

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 1-602A

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: GC ELECTRONICS
L5, L6, L7 #5000, #8290
ALL other tunable coils and transformers #9440

ROYCE MODEL 1-602A

RECEIVER

Connect an AC CTVM 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 Q3, low side to ground.	455kHz, 1000Hz @ 30% modulation	Any	L5,L6,L7	Set generator output to maintain 0.5V across speaker voice coil. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1uV.	13	L1,L2,L3, L4	Adjust for maximum.

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.	27.115MHz, 1000Hz @ 30% modulation, output 500uV.	13	VR3	Set squelch control fully clockwise. Adjust so that squelch just breaks.
"S" METER High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 100uV	13	VR7	Adjust for "S" 9 reading on panel meter.

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

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TRANSMITTER

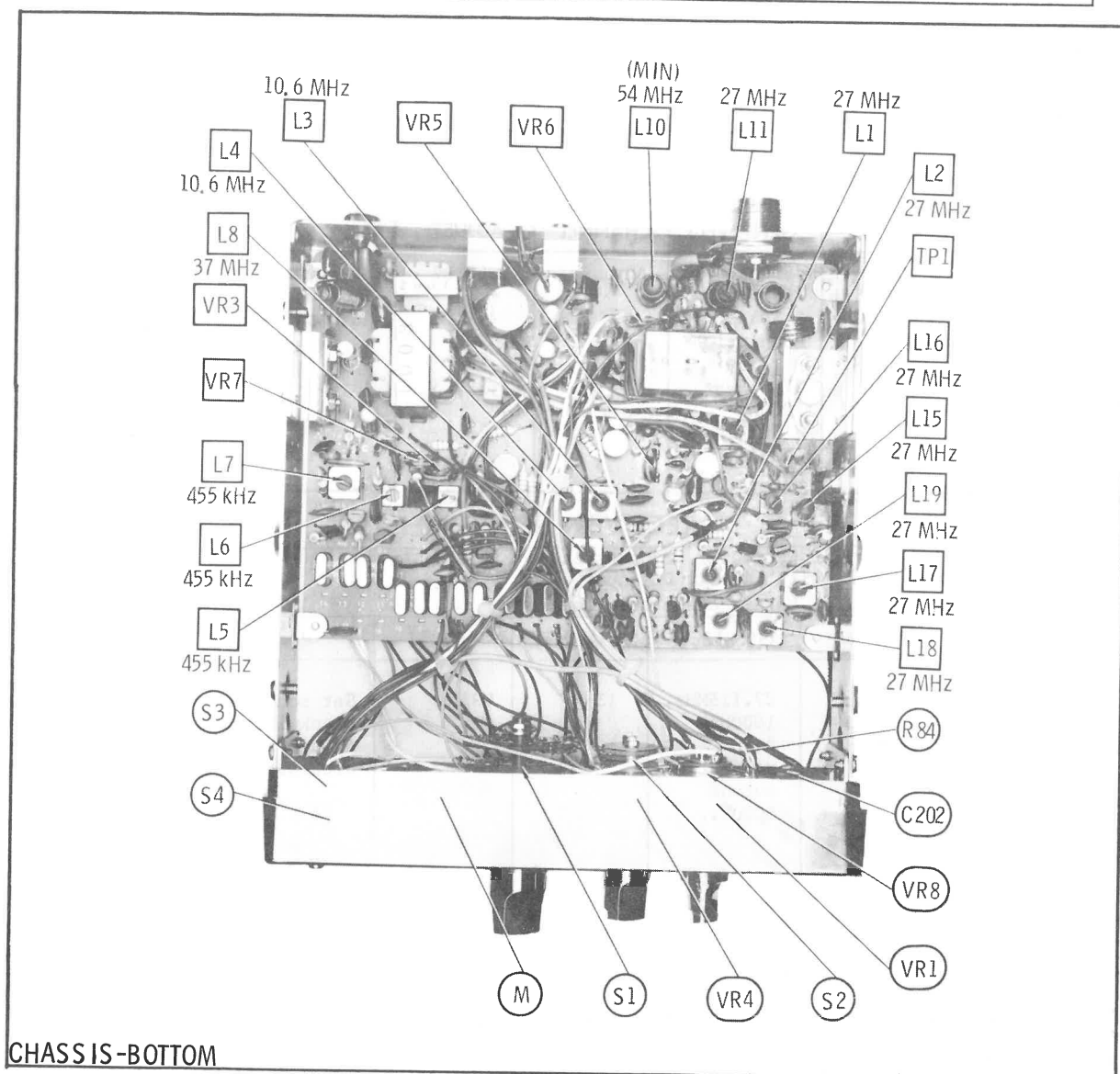
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	L8,L19, L18,L17, L16,L15	Channel selector to CH 13. Key transmitter. Adjust for maximum.
TVI TRAP TV (Ch.2).	L10	Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Remove jumper at TP1 and connect 0-1000 DC milliammeter between L14 and collector of Q17	L11	Adjust for 5 watts (Max.).

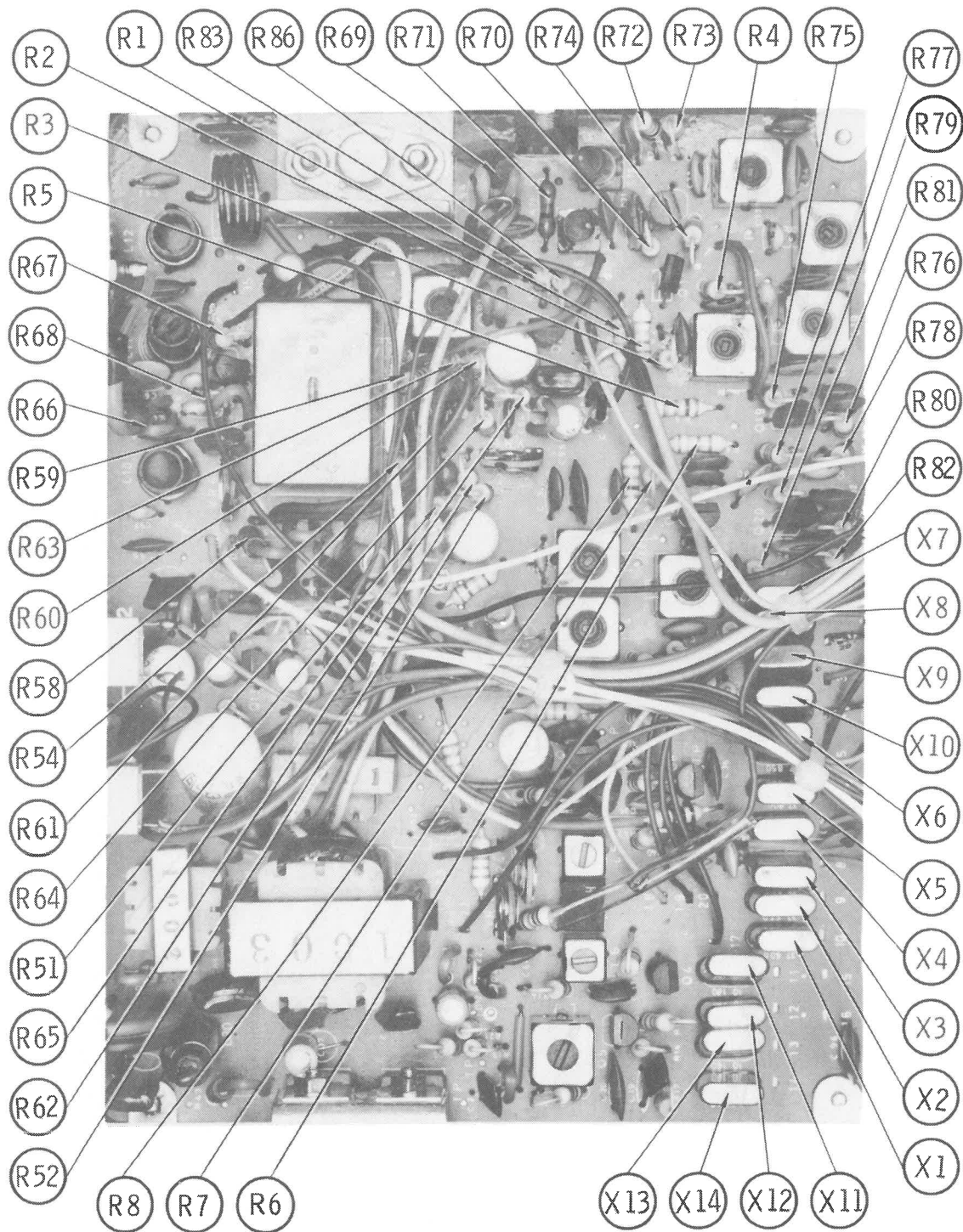
TRANSMITTER ADJUSTMENTS

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

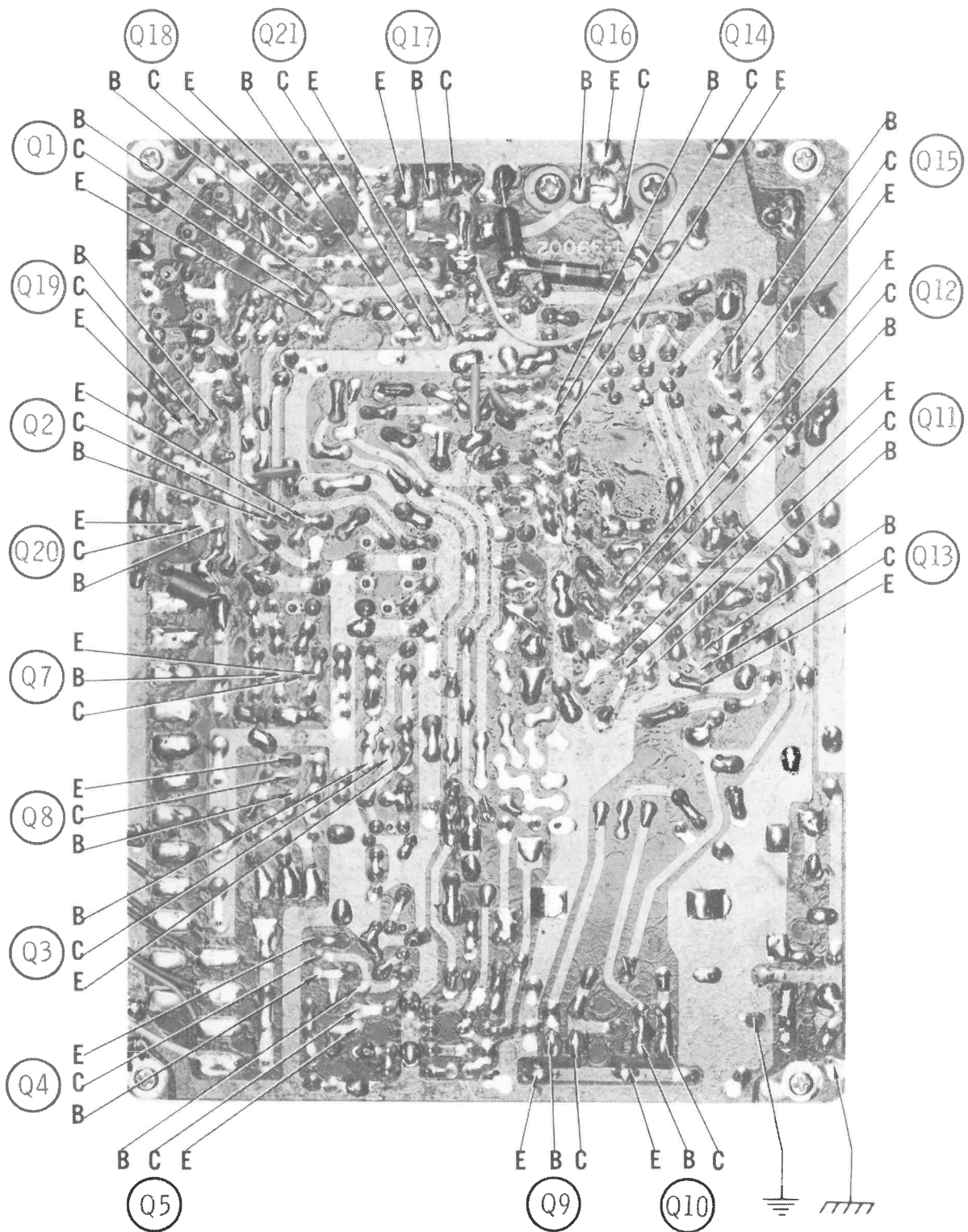
INDICATOR	ADJUST	REMARKS
AMC Modulation Meter connected to antenna jack RF PANEL METER RF Wattmeter	VR5	Inject a 1000Hz 13mV signal to microphone input. Adjust for 100% modulation.
	VR6	Key transmitter. Adjust so that panel RF meter reads in center of red scale.



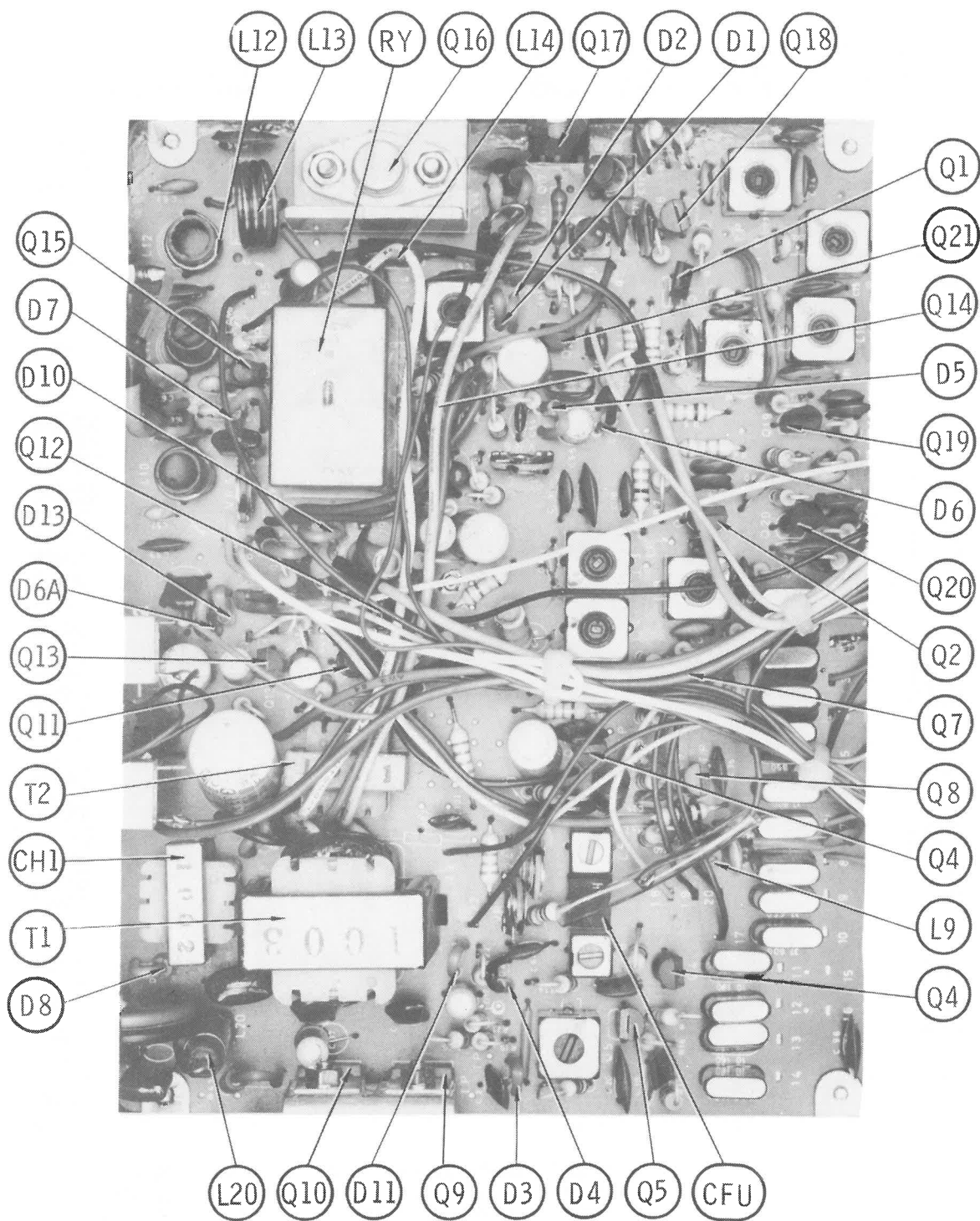
CHASSIS-BOTTOM



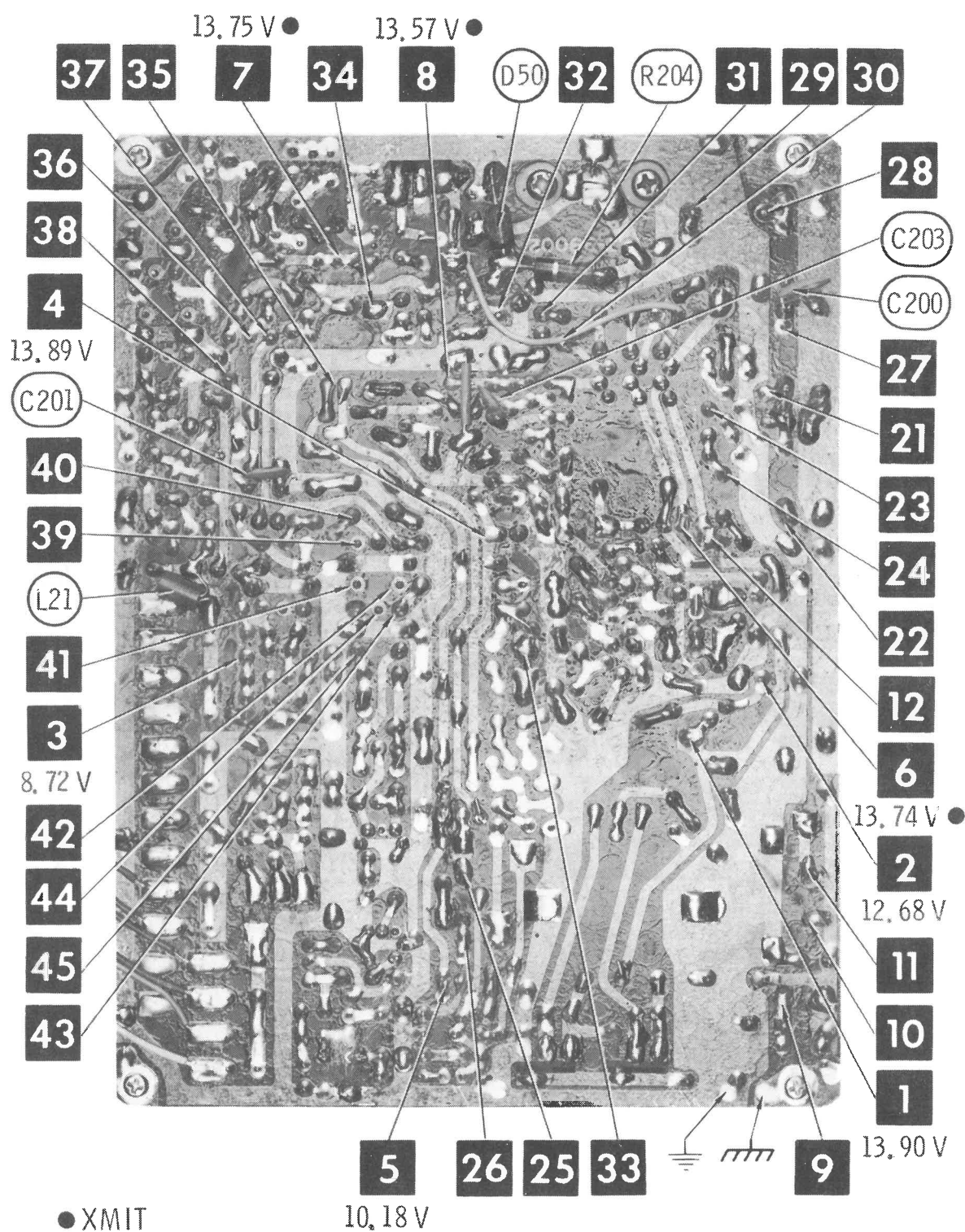
MAIN BOARD



MAIN BOARD

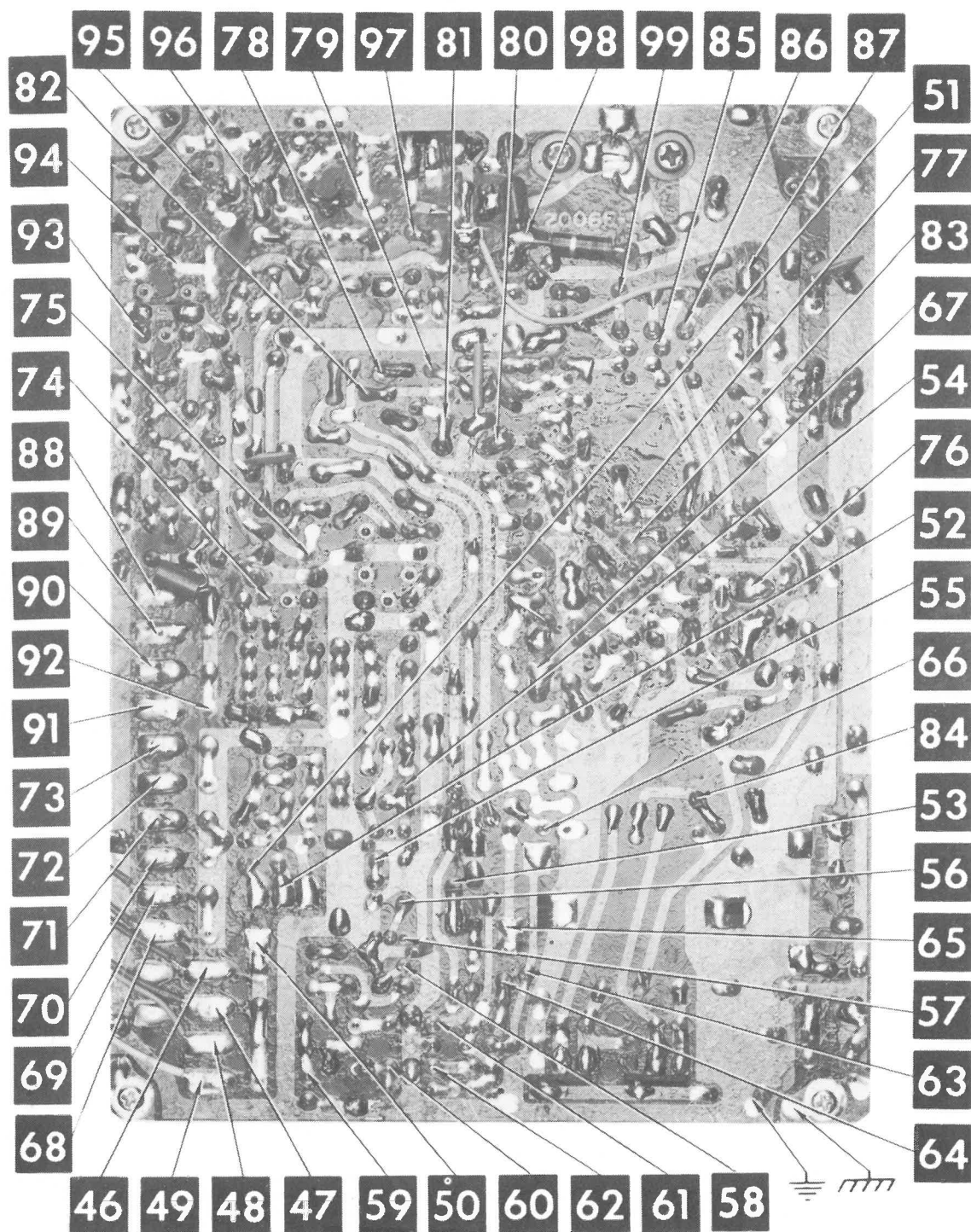


MAIN BOARD

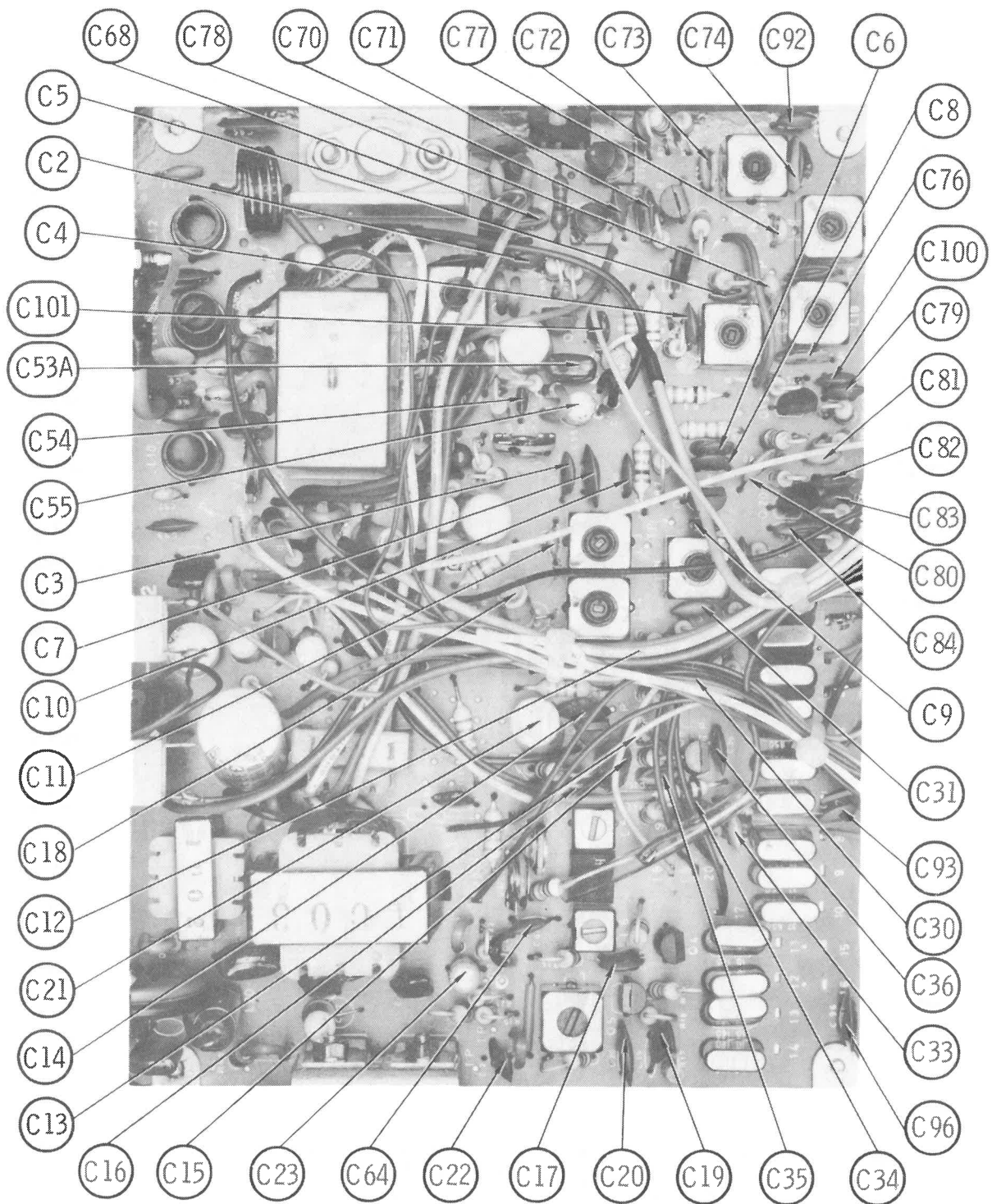


MAIN BOARD

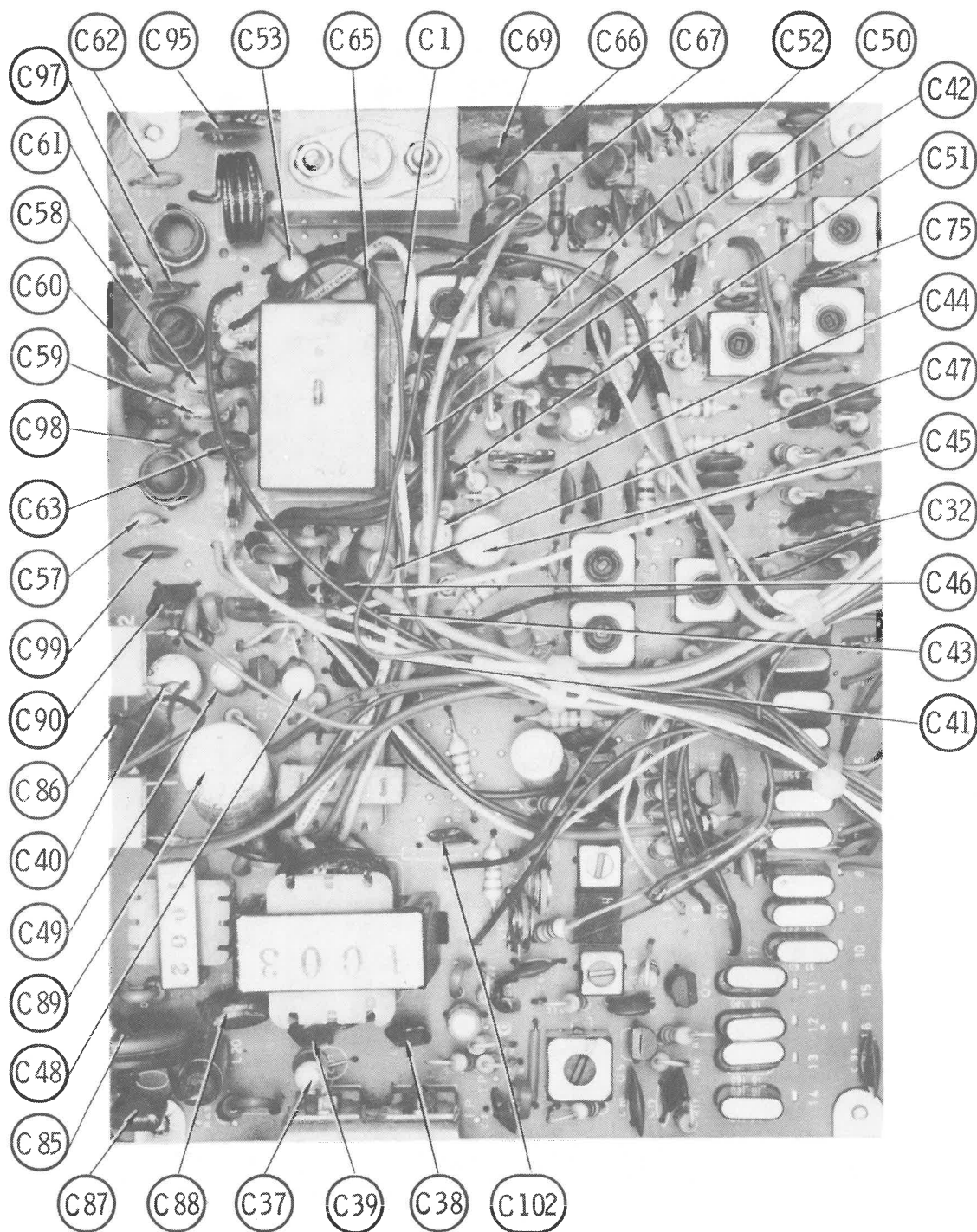
ROYCE MODEL 1-602A



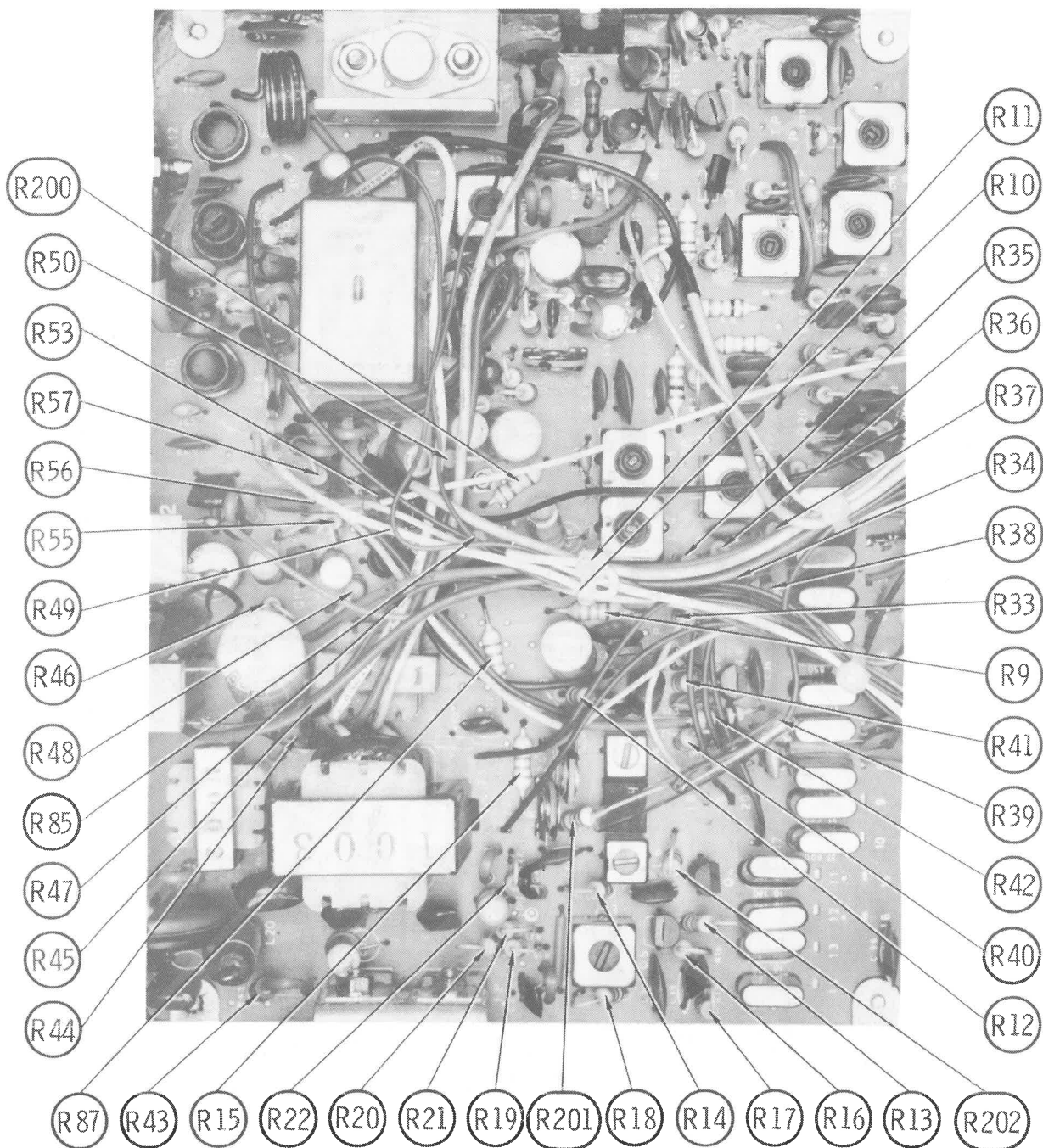
MAIN BOARD



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 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
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	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.
D1	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D3	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6A	EQB01-10 10V Zener		GEZD-10	Z1210	PTC506	HEPZ0413	RE 115	SK3061	RT-241	ECG140
D7	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D8	SR1K-2		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D10	SR1K-2		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D11	MC301		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D12	1N60(1)		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D13	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D50	(2)		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
Q1	2SC535B		GE-20	(1R)2SC535B	PTC136	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q2	2SC710C		GE-17	TR-24	PTC121	HEPS0016	RE 9	SK3018	RT-105	ECG107
Q3	2SC710C		GE-17	TR-24	PTC121	HEPS0016	RE 9	SK3018	RT-105	ECG107
Q4	2SC710D		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3018	RT-102	ECG123A
Q5	2SC710D		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3018	RT-102	ECG123A
Q7	2SC710B		GE-10	TR-24	PTC126	HEPS0015	RE 9	SK3018	RT-105	ECG107
Q8	2SC710C		GE-17	TR-24	PTC121	HEPS0016	RE 9	SK3018	RT-105	ECG107
Q9	2SC1014(3)		GE-28	TR-55	PTC110	HEPS3020	RE 80	SK3041	RT-154	ECG210
Q10	2SC1014(3)		GE-28	TR-55	PTC110	HEPS3020	RE 80	SK3041	RT-154	ECG210
Q11	2SC735Y		GE-63	TR-24	PTC123	HEPS0014	RE 78	SK3124	RT-172	ECG289
Q12	2SC711E		GE-62	(1R)2SC372	PTC123	HEPS0033	RE 64	SK3018	RT-105	ECG199
Q13	2SC711E		GE-62	(1R)2SC372	PTC123	HEPS0033	RE 64	SK3018	RT-105	ECG199
Q14	2SC711E		GE-62	(1R)2SC372	PTC123	HEPS0033	RE 64	SK3018	RT-105	ECG199
Q15	2SC710C		GE-17	TR-24	PTC121	HEPS0016	RE 9	SK3018	RT-105	ECG107
Q16	2SC517(4)				PTC176	HEPS3001		SK3049		ECG224
Q17	(5)						RE 80			
Q18	2SC620D		GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3122	RT-102	ECG123A
Q19	2SC710D		GE-20	TR-24	PTC121	HEPS0016	RE 13	SK3018	RT-102	ECG123A
Q20	2SC710C		GE-17	TR-24	PTC121	HEPS0016	RE 9	SK3018	RT-105	ECG107
Q21	2SC710C		GE-17	TR-24	PTC121	HEPS0016	RE 9	SK3018	RT-105	ECG107

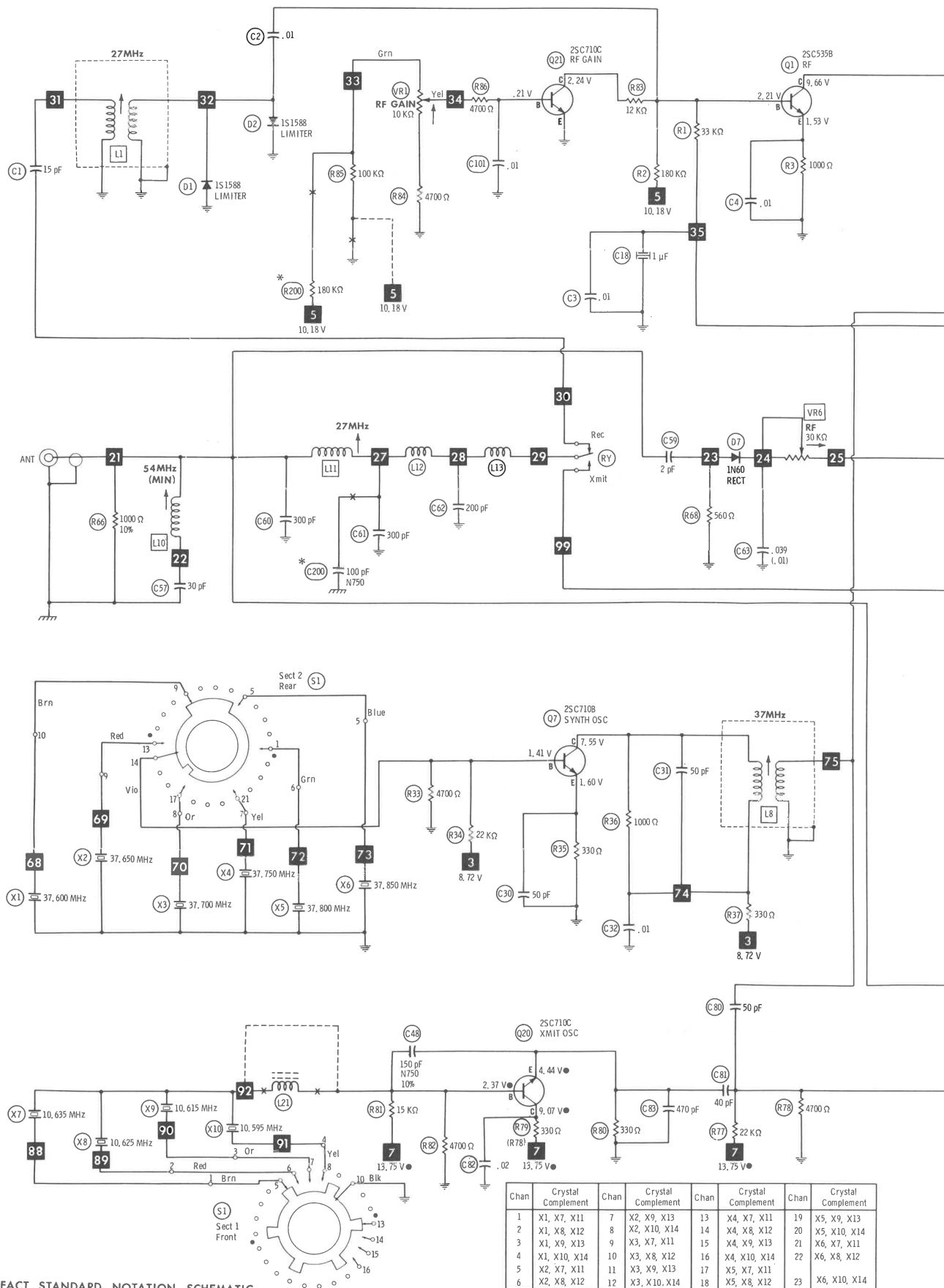
- (1) Used in some versions.
 (2) Not used in some versions.
 (3) Rating 7 watts @ 1.5 amps.
 (4) Rating 10 watts @ 2 amps.
 (5) Rating 4 watts @ 1 amp.

ROYCE MODEL 1-602A

ELECTROLYTIC CAPACITORS

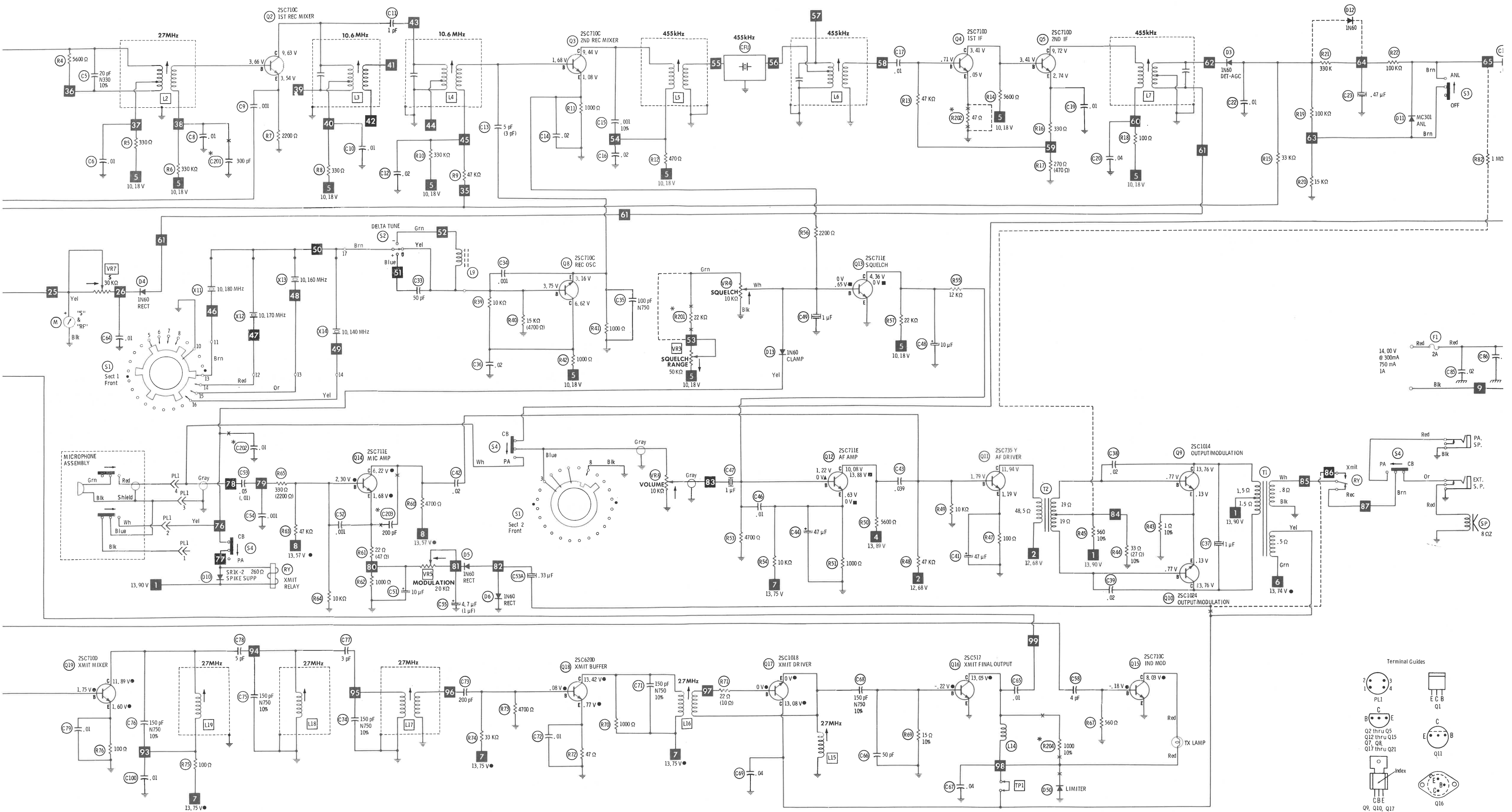
ITEM No.	RATING	REPLACEMENT DATA					
		MFR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C18	1 NP 50V		CTA-7425	EN50-105	WNP1-50	TCN501A	TVAN-1560
C21	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C23	.47 NP 50V						
C37	1 NP 50V		CTA-7425	EN50-105	WNP1-50	TCN501A	TVAN-1560
C40	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C41	47 6.3V		RME-C-B-050	EP6-50	PC50-10	VTT47A6	EV-1026
C44	47 6.3V		RME-C-B-050	EP6-50	PC50-10	VTT47A6	EV-1026
C45	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C47	1 50V		RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C48	10 16V		RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C49	1 NP 50V		CTA-7425	EN50-105	WNP1-50	TCN501A	TVAN-1560
C50	47 16V		RME-E-E-050	EP15-50	PC50-16	VTT47D16	EV-1226
C51	10 10V					TDC106M025FL	SD20-109
C53A	.33 NP 50V						
C55	4.7 16V		RME-A-J-005	EP30-5	PC5-50	VTT4R7A50	EV-1319
C89	1000 16V		RME-N-E-1000	EP15-1000	PC1000-16	VTT1000L16	EV-1260

(CONTINUED ON PAGE 78)



A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE™

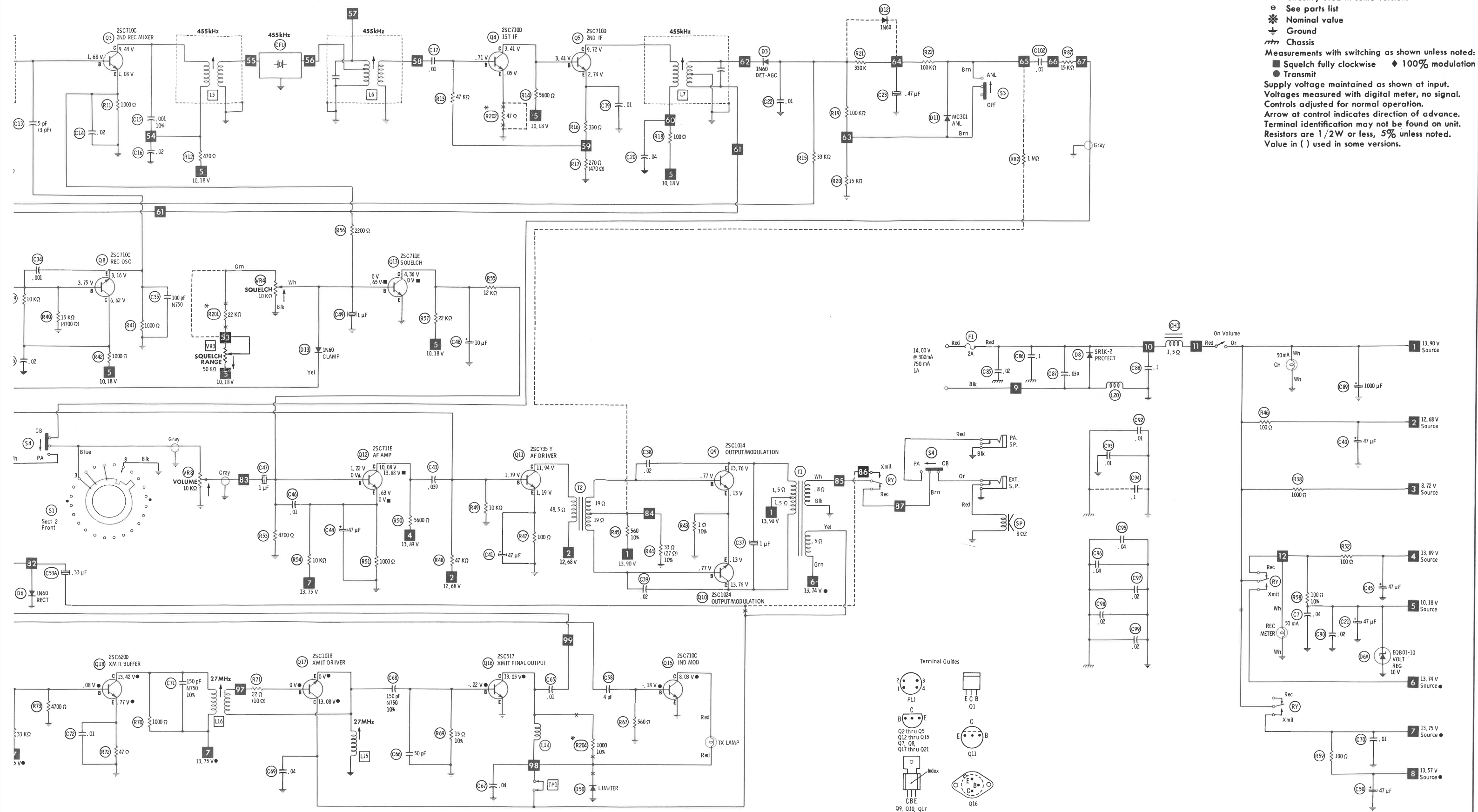
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- ✖ Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ✱ Nominal value
- ⊥ Ground
- Chassis

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.



PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	15		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
C2	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C3	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C4	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C5	20 10% N330						
C6	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C7	.04		CCD-403			GP140	5GA-S40
C8	.01		CCD-272			GP227	10TS-D27
C9	.0001		1MDF-1-102	CPJ-102	DPMS6D1	EWFA1A210	1PB-D10
C10	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C11	1					CN0510	10TCC-V10
C12	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C13	5		CCT0-050				10TCC-V50
C14	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C15	.0001		DM19-102J	CPR-1000J	CD19FD102J03	SX210	424ME1001J501
C16	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C17	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C19	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C20	.04		CCD-403			GP140	5GA-S40
C22	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C30	50		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C31	50		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C32	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C33	50		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C34	.0001		1MDF-1-102	CPJ-102	DPMS6D1	EWFA1A210	1PB-D10
C35	100 N750		CCTN-101	DTN-100	N100	CN7310	10TCU-T10
C36	.02		CCD-203			GP120	5GA-S20
C38	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C39	.002		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C42	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C43	.039		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C46	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C52	.0001			DC-104	MGPI	MAG5001	TG-P10
C53A	.05		1MDF-2-503		DPMS2S5	EWFA1A150	2PS-S50
C54	.001		1MDF-1-102	CPJ-102	DPMS6D1	EWFA1A210	1PB-D10
C47	30		CCT0-300				10TCC-Q30
C58	4		CCT0-4R7	DTZ-4R7	NP04P7	CN0537	10TCC-V47
C59	2		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C60	30		CCT0-300				10TCC-Q30
C61	300		CCD-301	DD-301	GP300	GP330	10TS-T30
C62	200		CCD-201	DD-201	GP200	GP320	10TS-T20
C63	.039		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C64	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C65	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C66	50		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C67	.04		CCD-403			GP140	5GA-S40
C68	150 10% N750		CCTN-151	DTN-150	N150	CN7315	10TCU-T15
C69	.04		CCD-403			GP140	5GA-S40
C70	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C71	150 10% N750		CCTN-151	DTN-150	N150	CN7315	10TCU-T15
C72	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C73	200		CCD-201	DD-201	GP200	GP320	10TS-T20
C75	150 10% N750		CCTN-151	DTN-150	N150	CN7315	10TCU-T15
C76	150 10% N750		CCTN-151	DTN-150	N150	CN7315	10TCU-T15
C77	3		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C78	5		CCT0-050				10TCC-V50
C79	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C80	50		CCT0-510	DTZ-50	NP050	CN0450	10TCC-Q50
C81	40					CN0510	10TCC-V10
C82	.02		CCD-203			GP120	5GA-S20
C83	470		CCD-471	DD-471	GP470	GP347	10TS-T47
C84	150 10% N750		CCTN-151	DTN-150	N150	CN7315	10TCU-T15
C85	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C86	.1		1MDF-3-104		DPMS2P1	EWFA1A010	1PB-P10
C87	.039		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C88	.1		1MDF-3-104		DPMS2P1	EWFA1A010	1PB-P10
C90	.02		1MDF-1-203	CPJ-203	DPMS2S2	PVC212	2PS-S20
C92	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C93	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C95	.04		CCD-403			GP140	5GA-S40
C96	.04		CCD-403			GP140	5GA-S40
C97	.02		CCD-203			GP120	5GA-S20
C99	.02		CCD-203			GP120	5GA-S20
C100	.02		CCD-203			GP120	5GA-S20
C101	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C102	.01		1MDF-1-103	CPJ-103	DPMS4S1	EWFA1A110	1PB-S10
C200	100 N750		CCTN-101	DTN-100	N100	CN7310	10TCU-T10
C201	300		CCD-301	DD-301	GP300	GP330	10TS-T30
C202	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C203	200		CCD-201	DD-201	GP200	GP320	10TS-T20

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.
VR1	RF Gain	10K					
VR3	Squelch Range	50K					
VR4	Squelch	10K					
VR5	Modulation	20K					
VR6	RF Meter	30K					
VR7	"S" Meter	30K					
VR8	Volume/Switch	10K					

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Antenna (27MHz)	2-0049	ETC15089		
L2	REC Mixer Input (27MHz)	2-0045	ETC15061		
L3	Mixer IF (10.6MHz)	2-0046			
L4	Harmonic Sup (10.6MHz)	2-0046	KAC6184		
L5	Input IF (455kHz)	2-0039-A			
L6	Interstage IF (455kHz)	2-0039C			
L7	Output IF (455kHz)	2-0050	ETC15090		
L8	Synth Osc (37MHz)	2-0047	ETC15063		
L9	Delta Tune	2-0075	2R7		
L10	TVI Trap (54MHz)	2-0047A			
L11	Pi Filter (27MHz)	2-0041			
L12	Pi Filter (27MHz)	2-0041A			
L13	RF Choke	2-0037			
L14	RF Choke	2-0038			
L15	RF Choke	2-0036			
L16	Xmit Buffer (27MHz)	2-0035			
L17	Buffer Input (27MHz)	2-0047	ETC15063		
L18	Harmonic Sup (27MHz)	2-0048	ETC15064		
L19	Xmit Mixer Output (27MHz)	2-0048	ETC15064		
L20	RF Choke	2-0055			
L21	RF Choke		010		

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.	
CH1	1000mA	1.5	.8mH	1002 (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.	
T2	1.6	1		1001 (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.	
T1	32	8	1003 (1)			(1) Number on unit.

PARTS LIST AND

(When ordering parts,

SPEAKER

ITEM No.	TYPE
SP	3 1/2" PM, 8 ohms

FUSE DEVICES

ITEM No.	DESCRIPTION
F1	2A. Fast Acting

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFG PART
X1	37.600	
X2	37.650	
X3	37.700	
X4	37.750	
X5	37.800	
X6	37.850	
X7	10.635	

MISCELLANEOU

ITEM No.	PART NAME
CFU	Ceramic Filter
M	Meter
RY	Relay
S1	Switch
S2	Switch
S3	Switch
S4	Switch
	Printed Circuit

CABINETS & CAI

ITEM
Front Panel
Case Bottom
Case Top
Knob, Volume, Squelch

ACCESSORIES

ITEM
Microphone
DC Power Cord

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.
VR1 VR3	RF Gain Squelch Range	10K 50K		TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR4 VR5	Squelch Modulation	10K 20K		T-20K (2) or TSV-25K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)
VR6	RF Meter	30K		TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR7	"S" Meter	30K		TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR8	Volume/Switch	10K					

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Antenna (27MHz)	2-0049	ETC15089		
L2	REC Mixer Input (27MHz)	2-0045	ETC15061		
L3	Mixer IF (10.6MHz)	2-0046			
L4	Harmonic Sup (10.6MHz)	2-0046	KAC6184		
L5	Input IF (455kHz)	2-0039-A			
L6	Interstage IF (455kHz)	2-0039C			
L7	Output IF (455kHz)	2-0050	ETC15090		
L8	Synth Osc (37MHz)	2-0047	ETC15063		
L9	Delta Tune	2-0075	2R7		
L10	TVI Trap (54MHz)	2-0047A			
L11	Pi Filter (27MHz)	2-0041			
L12	Pi Filter (27MHz)	2-0041A			
L13	RF Choke	2-0037			
L14	RF Choke	2-0038			
L15	RF Choke	2-0036			
L16	Xmit Buffer (27MHz)	2-0035			
L17	Buffer Input (27MHz)	2-0047	ETC15063		
L18	Harmonic Sup (27MHz)	2-0048	ETC15064		
L19	Xmit Mixer Output (27MHz)	2-0048	ETC15064		
L20	RF Choke	2-0055			
L21	RF Choke		010		

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.	
CH1	1000mA	1.5	.8mH	1002 (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.	
T2	1.6	1		1001 (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.	
T1	32	8	1003 (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.	
SP	3 1/2" PM, 8 ohms	5-0142		

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	50160		AGC-2	HCJ	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		DA14W37.600	1,2,3,4	X8	10.625		DB90W10.625	2,6,10,14,18,22
X2	37.650		DA14W37.650	5,6,7,8	X9	10.615		DB90W10.615	3,7,11,15,19
X3	37.700		DA14W37.700	9,10,11,12	X10	10.595		DB90W10.595	4,8,12,16,20,23
X4	37.750		DA14W37.750	13,14,15,16	X11	10.180		DC22W10.180	1,5,9,13,17,21
X5	37.800		DA14W37.800	17,18,19,20	X12	10.170		DC22W10.170	2,6,10,14,18,22
X6	37.850		DA14W37.850	21,22,23	X13	10.160		DC22W10.160	3,7,11,15,19
X7	10.635		DB90W10.635	1,5,9,13,17,21	X14	10.140		DC22W10.140	4,8,12,16,20,23

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CFU	Ceramic Filter	50164	IF (455kHz)
M	Meter	5-0133	
RY	Relay	04-0064	S/RF
S1	Switch	Rec./Xmit.	
S2	Switch	4-0053	Channel Selector
S3	Switch	4-0071	Delta Tune
S4	Switch	4-0092	ANL
	Printed Circuit Board	T39002	Main

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

ITEM	PART No.	ITEM	PART No.
Front Panel	3-0058	Knob, Channel	3-0102
Case Bottom	3-0264	Knob, Channel	3-0102
Case Top	3-0263	Channel Disc	3-0329
Knob, Volume, Squelch	3-0101	Mic Hanger	3-0220
		Mounting Bracket	3-0201

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	5-1200	
DC Power Cord	5-0152	