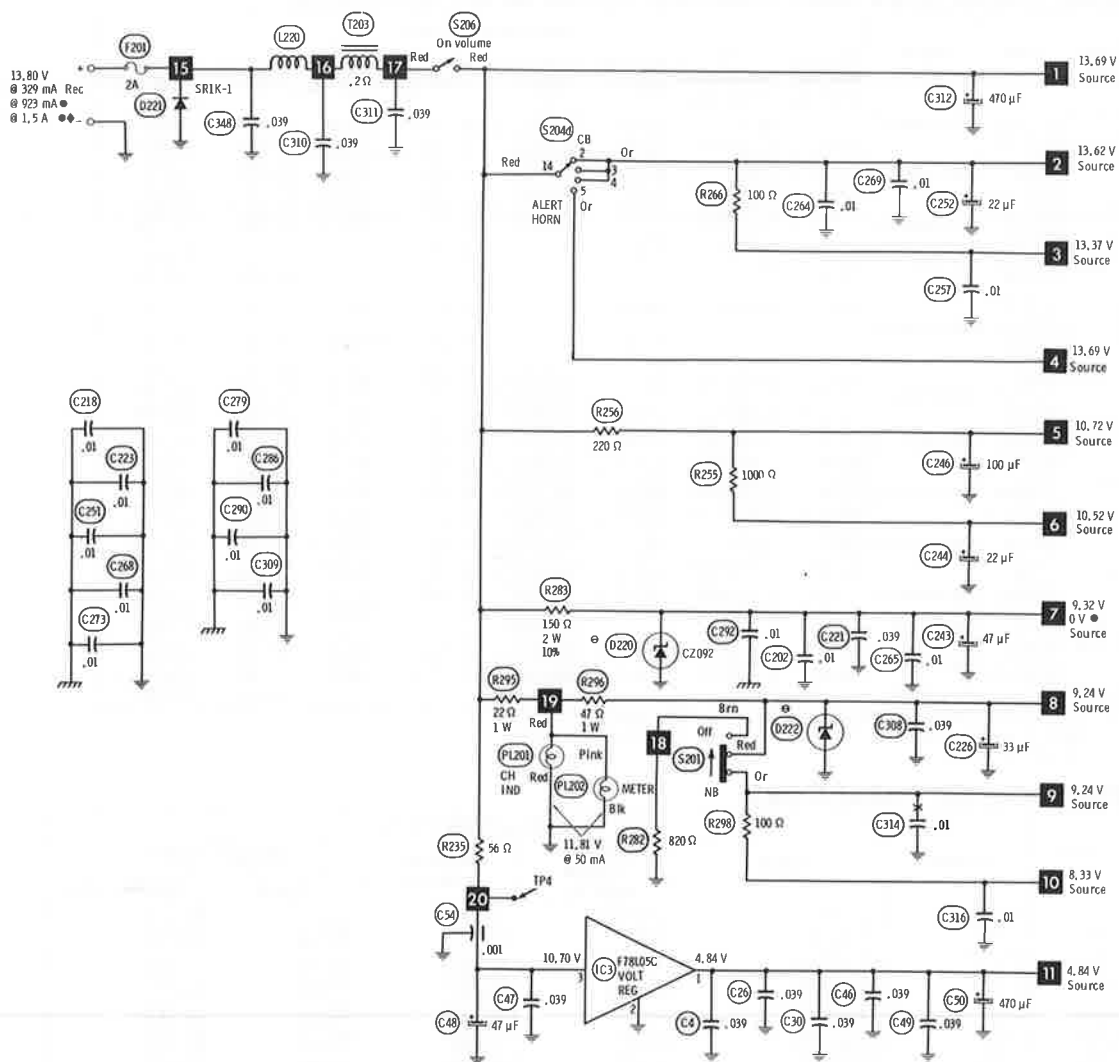
ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	GENERAL LINE
C37	100 10V	CELFI11010	PC100-10	VTT100E10	QV1-93	EV-1130
C48	47 16V	CELFI314700	PC50-16	VTT47D16	QV1-73	EV-1226
C50	470 6.3V	CELFI904710	PC500-16	VTT470J16	QV1-149	EV-1150
C226	33 16V	CELFI313300	PC30-25	VTT33D25	QV1-63	EV-1325
C229	33 16V	CELFI313300	PC30-25	VTT33D25	QV1-63	EV-1325
C231	10 16V	CELFI311000 (1)	PC10-25	VTT10A25	QV1-41	EV-1222
	1 50V	CELFI81090	PC1-50	VTT1B63	QV1-11	EV-1615
C232	1 50V	CELFI81090	PC1-50	VTT1B63	QV1-11	EV-1615
C237	1 50V	CELFI81090	PC1-50	VTT1B63	QV1-11	EV-1615
C236	10 16V	CELFI311000	PC10-25	VTT10A25	QV1-41	EV-1222
C239	10 16V	CELFI311000	PC10-25	VTT10A25	QV1-41	EV-1222
C241	100 10V	CELFI11010	PC100-10	VTT100E10	QV1-93	EV-1130
C242	1 50V	CELFI81090	PC1-50	VTT1B63	QV1-11	EV-1615
C243	47 16V	CELFI314700	PC50-16	VTT47D16	QV1-73	EV-1226
C244	22 16V	CELFI312200	PC25-25	VTT22A16	QV1-55	EV-1224
C245	220 6.3V	CELFI902210	PC250-10	VTT220F10	QV1-115	EV-1140
C246	100 16V	CELFI311010	PC100-16	VTT100F16	QV1-95	EV-1230
C252	22 16V	CELFI312200	PC25-25	VTT22A16	QV1-55	EV-1224
C293	1 50V	CELFI81090	PC1-50	VTT1B63	QV1-11	EV-1615
C294	4.7 16V	CELFI314790	PC5-50	VTT47A50	QV1-27	EV-1319
C296	.1 16V	CAAH311086		TUC104M050EL	QDT1-2	SD50-R109
C298	4.7 16V	CELFI314790	PC5-50	VTT47A50	QV1-27	EV-1319
C301	10 16V	CELFI311000	PC10-25	VTT10A25	QV1-41	EV-1222
C302	1 50V	CELFI81090	PC1-50	VTT1B63	QV1-11	EV-1615
C305	.47 50V	CELFI814740	PC1-50	VTT47B63	QV1-3	EV-1610
C307	100 10V	CELFI11010	PC100-10	VTT100E10	QV1-93	EV-1130
C312	470 16V	CELFI314710	PC500-16	VTT470J16	QV1-151	EV-1250
C401	100 10V	CELFI11010	PC100-10	VTT100E10	QV1-93	EV-1130
C405	1 50V	CELFI81090	PC1-50	VTT1B63	QV1-11	EV-1615

(1) Used in some versions.

CAPACITORS

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.039	CKFB513930	DC-203	MGP02	TA120	QC2-157
C2	.022		DTZ-10	NP010	CN0410	TG-S20
C3	10 NPO					10TCC-Q10
C4	.039	CKFB513930	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C10	2 NPO		DC-203	MGP02	TA120	TG-S20
C13	.02		UK50-103	MGP01	MAG5011	TG-S10
C14	.01				CN0456	10TCC-Q56
C15	56 5% NPO				CN0456	10TCC-Q56
C17	56 5% NPO				TA120	TG-S20
C18	.02		DC-203	MGP02	MAG5011	QC2-141
C19	.01		UK50-103	MGP01		TG-S10



—*— Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

⊕ 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.

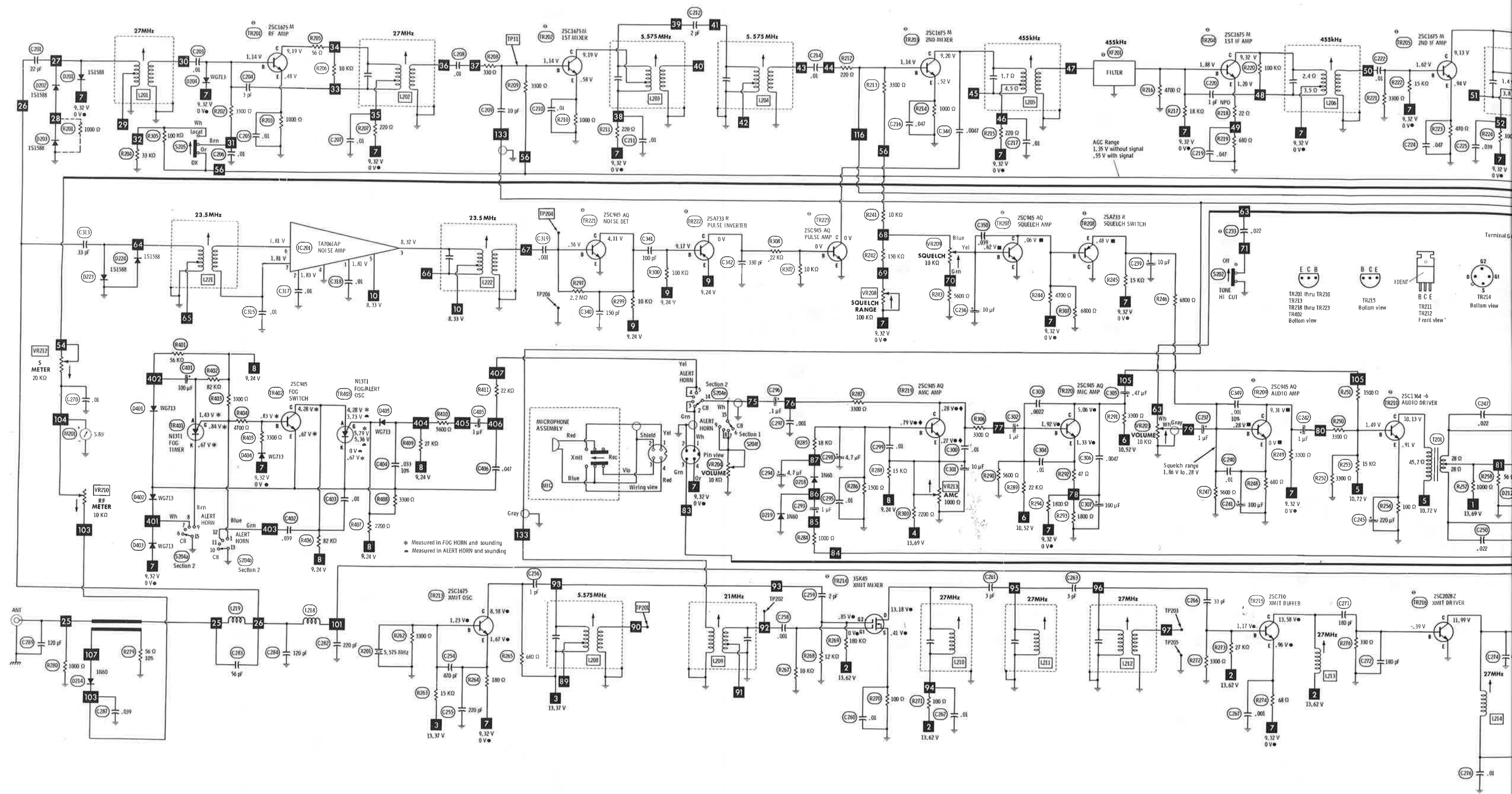
Resistors are 1/2W or less, 5% unless noted.

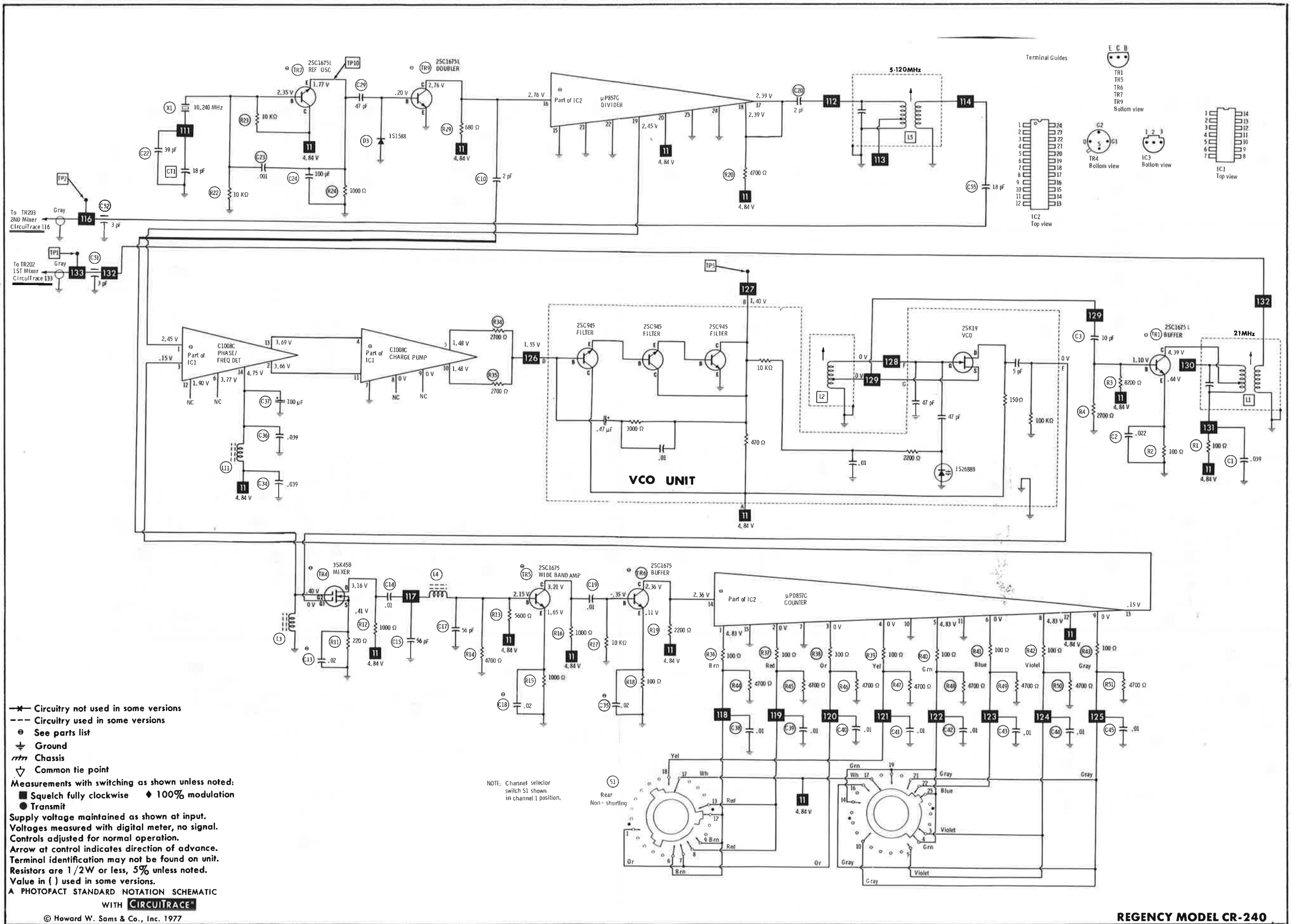
Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE

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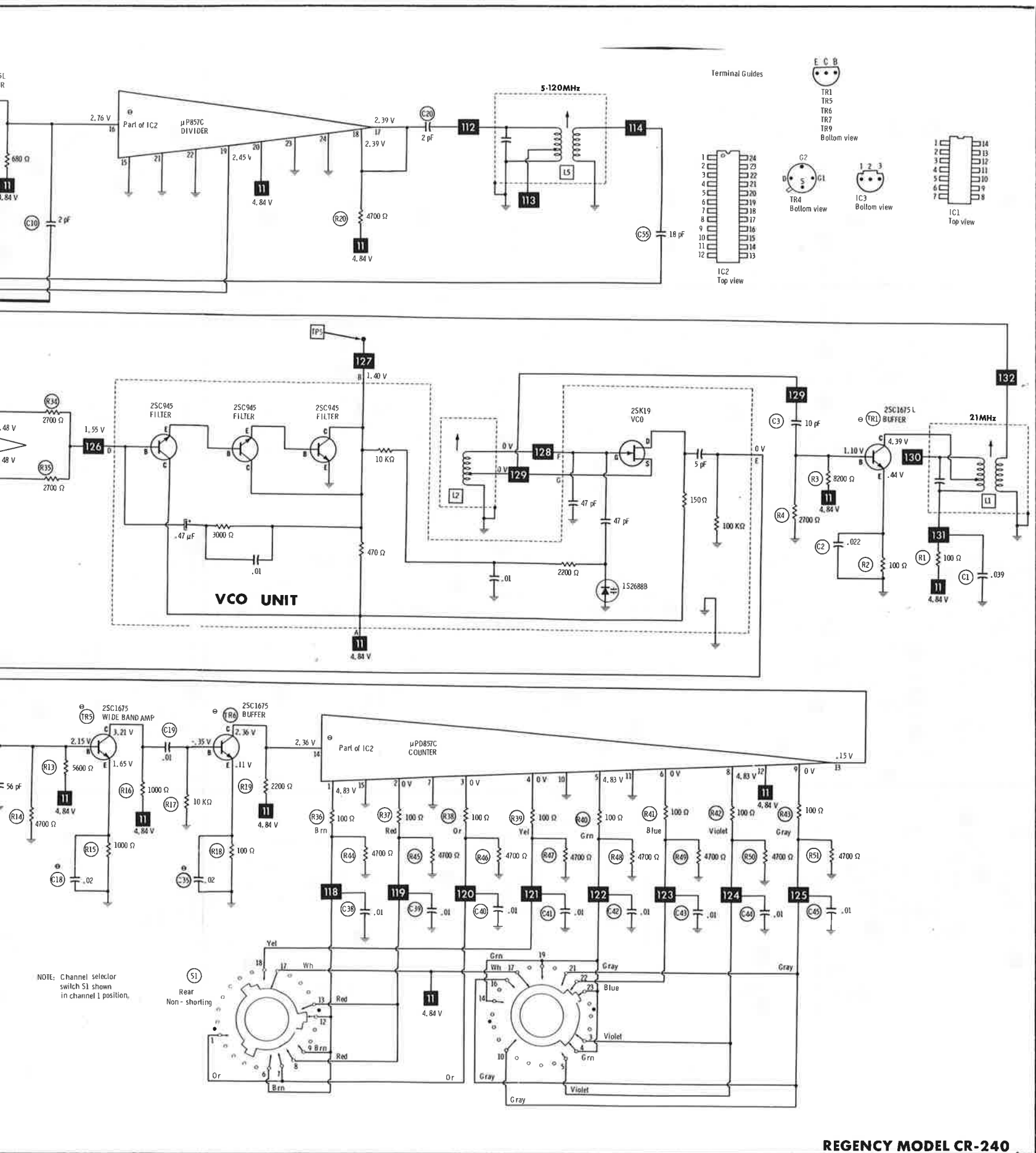


✕ Circuitry not used in some versions
 --- Circuitry used in some versions
 ○ See parts list
 ⊕ Ground
 Chassis
 ▽ Common tie point
 Measurements with switching as shown unless noted:
 ■ Squelch fully clockwise ♦ 100% modulation
 ● Transmit
 Supply voltage maintained as shown at input.
 Voltages measured 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 CIRCUITACE

NOTE: Channel selector switch S1 shown in channel 1 position.

PARTS LIST AND DE (When ordering parts, state Model)

ITEM No.	RATING
C20	2 NPO
C22	39 5% NPO
C23	.001
C24	100 5% NPO
C25	18 5% NPO
C26	.039
C29	47 5% NPO
C30	.039
C34	.039
C35	.02
C36	.039
C38	.01 25V
C39	.01 25V
C40	.01 25V
C41	.01 25V
C42	.01 25V
C43	.01 25V
C44	.01 25V
C45	.01 25V
C46	.039
C47	.039
C49	.039
C51	3
C52	3
C54	.001
C201	22
C202	.01 25V
C203	.01 25V
C204	3 NPO
C205	.01 25V
C206	.01 25V
C207	.01 25V
C208	.01 25V
C209	10
C210	.01 25V
C211	.01 25V
C212	2 NPO
C213	.01 25V
C214	.01 25V
C216	.047 10%
C217	.01 25V
C218	.01 25V
C219	.047 10%
C220	1 NPO
C221	.039 25V
C222	.01 10%
C223	.01 25V
C224	.047 10%
C225	.039 25V
C227	100
C228	.022
C230	.0022 25V
C233	.022
C238	.01 25V
C240	.01
C247	.022
C248	.01 25V
C249	.01 25V
C250	.022
C251	.01 25V
C253	.01 25V
C254	470
C255	220
C256	1 NPO
C257	.01 25V
C258	.001 25V
C259	2 NPO
C260	.01 25V
C261	3 NPO
C262	.01 25V
C263	3 NPO
C264	.01
C265	.01 25V
C266	33
C267	.001 25V
C268	.01 25V
C269	.01 25V
C270	.01 25V
C271	180
C272	180
C273	.01 25V
C274	68
C275	250
C276	.01 25V
C278	27
C279	.01 25V
C280	.01 25V
C281	.039 25V
C282	220
C283	56
C284	120 5%
C286	.01 25V
C287	.039 25V
C289	120
C290	.01 25V
C292	.01 25V
C295	.01 25V
C297	.001 25V



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.
C20	2 NPO		DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C22	39 5% NPO		DD-102G	GP1000	CN0439	10TCC-Q39
C23	.001		DTZ-100	NPO100	GP210	56A-D10
C24	100 5% NPO				CN0310	10TCC-T10
C25	18 5% NPO				CN0418	10TCC-Q18
C26	.039	CKFB513930	DTZ-47	NPO47	CN0447	10TCC-Q47
C29	47 5% NPO					
C30	.039	CKFB513930				
C34	.039	CKFB513930				
C35	.02	CKFB513930	DC-203	MGP02	TA120	QC2-157
C36	.039					
C38	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C39	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C40	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C41	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C42	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C43	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C44	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C45	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C46	.039	CKFB513930				
C47	.039	CKFB513930				
C49	.039	CKFB513930				
C51	3	CCZY006001				
C52	3	CCZY006001				
C54	.001	CCZY023001				
C201	22		DTZ-22	NPO22	CN0422	10TCC-Q22
C202	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C203	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C204	3 NPO		DTZ-3R3	NPO3P3	CN0533	10TCC-V33
C205	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C206	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C207	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C208	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C209	10		DTZ-10	NPO10	CN0410	10TCC-Q10
C210	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C211	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C212	2 NPO		DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C213	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C214	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C216	.047 10%		UK25-103	MGP01	MAG2511	QC2-141
C217	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C218	.01 25V		UK25-103	MGP01	MAG2511	QC2-141
C219	.047 10%		UK25-103	MGP01	MAG2511	QC2-141
C220	1 NPO		DTZ-1	NPO1	CN0510	10TCC-Q1
C221	.039 25V	CKFB513930				
C222	.01 10%		UK25-103	WMF1S1	EWFA1110	QF1-91
C223	.01 25V				MAG2511	QC2-141
C224	.047 10%				EWFA1147	QF1-171
C225	.039 25V	CKFB513930				
C227	100					
C228	.022					
C230	.0022 25V					
C233	.022					
C238	.01 25V					
C240	.01					
C247	.022					
C248	.01 25V					
C249	.01 25V					
C250	.022					
C251	.01 25V					
C253	.01 25V					
C254	470					
C255	220					
C256	1 NPO					
C257	.01 25V					
C258	.001 25V					
C259	2 NPO					
C260	.01 25V					
C261	3 NPO					
C262	.01 25V					
C263	3 NPO					
C264	.01					
C265	.01 25V					
C266	33					
C267	.001 25V					
C268	.01 25V					
C269	.01 25V					
C270	.01 25V					
C271	180					
C272	180					
C273	.01 25V					
C274	68					
C275	250					
C276	.01 25V					
C278	27					
C279	.01 25V					
C280	.01 25V					
C281	.039 25V	CKFB513930				
C282	220					
C283	56					
C284	120 5%					
C286	.01 25V					
C287	.039 25V	CKFB513930				
C289	120					
C290	.01 25V					
C292	.01 25V					
C295	.01 25V					
C297	.001 25V					

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
C299	.01 25V	CKFB513930	UK25-103	MGP01	MAG2511	QC2-141	TG-S10
C300	.01 25V		UK25-103	MGP01	MAG2511	QC2-141	TG-S10
C303	.0022 10%			DPMS6D22	EW6222		6PS-D22
C304	.01 10%			WMF1S1	EWFA1110	QF1-91	1PB-S10
C306	.0047 25V		DD-472	GP4700	GP247		5GA-D47
C308	.039 25V						
C309	.01 25V		UK25-103	MGP01	MAG2511	QC2-141	TG-S10
C310	.039 25V	CKFB513930					
C311	.039 25V	CKFB513930					
C313	.01		DTZ-33	NPU33	CN0433		10TCC-Q33
C314	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C315	.01 25V		UK25-103	MGP01	MAG2511	QC2-141	TG-S10
C316	.01 25V		UK25-103	MGP01	MAG2511	QC2-141	TG-S10
C317	.01 25V		UK25-103	MGP01	MAG2511	QC2-141	TG-S10
C318	.01 25V		UK25-103	MGP01	MAG2511	QC2-141	TG-S10
C319	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C340	150		DD-151		GP315		10TS-T15
C341	100		DD-101	GP100	GP310		10TS-T10
C342	330		DD-331	GP330	GP333		10TS-T33
C344	.0047 25V		DD-472	GP4700	GP247		5GA-D47
C348	.039 25V	CKFB513930					
C349	.001 10%			DPMS6D1	EWFA2110	QF1-1	1PB-D10
C350	.039 25V	CKFB513930					
C402	.039						
C403	.01			WMF1S1	M192P3939R8	QF1-91	192P3939R8
C404	.033 10%				EWFA1110		1PB-S10
C406	.047				M192P3339R8		192P3339R8
CT1	18	CCVY023003			EWFA147	QF1-171	1PB-S47

(1) Used in some versions.

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.
VR202	AGC	20K	RRVY145008				
VR203	Volume	10K	RRVY117001 (18)				
VR204	Volume/Switch	10K					
VR208	Squelch Range	100K	RRVY145010				
VR209	Squelch	10K	RRVY077001				
VR210	RF Meter	10K	RRVY135007				
VR212	S Meter	20K	RRVY145008				
VR213	AMC	15K	RRVY145004				

(18) Includes VR203 and VR204.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	VCO Buffer (21MHz)	LLAY091001			
L2	VCO	LLAY149001			
L3	RF Choke (6.8uH)	LLZY002011			
L4	RF Choke (100uH)	LLZY001013			
L5	PLL (5.120MHz)	LLAY150001	LA-150-6334		
L11	RF Choke (470uH)	LLZY001021			
L201	Rec Ant (27MHz)	LLAY029001	LA-029-6535		
L202	Rec RF (27MHz)	LLAY041001	LA-041-6214		
L203	Rec Mixer (5.575MHz)	LLAY147001			
L204	Rec Mixer (5.575MHz)	LLAY147001	LA-147-6434		
L205	Rec Mixer (455kHz)	LLAY116001	LA-116-6415		
L206	IF (455kHz)	LLAY106001	LA-106-6525		
L207	IF (455kHz)	LLAY107001	LA-107-6515		
L208	Xmit Osc (5.575MHz)	LLAY147001	LA-147-5434		
L209	Xmit Mixer (21MHz)	LLAY046001			
L210	Harmonic Suppressor (27MHz)	LLAY148001	LA-148-6615		
L211	Harmonic Suppressor (27MHz)	LLAY148001			
L212	Xmit Mixer (27MHz)	LLAY146001	LA-146-6515		
L213	Xmit Buffer (27MHz)	LLCY019001			
L214	Xmit Driver (27MHz)	LLCY017001			
L216	RF Choke	LLDY012001			
L217	Final Amp (27MHz)	LLCY019001			
L218	RF Choke	LLCY006001			
L219	RF Choke	LLCY110001			
L220	RF Choke	LLDY017001			
L221	Noise Amp (23.5MHz)	LLAY029001	LA-029-6535		
L222	Noise Amp (23.5MHz)	LLAY077001	LA-077		

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.	
T203	1.5A	.2	1.45mH	TTFY017001 TF-017 (1)			(1) Number on unit.

REGENCY MODEL CR-240

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.	
T201	.4	1		TTFY011001 TF-011 (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.	
T202	23	1 8 2 23	TTFY097001 TF-097 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM, 8 Ohms	ZMTY028001	30A05Z8	

FUSE DEVICES

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
F201	2A Fast Acting	ZFSY001005		AGC2	HDJ	312002	150145	FG2-2

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	AMKY041001	18-032	18-034	18-010	18-092	1	2	4	3		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
X1	10.240	QQXY070001	CA45W10240	Ref. Osc.	X201	5.575	QQXY069001	CB150W5575	Xmit Osc.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M201	Meter	ZMTY-28001	S/Rf
S1	Switch	SSRY117001	Channel Selector
S201	Switch	SSRY054001	NB/Off
S202	Switch	SSRY054001	Tone
S204	Switch	SSRY118001	CB/Hail
S205	Switch	SSRY054001	Local/DX
S206	Switch		Part of Volume Control
XF201	Filter	FFLY009001	(455kHz)
	Printed Circuit Board	PPCY131011	Main, PC-131AB
	Printed Circuit Board	PPCY130001	PLL, PC-130AA
	Printed Circuit Board	PPCY132011	Horn, PC-132AA
	Printed Circuit Board	PPCY129001	VCO, PC-129AA

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Top	MDBP202287	Bracket, Mounting (Mobile)	MDBP302289
Cabinet, Bottom	MDBP202288	Knob, Channel Selector	MDMP401727
Panel, Front	MDMP202692	Knob, Volume/Squelch/CB-Hail	MDMP401728
Plate, Front	MDNP403461	Hanger, Microphone	ZYY016001