



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES AND REGULATIONS PART 95, SUBPARTS 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 Sidetalk CB-1023B

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

All Transformers	GC ELECTRONICS
All Coils	#9440
CV1 thru CV1	#9440
	#8290, #5000

PAGE MODEL SIDETALK CB-1023B

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Frequency Counter		CV11	7.8025MHz	Connect Counter to TP2 Set Mode Switch to LSB Set Clarifier to Midrange
	1	CV1	11.700MHz	Connect Counter to Q13 Source (Junction of C115 & R113)
	1	CV7	19.1625MHz	Connect Counter to TP3
	2	CF8	19.1725MHz	
	3	CV9	19.1825MHz	
	4	CV10	19.2025MHz	
	8	CV2	19.2525MHz	
	12	CV3	19.3025MHz	
	16	CV4	19.3525MHz	
	20	CV5	19.4025MHz	
	23	CF6	19.4525MHz	

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

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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 .01 uF to Base of Q6, low side to ground.	7.8MHz, 1000Hz @ 30% Modulation, output to deflect "S" meter.	Any	T6	Set Mode Swith To AM. Adjust for maximum.
High side thru .01 uF to Base of Q5, low side to ground.	7.8MHz, 1000Mz @ 30% modulation, output to deflect "S" meter.	Any	T5	Adjust for maximum.
High side thru .01 uF to G1 of Q2, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output to deflect "S" meter	13	T3	Adjust for maximum.
High side thru .01 uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output to deflect "S" meter.	13	T1,T2	Adjust for maximum.
High side thru .01 uF to Antenna Jack, low side to ground.	27.1165MHz, output 1 uV	13	T7	Set Mode switch to USB. 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
AGC High side thru .01 uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 50,000 uV.	13	VR4	Set mode switch to LSB. Adjust volume control to obtain 0 db. Decrease generator to 50 uV. Adjust so that signal does not drop more than 6 db.
SQUELCH RANGE High side thru .01 uF to Antenna Jack, low side to ground.	27.115MHz, 1000hz @ 30% modulation, output 500 uV.	13	VR5	Set squelch control fully clockwise. Adjust so that squelch just breaks.
"S" METER High side thru .01 uF to Antenna Jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 50,000 uV.	13	VR9	Set mode switch to LSB. Adjust for "S9" or panel meter.

TRANSMITTER

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

AM

INDICATOR	ADJUST	REMARKS
TVI TRAP TV (Ch. 2)	CV13	Mode switch to AM. Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Connect 0-2A DC milliammeter between L4 and Source.	L5	Adjust for 5-watts (maximum).

TRANSMITTER ADJUSTMENTS

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

INDICATOR	ADJUST	REMARKS
ALC RF Wattmeter Oscilloscope connected to Antenna Jack	VR3	Set mode switch to LSB. Inject a 1000Hz signal at mic input. Key transmitter. Set output to produce 10 watts RF output. Adjust for 8 watts.
AMC Modulation Meter connected to Antenna Jack.	VR7	Set Mode switch to AM. Inject a 1000Hz audio signal at mic input. Key transmitter. Set output to produce 50% modulation. Increase 20 db and adjust for 100% modulation maximum.
RF PANEL METER RF Wattmeter	VR2	Set mode switch to AM. Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.

PAGE MODEL SIDETALK CB-1023B

TRANSMITTER

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

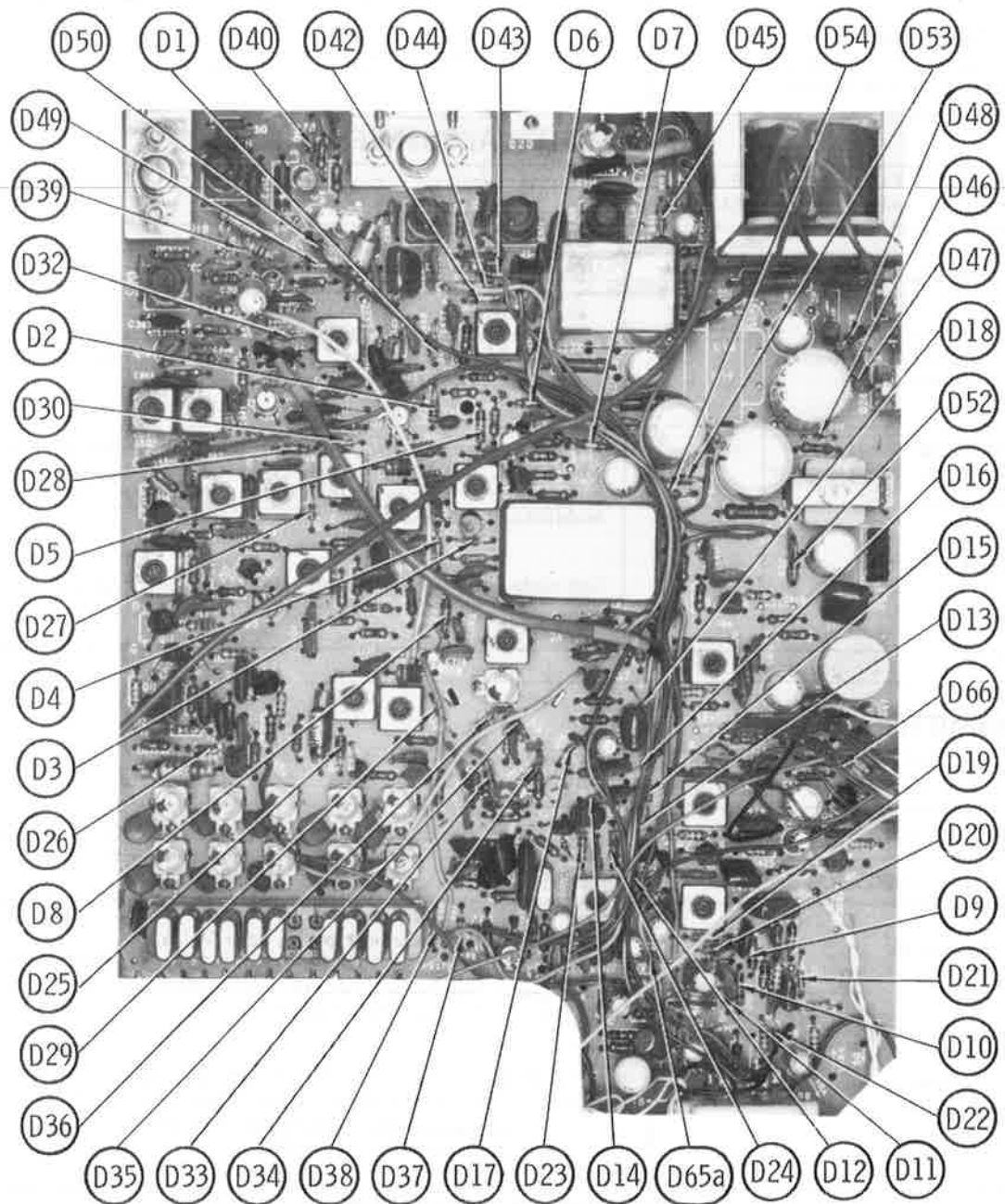
SSB

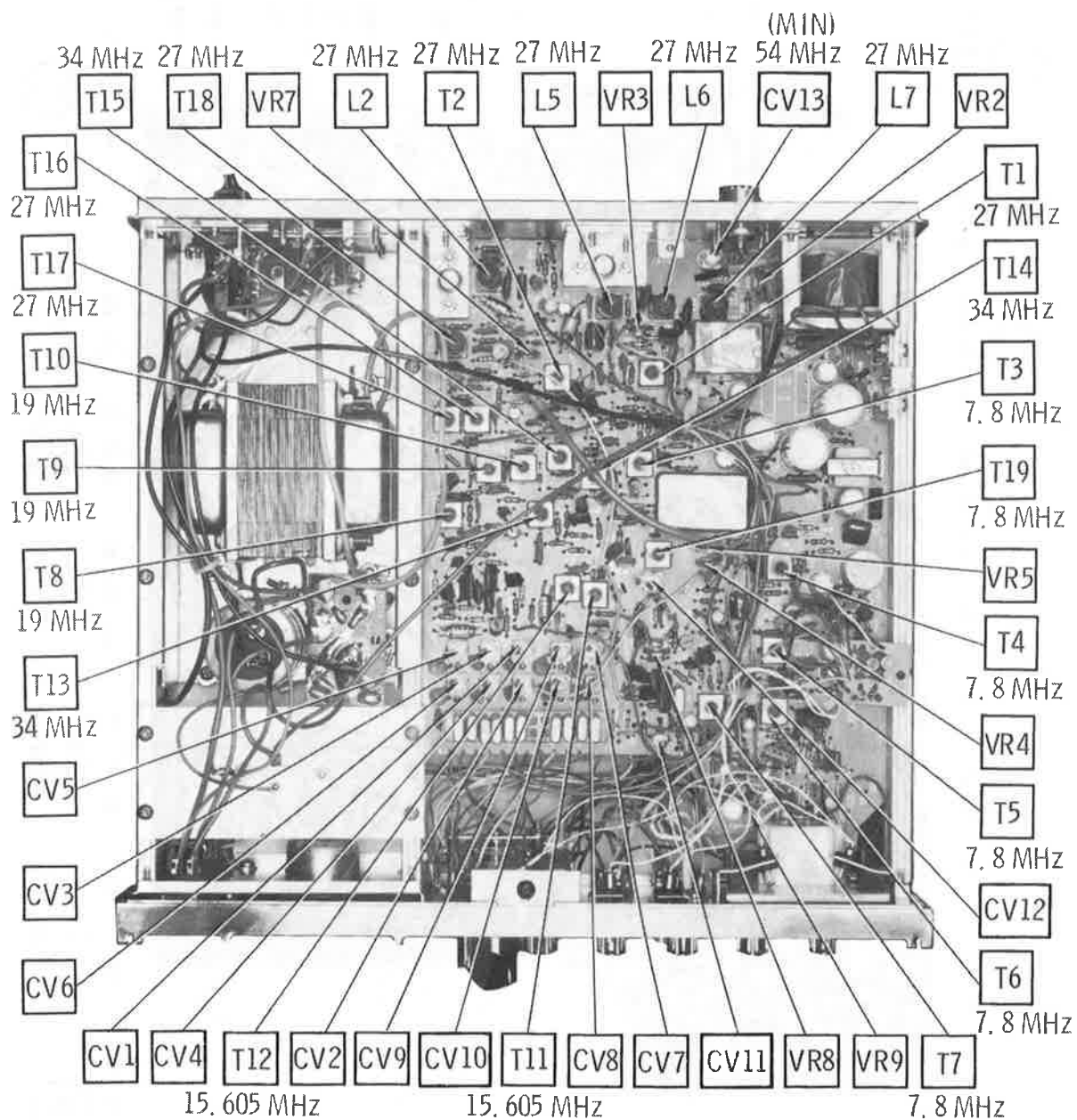
INDICATOR	ADJUST	REMARKS
LSB RF Wattmeter	T4,T8,T9, T10,T16,T17, T18,T19,L2 L5,L6,L7	Set mode switch to LSB Ch. 13. Inject a 1000Hz audio signal to microphone input, set output for 6 watts RF output. Adjust for maximum.
USB RF Wattmeter	T11,T12,T13 T14,T15	Set mode switch to USB. Ch. 13. Inject a 100Hz audio signal to microphone input, set output for 6-watts RF output. Adjust for maximum.

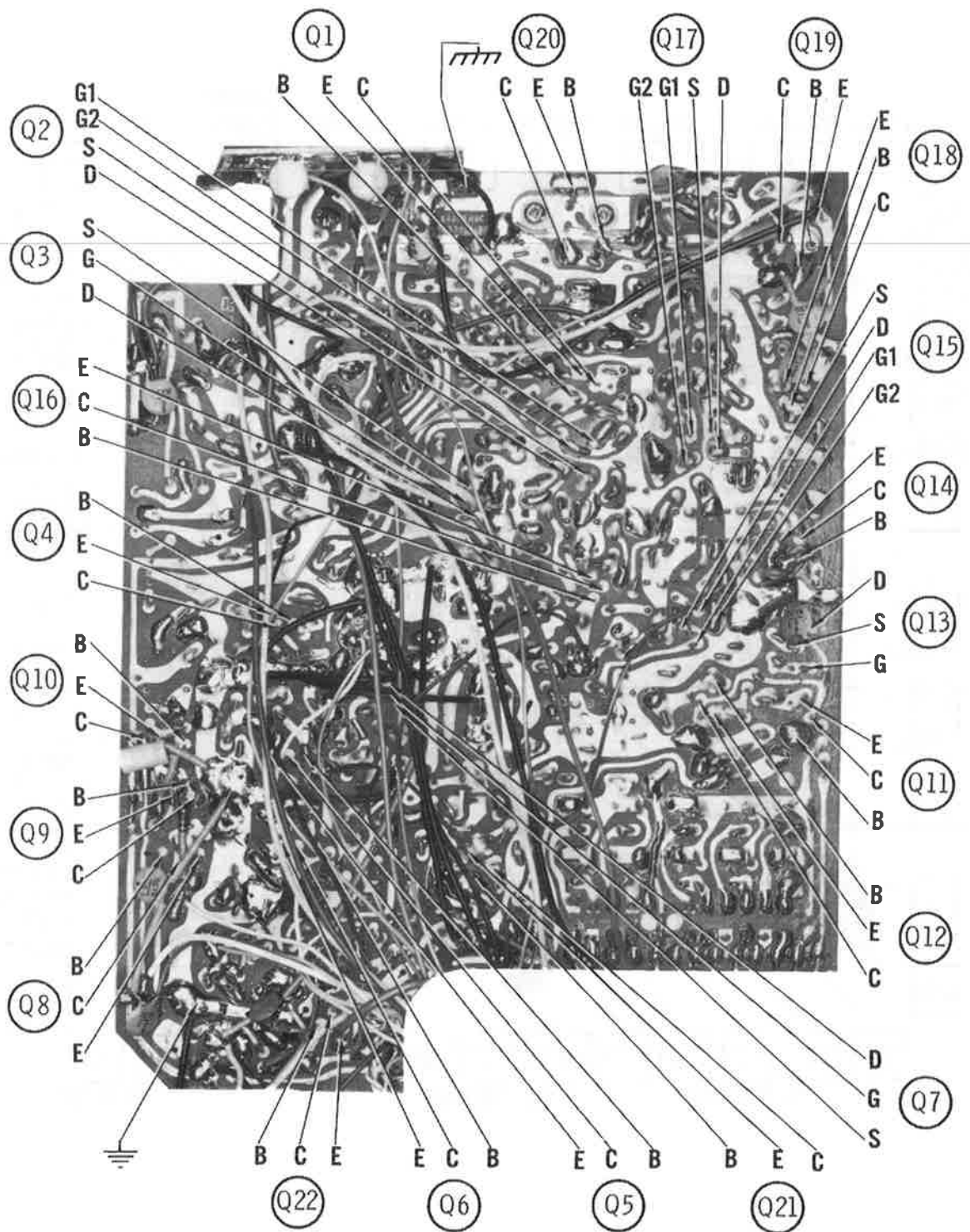
TRANSMITTER ADJUSTMENTS

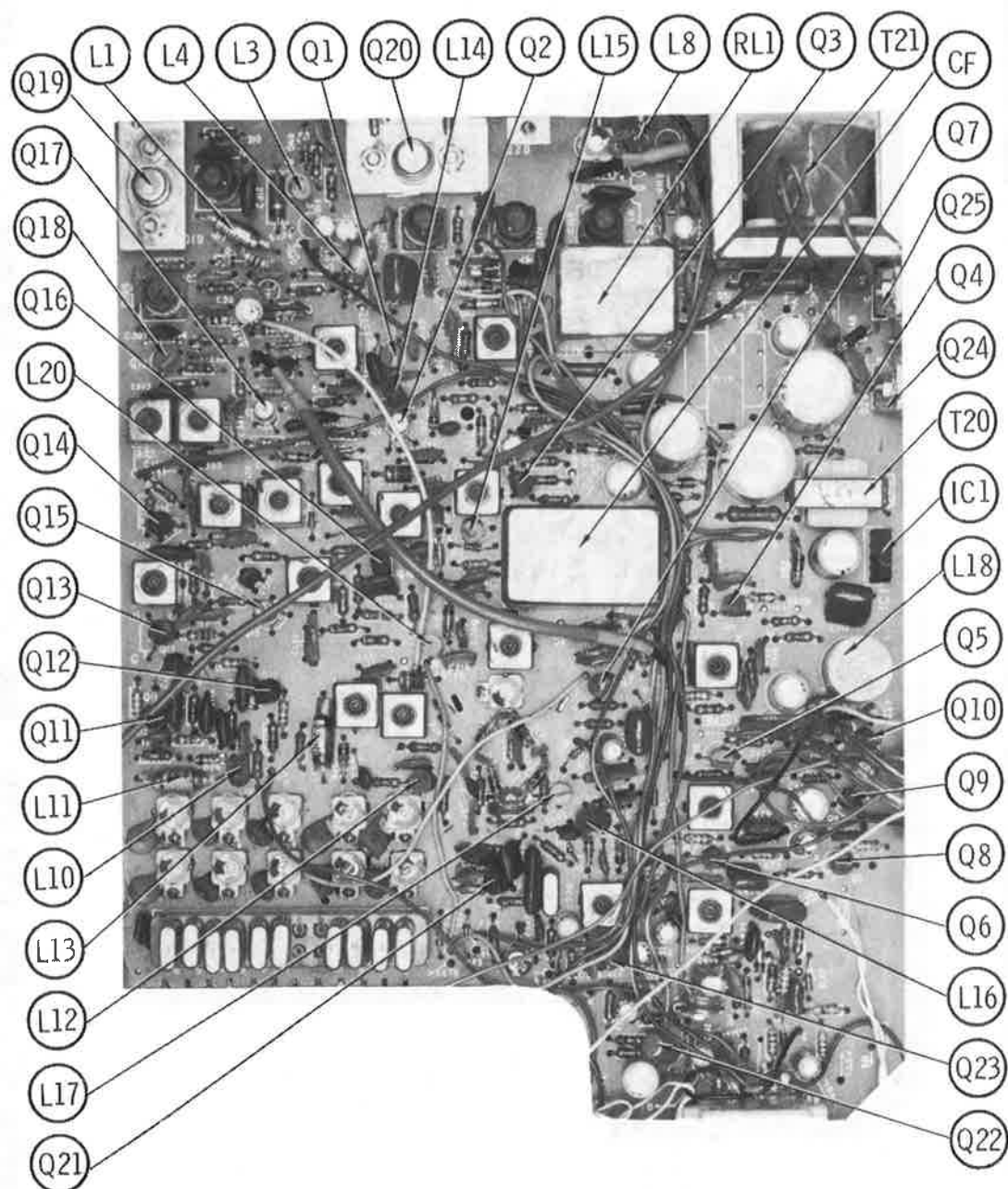
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

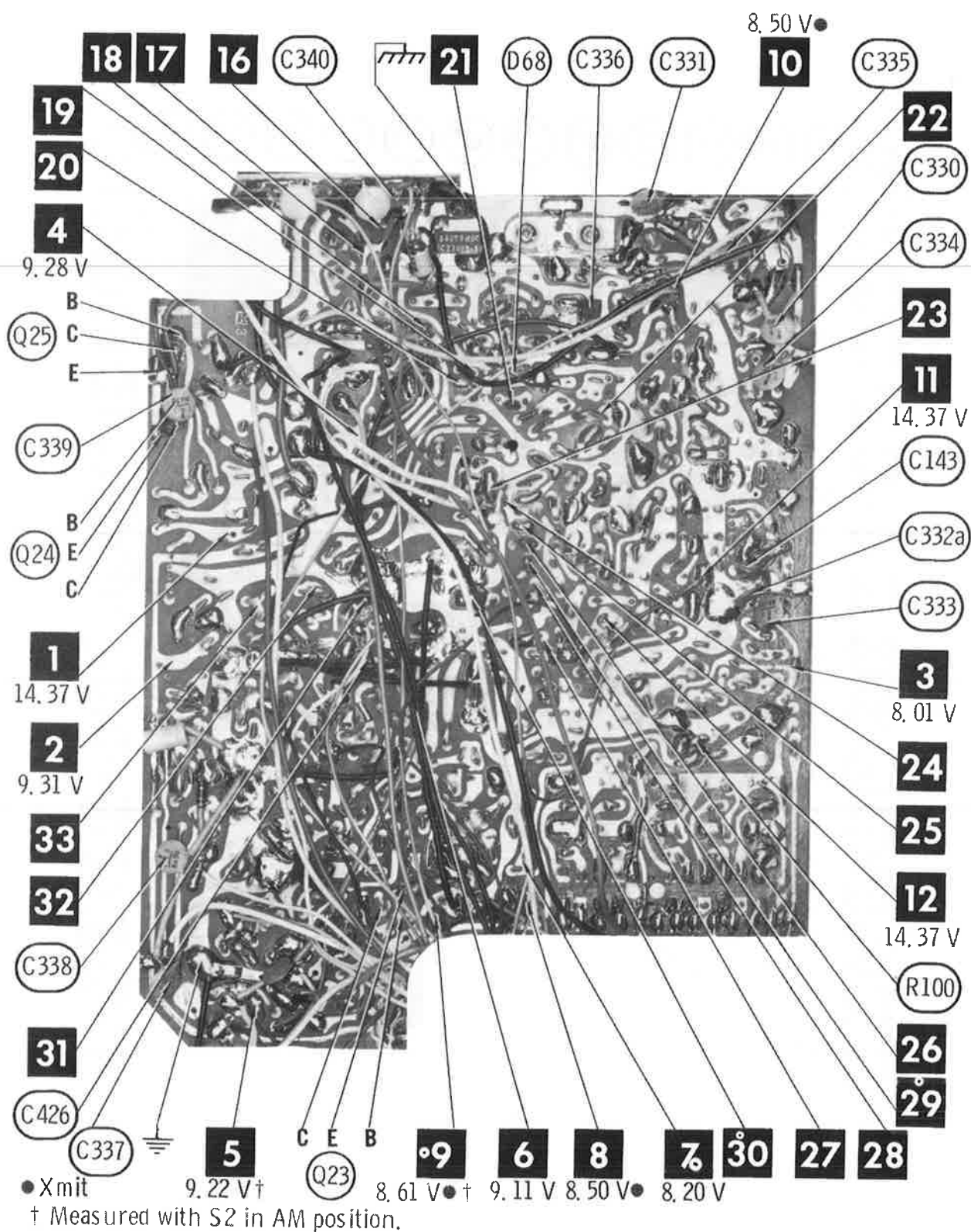
INDICATOR	ADJUST	REMARKS
CARRIER BALANCE Connect oscilloscope from antenna jack to ground.	CV12 VR8	Short mic input. Set mode switch to LSB or USB. Key transmitter and adjust for MINIMUM on scope.

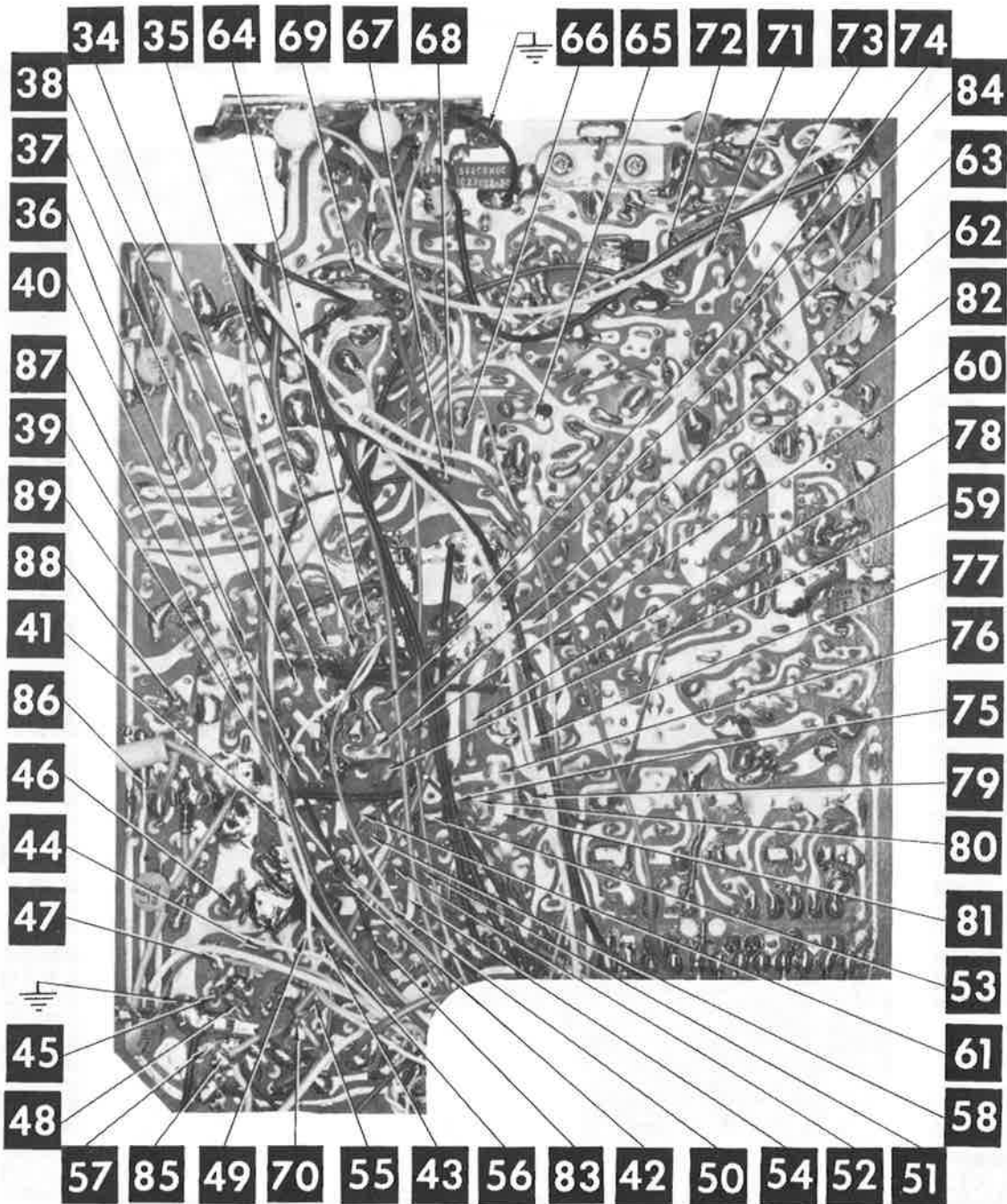


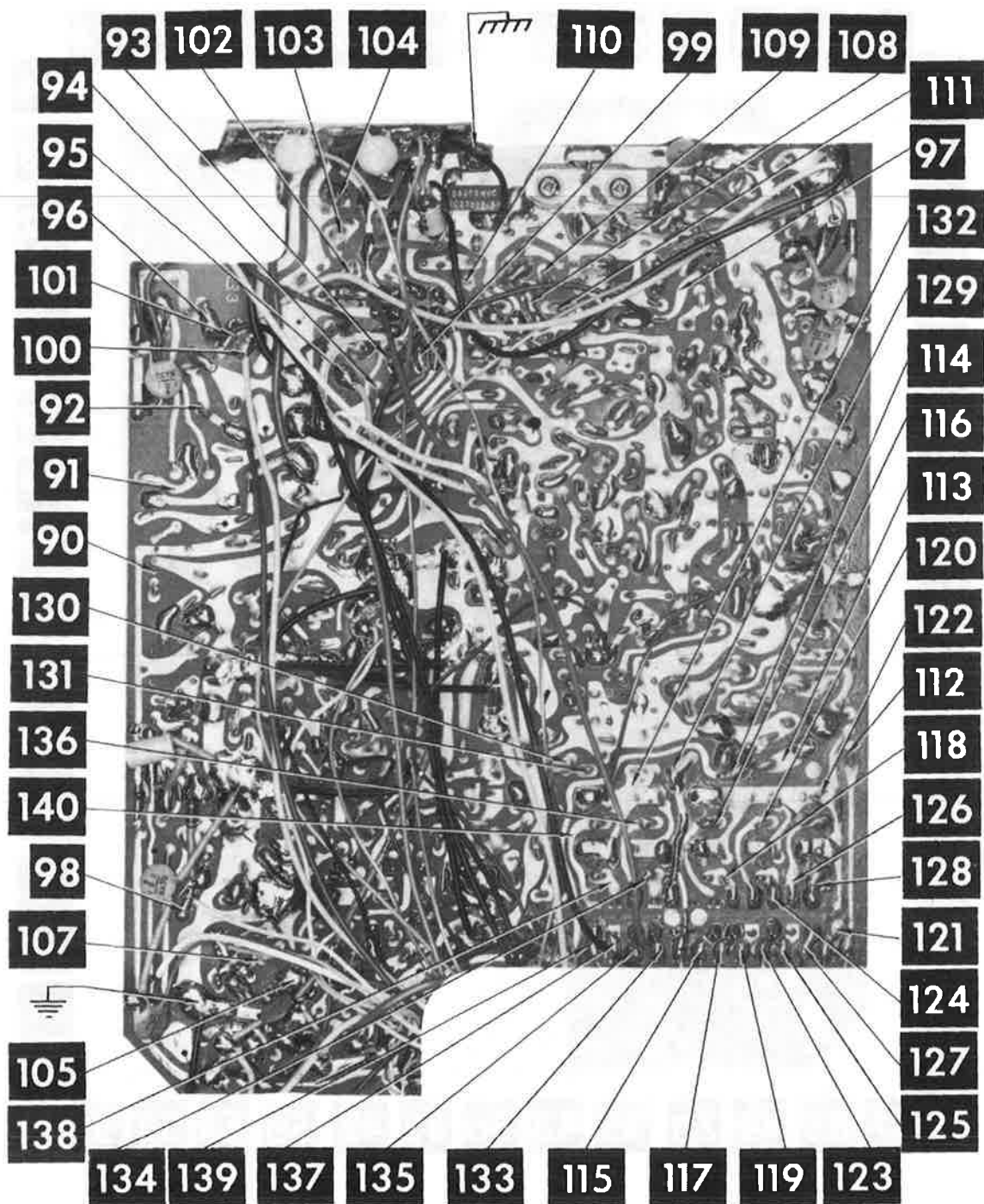


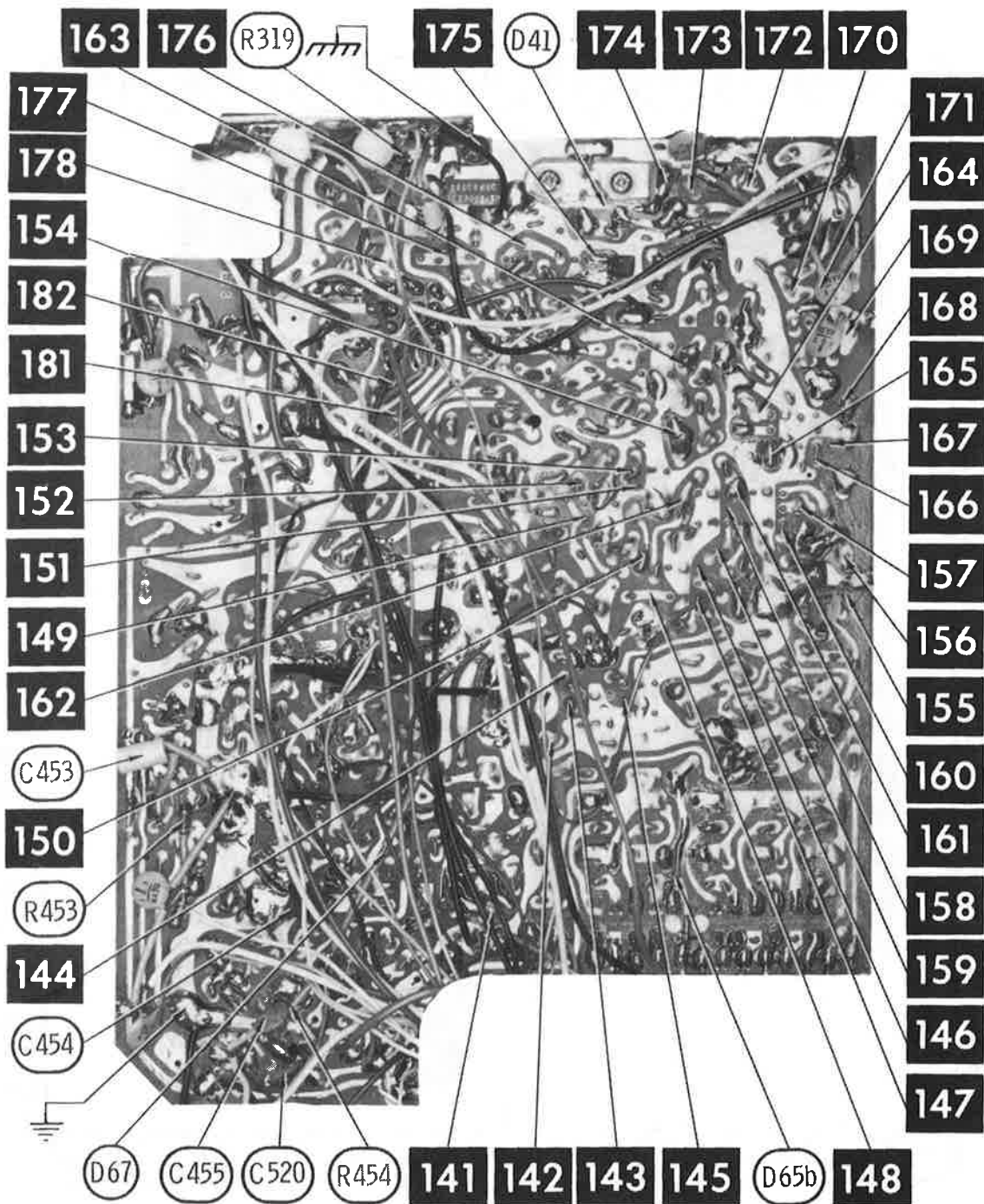


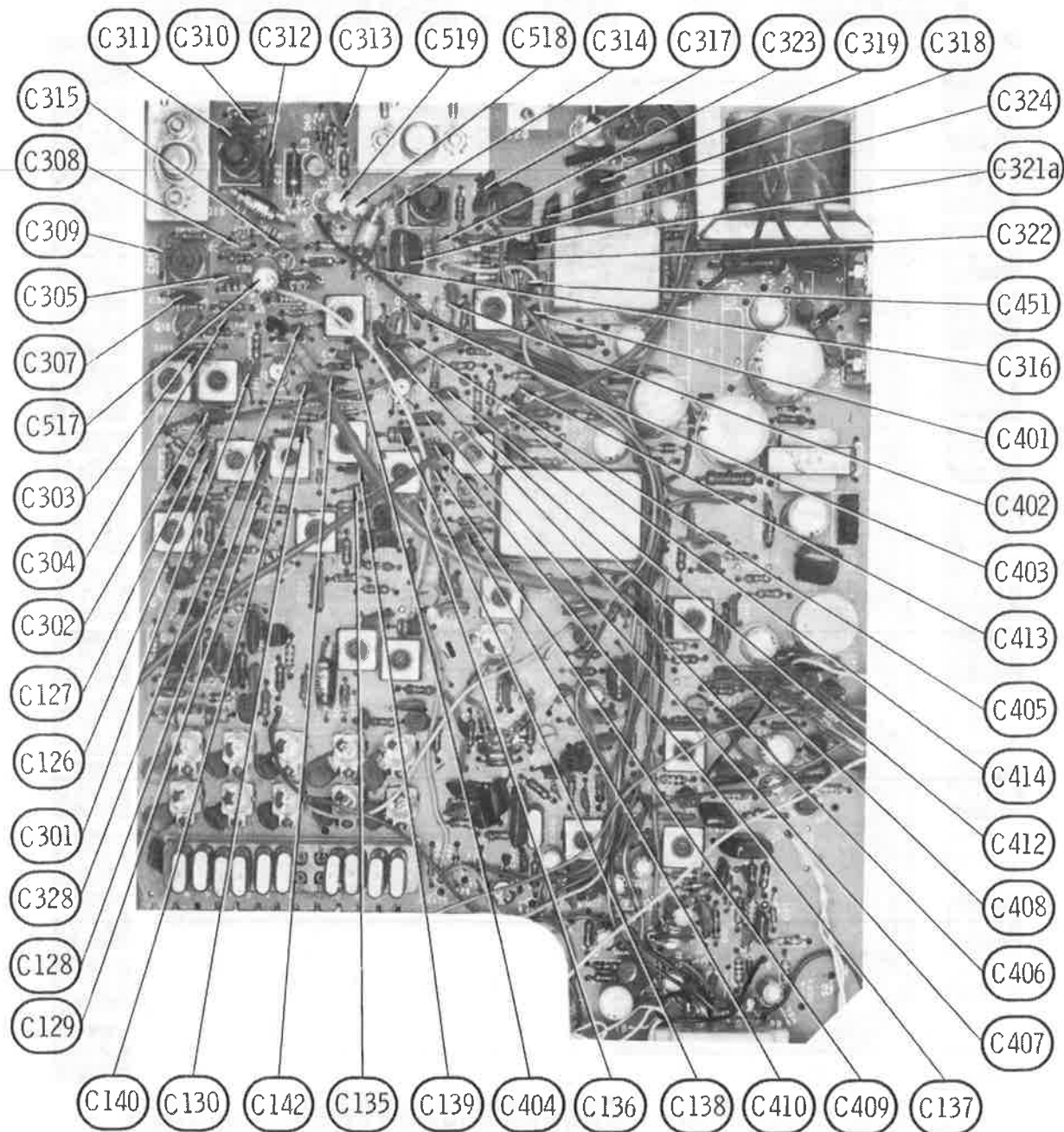


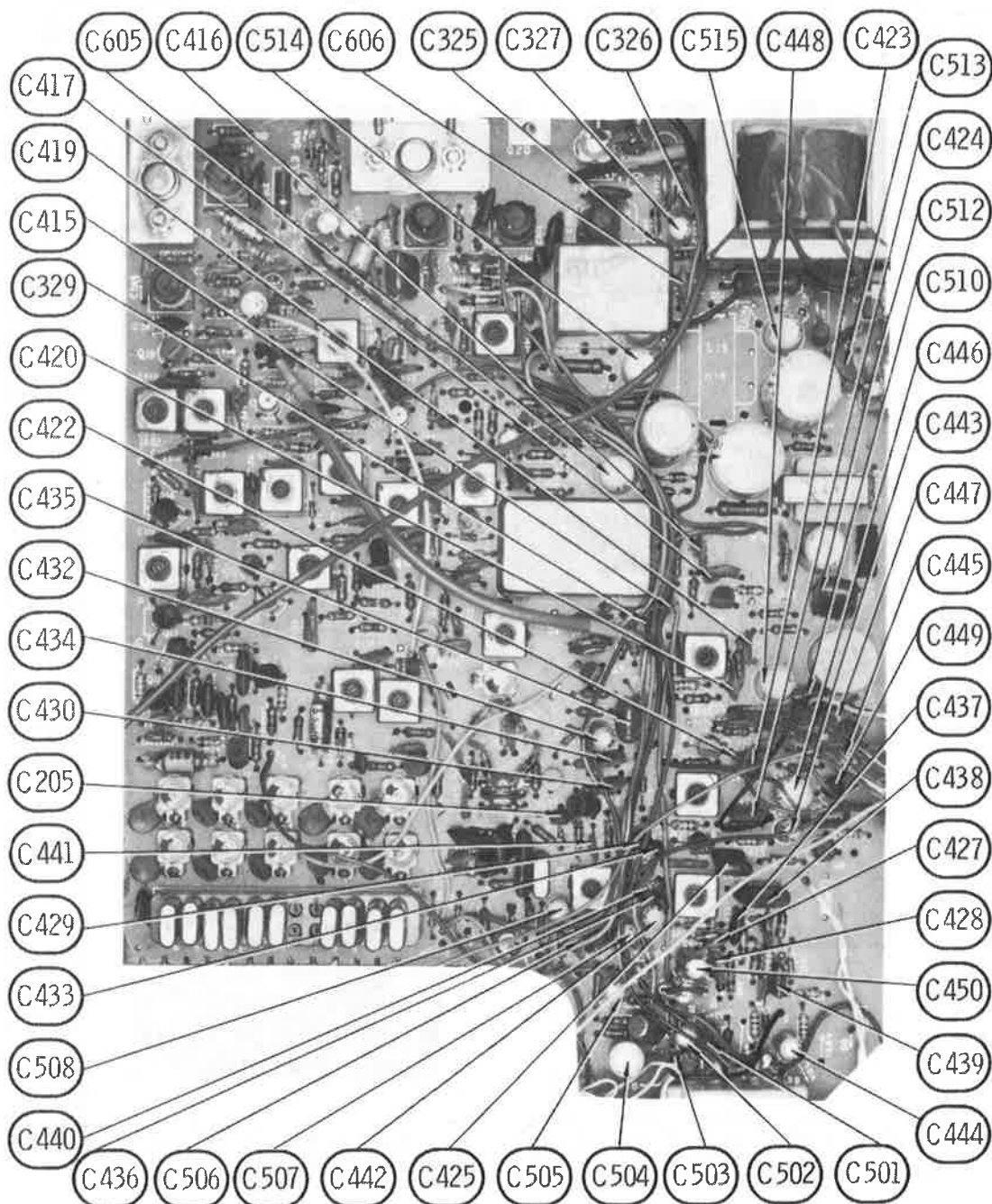


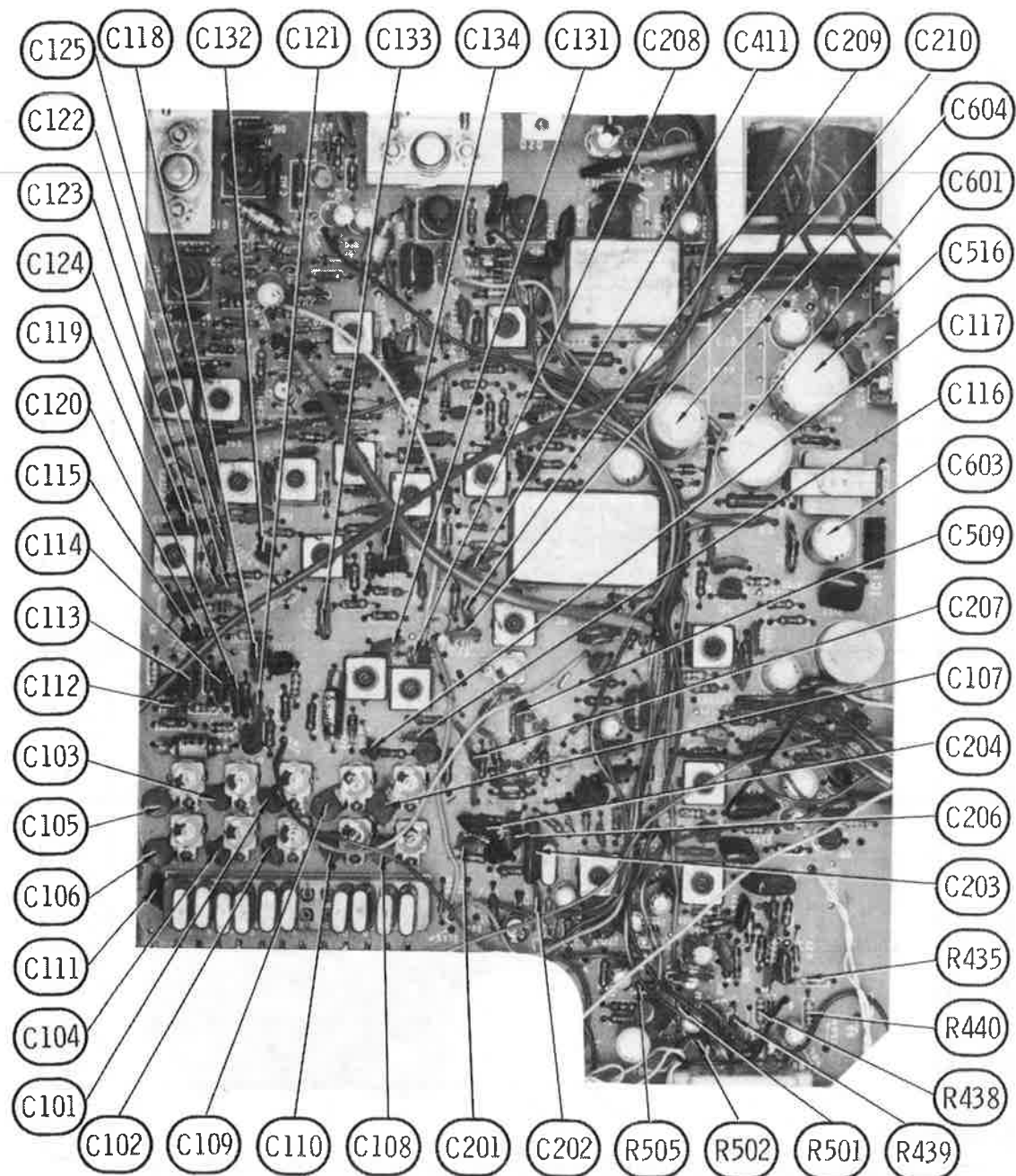


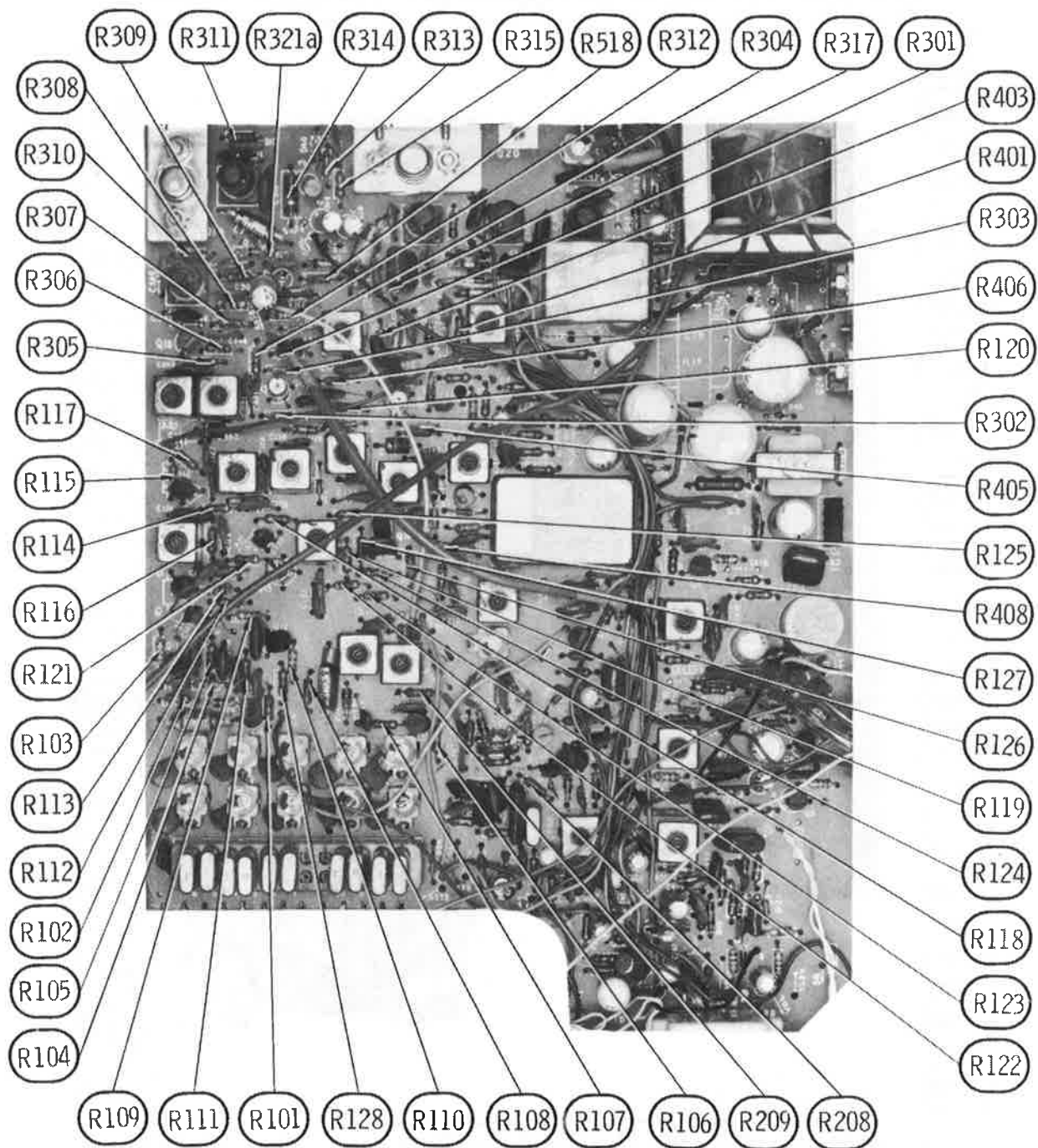




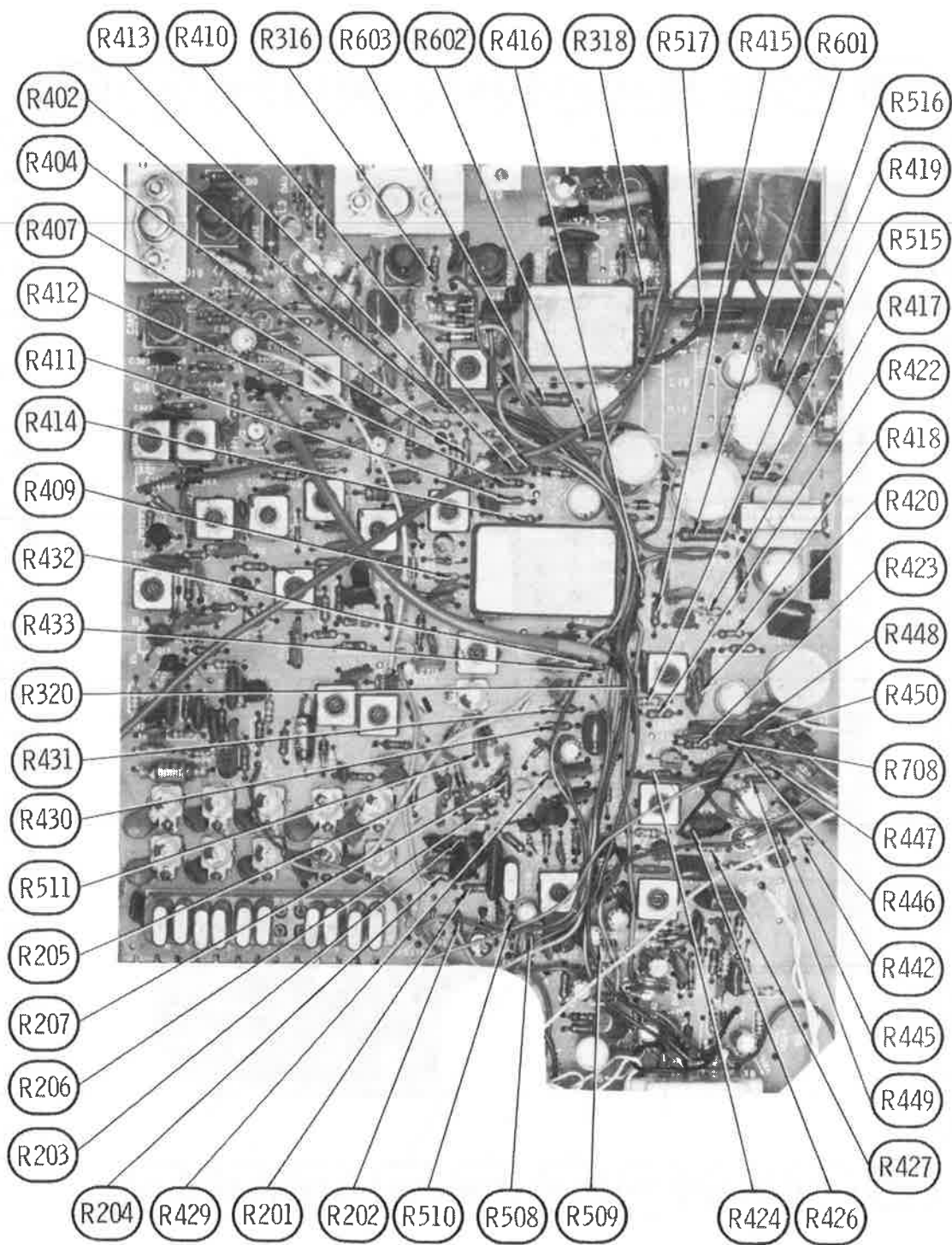


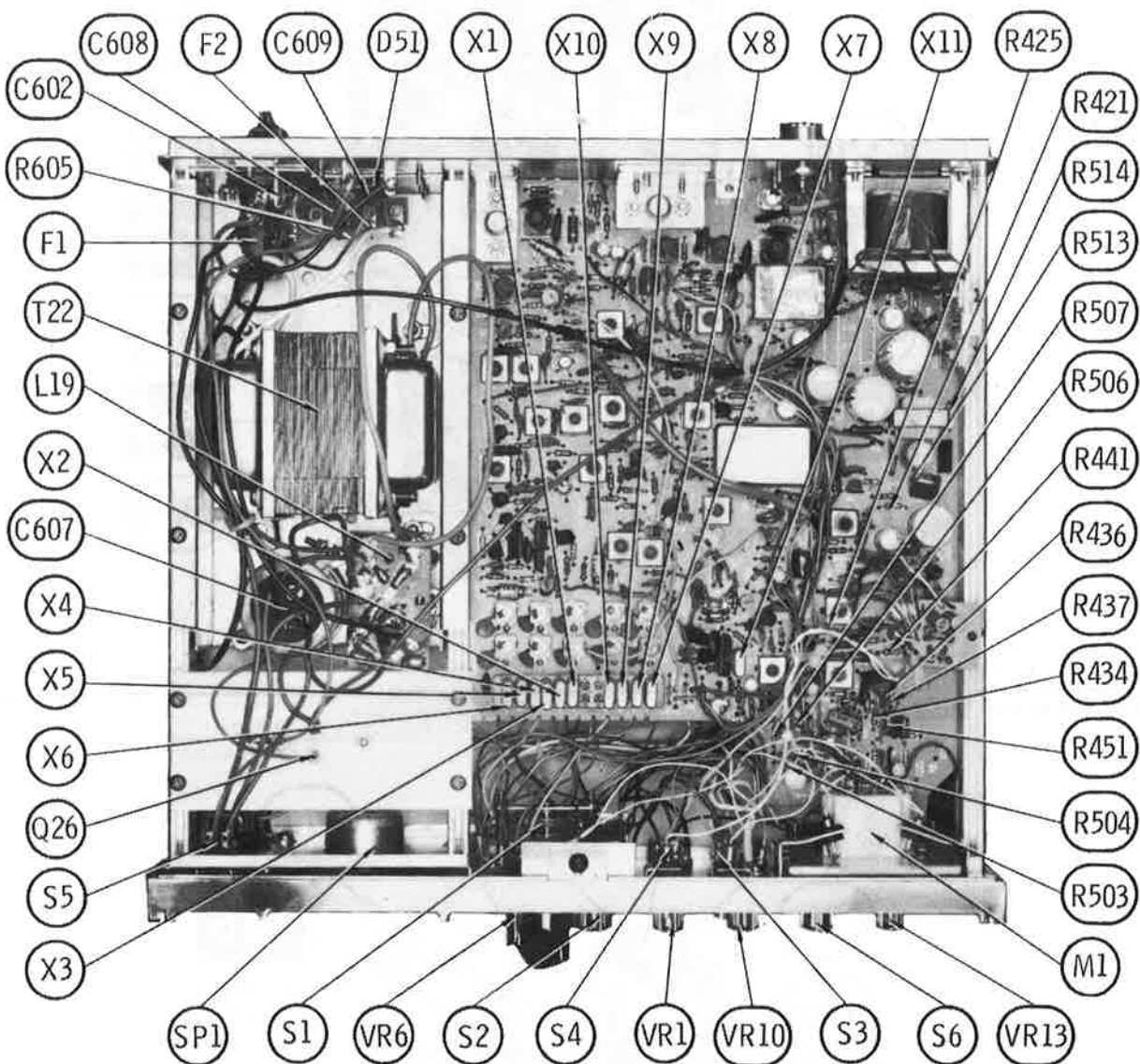




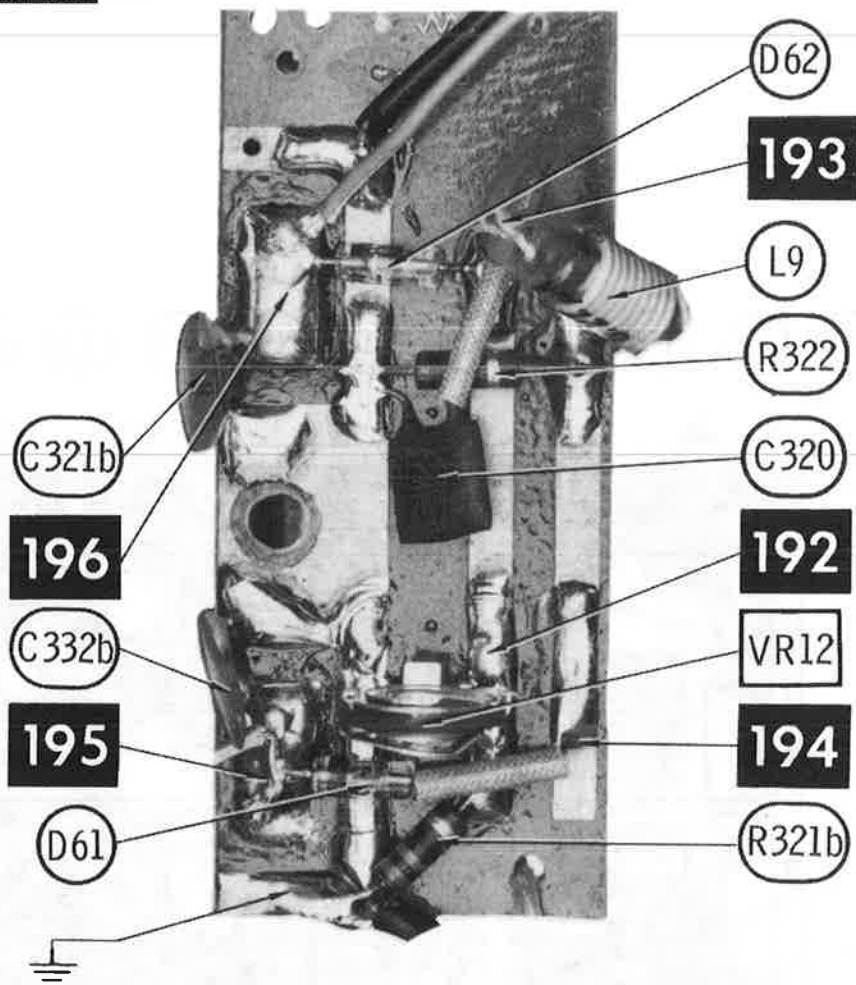


PAGE MODEL SIDETALK CB-1023B

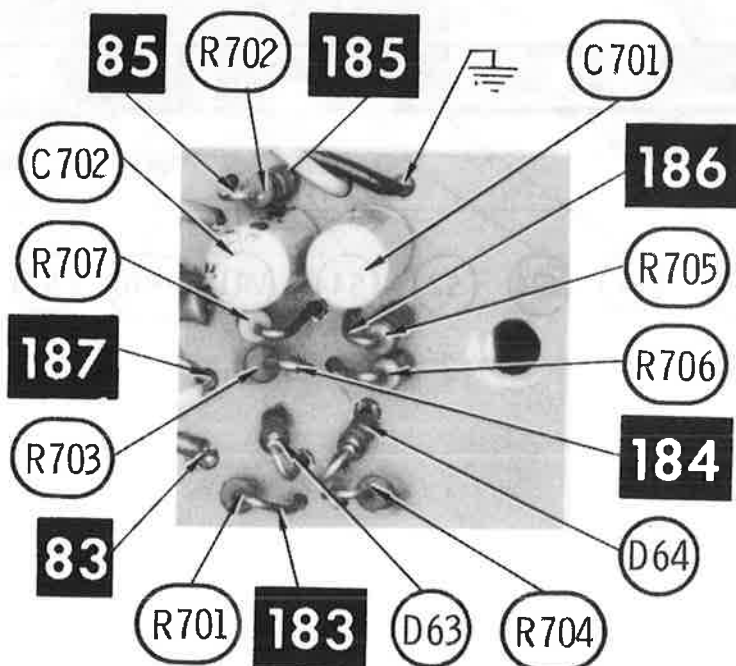




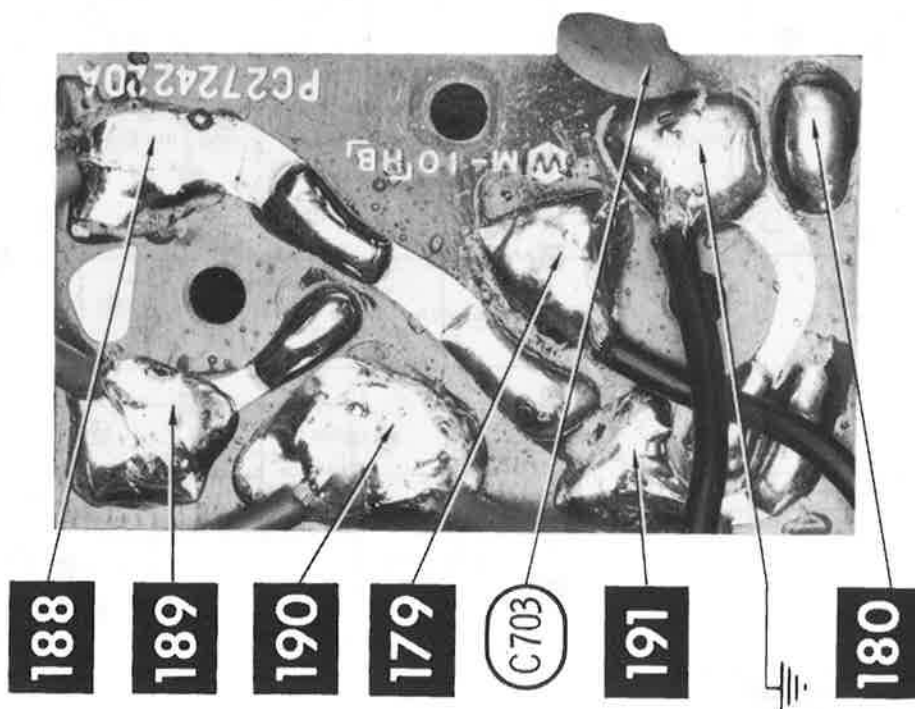
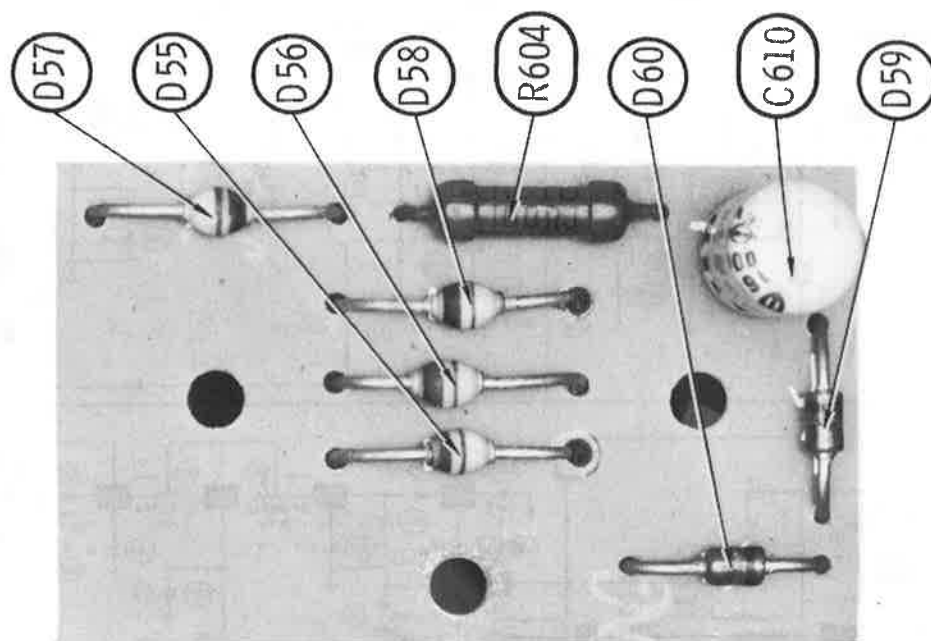
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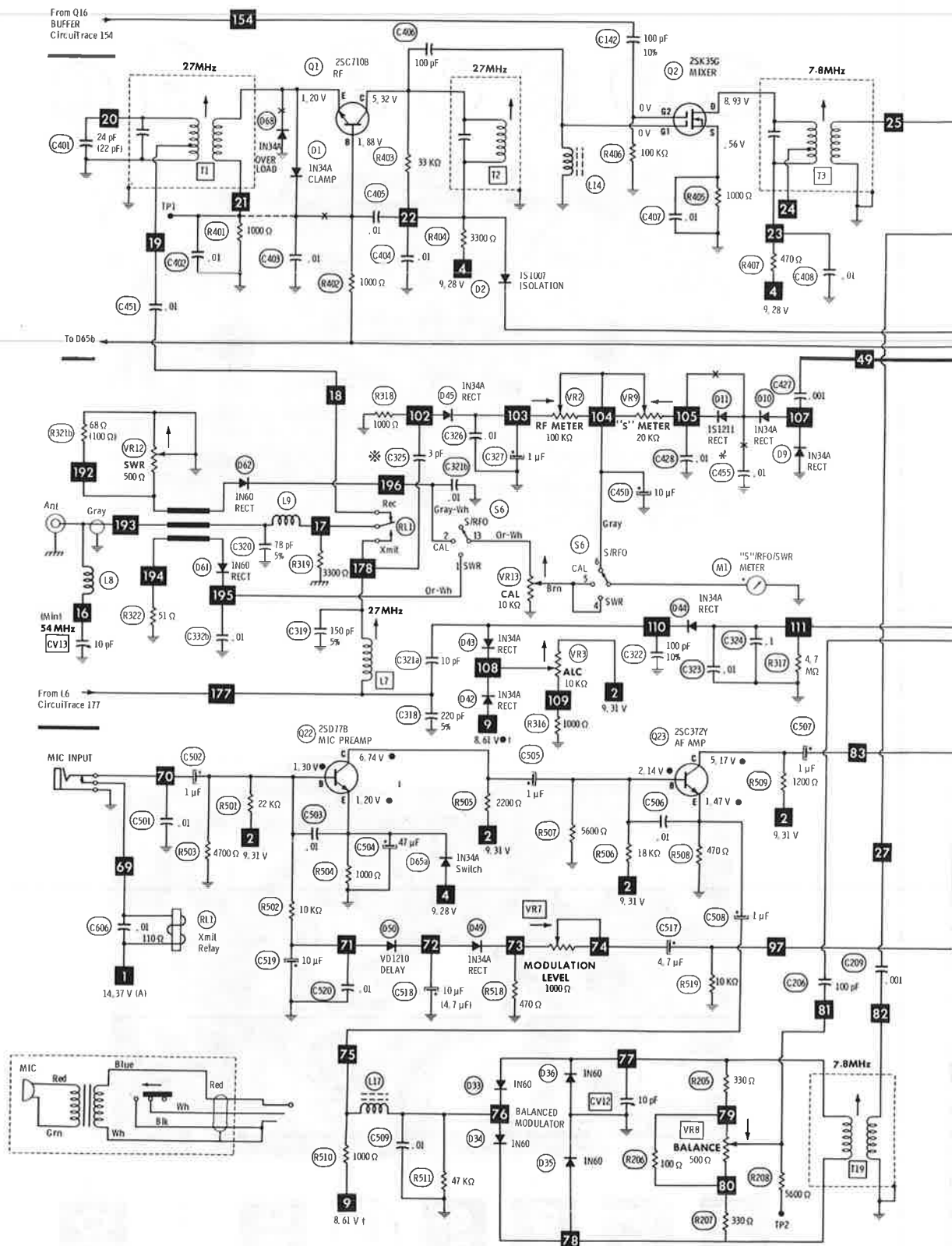


ANTENNA & SWR BOARD



AF AMP BOARD

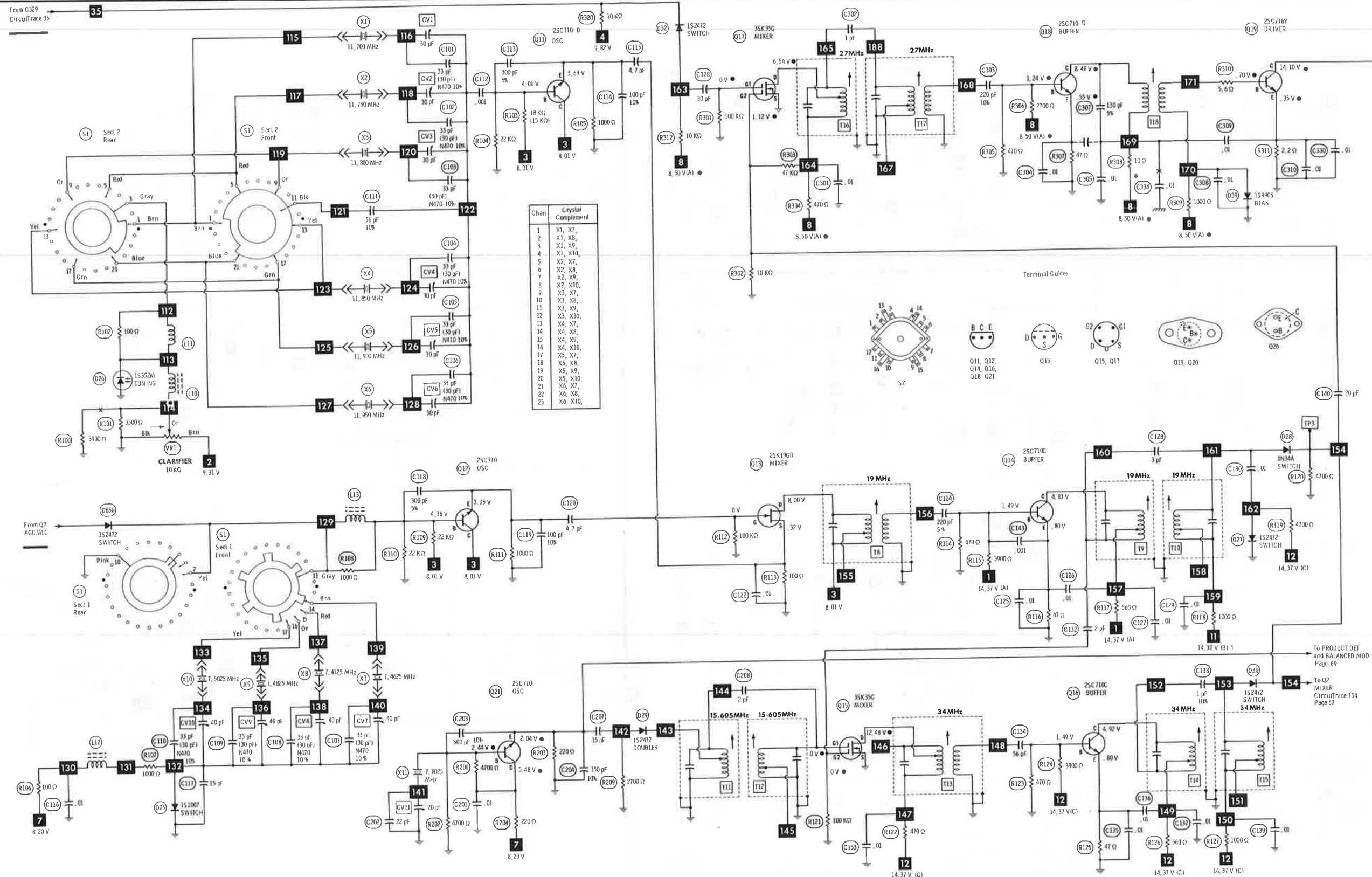




A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CIRCUITRACE**
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PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D2	1S1007/IP20-0020	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D3	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D4	1N60P/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D5	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D6	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D7	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D8	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D9	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D10	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D11	1S1211/IP20-0023	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D12	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D13	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D14	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D15	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D16	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D17	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D18	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D19	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D20	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D21	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D22	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D23	1N60/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D24	1N60/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D25	1S1007/IP20-0020	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D26	1S352M (8)/ IP20-0017	GE-90 (8)	D201 (8)		HEPR2503(8)	SK3126 (8)	RT262 (8)	
D27	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D28	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D29	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D30	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D32	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D33	1N60/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D34	1N60/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D35	1N60/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D36	1N60/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D37	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D38	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D39	1S990S/IP20-0018	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D40	1S1007/IP20-0020	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D41	1S990S/IP20-0018	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D42	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D43	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D44	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D45	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D46	1S1211/IP20-0023	GE-504A	8D4	PTC201	HEPR0052	SK3030	RT213	ECG 116
D47	10D4/IP20-0022	GE-504A	8D4	PTC201	HEPR0052	SK3030	RT213	ECG 116
D48	10D4/IP20-0022	GE-504A	8D4	PTC201	HEPR0052	SK3030	RT213	ECG 116
D49	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D50	VD1210/IP20-0024	GE-504A	8D4	PTC201	HEPR0052	SK3030	RT213	ECG 116
D51	10D4/IP20-0022	GE-504A	8D4	PTC201	HEPR0052	SK3030	RT213	ECG 116
D52	BZ090/IP20-0019	GEZD-9.1	Z-1210	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D53	9V Zener BZ090/IP20-0019	GEZD-9.1	Z-1210	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D54	9V Zener BZ090/IP20-0019	GEZD-9.1	Z-1210	PTC505	HEPZ0412	SK3060	RT240	ECG 139
D55	V0-3C/IP20-0026	GE-504A	5A4D	PTC202	HEPR0052	SK3031	RT214	ECG 117
D56	V0-3C/IP20-0026	GE-504A	5A4D	PTC202	HEPR0052	SK3031	RT214	ECG 117
D57	V0-3C/IP20-0026	GE-504A	5A4D	PTC202	HEPR0052	SK3031	RT214	ECG 117
D58	V0-3C/IP20-0026	GE-504A	5A4D	PTC202	HEPR0052	SK3031	RT214	ECG 117
D59	BZ-071/IP20-0027	GEZD-7.5	Z-1207	PTC504	HEPZ0410	SK3059	RT239	ECG 138
D60	7.1V Zener BZ-071/IP20-0027	GEZD-7.5	Z-1207	PTC504	HEPZ0410	SK3059	RT239	ECG 138
D61	1N60/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D62	1N60/IP20-0016	1N60	1N60	PTC206	HEPR9135	SK3088	RT263	ECG 109
D63	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D64	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D65a	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
D65b	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D66	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D67	1S2472/IP20-0021	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D68	1N34A/IP20-0015	1N34AS	1N34A	PTC207	HEPR9134	SK3087	RT200	ECG 109
IC1	TA7062P/IP20-0014							
Q1	2SC710B/IP20-0001	GE-10	TR-24	PTC126	HEPS0015	SK3018	RT107	ECG 107
Q2	3SK35G				HEPF2004	SK3050	RT180	ECG 222
Q3	2SK34C/IP20-0010	GE-FET-1	FE-100	PTC151	HEPF0010	SK3112	RT176	ECG 133
Q4	2SC710C/IP20-0002	GE-17	TR-24	PTC121	HEPS0016	SK3018	RT108	ECG 107
Q5	2SC710C/IP20-0002	GE-17	TR-24	PTC121	HEPS0016	SK3018	RT108	ECG 107
Q6	2SC710C/IP20-0002	GE-17	TR-24	PTC121	HEPS0016	SK3018	RT108	ECG 107
Q7	2SK196R/IP20-0012	GE-FET-2	FE-100	PTC152	HEPF0021	SK3116	RT175	ECG 132
Q8	2SK34E/IP20-0011 (1)	GE-FET-1	FE-100	PTC151	HEPF0010	SK3112	RT176	ECG 133
Q9	2SC372Y/IP20-0006	GE-20	TR-24	PTC139	HEPS0015	SK3018	RT102	ECG 123A
Q10	XA495C/IP20-0009	GE-21	TR-19	PTC103	HEPS0013	SK3114	RT115	ECG 159
Q11	2SC372Y/IP20-0006	GE-20	TR-24	PTC139	HEPS0015	SK3018	RT102	ECG 123A
Q12	2SC710D/IP20-0004	GE-20	TR-24	PTC121	HEPS0016	SK3018	RT102	ECG 123A
Q13	2SK196R/IP20-0012	GE-FET-2	FE-100	PTC152	HEPF0021	SK3116	RT175	ECG 132
Q14	2SC710C/IP20-0002	GE-17	TR-24	PTC121	HEPS0016	SK3018	RT108	ECG 107
Q15	3SK35G				HEPF2004	SK3050	RT180	ECG 222
Q16	2SC710C/IP20-0002	GE-17	TR-24	PTC121	HEPS0016	SK3018	RT108	ECG 107
Q17	3SK35G				HEPF2004	SK3050	RT180	ECG 222
Q18	2SC710D/IP20-0003	GE-20	TR-24	PTC121	HEPS0016	SK3018	RT102	ECG 123A
Q19	2SC776Y/ IP20-0004 (2)	GE-45	TR-65		HEPS0016	SK3048	RT114	
Q20	2SC1239/ IP20-0005 (3)					SK3049	RT186	ECG 237
Q21	2SC710D/IP20-0003	GE-20	TR-24	PTC121	HEPS0016	SK3018	RT102	ECG 123A
Q22	2SD77B/IP20-0008	GE-8		PTC108	HEPG0011	SK3010	RT122	ECG 103A

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 / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q23	2SC372Y/1P20-0006	GE-20	TR-24	PTC139	HEPS0015	SK3038	RT102	ECG 123A
Q24	2SC1061/ IP20-0007 (4)	GE-66	TR-92			SK3054	RT154	ECG 152
Q25	2SC1061/ IP20-0007 (4)	GE-66	TR-92			SK3054	RT154	ECG 152
Q26	2SD180 (5)	GE-35	TR-61	PTC140	HEPS7004	SK3027	RT131	ECG 223

- (1) Used in some versions. (4) Rating 25 watt @ 3 amp.
 (2) Rating 1 watt @ 1 amp. (5) Rating 50 watt @ 5 amp.
 (3) Rating 12 watt @ 4 amp. (8) Varactor

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.
C327	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C335	10 16V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C414	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C432	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C442	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C443	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C444	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C445	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C446	33 16V		ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C447	.22 16V						
C448	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C450	10 16V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C453	10 16V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C502	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C504	47 16V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C505	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C507	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C508	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C514	47 16V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C515	47 16V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C516	470 35V		RME-O-H-500	EP50-500	WBR500-35	MTA500G50	EV-1450
C517	4.7 35V						
C518	10 16V (4.7)		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C519	10 16V		RME-B-E-010	EP15-10	PC10-25	VTT10A25	EV-1222
C601	1000 16V						
C603	220 16V						
C604	470 16V		RME-L-E-500	EP15-500	PC500-16	MTV500DN15	EV-1250
C605	47 16V		RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C607	330 35V				AA0145A		TVL-1269
C610	100 16V		RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C701	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C702	1 25V		RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C703	.01		RME-B-B-025	EP6-25	PC25-25	MTV25CB35	EV-1125

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C102	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C103	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C104	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C105	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C106	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C107	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C108	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C109	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C110	33 N750 10%		CCTN-330	DTN-33	N33	CN7433	10TCU-Q33
C111	56 10%		DM10-560J	CPR-56J	CD6ED560J03	SX456	424MC56R0J501
C112	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C113	300 5%		DM15-301J	CPR-300J	CD15FD301J03	SX330	424ME3000J501
C114	100 10%		DM10-101J	CPR-100J	CD10FD101J03	SX310	424MC1000J501
C115	4.7		CCTO-4R7	DTZ-4R7	NP04P7	CN0537	10TCC-V47
C116	.01		CCD-272			GP227	10TS-D27
C117	15		DM10-150J		CD6CD150J03		
C118	300 5%		DM15-271J	CPR-270J	CD15FD271J03	SX327	424ME2700J501
C119	100 10%		DM10-101J	CPR-100J	CD10FD101J03	SX310	424MC1000J501
C120	4.7		CCTO-4R7	DTZ-4R7	NP04P7	CN0537	10TCC-V47
C121	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C122	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C123	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C124	220 5%		DM10-221J	CPR-220J	CD10FD221J03	SX322	424ME2200J501
C125	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C126	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C127	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C128	3		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C129	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C130	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C131	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C132	2		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C133	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C134	56 10%		DM10-560J	CPR-56J	CD6ED560J03	SX456	424MC56R0J501
C135	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C136	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C137	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C138	1					CN0510	10TCC-V10
C139	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C140	20		DM10-180J		CD6CD180J03		MS-418
C142	100 10%		DM10-101J	CPR-100J	CD10FD101J03	SX310	424MC1000J501
C143	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C201	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C202	22		CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22

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PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C203	500 10%		DM15-501J		CD15FD501J03		
C204	150 10%		DM15-361J		CD15FD361J03	SX336	424ME3600J501
C205	3		CCT0-3R3	CPR-360J	NP03P3	CN0533	10TCC-V33
C206	100 10%		DM10-101J	DTZ-3R3	CD10FD101J03	SX310	424MC1000J501
C207	15		DM10-150J	CPR-100J	CD6CD150J03		
C208	2		CCT0-2R2		NP02P2	CN0522	10TCC-V22
C209	.001		CCD-102	DTZ-2R2	GP1000	GP210	2SS-D10
C210	.01		CCD-103	DD-102	GP10000	MAG5011	2SS-S10
C301	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C302	1			DC-103	GP10000	MAG5011	2SS-S10
C303	220 10%		DM10-221J		CD10FD221J03	CN0510	10TCC-V10
C304	.01		CCD-103	CPR-220J	GP10000	SX322	424ME2200J501
C305	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C307	130 5%		DM10-131J	DC-103	GP10000	MAG5011	2SS-S10
C308	.01		CCD-103	CPR-130J	CD7FD131J03	SX313	424MC1300J501
C309	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C310	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C311	30		DM10-300J	DC-103	GP10000	MAG5011	2SS-S10
C312	150 5%		DM10-151J	CPR-30J	CD6ED300J03	SX430	
C313	.01		CCD-103	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C314	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C315	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C316	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C317	170 10%		DM10-181J	DC-103	GP10000	MAG5011	2SS-S10
C318	220 5%		DM10-221J	CPR-180J	CD7FD181J03	SX318	424ME1800J501
C319	150 5%		DM10-151J	CPR-220J	CD10FD221J03	SX322	424ME2200J501
C320	78 10%		DM10-820J	CPR-150J	CD7FD151J03	SX315	424MC1500J501
C321	10		DM10-100J	CPR-82J	CD10ED820J03	SX482	424MC820J501
C322	100 10%		DM10-101J		CD6CD1000J03		
C323	.01		CCD-103	CPR-100J	CD10FD101J03	SX310	424MC1000J501
C324	.1		1MDF-3-104	DC-103	GP10000	MAG5011	2SS-S10
C325	3		CCT0-3R3	DTZ-3R3	DPMS2P1	EWFA1010	1PB-P10
C326	.01		CCD-103	NP03P3	NP03P3	CN0533	10TCC-V33
C328	30 10%		DM10-300J	DC-103	GP10000	MAG5011	2SS-S10
C329	15		DM10-150J	CPR-30J	CD6ED300J03	SX430	
C330	.01		CCD-103		CD6CD150J03		
C331	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C332	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C333	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C334	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C336	30		CCT0-300	DC-103	GP10000	MAG5011	2SS-S10
C337	.01		CCD-103	DC-103	GP10000	MAG5011	10TCC-Q30
C338	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C339	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C340	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C401	24		DM10-240J	DC-103	GP10000	MAG5011	2SS-S10
C402	.01		CCD-103	CPR-24J	CD6ED240J03	SX424	MS-424
C403	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C404	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C405	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C406	100 10%		DM10-101J	DC-103	GP10000	MAG5011	2SS-S10
C407	.01		CCD-103	CPR-100J	CD10FD101J03	SX310	424MC1000J501
C408	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C409	.001		CCD-102	DC-103	GP10000	MAG5011	2SS-S10
C410	.01		CCD-103	DD-102	GP1000	GP210	2SS-D10
C411	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C412	3		CCD-201	DC-103	GP10000	MAG5011	2SS-S10
C413	.001		CCD-102	DD-201	GP200	GP320	10TS-T20
C415	.001		CCD-102	DD-102	GP1000	GP210	2SS-D10
C416	.01		CCD-103	DD-102	GP1000	GP210	2SS-D10
C417	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C418	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C419	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C420	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C422	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C423	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C424	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C425	.04		6DP-3-473		DPMS6S47	EW6147	6PS-S47
C426	.02		CCD-503		MGP05	MAG5015	TGL-S50
C427	.001		CCD-102	DC-503	GP1000	GP210	2SS-D10
C428	.01		CCD-103	DD-102	GP10000	MAG5011	2SS-S10
C429	4.7		CCT0-4R7	DC-103	NP04P7	CN0537	10TCC-V47
C430	.01		CCD-103	DTZ-4R7	GP10000	MAG5011	2SS-S10
C433	4.7		CCT0-4R7	DC-103	NP04P7	CN0537	10TCC-V47
C434	.01		CCD-103	DTZ-4R7	GP10000	MAG5011	2SS-S10
C435	.01		1MDF-1-103	DC-103	NP04P7	CN0537	10TCC-V47
C436	47		DM10-470J	CCD-103	DPMS4S1	EWFA1110	1PB-S10
C437	100 10%		DM10-101J	CPJ-103	CD6ED470J03	SX447	424MC470J501
C438	.1		1MDF-1-103	CPR-47J	CD10FD101J03	SX310	424MC1000J501
C439	.04		6DP-3-104	CPR-100J	DPMS2P1	EWFA1010	1PB-P10
C440	1		6DP-3-393		DPMS6S39	PVC6139	6PS-S39
C441	.001					CN0510	10TCC-V10
C449	.01		CCD-102	DD-102	GP1000	GP210	2SS-D10
C451	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C454	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C455	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C501	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C503	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C506	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C509	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C510	.05		1MDF-2-503	DC-103	GP10000	MAG5011	2SS-S10
C512	.1		6DP-4-823		DPMS2S5	EWFA1150	2PS-S50
C513	.01		CCD-103		DPMS6S82	PVC6182	6PS-S82
C520	.01		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C602	.001		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C606	.01						
C608	.0022		CCD-103	DC-103	GP10000	MAG5011	2SS-S10
C609	.0022		CCD-222			GP222	10TS-D22
CV1	30	IP22-0021	CCD-222			GP222	10TS-D22
CV2	30	IP22-0021					

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
CV3	30	IP22-0021					
CV4	30	IP22-0021					
CV5	30	IP22-0021					
CV6	30	IP22-0021					
CV7	40	IP22-0022					
CV8	40	IP22-0022					
CV9	40	IP22-0022					
CV10	40	IP22-0022					
CV11	20	IP22-0020					
CV12	10	IP22-0019					

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (1 uH)	IP21-0100			
L2	27MHz Trap	IP21-0095			
L3	RF Choke (3.3 uH)	IP21-0102			
L4	RF Choke (.22 uH)	IP21-0098			
L5	27MHz Trap	IP21-0094			
L6	27MHz Trap	IP21-0096			
L7	27MHz Trap	IP21-0097			
L8	RF Choke (.85 uH)	IP21-0099			
L9	RF Choke (.22 uH)	IP21-0098			
L10	Peaking (470 uH)	IP21-0105			
L11	RF Choke (.22 uH)	IP21-0098			
L12	Peaking (470 uH)	IP21-0105			
L13	RF Choke (5.5 uH)	IP21-0101			
L14	RF Choke (8.2 uH)	IP21-0103			
L15	Peaking (470 uH)	IP21-0105			
L16	Peaking (470 uH)	IP21-0105			
L17	RF Choke (22 uH)	IP21-0104			
L18	RF Choke	IP21-0077			
L20	Peaking (150 uH)				
T1	RF Input IF	IP21-0091			
T2	RF IF	IP21-0090			
T3	Mixer IF	IP21-0085			
T4	Input IF/SSB Amp	IP21-0085			
T5	Interstage IF	IP21-0085			
T6	Output IF	IP21-0089			
T7	Product Detector	IP21-0086			
T8	19MHz Mixer	IP21-0087			
T9	Buffer Amp (Pri.)	IP21-0079			
T10	Buffer Amp (Sec.)	IP21-0080			
T11	15.605MHz Osc. (Pri.)	IP21-0078			
T12	15.605MHz Osc. (Sec.)	IP21-0078			
T13	34MHz Mixer	IP21-0088			
T14	Buffer Amp (Pri.)	IP21-0081			
T15	Buffer Amp (Sec.)	IP21-0082			
T16	27MHz Mixer (Pri.)	IP21-0083			
T17	27MHz Mixer (Sec.)	IP21-0084			
T18	Buffer Amp	IP21-0093			
T19	Modulator IF	IP21-0092			

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	Clarifier	10K	IP24-0001				
VR2	RF Meter	100K	IP24-0002	TSV-50K (2) or T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
VR3	ALC	10K		TSV-10K or T-10K	C-103	MTC14L1	X201R103B
VR4	AGC	20K	IP24-0004	T-20K (2) or TSV-25K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)
VR5	Squelch Range	10K	IP24-0005	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
VR6a	Squelch	10K	IP24-0016				
b	Volume	10K					
VR7	Modulation Level	1000	IP24-0007	TSV-1K (2) or T-1000 (2)	C-102 (2)	MTC13L1 (2)	X201R102B (2)
VR8	Balance	500	IP24-0008	TSV-500 or T-500	C-501	MTC52L1	X201R501B
VR9	"S" Meter	20K	IP24-0004	T-20K (2) or TSV-25K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)
VR10	RF Gain	10K	IP24-0001				
VR12	SWR	500		TSV-500 (2) or T-500 (2)	C-501 (2)	MTC52L1 (2)	X201R501B (2)
CR13	CAL	10K	IP24-0001				

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

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L19	1500mA	.2	2.5mH	IP21-0112 K-11 (1)				(1) Number on Unit.

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.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
T20	1.3	1		IP21-0075 A-31 (1)				(1) Number on Unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T21	11.5	8	IP21-0076 G-12 (1)				(1) Number on Unit.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T22	120 VAC @ 500mA AC	19VAC @ 1500mA AC	IP21-0120 M-49 (1)				(1) Number on Unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	2 3/4" PM 8 ohms	IP29-0004 B-26 (1)	27A05Z8	(1) Number on Unit.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	3A Quick Acting		IP34-0008	AGC3	HKP	318001	342001AL
F2	1A Quick Acting Pigtail			GJV1		318001	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Filter	IP31-0047	(FX-D7800C) 7.8MHz
M1	Meter	IP27-0002	"S" RF
RL1	Relay	IP32-0005	Rec./Xmit (MY-4)
S1	Switch	IP25-0013	Channel Selector
S2	Switch	IP25-0014	AM-USB-LSB
S3	Switch	IP25-0015	CB-PA
S4	Switch	IP25-0015	Noise Blanking
S5	Switch	IP25-0012	Power
X1	Crystal	IP31-0032	11.700MHz
X2	Crystal	IP31-0033	11.750MHz
X3	Crystal	IP31-0034	11.800MHz
X4	Crystal	IP31-0035	11.850MHz
X5	Crystal	IP31-0036	11.900MHz
X6	Crystal	IP31-0037	11.950MHz
X7	Crystal	IP31-0038	7.4625MHz
X8	Crystal	IP31-0039	7.4725MHz
X9	Crystal	IP31-0040	7.4825MHz
X10	Crystal	IP31-0041	7.5025MHz
X11	Crystal	IP31-0042	7.8025MHz

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Top	IP30-0102	Knob, Channel	IP30-0091
Cabinet, Bottom	IP30-0104	Knob, Volume	IP30-0092
Chassis, Front	IP30-0106	Knob, Squelch	IP30-0093
Panel, Front	IP30-0116	Knob, Mode	IP30-0094
Panel, Rear	IP30-0108	Microphone Clip	IP30-0061
		Mounting Bracket, Mobile	IP30-0085

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	IP29-0002	
AC Power Cord	IP35-0003	

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord, 2-Wire	8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet
	17109 (Plastic) or 17129 (Rubber) -9 feet
	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)