

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 DG-30

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: GC ELECTRONICS:
L3, L4, L5, L65000, 8290
ALL other tuneable coils and transformers ...9440

ROBYN MODEL DG-30

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 base of TR3, low side to ground.	455kHz, 1000Hz @ 30% modulation.	Any	L5, L6	Set generator output low enough to prevent AGC limiting. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation.	13	L1, L2, L7, L3, L4	Set generator output low enough to prevent AGC limiting. Adjust for maximum.

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

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RECEIVER ADJUSTMENTS

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
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 5000uV.	13	VR3	Set squelch control fully clockwise. Back off 90 degrees, adjust so that squelch just breaks.
S METER	27.115MHz 1000Hz 30% modulation, output 10,000uV	13	VR7	Adjust for 9 on S Meter.

TRANSMITTER

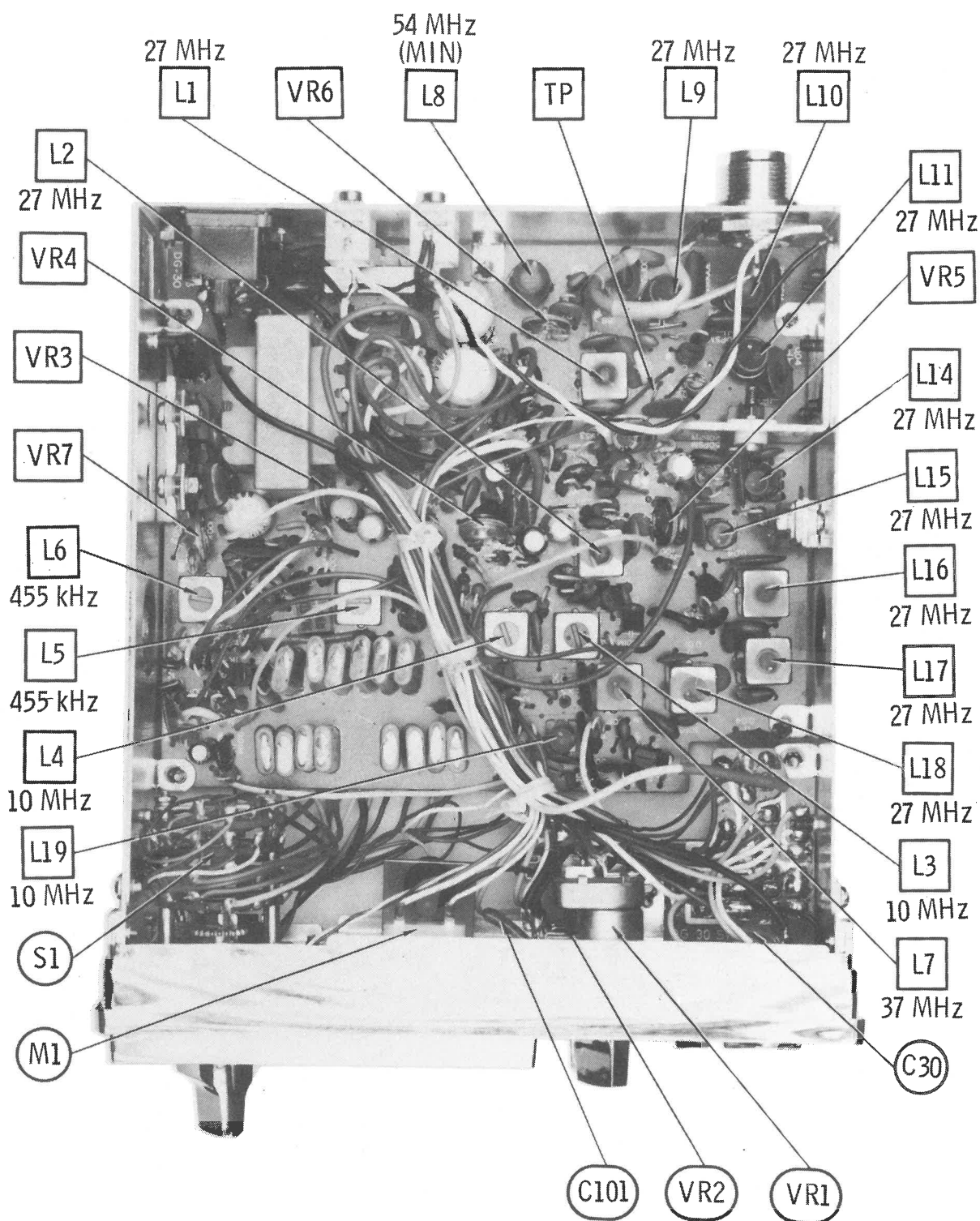
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	L19,L18, L17,L16, L15,L14, L11,L10, L9	Channel selector to Ch. 13. Key transmitter. Adjust for maximum.
TVI TRAP TV (Ch. 2)	L8	Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Remove jumper at TP and connect 0-500 DC milliammeter.	L9	Adjust for 5 watts. (Max).

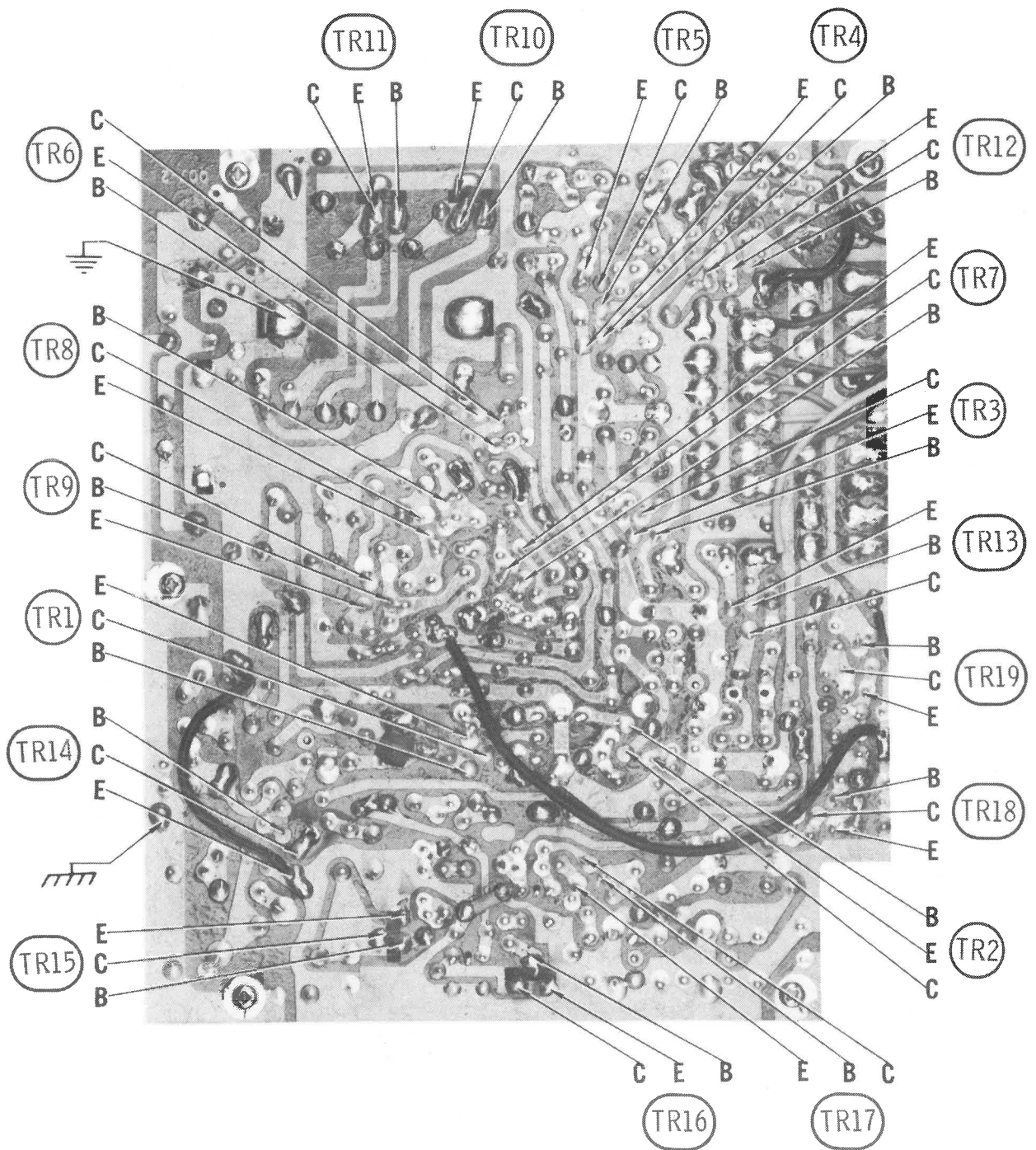
TRANSMITTER ADJUSTMENTS

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

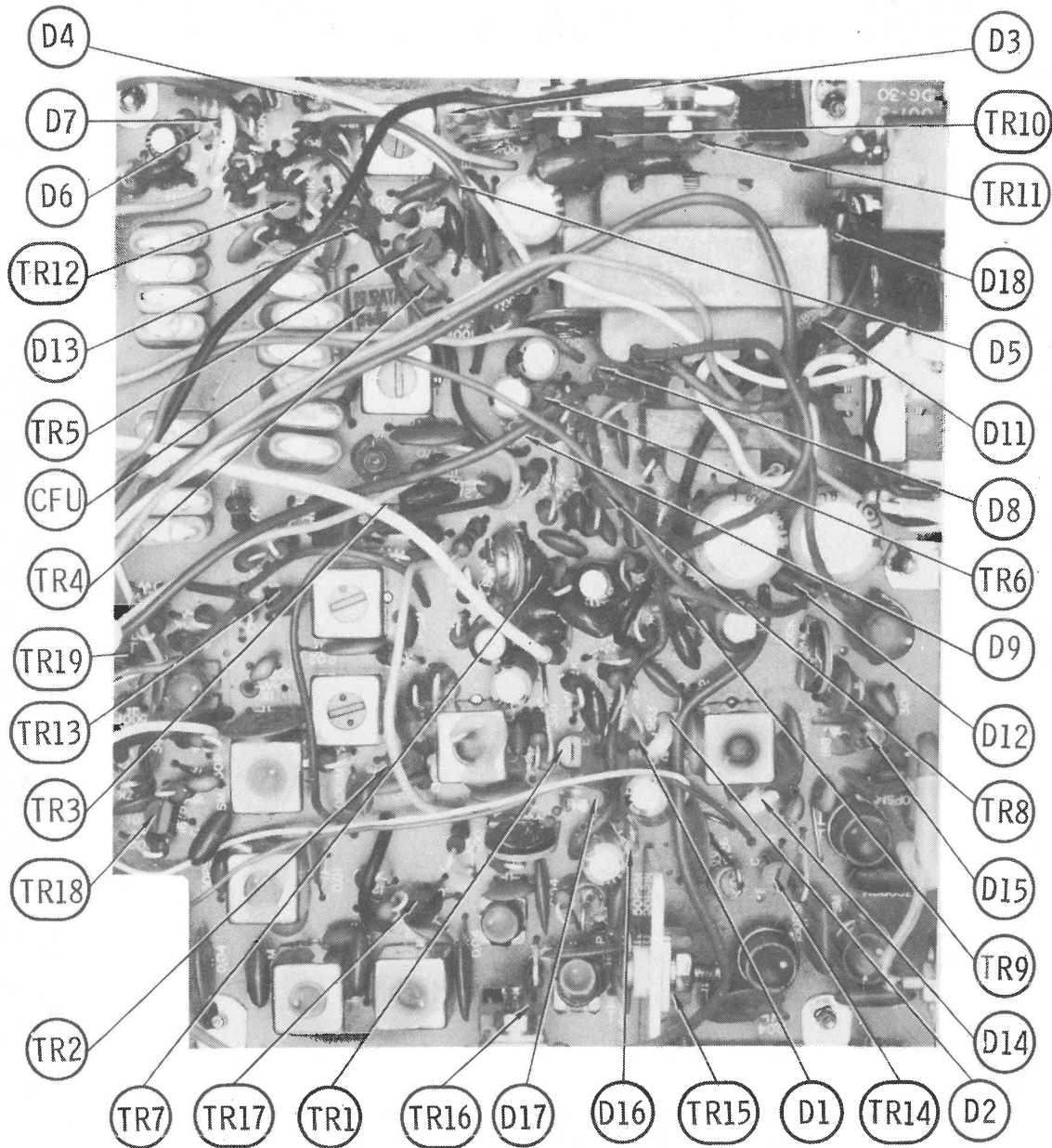
INDICATOR	ADJUST	REMARKS
AMC Modulation Meter connected to antenna jack	VR4 VR5	Inject a 1000Hz, 50mV audio signal at mic input thru 600-ohm resistor. Key transmitter. Adjust for 95% modulation maximum.
RF PANEL METER RF Wattmeter	VR6	Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.



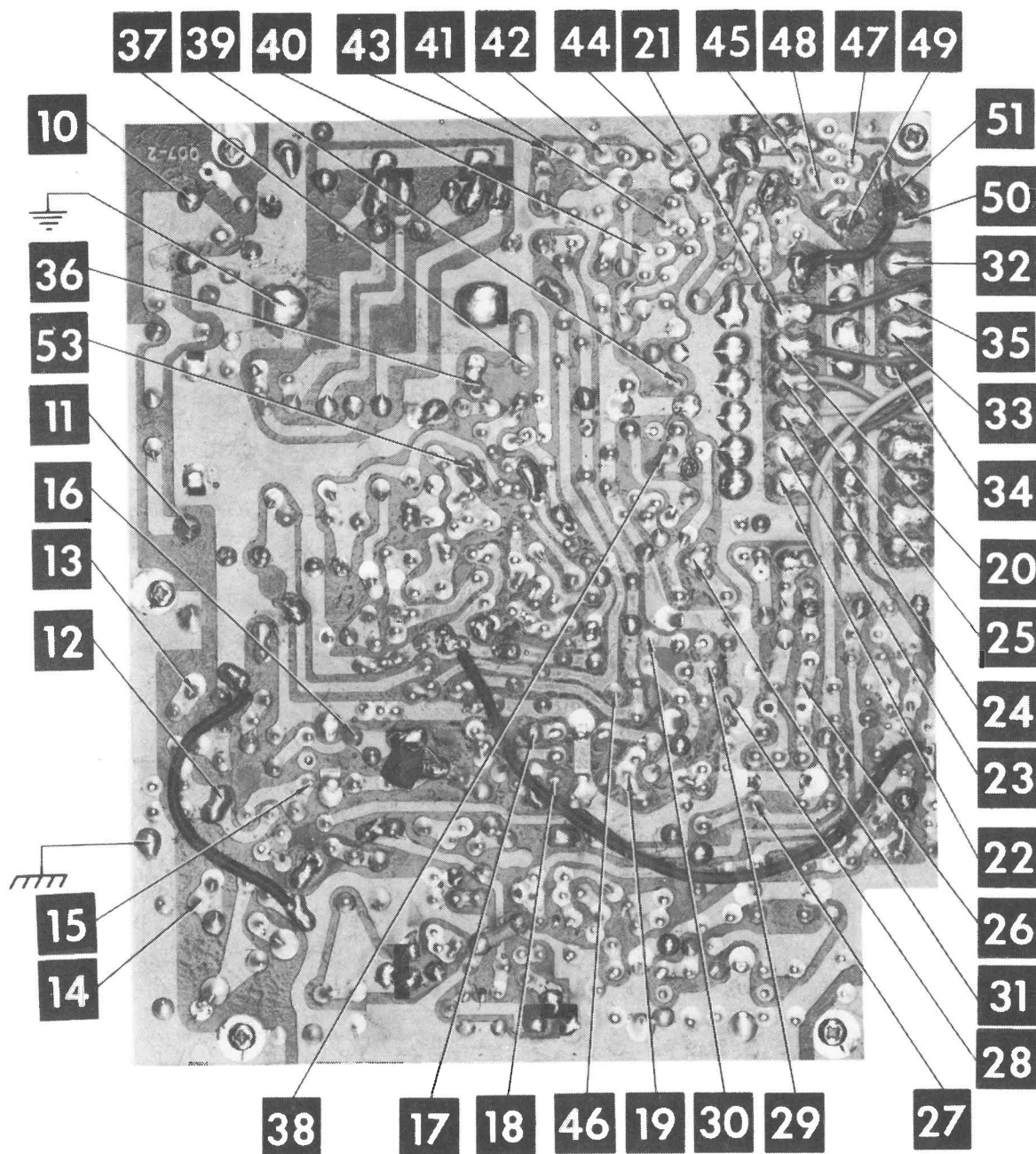
CHASSIS - BOTTOM



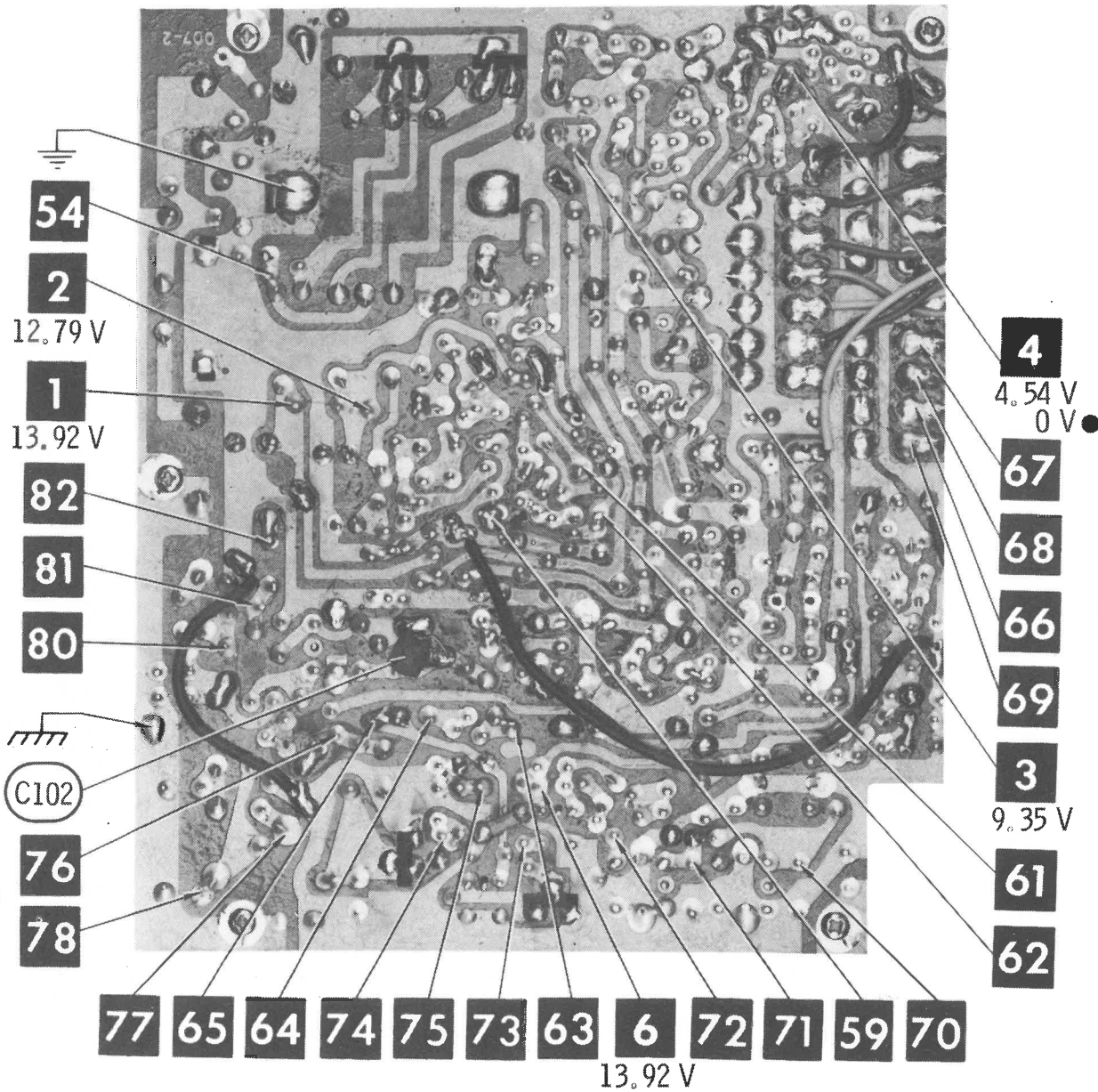
MAIN BOARD



MAIN BOARD

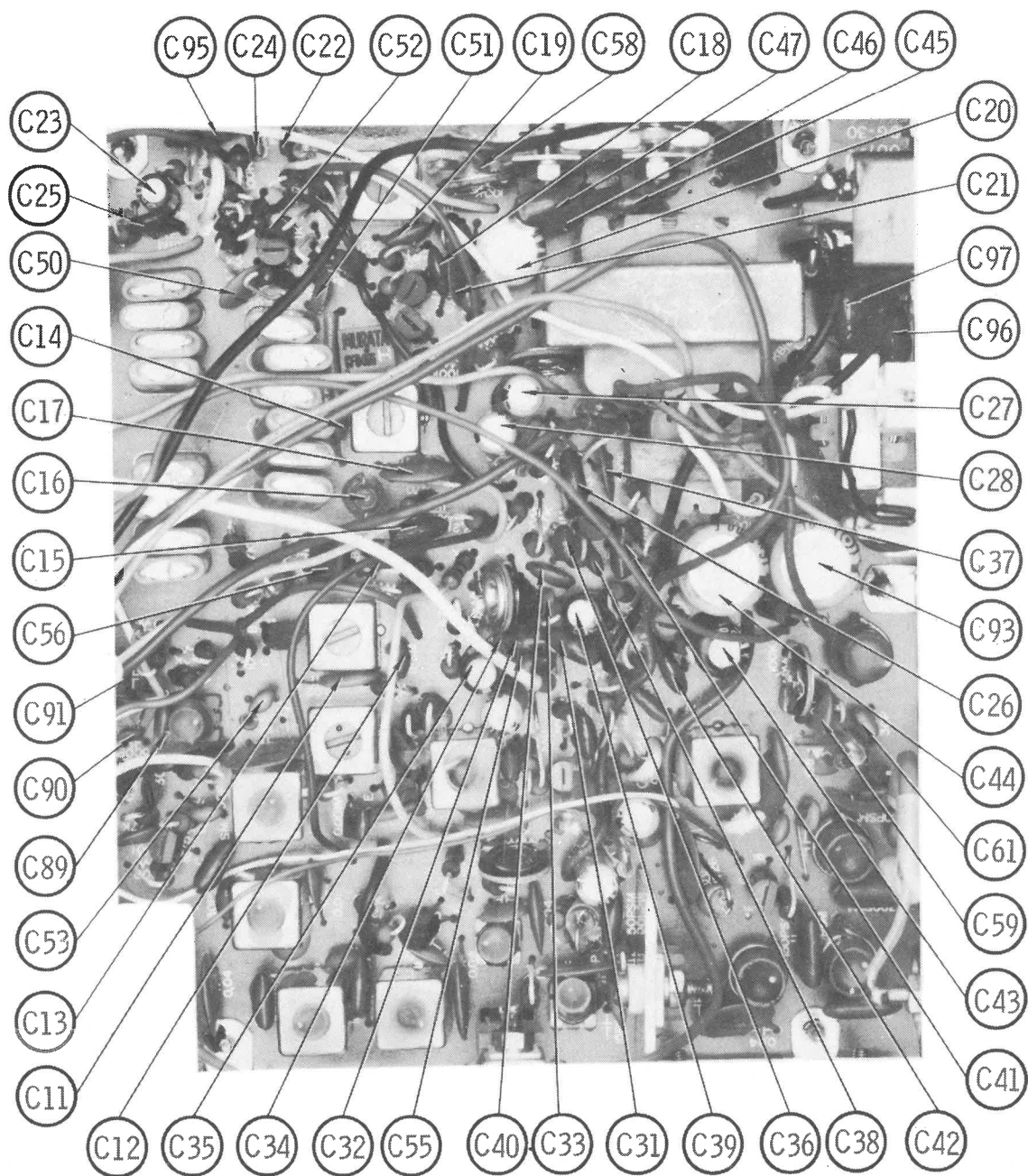


MAIN BOARD

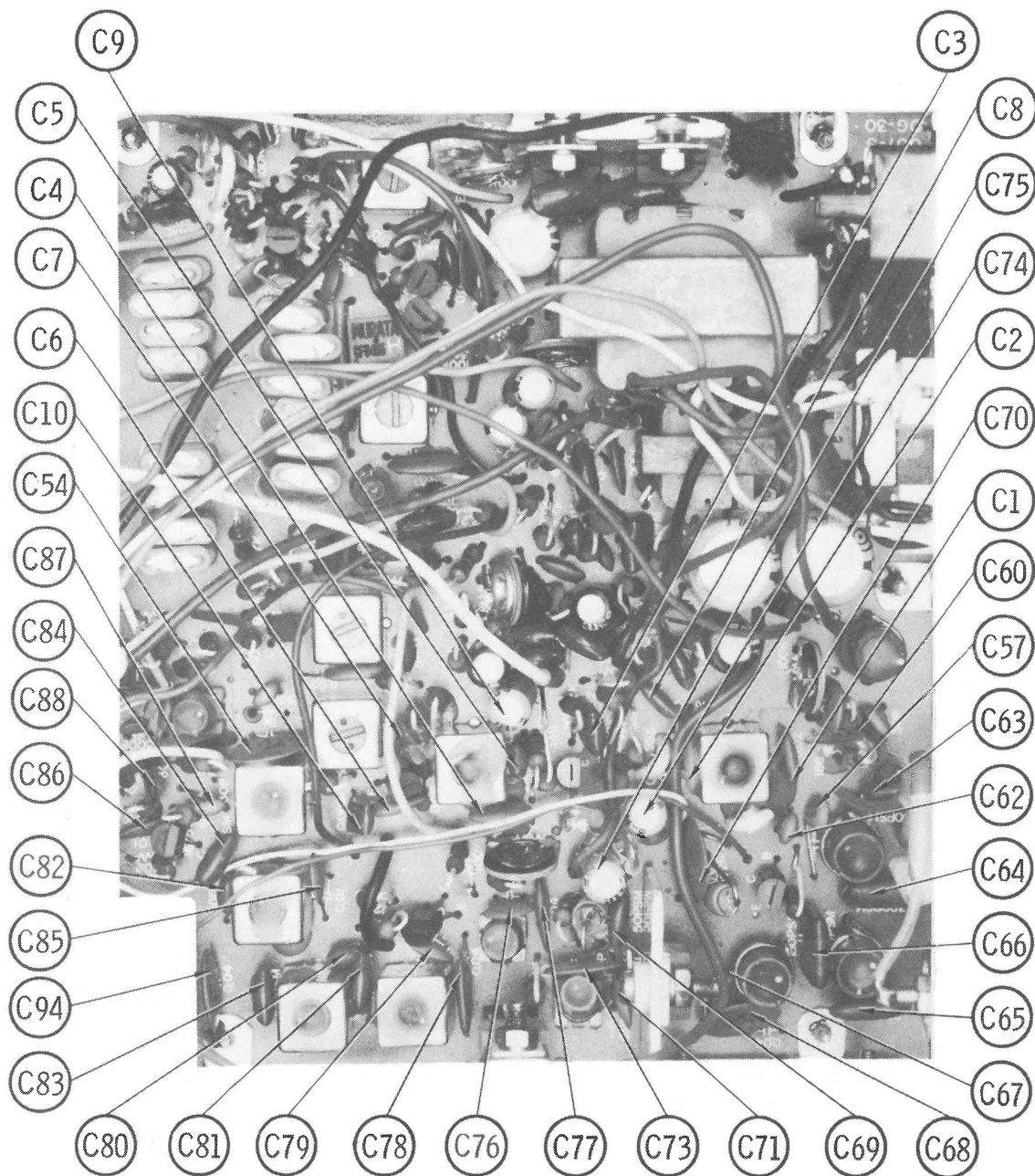


ROBYN MODEL DG-30

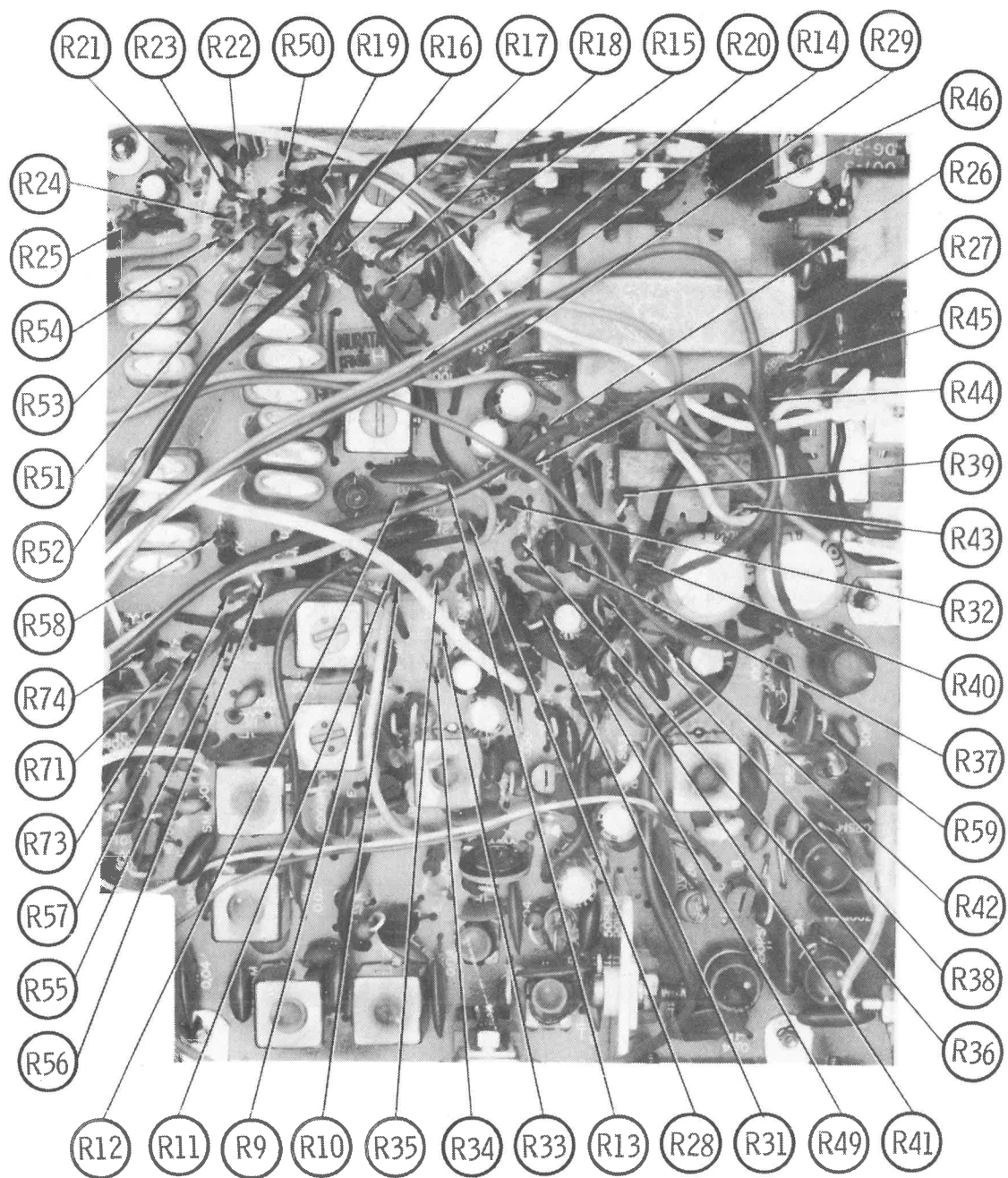
MAIN BOARD



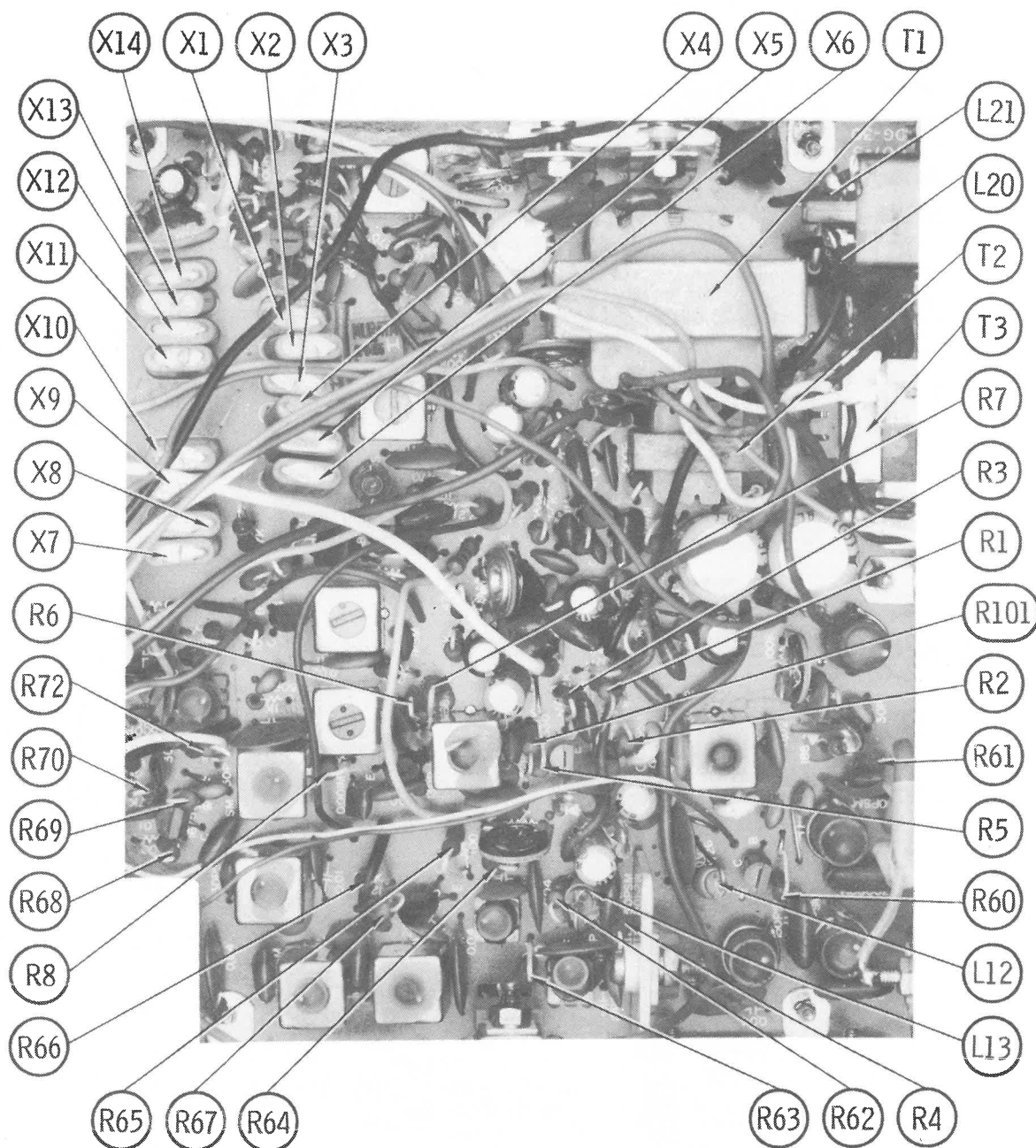
MAIN BOARD



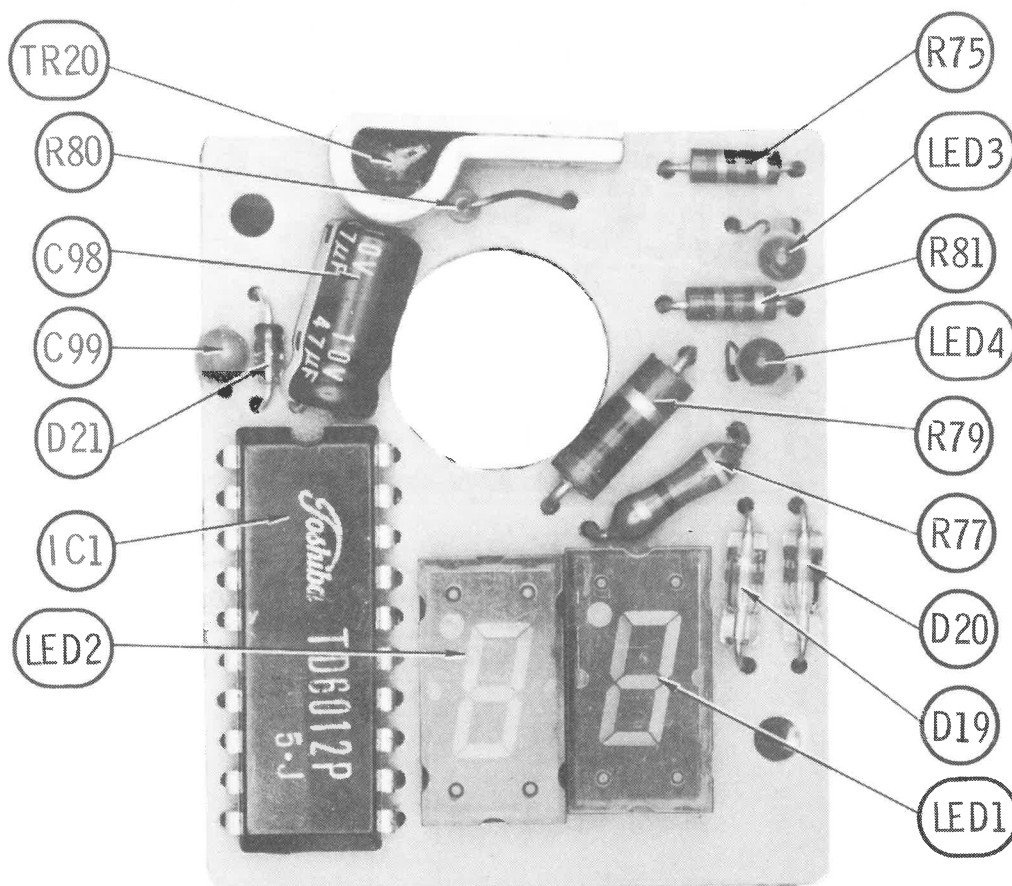
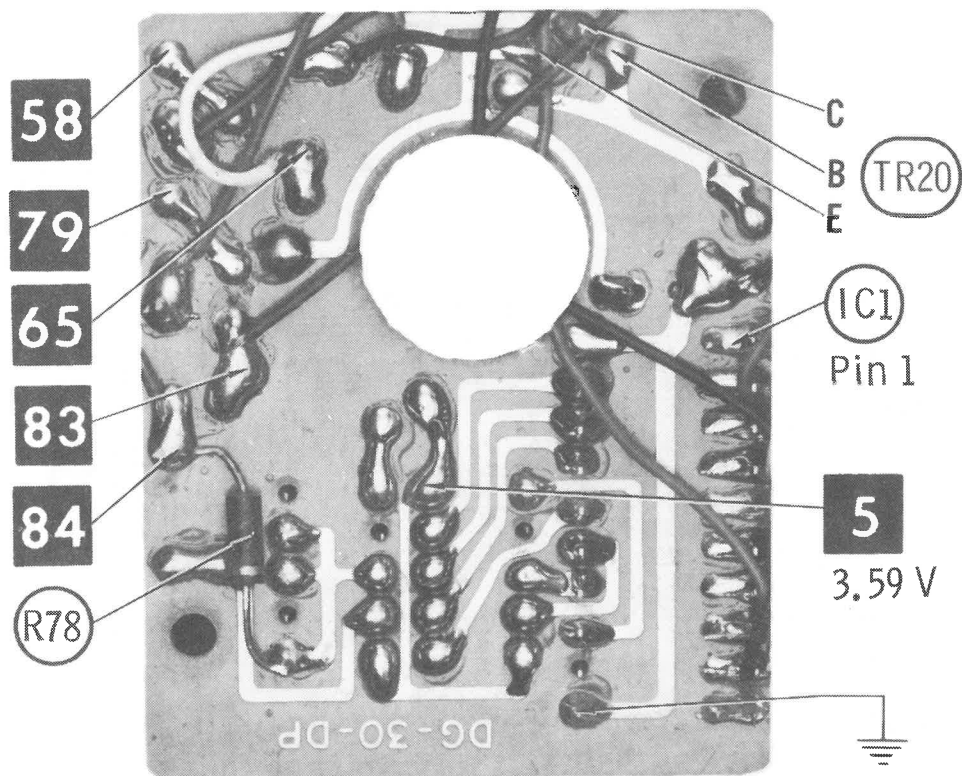
MAIN BOARD



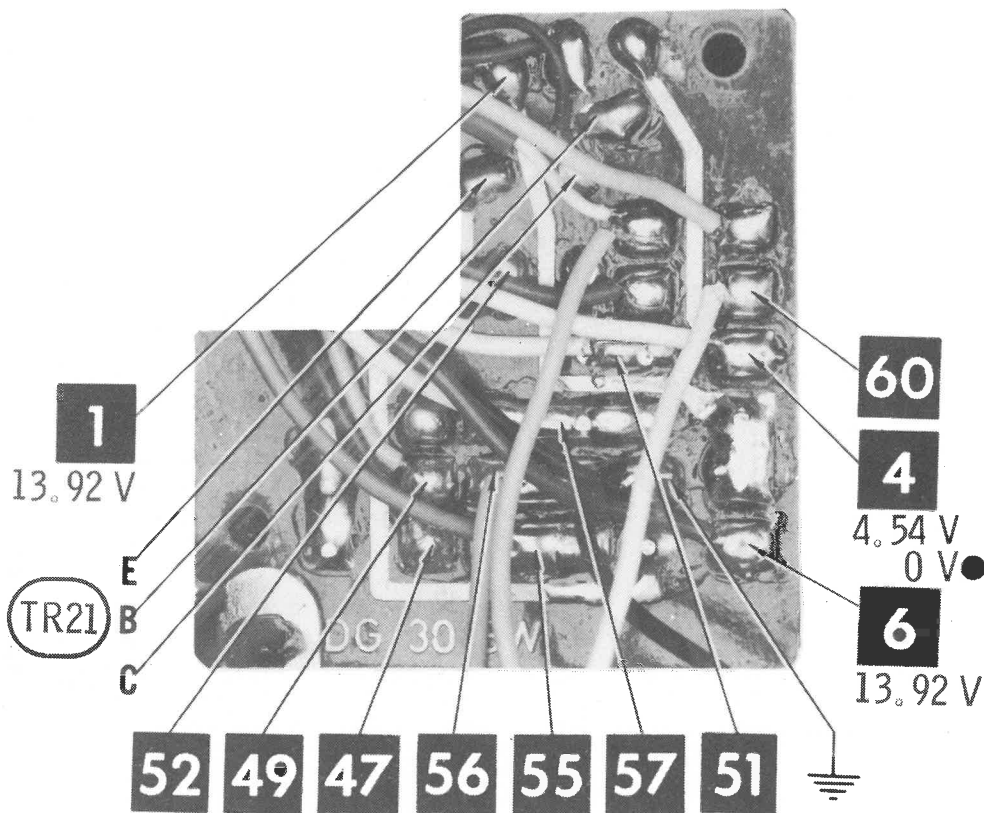
MAIN BOARD



MAIN BOARD

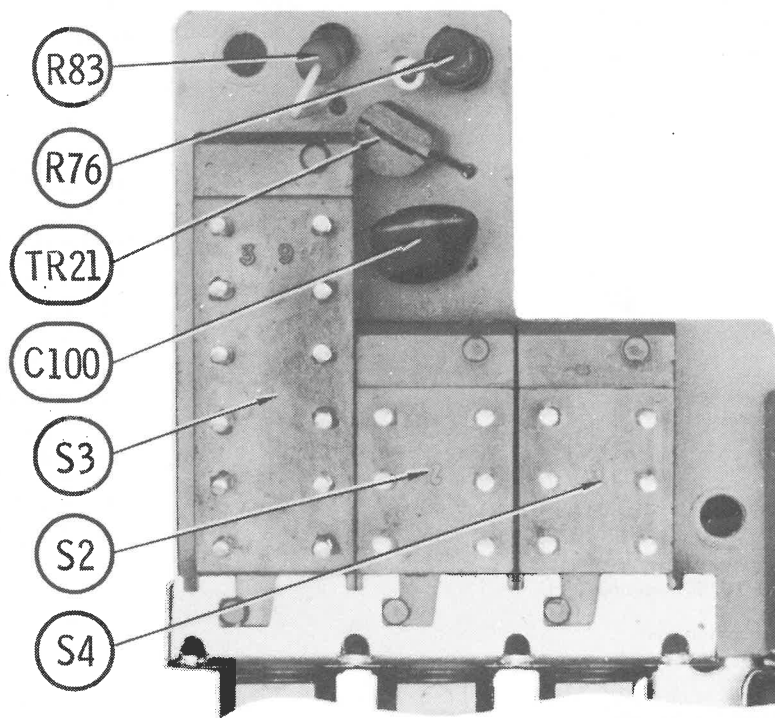


CHANNEL INDICATOR BOARD

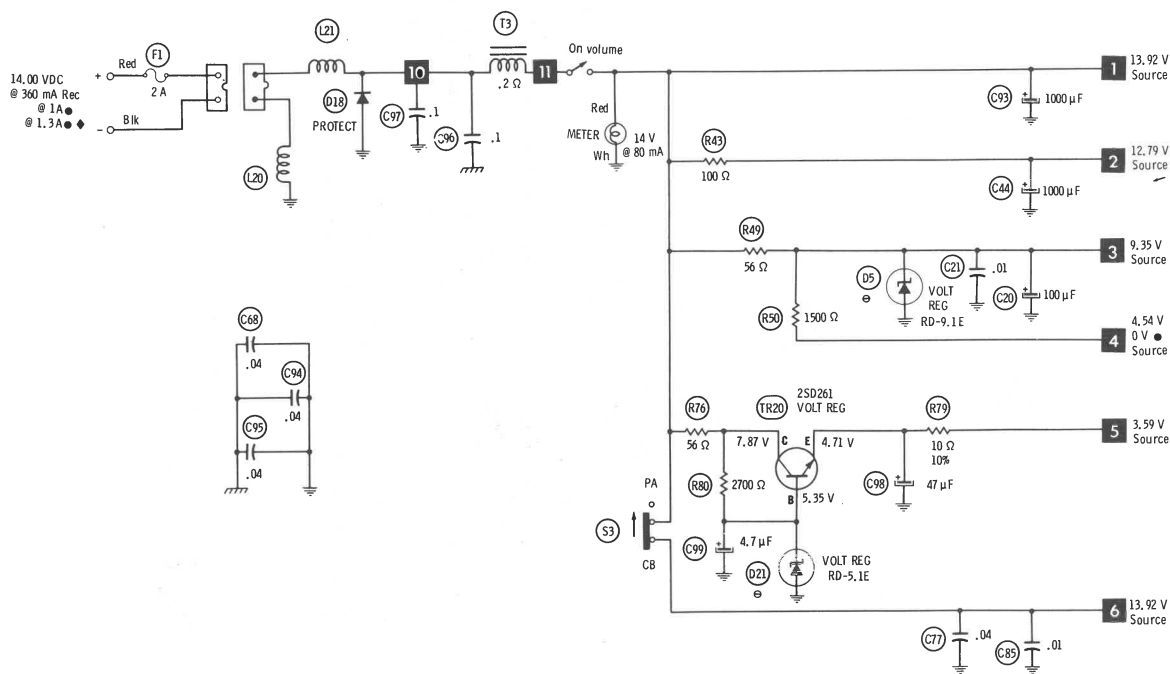


ROBYN MODEL DG-30

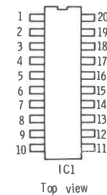
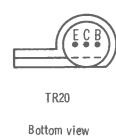
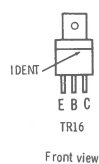
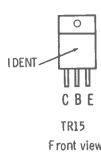
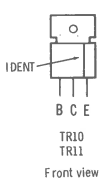
● Transmit



SWITCH BOARD



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 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

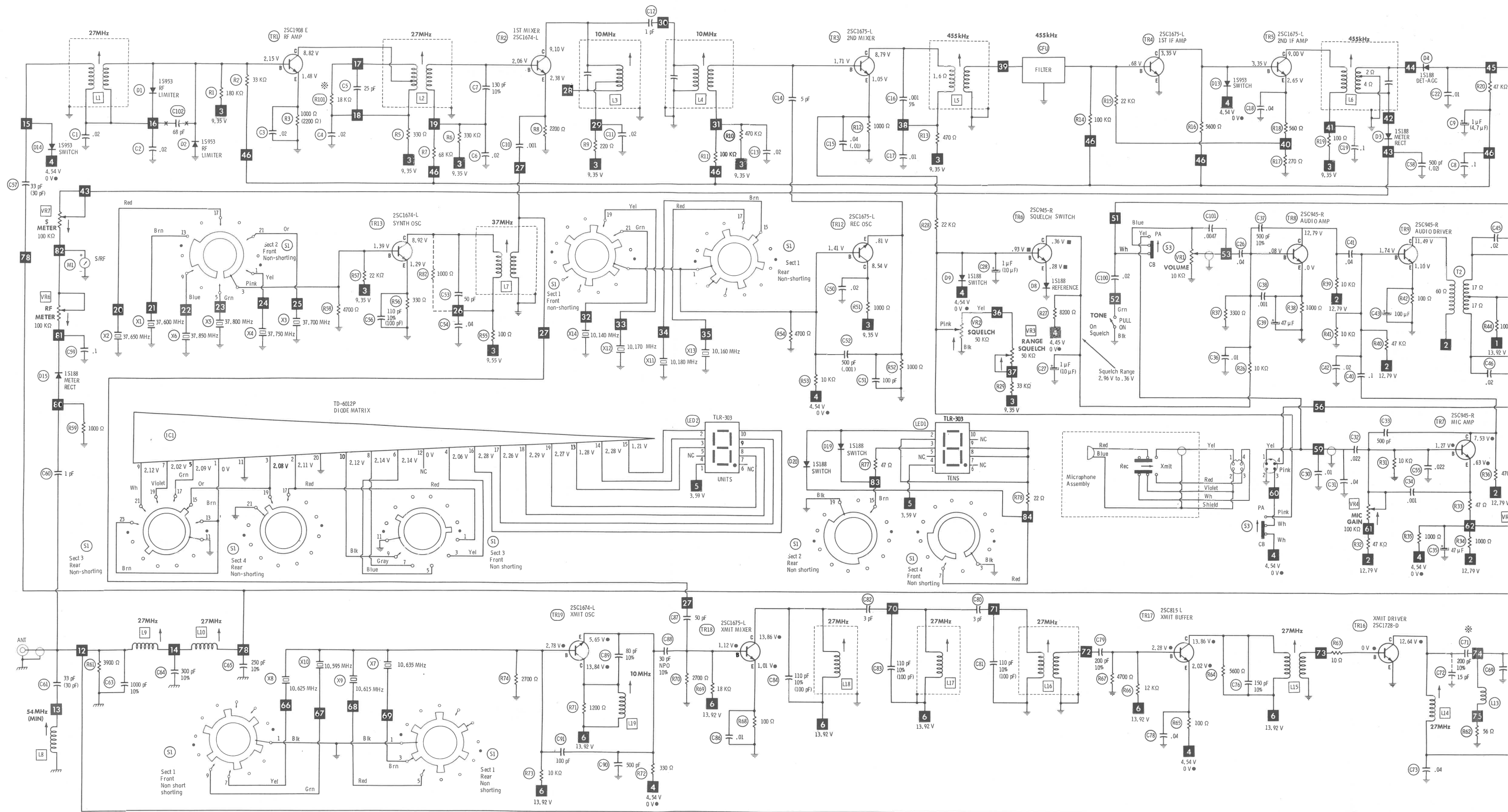
WITH **CIRCUITRACE**

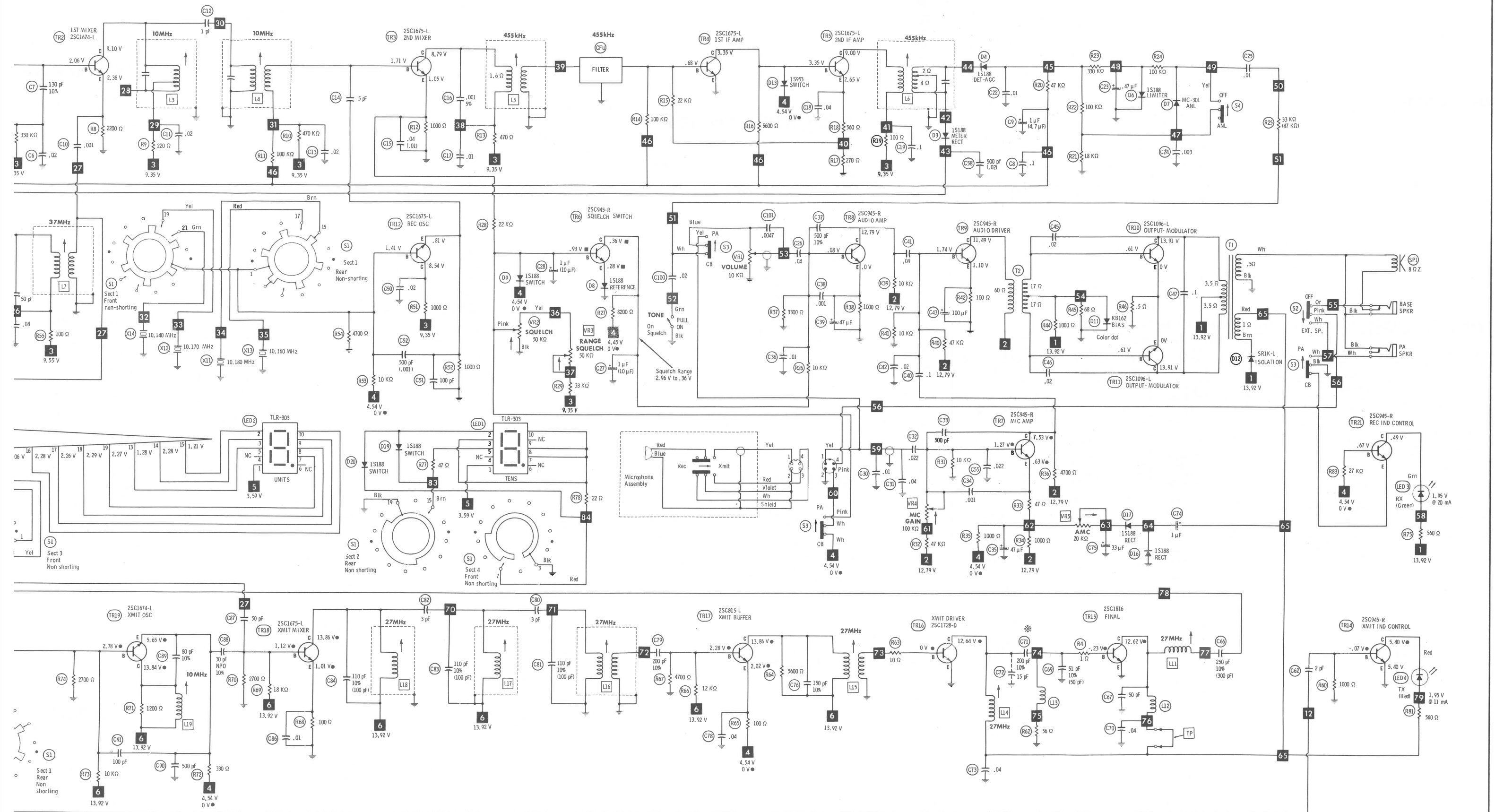
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Chan	Crystal Complement
1	X1, X7, X11
2	X1, X8, X12
3	X1, X9, X13
4	X1, X10, X14
5	X2, X7, X11
6	X2, X8, X12
7	X2, X9, X13
8	X2, X10, X14
9	X3, X7, X11
10	X3, X8, X12
11	X3, X9, X13
12	X3, X10, X14
13	X4, X7, X11
14	X4, X8, X12
15	X4, X9, X13
16	X4, X10, X14
17	X5, X7, X11
18	X5, X8, X12
19	X5, X9, X13
20	X5, X10, X14
21	X6, X7, X11
22	X6, X8, X12
23	X6, X10, X14



LED1
LED2
Bottom view





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 8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No.	17106 (Plastic) or 17126 (Rubber) -6 feet 17109 (Plastic) or 17129 (Rubber) -9 feet
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 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene

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.
D1	1S953	(9.1 Volt Zener) EQA01-09 (1) (9.0 Volt Zener)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	1S953		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D3	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	RD-9.1E		GEZD-9.1	Z1209	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D6	1S188	(10)	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	MC-301		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D11	KB-162		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D12	SR1K1		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	1S953		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D14	1S953		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D15	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D16	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D17	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D18	1S188		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D19	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D20	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D21	RD-5.1E		GEZD-5.1	Z1203	PTC206	HEPZ0406	RE 47	SK3056	RT-235	ECG5116
IC1	TD-6012P	(11) (11)								
LED1	TLR-303									
LED2	TLR-303									
LED3	RX									
LED4	TX									
TR1	2SC1908E		GE-20	TR-21	PTC136	HEPS0015	RE 9	SK3124	RT-107A	ECG107
TR2	2SC1674L		GE-20	TR-24	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG107
TR3	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG229
TR4	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG229
TR5	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG229
TR6	2SC945R		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR7	2SC945R		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR8	2SC945R		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR9	2SC945R		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR10	2SC1096L		GE-28	TR-55	PTC110	HEPS0015	RE 42	SK3054	RT-197	ECG186A
TR11	2SC1096L		GE-28	TR-55	PTC110	HEPS0015	RE 42	SK3054	RT-197	ECG186A
TR12	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG229
TR13	2SC1674L		GE-20	TR-24	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG23A
TR14	2SC945R		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
TR15	2SC1816		GE-215		PTC186		RE 203			ECG235
TR16	2SC1728D									ECG302
TR17	2SC815L		GE-210	TR-21	PTC123	HEPS0015	RE 13	SK3122	RT-172	ECG123A
TR18	2SC1675L		GE-20	TR-24	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG229
TR19	2SC1674L		GE-20	TR-24	PTC132	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR20	2SD261		GE-63	TR-87	PTC178	HEPS5014	RE 17	SK3137	RT-114	ECG192
TR21	2SC945R		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199

- (1) Used in some versions.
(10) Varistor.
(11) Rating, 10 watts @ 2.0 amps.

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C9	1 100V		PC1-100	MTV1CB100	TVA-1330
C20	4.7 16V		PC5-50	VTT4R7A50	EV-1319
C20	100 16V		PC100-16	VTT100F16	EV-1230
C23	.47 16V		PC1-50	VTT4R7B63	EV-1310
C27	1 100V		PC1-100	MTV1CB100	TVA-1330
	10 16V		PC10-25	VTT10A25	EV-1222
C28	1 100V		PC1-100	MTV1CB100	TVA-1330
	10 16V		PC10-25	VTT10A25	EV-1222
C35	47 6.3V		PC50-16	VTT47D16	EV-1226
C39	47 6.3V		PC50-16	VTT47D16	EV-1226
C43	100 6.3V		PC100-10	VTT100E10	EV-1130
C44	1000 16V		PC1000-16	VTT1000L16	EV-1260
C74	1 100V		PC1-100	MTV1CB100	TVA-1330
	1 16V		PC1-50	TT15X1	EV-1315
C75	33 10V		PC30-25	VTT33A10	EV-1125
C93	1000 16V		PC1000-16	VTT1000L16	EV-1260
C98	47 6.3V		PC50-16	VTT47D16	EV-1226
C99	4.7 6.3V			TDC475M010EL	SD10-4R79

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.02				GP120	5GA-S20
C2	.02				GP120	5GA-S20
C3	.02			DPMS2S2	PVC212	2PS-S20
C4	.02				GP120	5GA-S20
C5	25			CD6ED240J03	SX424	MS-424
C6	.02				GP120	5GA-S20
C7	130 10%			CD7FD131J03	SX313	424MC1300J501
C8	.1 12V			MGP1	MAG5001	TG-P10
C10	.001			DPMS6D1	EWFA1A210	1PB-D10
C11	.02				GP120	5GA-S20
C12	1				CN0510	10TCC-V10
C13	.02				GP120	5GA-S20
C14	5					10TCC-V50
C15	.04			DPMS6S39	PVC6139	6PS-S39
C16	.001 5%			CD19FD102J03	SX210	424ME1001J501
C17	.01					10TS-S10
C18	.04			DPMS6S39	PVC6139	6PS-S39
C19	.01 12V					10TS-S10
C21	.04			DPMS6S39	PVC6139	6PS-S39
C22	.01			DPMS4S1	EWFA1A110	1PB-S10
C24	.004			DPMS6D39	PVC6239	6PS-D39
C25	.01			DPMS4S1	EWFA1A110	1PB-S10
C26	.04			DPMS6S39	PVC6139	6PS-S39
C30	.01					10TS-S10
C31	.04			DPMS6S39	PVC6139	6PS-S39
C32	.022			DPMS2S22	EWFA1A122	1PB-S22
C33	500			GP500	GP350	10TS-T50
C34	.001		DD-501		GP210	10TS-D10
C36	.01		DD-102		EWFA1A110	1PB-S10
C37	500 10%		DD-501	DPMS4S1	GP350	10TS-T50
C38	.001		DD-102	GP500	GP210	10TS-D10
C40	.1		DC-104	MGP1	MAG5001	TG-P10
C41	.04			DPMS6S39	PVC6139	6PS-S39
C42	.02			DPMS2S2	PVC212	2PS-S20
C45	.02			DPMS2S2	PVC212	2PS-S20

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

CAPACITORS (continued)

ITEM No.	RATING
C46	.02
C47	.1
C50	.02
C51	100
C52	500
C53	50
C54	.04
C55	.022
C56	110 10%
C57	33
C58	500
C59	.1 12V
C60	1
C61	33
C62	2
C63	100 10%
C64	300 10%
C65	250 10%
C66	250 10%
C67	50
C68	.04
C69	51 10%
C70	.04
C71	200 10%
C73	.04
C76	150 10%
C77	.04
C78	.04
C79	200 10%
C80	3
C81	110 10%
C82	3
C83	110 10%
C84	110 10%
C85	.01
C86	.01
C87	50
C88	30 10% NPO
C89	80 10%
C90	500
C91	100
C94	.04
C95	.04
C96	.1
C97	.1
C100	.02 50V
C101	.0047
C102	68

CONTROLS (All values are in ohms unless otherwise specified)

ITEM No.	FUNCTION
VR1	Volume/Power Switch
VR2	Squelch/Tone Switch
VR3	Squelch Range
VR4	Mic Gain
VR5	AMC
VR6	RF Meter
VR7	S Meter

- (2) Cut off one of the leads.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C9	1 100V		PC1-100	MTV1CB100	TVA-1330
C20	4.7 16V		PC5-50	VTT4R7A50	EV-1319
C20	100 16V		PC100-16	VTT100F16	EV-1230
C23	.47 16V		PC1-50	VTTR47B63	EV-1310
C27	1 100V		PC1-100	MTV1CB100	TVA-1330
	10 16V		PC10-25	VTT10A25	EV-1222
C28	1 100V		PC1-100	MTV1CB100	TVA-1330
	10 16V		PC10-25	VTT10A25	EV-1222
C35	47 6.3V		PC50-16	VTT47D16	EV-1226
C39	47 6.3V		PC50-16	VTT47D16	EV-1226
C43	100 6.3V		PC100-10	VTT100E10	EV-1130
C44	1000 16V		PC1000-16	VTT1000L16	EV-1260
C74	1 100V		PC1-100	MTV1CB100	TVA-1330
	1 16V		PC1-50	TT15X1	EV-1315
C75	33 10V		PC30-25	VTT33A10	EV-1125
C93	1000 16V		PC1000-16	VTT1000L16	EV-1260
C98	47 6.3V		PC50-16	VTT47D16	EV-1226
C99	4.7 6.3V			TDC475M010EL	SD10-4R79

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.02				GP120	5GA-S20
C2	.02				GP120	5GA-S20
C3	.02			DPMS2S2	PVC212	2PS-S20
C4	.02				GP120	5GA-S20
C5	25			CD6ED24QJ03	SX424	MS-424
C6	.02				GP120	5GA-S20
C7	130 10%			CD7FD131J03	SX313	424MC130QJ501
C8	.1 12V		DC-104	MGP1	MAG5001	TG-P10
C10	.001			DPMS6D1	1PB-D10	1PB-D10
C11	.02				GP120	5GA-S20
C12	1				CN0510	10TCC-V10
C13	.02				GP120	5GA-S20
C14	5					10TCC-V50
C15	.04			DPMS6S39	PVC6139	6PS-S39
C16	.001 5%			CD19FD102J03	SX210	424ME1001J501
C17	.01					10TS-S10
C18	.04			DPMS6S39	PVC6139	6PS-S39
C19	.01 12V					10TS-S10
C21	.04			DPMS6S39	PVC6139	6PS-S39
C22	.01			DPMS4S1	1PB-S10	1PB-S10
C24	.004			DPMS6D39	PVC6239	6PS-D39
C25	.01			DPMS4S1	1PB-S10	1PB-S10
C26	.04			DPMS6S39	PVC6139	6PS-S39
C30	.01					10TS-S10
C31	.04			DPMS6S39	PVC6139	6PS-S39
C32	.022			DPMS2S22	1PB-S22	1PB-S22
C33	500	DD-501		GP500	GP350	10TS-T50
C34	.001	DD-102			GP210	10TS-D10
C36	.01			DPMS4S1	1PB-S10	1PB-S10
C37	500 10%	DD-501		GP500	GP350	10TS-T50
C38	.001	DD-102			GP210	10TS-D10
C40	.1	DC-104		MGP1	MAG5001	TG-P10
C41	.04			DPMS6S39	PVC6139	6PS-S39
C42	.02			DPMS2S2	PVC212	2PS-S20
C45	.02			DPMS2S2	PVC212	2PS-S20

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C46	.02			DPMS2S2	PVC212	2PS-S20
C47	.1			DPMS2P1	EWF1A010	1PB-P10
C50	.02				GP120	5GA-S20
C51	100		DD-101	GP100	GP310	10TS-T10
C52	500		DD-501	GP500	GP350	10TS-T50
C53	50		DTZ-50	NP050	CN0450	10TCC-Q50
C54	.04				GP140	5GA-S40
C55	.022			DPMS2S22	EWF1A122	1PB-S22
C56	110 10%			CD10FD111J03	SX311	424MC110QJ501
C57	33		DTZ-33	NP033	CN0433	10TCC-Q33
C58	500		DD-501	GP500	GP350	10TS-T50
C59	.1 12V		DC-104	MGP1	MAG5001	TG-P10
C60	1				CN0510	10TCC-V10
C61	33		DTZ-33	NP033	CN0433	10TCC-Q33
C62	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C63	100 10%			CD10FD101J03	SX310	424MC100QJ501
C64	300 10%			CD15FD301J03	SX330	424ME300QJ501
C65	250 10%			CD10FD251J03		
C66	250 10%			CD10FD251J03		
C67	50			CD6ED50QJ03		
C68	.04				GP140	5GA-S40
C69	51 10%			CD6ED51QJ03		424MC51RQJ501
C70	.04				GP140	5GA-S40
C71	200 10%		DD-201	GP200	GP320	10TS-T20
C73	.04				GP140	5GA-S40
C76	150 10%		DD-151		CN0315	10TCC-T15
C77	.04				GP140	5GA-S40
C78	.04				GP140	5GA-S40
C79	200 10%		DD-201	GP200	GP320	10TS-T20
C80	3		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C81	110 10%			CD10FD111J03	SX311	424MC110QJ501
C82	3		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C83	110 10%			CD10FD111J03	SX311	424MC110QJ501
C84	110 10%			CD10FD111J03	SX311	424MC110QJ501
C85	.01					10TS-S10
C86	.01					10TS-S10
C87	50		DTZ-50	NP050	CN0450	10TCC-Q50
C88	30 10% NPO					10TCC-Q30
C89	80 10%				GP482	10TS-Q82
C90	500		DD-820		GP350	10TS-T50
C91	100		DD-501	GP500	GP310	10TS-T10
C94	.04		DD-101	GP100	GP140	5GA-S40
C95	.04				GP140	5GA-S40
C96	.1			DPMS2P1	EWF1A010	1PB-P10
C97	.1			DPMS2P1	EWF1A010	1PB-P10
C100	.02 50V			DPMS2S2	PVC212	2PS-S20
C101	.0047					10TS-D47
C102	68			CD6ED68QJ03	SX468	424MC68RQJ501

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.	TRW PART No.
VR1	Volume/Power Switch	10K				
VR2	Squelch/Tone Switch	50K				
VR3	Squelch Range	50K				
VR4	Mic Gain	100K				
VR5	AMC	20K		T-20K(2) or TSC2BW253B(2)	C-253 (2)	MTC24L1 (2)
VR6	RF Meter	100K				X201R253B (2)
VR7	S Meter	100K				

(2) Cut off one of the end terminals and bend to fit PC board.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Rec Antenna (27MHz)	T-60			
L2	Rec RF (27MHz)	T-59			
L3	Rec Mixer (10MHz)	T-56			
L4	Rec Mixer (10MHz)	T-57			
L5	IF (455kHz)	NS2A (NS-1890A)			
L6	IF (455kHz)	1S1C (NS1891)			
L7	Synth. Osc (37MHz)	T-61			
L8	TVI Trap (54MHz)	NS-1753			
L9	Pi Filter (27MHz)	NS-1752			
L10	Pi Filter (27MHz)	NS-1751			
L11	Final Tank (27MHz)	NS-1752			
L12	RF Choke	NS-1726			
L13	RF Choke	NS-1726			
L14	Xmit Driver (27MHz)	F-99			
L15	Xmit Buffer (27MHz)	F-97			
L16	Harmonic Suppressor (27MHz)	T-58			
L17	Harmonic Suppressor (27MHz)	T-52			
L18	Xmit Mixer (27MHz)	T-52			
L19	Xmit Osc (10MHz)	F-96			
L20	RF Choke	NS1724			
L21	RF Choke	NS-1724			

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.	
T3	1500mA	.2	1.5mH	CHTE-19			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	2	1		IPTE-19			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	128	8		OPTE-35		

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3 5/8" PM 8 ohms	SR-90-02		

ROBYN MODEL DG-30

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	2 Amp Fast-acting			AGC2	HDJ	312002	150145	FG2-2

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	37.600		DA20 W37.600	1,2,3,4	X8	10.625		DB90 W10.625	2,6,10,14,18,22
X2	37.650		DA20 W37.650	5,6,7,8	X9	10.615		DB90 W10.615	3,7,11,15,19
X3	37.700		DA20 W37.700	9,10,11,12	X10	10.595		DB90 W10.595	4,8,12,16,20,23
X4	37.750		DA20 W37.750	13,14,15,16	X11	10.180		DC90 W10.180	1,5,9,13,17,21
X5	37.800		DA20 W37.800	17,18,19,20	X12	10.170		DC90 W10.170	2,6,10,14,18,22
X6	37.850		DA20 W37.850	21,22,23	X13	10.160		DC90 W10.160	3,7,11,15,19
X7	10.635		DB90 W10.635	1,5,9,13,17,21	X14	10.140		DC90 W10.140	4,8,12,16,20,23

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Filter	CFU455H	455kHz
M1	Meter	130NA	S/Rf
S1	Switch		Channel Selector
S2	Switch	NV3-5763	Ext Sp.
S3	Switch	NV3-5763	PA-CB
S4	Switch	NV3-5763	ANL
	Crystal Socket	MC25U	
	Printed Circuit Board	007-2	Main

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

ITEM	PART No.	ITEM	PART No.
Pushbutton, PA-CB/Ext Spkr/ANL	4202-801		