



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-202

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: GC ELECTRONICS:
T4, T5, T6 5000, 8290
ALL other Coils and Transformers .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 TR3 base, low side to ground.	455kHz, 1000Hz @ 30% modulation.	Any	T6,T5,T4	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	T1,T2,T3	Set generator output low enough to prevent AGC limiting. Adjust for maximum.

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
AGC High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 50,000uV.	13	VR1	Adjust volume control to obtain 0db. Decrease generator to 50uv. Adjust so that signal does not drop more than 10db.
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1000uV.	13	VR4	Set squelch control fully clockwise. Adjust so that squelch just breaks.

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

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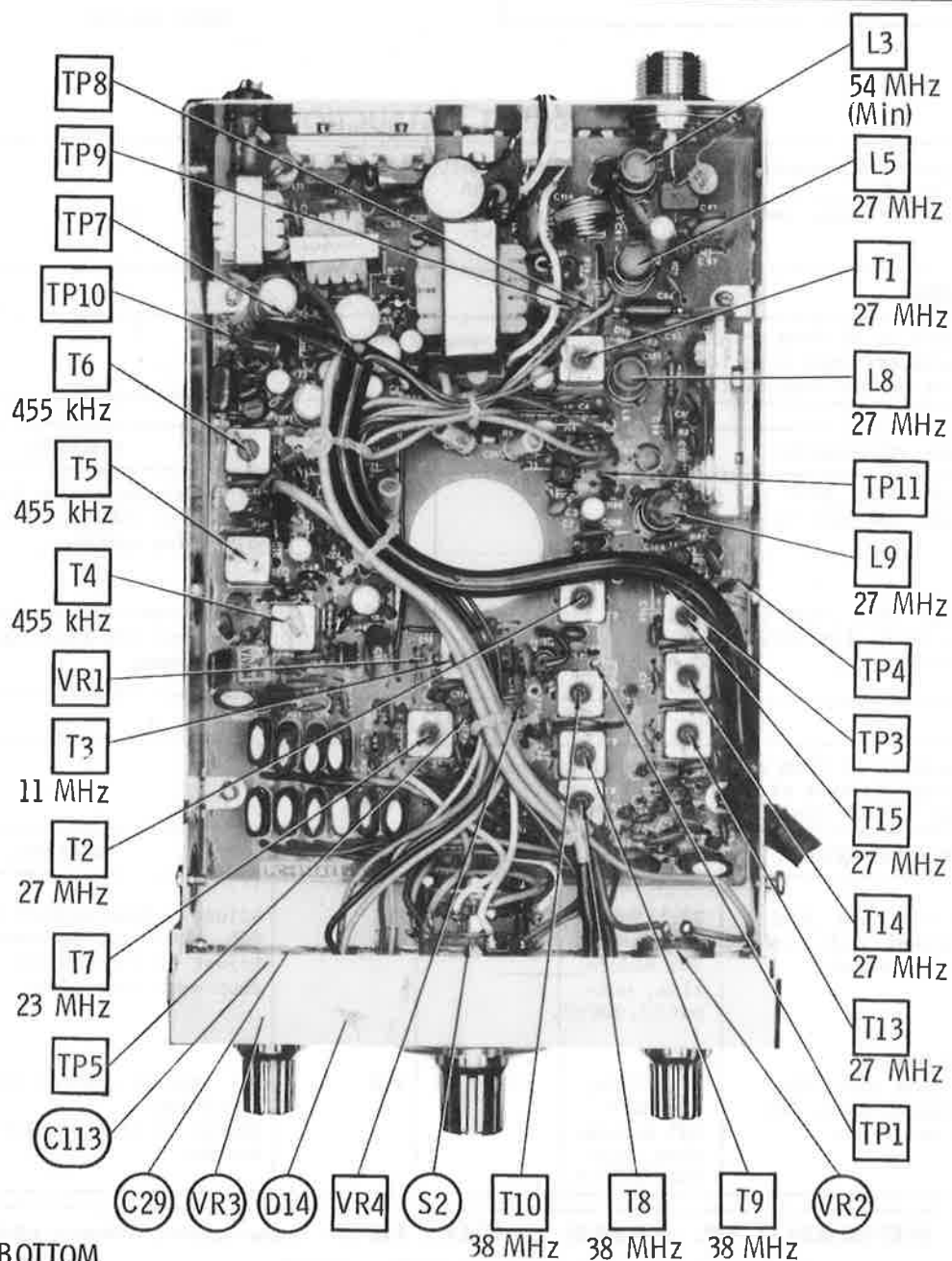
Printed in U. S. of America

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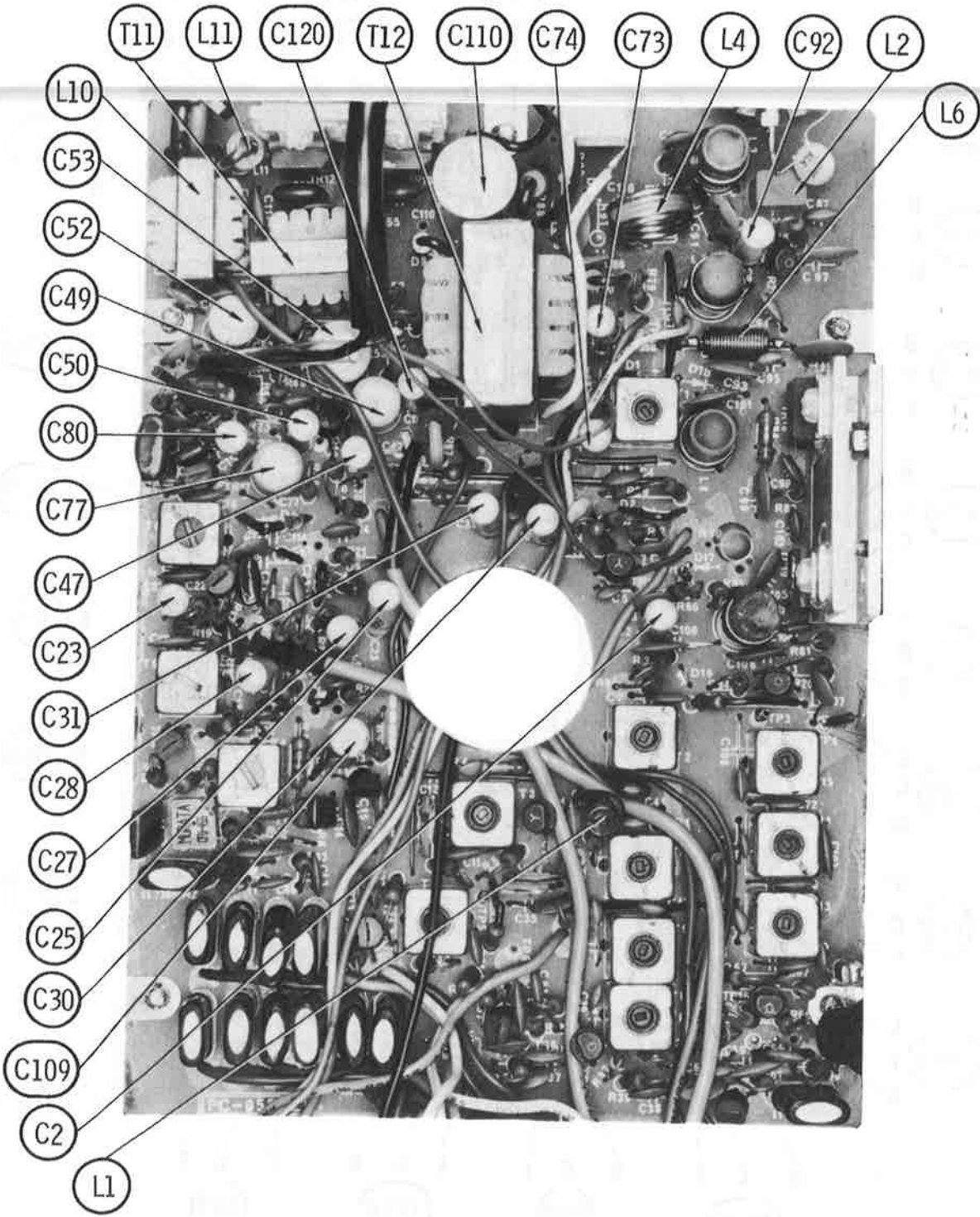
TRANSMITTER

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

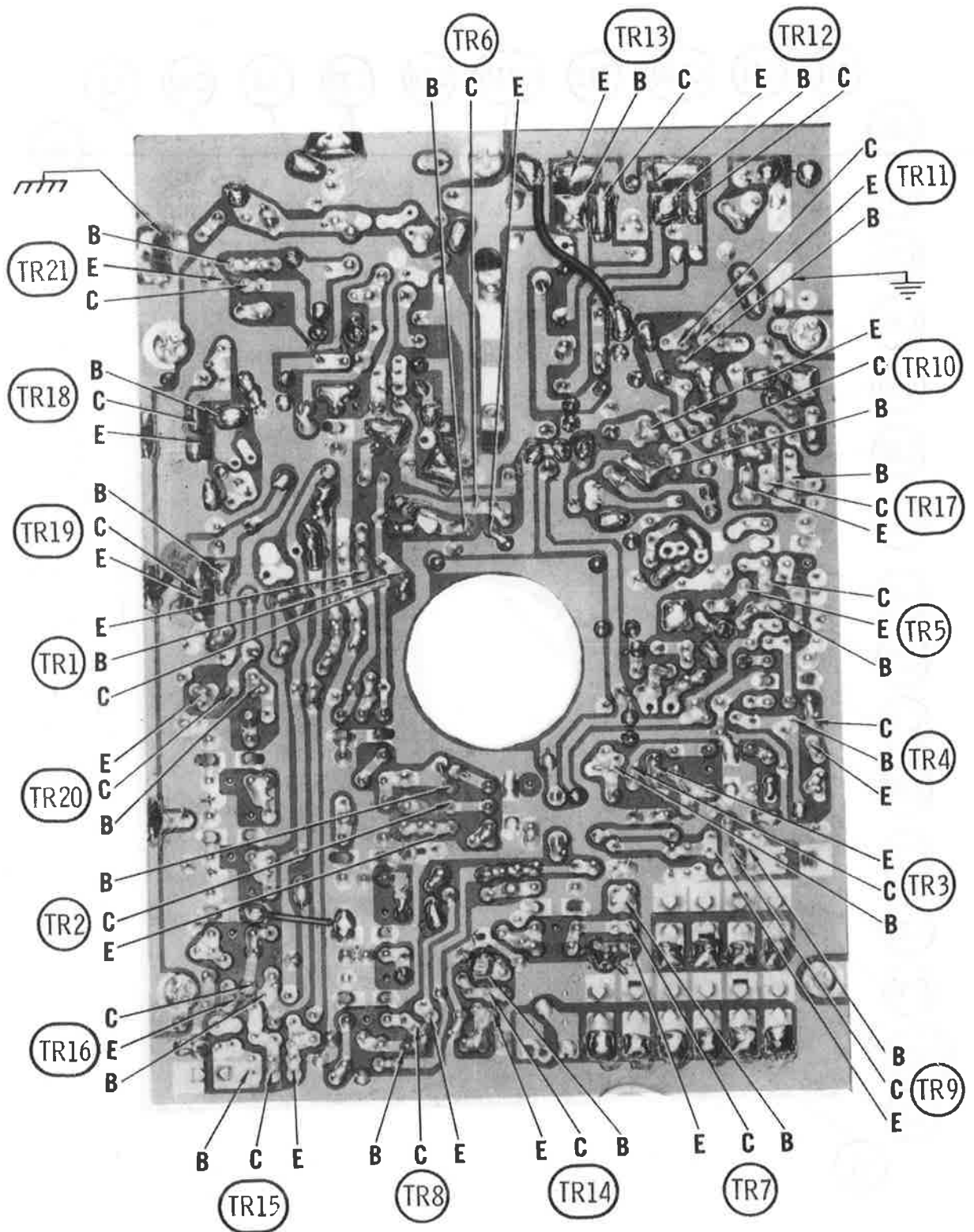
INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	T7,T8,T9, T10,T13,T14, T15,L9,L8, L5	Channel selector to Ch. 13. Key transmitter. Adjust for maximum.
TVI TRAP TV (Ch. 2)	L3	Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Remove jumper at TP8 & TP9, insert 0-500 DC milliammeter.	L5	Adjust for 5 watts. (Max.)



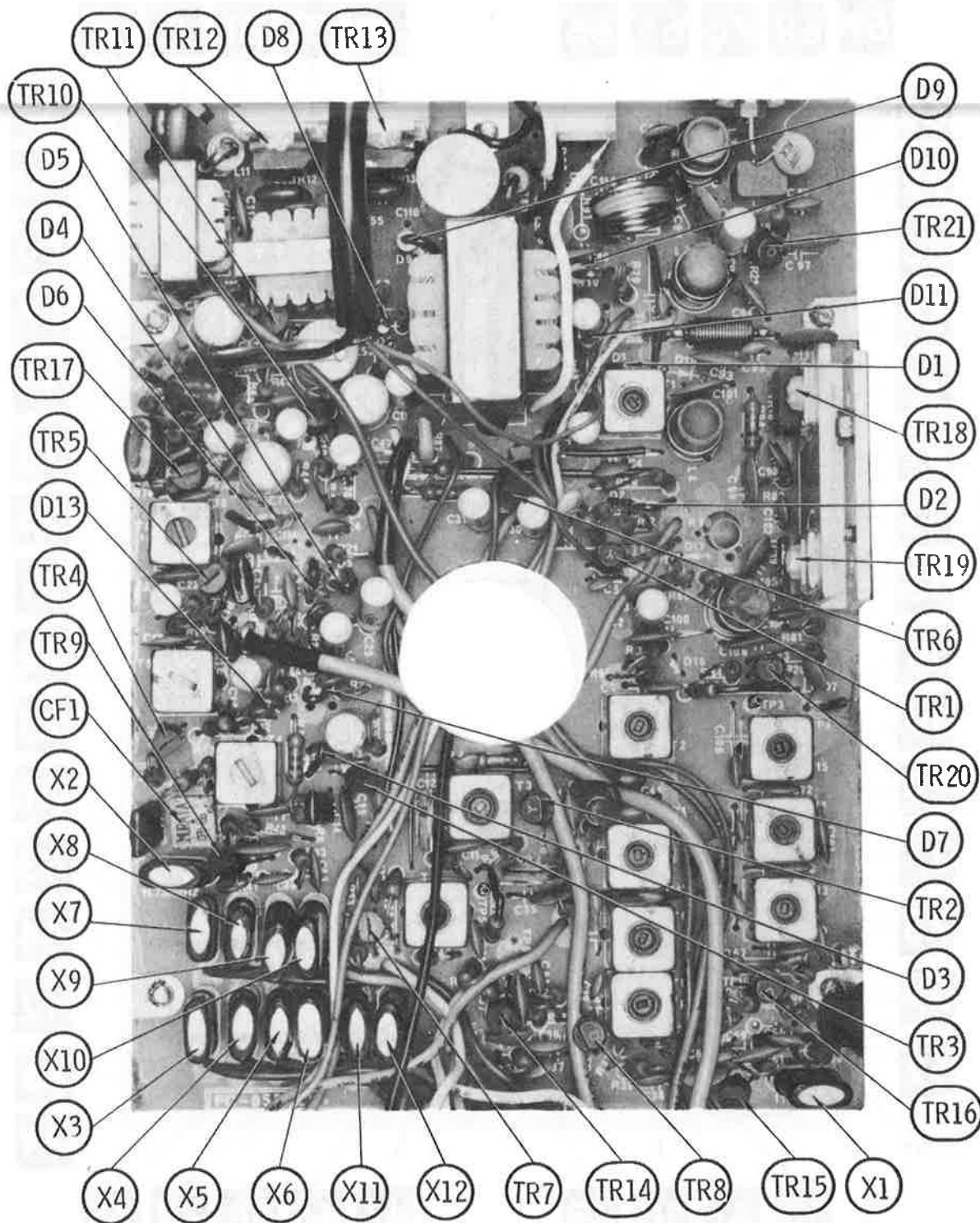
CHASSIS - BOTTOM



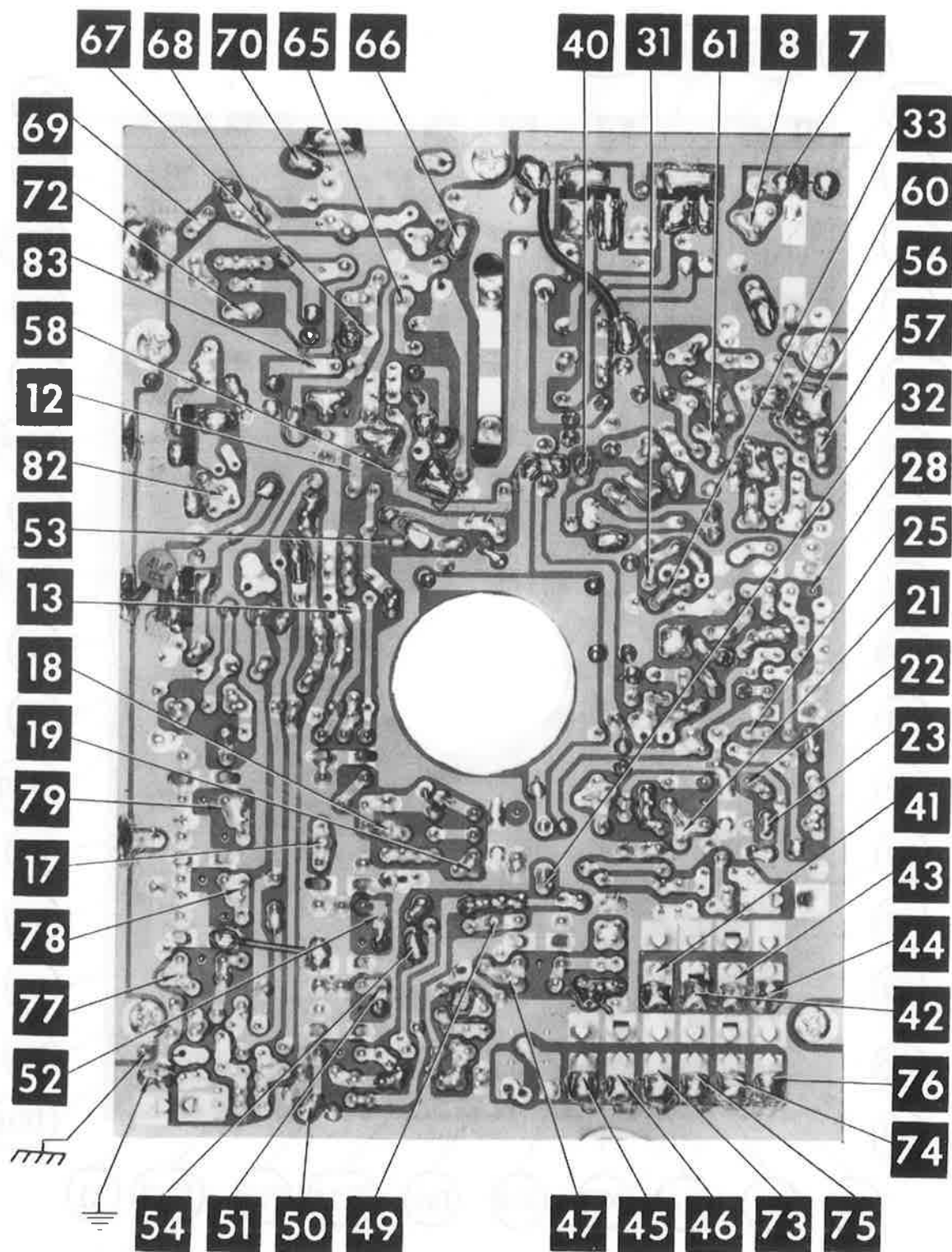
MAIN BOARD



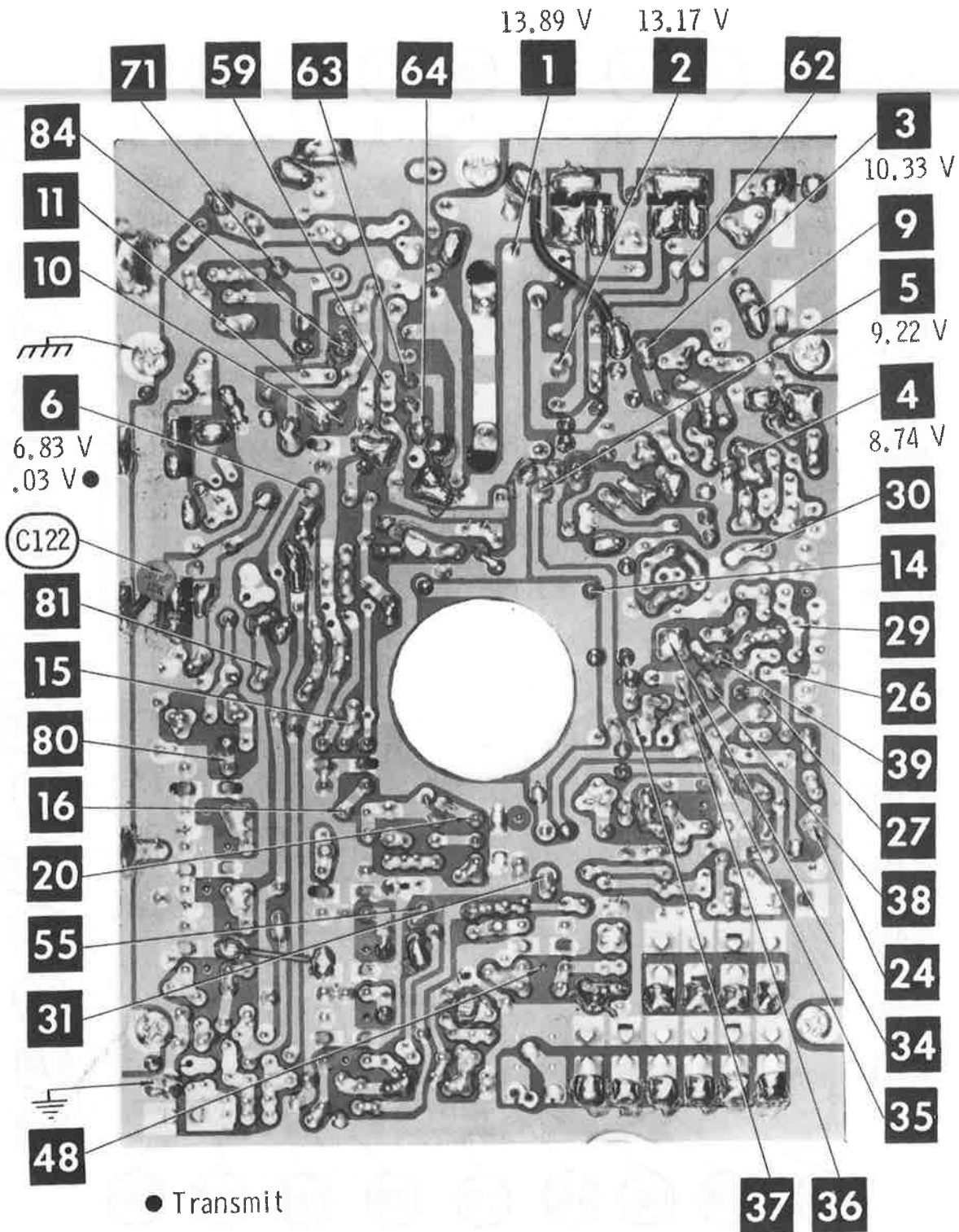
MAIN BOARD



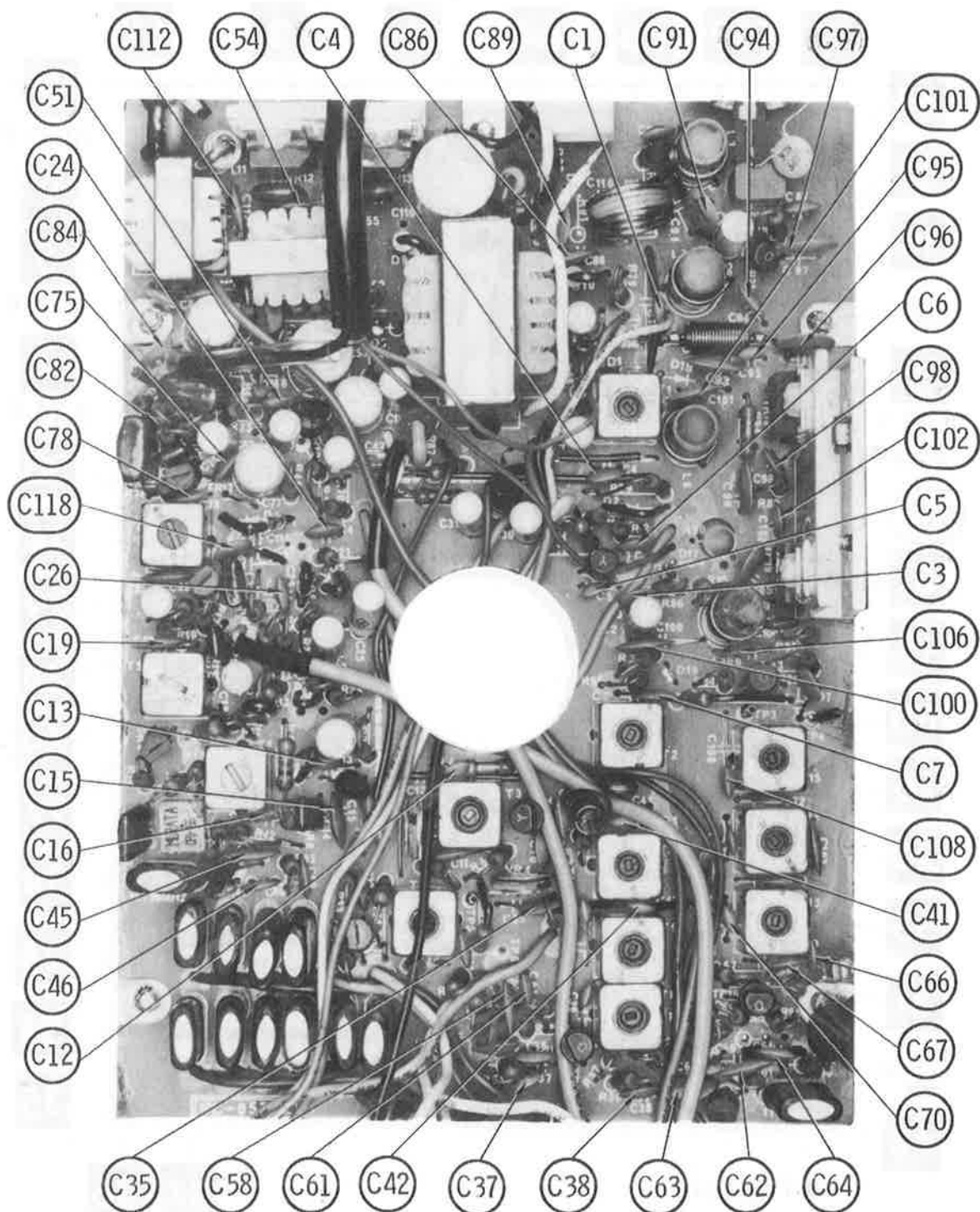
MAIN BOARD



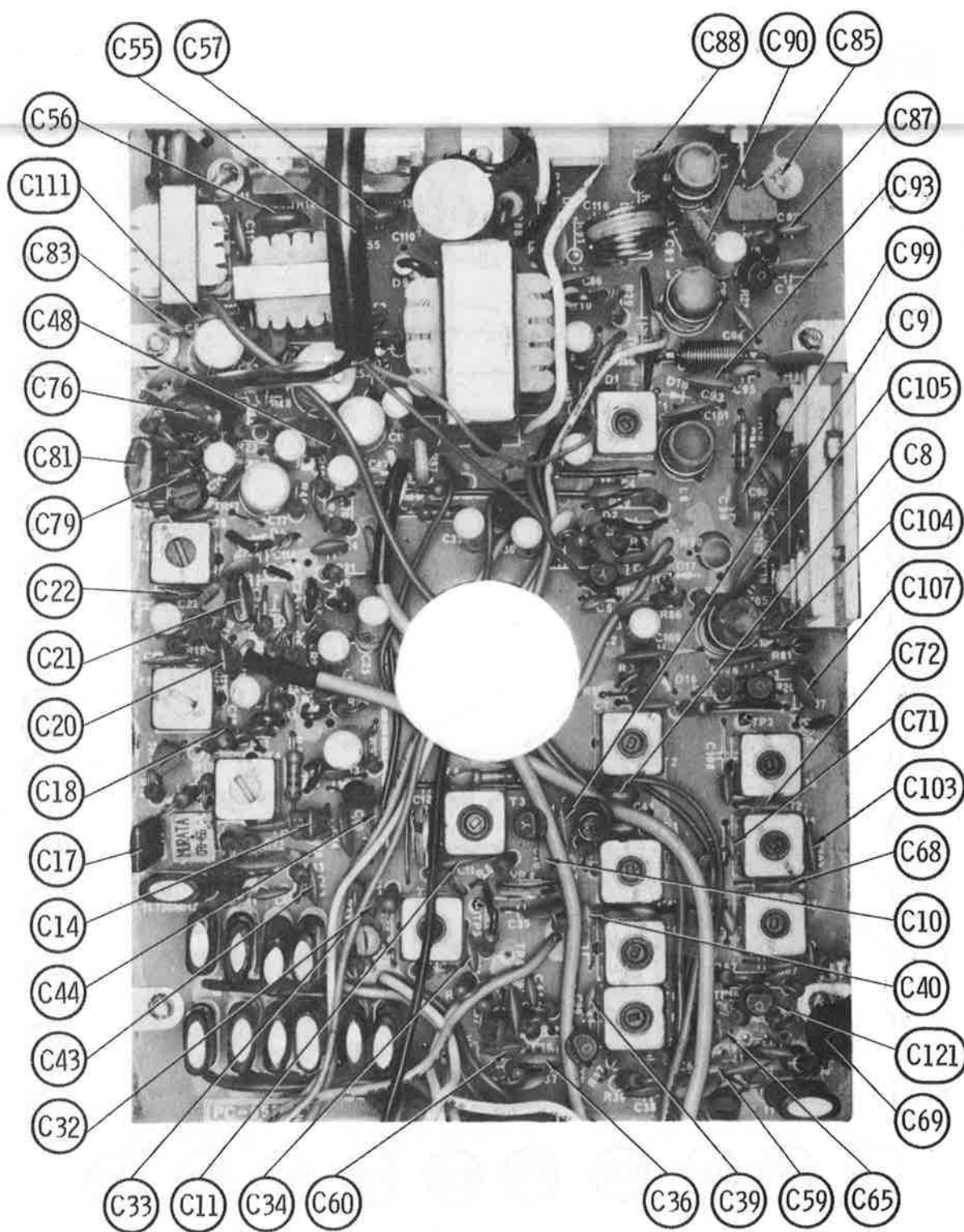
MAIN BOARD



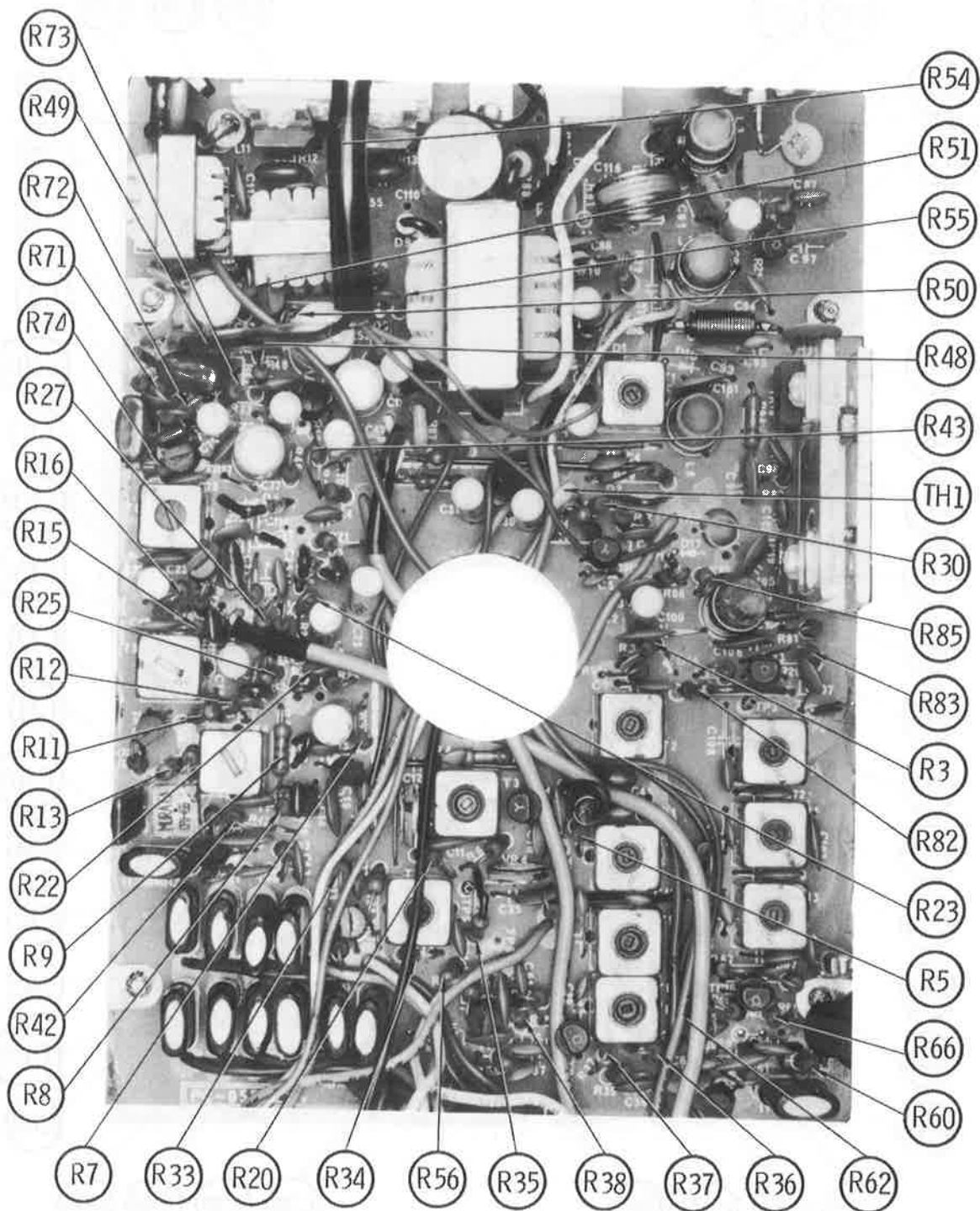
MAIN BOARD



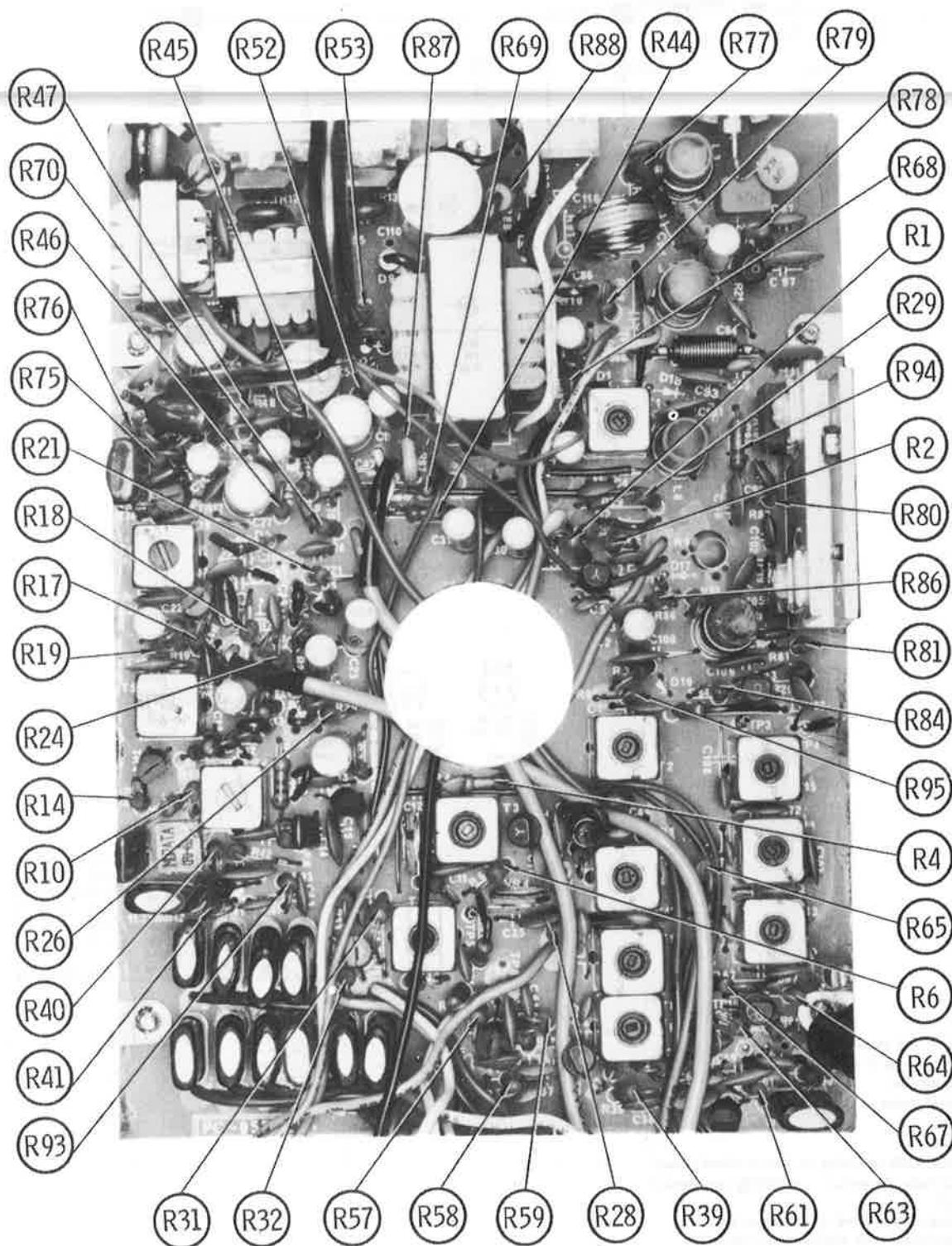
MAIN BOARD



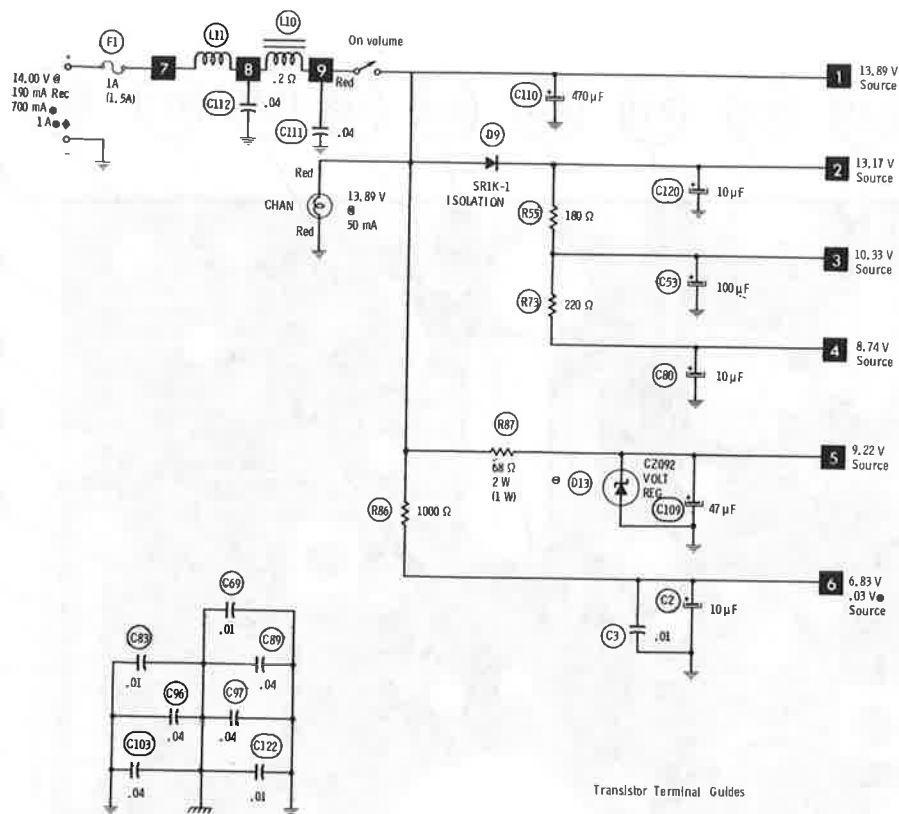
MAIN BOARD



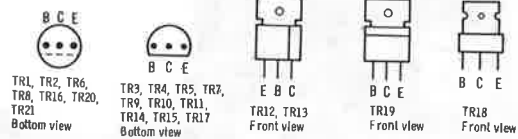
MAIN BOARD



MAIN BOARD



Transistor Terminal Guides



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

— 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.

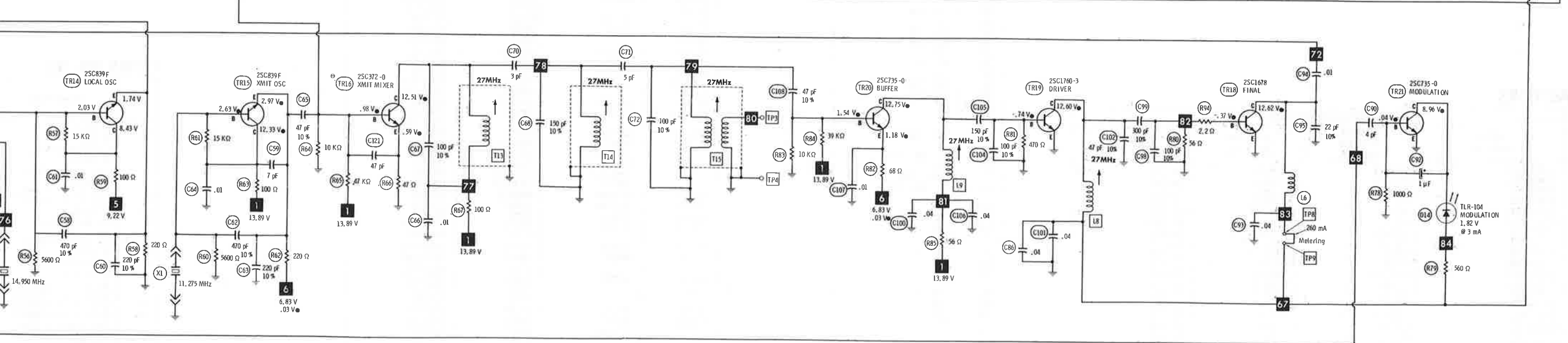
Resistors are 1/2W or less, 5% unless noted.

Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA						
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	CD37A	DAAY003002	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	WG-713	DAAY004001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D3	WG-713	DAAY004001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D4	1N60	DANZ006000	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1N60	DANZ006000	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1N60	DANZ006000	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	WG-713	DAAY004001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	MV-1 (Varistor)	DDFY007001							
D9	SR1K-1	DAAY002001	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D10	SR1K-1	DAAY002001	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D11	1N60	DANZ006000	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D13	CZ-092 (9.2 Volt Zener)	DAAY010092	GEZD-9.1	ZB9,1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D14	TLR-104 (LED)	DAAY007001							
TR1	2SC394Y	DBCZ039404	GE-17	PTC139	HEPS0014	RE 9	SK3018	RT-107A	ECG229
TR2	2SC394Y	DBCZ039404	GE-17	PTC139	HEPS0014	RE 9	SK3018	RT-107A	ECG229
TR3	2SC839F	DBCZ083906	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR4	2SC839F	DBCZ083906	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR5	2SC839F	DBCZ083906	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR6	2SC373	DBCZ373000	GE-212	PTC121	HEPS0015	RE 192	SK3122	RT-105	ECG199
TR7	2SC839F	DBCZ083906	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR8	2SC372-0	DBCZ083906	GE-210	PTC121	HEPS0015	RE 13	SK3122	RT-105	ECG123A
	2SC839F	DBCZ083906(1)	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR9	2SC839F	DBCZ083906	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR10	2SC945R	DBCZ094504	GE-210	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
TR11	2SC1364	DBCZ136406	GE-20	PTC121	HEPS0015	RE 192	SK3124	RT-172	ECG123A
TR12	2SC1096M	DBBY003001(10)	GE-28	PTC110	HEPS5027	RE 42	SK3054	RT-197	ECG186A
TR13	2SC1096M	DBBY003001(10)	GE-28	PTC110	HEPS5027	RE 42	SK3054	RT-197	ECG186A
TR14	2SC839F	DBCZ083906	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR15	2SC839F	DBCZ083906	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR16	2SC372-0	DBCZ083906	GE-210	PTC121	HEPS0015	RE 13	SK3122	RT-105	ECG123A
	2SC839F	DBCZ083906(1)	GE-61	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
TR17	2SC945R	DBCZ094504	GE-210	PTC121	HEPS0015	RE 192	SK3124	RT-107A	ECG199
TR18	2SC1678	DBBY005001(11)	GE-215	PTC186	HEPS0015	RE 203			ECG235
TR19	2SC1760-3	DBCZ176003							ECG306
TR20	2SC735-0	DBCZ073503	GE-210	PTC123	HEPS0015	RE 13	SK3122	RT-107A	ECG289
TR21	2SC735-0	DBCZ073503	GE-210	PTC123	HEPS0015	RE 13	SK3122	RT-107A	ECG289

(1) Used in some versions.
(10) Rating, 10 watts @ 2.0 amps.
(11) Rating, 10 watts @ 3.0 amps.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C2	10 16V	CEWF311000	PC10-25	VTT10A25	EV-1222
C23	10 16V	CEWF311000	PC10-25	VTT10A25	EV-1222
C25	10 16V	CEWF311000	PC10-25	VTT10A25	EV-1222
C27	.47 16V	CEWF314780	PC1-50	VTR47B63	EV-1310
C28	1 16V	CEWF311090	PC1-50	TT15X1	EV-1315
C30	1 16V	CEWF311090	PC1-50	TT15X1	EV-1315
C31	10 16V	CEWF311000	PC10-25	VTT10A25	EV-1222
C47	1 16V	CEWF311090	PC1-50	TT15X1	EV-1315
C49	100 10V	CEWF111010	PC100-10	VTT100E10	EV-1130
C50	10 16V	CEWF311000	PC10-25	VTT10A25	EV-1222
C52	100 10V	CEWF111010	PC100-10	VTT100E10	EV-1130
C53	100 16V	CEWF311010	PC100-16	VTT100F16	EV-1230
C73	1 50V	CEWF811090	PC1-50	MTV1CB50	EV-1615
C74	10 16V	CEWF311000	PC10-25	VTT10A25	EV-1222
C77	47 16V	CEWF314700	PC50-16	VTT47D16	EV-1226
C80	10 16V	CEWF311000	PC10-25	VTT10A25	EV-1222
C92	1 16V	CEWF311090	PC1-50	TT15X1	EV-1315
C109	47 10V	CEWF114700	WBR4-250	TC50XB	TVA-1500.2
C110	470 16V	CEWF314710	PC500-16	VTT47QJ16	EV-1250
C120	10 16V	CEWF311000	PC10-25	VTT10A25	EV-1222

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	33 10%		DTZ-33	NP033	CN0433	10TCC-Q33
C3	.01		DC-103	GP10000	MAG5011	2SS-S10
C4	.01		DC-103	GP10000	MAG5011	2SS-S10
C5	3		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C6	.01		DC-103	GP10000	MAG5011	2SS-S10
C7	.01		DC-103	GP10000	MAG5011	2SS-S10
C8	.01 10% 50V			DPMS4S1	EWFA1A110	1PB-S10
C9	150 10%				CN0315	10TCC-T15
C10	.01		DTZ-150	GP10000	MAG5011	2SS-S10
C11	.01		DC-103	GP10000	MAG5011	2SS-S10
C12	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C13	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C14	.01 10% 50V			DPMS4S1	EWFA1A110	1PB-S10
C15	500 10% N1200	CZZY004501			*	
C16	.04				GP140	5GA-S40
C17	.039 10% 50V			DPMS6S39	PVC6139	6PS-S39
C18	.5pF NPO	CCCE815081				
C19	.04				GP140	5GA-S40
C20	.01 10% 50V			DPMS4S1	EWFA1A110	1PB-S10
C21	.04 10% 50V			DPMS6S39	PVC6139	6PS-S39
C22	.04				GP140	5GA-S40
C24	.01		DC-103	GP10000	MAG5011	2SS-S10
C26	.002		DD-182	GP1800	GP218	2SS-D18
C29	.01		DC-103	GP10000	MAG5011	2SS-S10
C32	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C33	5					10TCC-V50
C34	.01		DC-103	GP10000	MAG5011	2SS-S10
C35	.01		DC-103	GP10000	MAG5011	2SS-S10
C36	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C37	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C38	.01		DC-103	GP10000	MAG5011	2SS-S10
C39	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C40	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C41	15 10%		DTZ-15	NP015	CN0415	10TCC-Q15
C42	25 10%		DTZ-25	NP025	CN0425	10TCC-Q25
C43	220 10%		DD-221		GP322	10TS-T22
C44	10 10%		DTZ-10	NP010	CN0410	10TCC-Q10
C45	470 10%		DD-471	GP470	GP347	10TS-T47
C46	.01		DC-103	GP10000	MAG5011	2SS-S10
C48	.005		DC-502	GP5000	TA250	2SS-D50
C51	.002		DD-202	GP2000	GP220	2SS-D20
C54	.01		DC-103	GP10000	MAG5011	2SS-S10
C55	.01		DC-103	GP10000	MAG5011	2SS-S10
C56	.033 10% 50V			DPMS6S33	EWFA1A110	6PS-S33
C57	.033 10% 50V			DPMS6S33	EWFA1A110	6PS-S33
C58	470 10%		DD-471	GP470	GP347	10TS-T47
C59	7		DTZ-6R8	NP06P8	CN0568	10TCC-V68
C60	220 10%		DD-221		GP322	10TS-T22
C61	.01		DC-103	GP10000	MAG5011	2SS-S10
C62	470 10%		DD-471	GP470	GP347	10TS-T47
C63	220 10%		DD-221		GP322	10TS-T22
C64	.01		DC-103	GP10000	MAG5011	2SS-S10
C65	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C66	.01		DC-103	GP10000	MAG5011	2SS-S10
C67	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C68	150 10%		DTZ-150	NP0150	CN0315	10TCC-T15
C69	.01		DC-103	GP10000	MAG5011	2SS-S10
C70	3		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C71	5					10TCC-V50
C72	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C75	.01		DC-103	GP10000	MAG5011	2SS-S10
C76	.1 10% 50V			DPMS2P1	EWFA1A010	1PB-P10
C78	.01		DC-103	GP10000	MAG5011	2SS-S10
C79	.0047 10% 50V			DPMS6D47	EWFA1A247	1PB-D47
C81	.1 10% 50V			DPMS2P1	EWFA1A010	1PB-P10
C82	.01		DC-103	GP10000	MAG5011	2SS-S10
C83	.01		DC-103	GP10000	MAG5011	2SS-S10
C84	.005		DC-502	GP5000	TA250	2SS-D50
C85	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C86	.04				GP140	5GA-S40
C87	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C88	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C89	.04				GP140	5GA-S40
C90	4		DTZ-4R7	NP04P7	CN0537	10TCC-V47
C91	220 10%		DD-221		GP322	10TS-T22
C93	.04				GP140	5GA-S40
C94	.01		DC-103	GP10000	MAG5011	2SS-S10
C95	22 10%		DTZ-22	NP022	CN0422	10TCC-Q22
C96	.01		DC-103	GP10000	MAG5011	2SS-S10
C97	.04				GP140	5GA-S40
C98	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C99	300 10%		DD-301	GP300	GP330	10TS-T30
C100	.04				GP140	5GA-S40
C101	.04				GP140	5GA-S40

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

CAPACITORS(cont)

ITEM No.	RATING
C102	47 10%
C103	.04
C104	100 10%
C105	150 10%
C106	.04
C107	.01
C108	47 10%
C111	.04
C112	.04
C113	.01
C118	100 10%
C121	47 10%
C122	.01

*Not normally in distributor's stock

CONTROLS (All wattage)

ITEM No.	FUNCTION	RES. AN.
VR1	AGC	30K
VR2	Volume/Power Switch	10K
VR3	Squelch	50K
VR4	Squelch Range	50K

(2) Cut off one of the end terminals

RESISTORS (Power and Spec)

ITEM No.	RATING	WORK. PART
TH	250 Cold NTC	

COILS (RF-IF)

ITEM No.	FUNCTION
L1	RF Choke
L2	RF Choke
L3	TVI Trap (54MHz)
L4	RF Choke
L5	Final Tank (27MHz)
L6	RF Choke
L8	Xmit Driver (27MHz)
L9	Xmit Buffer (27MHz)
L11	RF Choke
T1	Rec Ant (27MHz)
T2	Rec RF (27MHz)
T3	Rec Mixer (11MHz)
T4	IF (455kHz)
T5	IF (

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

SYLVANIA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
RT-218	ECG177	
RT-218	ECG177	
RT-218	ECG177	
RT-263	ECG109	
RT-263	ECG109	
RT-263	ECG109	
RT-218	ECG177	
RT-213	ECG116	
RT-213	ECG116	
RT-263	ECG109	
RT-240	ECG139	
RT-107A	ECG229	
RT-107A	ECG229	
RT-107A	ECG123A	
RT-107A	ECG123A	
RT-107A	ECG123A	
RT-105	ECG199	
RT-107A	ECG123A	
RT-105	ECG123A	
RT-107A	ECG123A	
RT-107A	ECG123A	
RT-107A	ECG199	
RT-172	ECG123A	
RT-197	ECG186A	
RT-197	ECG186A	
RT-107A	ECG123A	
RT-107A	ECG123A	
RT-105	ECG123A	
RT-107A	ECG123A	
RT-107A	ECG235	
RT-107A	ECG306	
RT-107A	ECG289	
RT-107A	ECG289	

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	33 10%		DTZ-33	NP033	CN0433	10TCC-Q33
C3	.01		DC-103	GP10000	MAG5011	2SS-S10
C4	.01		DC-103	GP10000	MAG5011	2SS-S10
C5	3		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C6	.01		DC-103	GP10000	MAG5011	2SS-S10
C7	.01		DC-103	GP10000	MAG5011	2SS-S10
C8	.01 10% 50V		DC-103	GP10000	MAG5011	2SS-S10
C9	150 10%		DTZ-150	DPMS4S1	EWFA1A110	1PB-S10
C10	.01		DC-103	GP10000	CN0315	10TCC-T15
C11	.01		DC-103	GP10000	MAG5011	2SS-S10
C12	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C13	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C14	.01 10% 50V			DPMS4S1	EWFA1A110	1PB-S10
C15	500 10% N1200	CZZY004501				
C16	.04					
C17	.039 10% 50V			DPMS6S39	GP140	5GA-S40
C18	.5pF NPO	CCCE815081			PVC6139	6PS-S39
C19	.04					
C20	.01 10% 50V			DPMS4S1	GP140	5GA-S40
C21	.04 10% 50V			DPMS6S39	EWFA1A110	1PB-S10
C22	.04				PVC6139	6PS-S39
C24	.01		DC-103	GP10000	GP140	5GA-S40
C26	.002		DD-182	GP1800	MAG5011	2SS-S10
C29	.01		DC-103	GP10000	GP218	2SS-D18
C32	100 10%		DTZ-100	NP0100	MAG5011	2SS-S10
C33	5				CN0310	10TCC-T10
C34	.01		DC-103	GP10000		10TCC-V50
C35	.01		DC-103	GP10000	MAG5011	2SS-S10
C36	100 10%		DTZ-100	NP0100	MAG5011	2SS-S10
C37	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C38	.01		DC-103	GP10000	MAG5011	2SS-S10
C39	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C40	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C41	15 10%		DTZ-15	NP015	CN0415	10TCC-Q15
C42	25 10%		DTZ-25	NP025	CN0425	10TCC-Q25
C43	220 10%		DD-221		GP322	10TS-T22
C44	10 10%		DTZ-10	NP010	CN0410	10TCC-Q10
C45	470 10%		DD-471	GP470	GP347	10TS-T47
C46	.01		DC-103	GP10000	MAG5011	2SS-S10
C48	.005		DC-502	GP5000	TA250	2SS-D50
C51	.002		DD-202	GP2000	GP220	2SS-D20
C54	.01		DC-103	GP10000	MAG5011	2SS-S10
C55	.01		DC-103	GP10000	MAG5011	2SS-S10
C56	.033 10% 50V			DPMS6S33	EWFA1A110	6PS-S33
C57	.033 10% 50V			DPMS6S33	EWFA1A110	6PS-S33
C58	470 10%		DD-471	GP470	GP347	10TS-T47
C59	7		DTZ-6R8	NP06P8	CN0568	10TCC-V68
C60	220 10%		DD-221		GP322	10TS-T22
C61	.01		DC-103	GP10000	MAG5011	2SS-S10
C62	470 10%		DD-471	GP470	GP347	10TS-T47
C63	220 10%		DD-221		GP322	10TS-T22
C64	.01		DC-103	GP10000	MAG5011	2SS-S10
C65	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C66	.01		DC-103	GP10000	MAG5011	2SS-S10
C67	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C68	150 10%		DTZ-150	NP0150	CN0315	10TCC-T15
C69	.01		DC-103	GP10000	MAG5011	2SS-S10
C70	3		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C71	5					10TCC-V50
C72	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C75	.01		DC-103	GP10000	MAG5011	2SS-S10
C76	.1 10% 50V			DPMS2P1	EWFA1A010	1PB-P10
C78	.01		DC-103	GP10000	MAG5011	2SS-S10
C79	.0047 10% 50V			DPMS6D47	EWFA1A247	1PB-D47
C81	.1 10% 50V			DPMS2P1	EWFA1A010	1PB-P10
C82	.01		DC-103	GP10000	MAG5011	2SS-S10
C83	.01		DC-103	GP10000	MAG5011	2SS-S10
C84	.005		DC-502	GP5000	TA250	2SS-D50
C85	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C86	.04				GP140	5GA-S40
C87	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C88	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C89	.04				GP140	5GA-S40
C90	4		DTZ-4R7	NP04P7	CN0537	10TCC-V47
C91	220 10%		DD-221		GP322	10TS-T22
C93	.04				GP140	5GA-S40
C94	.01		DC-103	GP10000	MAG5011	2SS-S10
C95	22 10%		DTZ-22	NP022	CN0422	10TCC-Q22
C96	.01		DC-103	GP10000	MAG5011	2SS-S10
C97	.04				GP140	5GA-S40
C98	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C99	300 10%		DD-301	GP300	GP330	10TS-T30
C100	.04				GP140	5GA-S40
C101	.04				GP140	5GA-S40

SYLVANIA PART No.	SPRAGUE PART No.
EV-1222	
EV-1222	
EV-1222	
EV-1310	
EV-1315	
EV-1315	
EV-1222	
EV-1315	
EV-1130	
EV-1222	
EV-1130	
EV-1230	
EV-1615	
EV-1222	
EV-1226	
EV-1222	
EV-1315	
TVA-1500.2	
EV-1250	
EV-1222	

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.
C102	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C103	.04				GP140	5GA-S40
C104	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C105	150 10%		DTZ-150		CN0315	10TCC-T15
C106	.04				GP140	5GA-S40
C107	.01		DC-103	GP10000	MAG5011	2SS-S10
C108	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C111	.04				GP140	5GA-S40
C112	.04				GP140	5GA-S40
C113	.01		DC-103	GP10000	MAG5011	2SS-S10
C118	100 10%		DTZ-100	NP0100	CN0310	10TCC-T10
C121	47 10%		DTZ-47	NP047	CN0447	10TCC-Q47
C122	.01					

*Not normally in distributor's stock. Available thru distributor on order to manufacturer.

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.
VR1	AGC	30K	RVTY103303	T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR2	Volume/Power Switch	10K	RVVY027001				
VR3	Squelch	50K	RVVY071001				
VR4	Squelch Range	50K	RVTY103503	T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)

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

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
TH	250 Cold NTC		DIFFY002001				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke	LDDY018001			
L2	RF Choke	LZZY005229			
L3	TVI Trap (54MHz)	LCCY018001			
L4	RF Choke	LEEY006001			
L5	Final Tank (27MHz)	LCCY020001			
L6	RF Choke	LDDY012001			
L8	Xmit Driver (27MHz)	LCCY017001			
L9	Xmit Buffer (27MHz)	LCCY020001			
L11	RF Choke	LDDY027001			
T1	Rec Ant (27MHz)	LAAY029001			
T2	Rec RF (27MHz)	LAAY041001			
T3	Rec Mixer (11MHz)	LAAY043001			
T4	IF (455kHz)	LAAY073001			
T5	IF (455kHz)	LAAY106001			
T6	IF (455kHz)	LAAY107001			
T7	Synth Osc (23MHz)	LAAY046001			
T8	Synth Mixer (38MHz)	LAAY047001			
T9	Synth Mixer (38MHz)	LAAY047001			
T10	Synth Mixer (38MHz)	LAAY042001			
T13	Xmit Mixer (27MHz)	LAAY009001			
T14	Harmonic Suppressor (27MHz)	LAAY009001			
T15	Harmonic Suppressor (27MHz)	LAAY008001			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.	
L10	1.0A	.2	1.1mH	TFFY017001 TF-083 (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.	
T11	1	1		TFFY011001 TF-069 (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.	
T12	32	8	TFFY080001 TF-082 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM 8 ohms	ASPY022001	30A05Z8	

REGENCY MODEL CR-202

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	1 Amp Fast Acting 1.5 Amp Fast Acting (1)	FS-001		AGC1 AGC 1 1/2	HDJ HDJ	312001 31201.5	150145 150145	FG1-2 FG1 1/2-2

(1) Alternate

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	11.275	QXXY014001	MC150M11.275	Xmit Osc.	X7	23.290	QXXY016001	MA14M23.290	1,2,3,4
X2	11.730	QXXY014002	MC150M11.730	Rec Osc.	X8	23.340	QXXY016002	MA14M23.340	5,6,7,8
X3	14.950	QXXY015001	MB150M14.950	1,5,9,13,17,21	X9	23.390	QXXY016003	MA14M23.390	9,10,11,12
X4	14.960	QXXY015002	MB150M14.960	2,6,10,14,18,22	X10	23.440	QXXY016004	MA14M23.440	13,14,15,16
X5	14.970	QXXY015003	MB150M14.970	3,7,11,15,19	X11	23.490	QXXY016005	MA14M23.490	17,18,19,20
X6	14.990	QXXY015004	MB150M14.990	4,8,12,16,20,23	X12	23.540	QXXY016006	MA14M23.540	21,22,23

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	FLCY009001	455kHz
S2	Switch	SRRY078001	Channel Selector
SK	Sockets	JSKY010001	Crystal
	Printed Circuit Board	PCCY055011	Main
	Microphone	AMKY025001	

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Upper	MTBP302929	Knob - Channel Selector	MDMP402932
Cabinet, Bottom	MTBP302930	(Channel Disc)	MDMP402939
Chassis	MTBP302911	Knob - Control	MDMP402933
Panel, Front	MDMP302931	Mounting Bracket	MTBP402915
Plate, Front	MTNP402935	Microphone Hanger	MTBP402919

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	17105 (Plastic) or 17126 (Rubber) -6 feet
	17109 (Plastic) or 17129 (Rubber) -9 feet
	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