



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 TRC-424 (21-1522)

MANUFACTURER'S SPECIFICATIONS

RECEIVER SPECIFICATIONS (1 μ V = 0 dB, BLANKER: OUT)

DESCRIPTION	NOMINAL	LIMIT
1. FREQUENCY TOLERANCE	± 1000 Hz	± 1350 Hz
2. INTERMEDIATE FREQUENCY: 1st	9.785 MHz	
2nd	455 kHz	± 1.5 kHz
3. SENSITIVITY for Standard Output (500 mW)	0.18 μ V	0.35 μ V
4. SENSITIVITY for 10 dB S + N/N	0.5 μ V	1 μ V
5. AGC FIGURE OF MERIT (RF input 10 mV, AF -10 dB)	75 dB	65 dB
6. BANDWIDTH at -6 dB (re. item 4)	6 kHz	3.5 - 8 kHz
7. ADJACENT CHANNEL REJECTION at ± 10 kHz (ref. 4.)	60 dB	50 dB
8. OVERLOAD SIGNAL for 10% Distortion	> 50 mV	> 50 mV
9. AUDIO POWER OUTPUT at 10% Distortion (RF input 1 mV)	3.5 W	3.0 W
10. DISTORTION at Standard Output (RF input 1 mW)	4%	7%
11. BATTERY DRAIN at no Signal	250 mA	350 mA
12. FIDELITY (RF input 1 mV, 1 kHz 0 dB reference)		
at 400 Hz Modulation	-6 dB	-11 dB
at 2000 Hz Modulation	-8 dB	-15 dB
13. SQUELCH SENSITIVITY	0.25 μ V	0.5 μ V
14. SQUELCH SENSITIVITY at the deepest point	500 μ V	100 - 2000 μ V
15. IMAGE REJECTION (re. item 4) at 26 MHz/(or any other point)	46/51 dB	40/45 dB
16. S/N RATIO at 1 mV Input	45 dB	40 dB
17. "S" METER SENSITIVITY for "S9"	100 μ V	50 - 200 μ V
18. DELTA TUNE	± 1.5 kHz	± 1 kHz
19. CONDUCTED RECEIVER RADIATION		2000 pW
20. CROSS MODULATION	56 dB	48 dB
21. RF CONTROL RANGE (re. item 4)	35 dB	25 - 50 dB
22. SPURIOUS RESPONSE	-65 dB	-50 dB

TRANSMITTER SPECIFICATIONS

DESCRIPTION	NOMINAL	LIMIT
1. FREQUENCY TOLERANCE	± 1000 Hz	± 1350 Hz
2. RF POWER OUTPUT		
at no Modulation	3.7 W (4W max.)	3.5 W
at 100% Modulation	up or no change	
3. CONDUCTED SPURIOUS SUPPRESSION (worst value)	-65 dB	-60 dB
4. MODULATION CAPABILITY	+90, -100%	$\pm 80\%$ - $< \pm 100\%$
5. BATTERY DRAIN		
at no Modulation	1200 mA	1400 mA
at 100% Modulation	1700 mA	1900 mA
6. MICROPHONE SENSITIVITY at 50% Modulation	1 mV	2.5 mV

Courtesy of the Manufacturer

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

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REALISTIC MODEL TRC-424

ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Adjustments made with 13.8-volt DC input. Connect low sides of test equipment to ground unless specified otherwise. Connect 50-ohm dummy load or antenna before keying transmitter.

Suggested Alignment Tools:

	GC ELECTRONICS:
T301 thru T304, T801, T803, L901, L902, L903	5009, 8728-A, 8728
L101, L102, L501, L502, T802, L904, L906, F901	9440
L909	9304, 9300, 9302
L910	9091, 8728-A, 8728
CT801	8276, 5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to J14.	Ch. 19		Check for 10.240MHz $\pm$ 350Hz.
Input of oscilloscope to J14.	Ch. 19	T801	Adjust for maximum RF.
Input of frequency counter thru 5pF to TP1 (Q805, Emitter).	Ch. 19, Delta Tune 0	CT801	Adjust for 11.5966MHz.
Input of DC meter to TP802.	Ch. 1, Delta Tune 0	T802	Adjust for 1.6 volts.
Input of oscilloscope to TP804.	Ch. 19, Delta Tune 0	T803	Adjust for maximum RF.
Input of frequency counter to TP804.	Ch. 19, Delta Tune 0		Check for 36.750MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP2 (Q901, Emitter).	Ch. 19, XMT		Check for 9.785MHz.
Input of oscilloscope to TP3 (Q902, G2).	Ch. 19, XMT	L911	Adjust for maximum RF.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil. Adjust volume control to obtain a suitable indication. Set generator output low enough to prevent AGC limiting.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP4 (Q301 base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19, Delta Tune 0 Blanker Off RF Gain Maximum Squelch MINIMUM	T304,T303	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, Delta Tune 0 Blanker Off RF Gain Maximum Squelch MINIMUM	T302,T301, L102,L101	Adjust for maximum output. If necessary, readjust T303 and T304.
Output of signal generator thru .01uF to antenna jack. 18.920MHz, no modulation. Input of oscilloscope to TP5 (D502 cathode).	Ch. 19, Delta Tune 0 Blanker On RF Gain Maximum Squelch MINIMUM	L501,L502	Adjust for maximum RF.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of DC meter to TP301. No signal input.	Ch. 19, Delta Tune 0 Blanker Off RF Gain Maximum Squelch MINIMUM	VR3	AGC Adjust for 1.4 volts.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, Delta Tune 0 Blanker Off RF Gain Maximum Squelch MINIMUM	VR1	RF GAIN RANGE Set generator output at a level for a 10db signal to noise ratio. Adjust volume for 0db. Increase generator output level 30db. Turn RF Gain to MINIMUM. Adjust VR1 for 0db audio.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 500uV.	Ch. 19, Delta Tune 0 Blanker Off RF Gain Maximum Squelch Maximum	VR6	SQUELCH RANGE Adjust so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, Delta Tune 0 Blanker Off RF Gain Maximum Squelch MINIMUM	VR4	RX SIGNAL METER Adjust for 9 on RX signal scale of meter.

REALISTIC MODEL TRC-424

TRANSMITTER ALIGNMENT

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.

See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of spectrum analyzer or harmonic meter to antenna jack.	Ch. 19	L901,L902, L903,L904, L906,L909, L910	Adjust for maximum.
	Ch. 19	L906	Adjust L906 clockwise for a decrease in .5 watts.
	Ch. 19	L909	Adjust for 3.7 to 3.8 watts.
	Ch. 19	F901	Adjust for MINIMUM at 54MHz.

TRANSMITTER ADJUSTMENTS

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

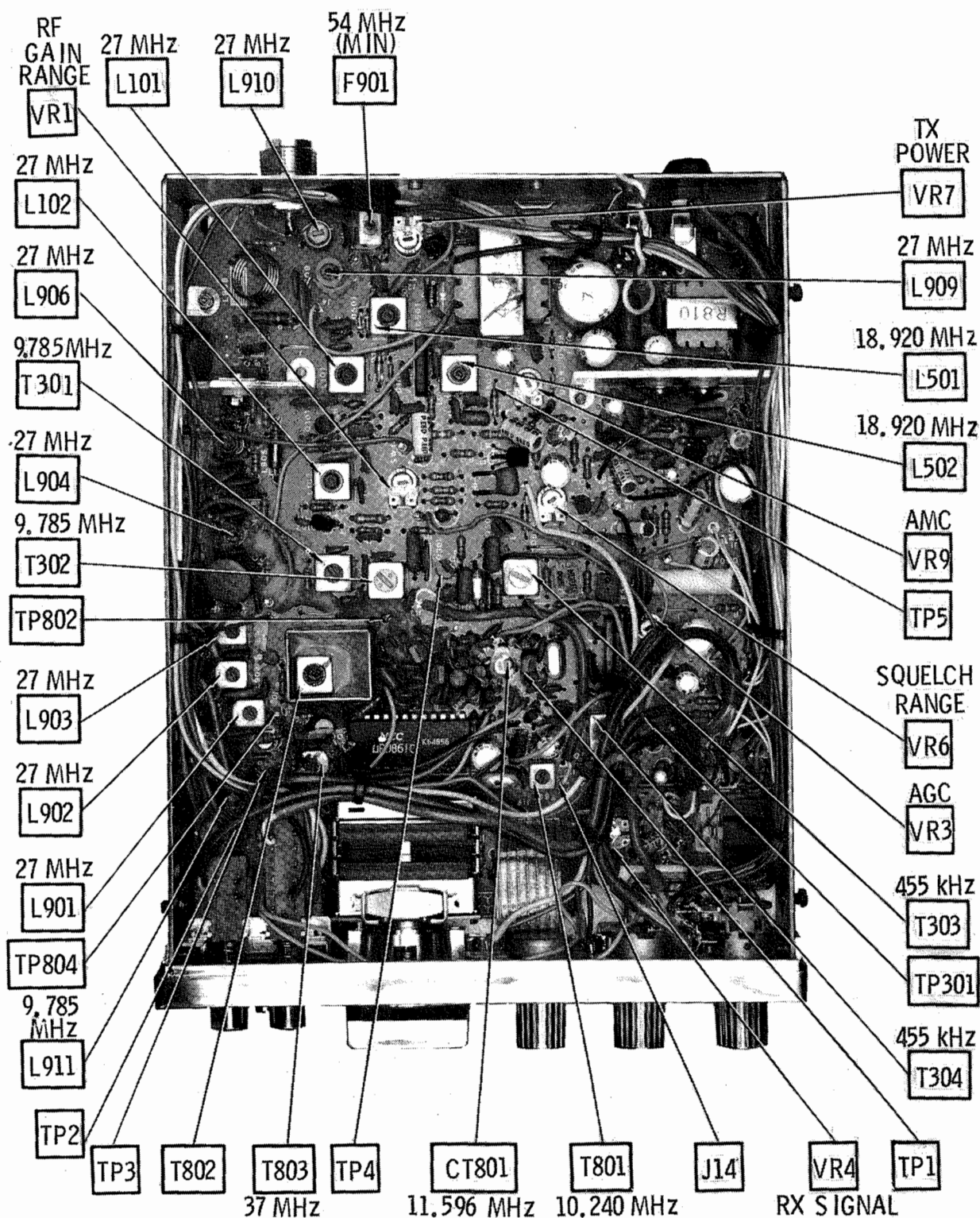
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

See page 4 for channel frequencies.

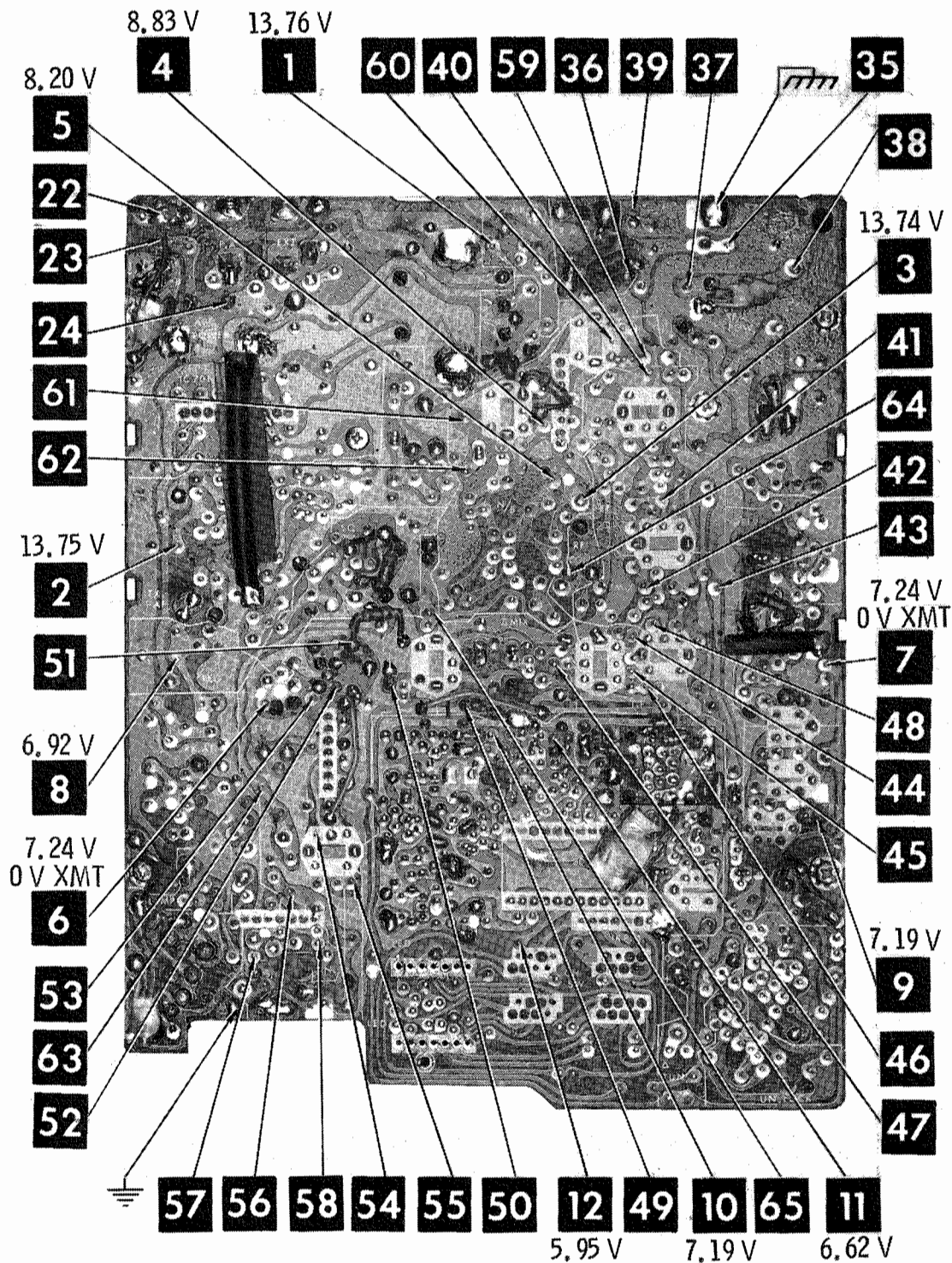
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna jack. Inject a 1000Hz, 50mV signal at mic input.	Ch. 19	VR9	AMC Adjust for 100% modulation maximum.
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.	Ch. 19	VR7	TX POWER METER Adjust so that TX power meter reads in the center of the red on the TX power scale of meter.

TRUTH CHART

CHANNEL	1 = 5.93 Volts 0 = 0 Volts IC801 PROGRAM DIVIDER							REC & XMT VCO OUTPUT IN MHz AT TP804		
	PINS									
	6	5	4	3	2	1				
1	0	0	0	1	0	0		36.750		
2	0	0	0	1	0	1		36.760		
3	0	0	0	1	1	0		36.770		
4	0	0	1	0	0	0		36.790		
5	0	0	1	0	0	1		36.800		
6	0	0	1	0	1	0		36.810		
7	0	0	1	0	1	1		36.820		
8	0	0	1	1	0	1		36.840		
9	0	0	1	1	1	0		36.850		
10	0	0	1	1	1	1		36.860		
11	0	1	0	0	0	0		36.870		
12	0	1	0	0	1	0		36.890		
13	0	1	0	0	1	1		36.900		
14	0	1	0	1	0	0		36.910		
15	0	1	0	1	0	1		36.920		
16	0	1	0	1	1	1		36.940		
17	0	1	1	0	0	0		36.950		
18	0	1	1	0	0	1		36.960		
19	0	1	1	0	1	0		36.970		
20	0	1	1	1	0	0		36.990		
21	0	1	1	1	0	1		37.000		
22	0	1	1	1	1	0		37.010		
23	1	0	0	0	0	1		37.040		
24	0	1	1	1	1	1		37.020		
25	1	0	0	0	0	0		37.030		
26	1	0	0	0	1	0		37.050		
27	1	0	0	0	1	1		37.060		
28	1	0	0	1	0	0		37.070		
29	1	0	0	1	0	1		37.080		
30	1	0	0	1	1	0		37.090		
31	1	0	0	1	1	1		37.100		
32	1	0	1	0	0	0		37.110		
33	1	0	1	0	0	1		37.120		
34	1	0	1	0	1	0		37.130		
35	1	0	1	0	1	1		37.140		
36	1	0	1	1	0	0		37.150		
37	1	0	1	1	0	1		37.160		
38	1	0	1	1	1	0		37.170		
39	1	0	1	1	1	1		37.180		
40	1	1	0	0	0	0		37.190		

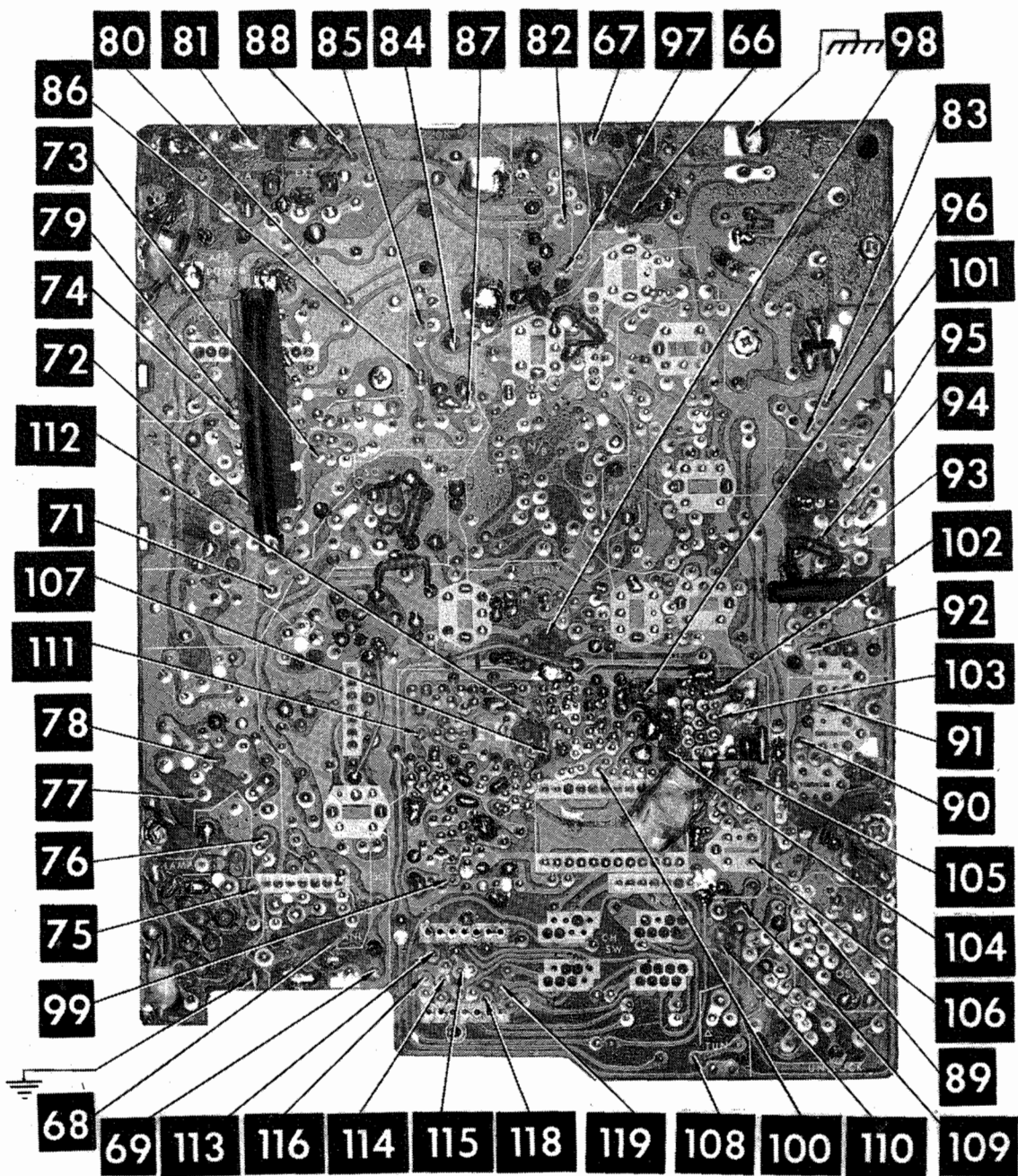


CHASSIS - BOTTOM

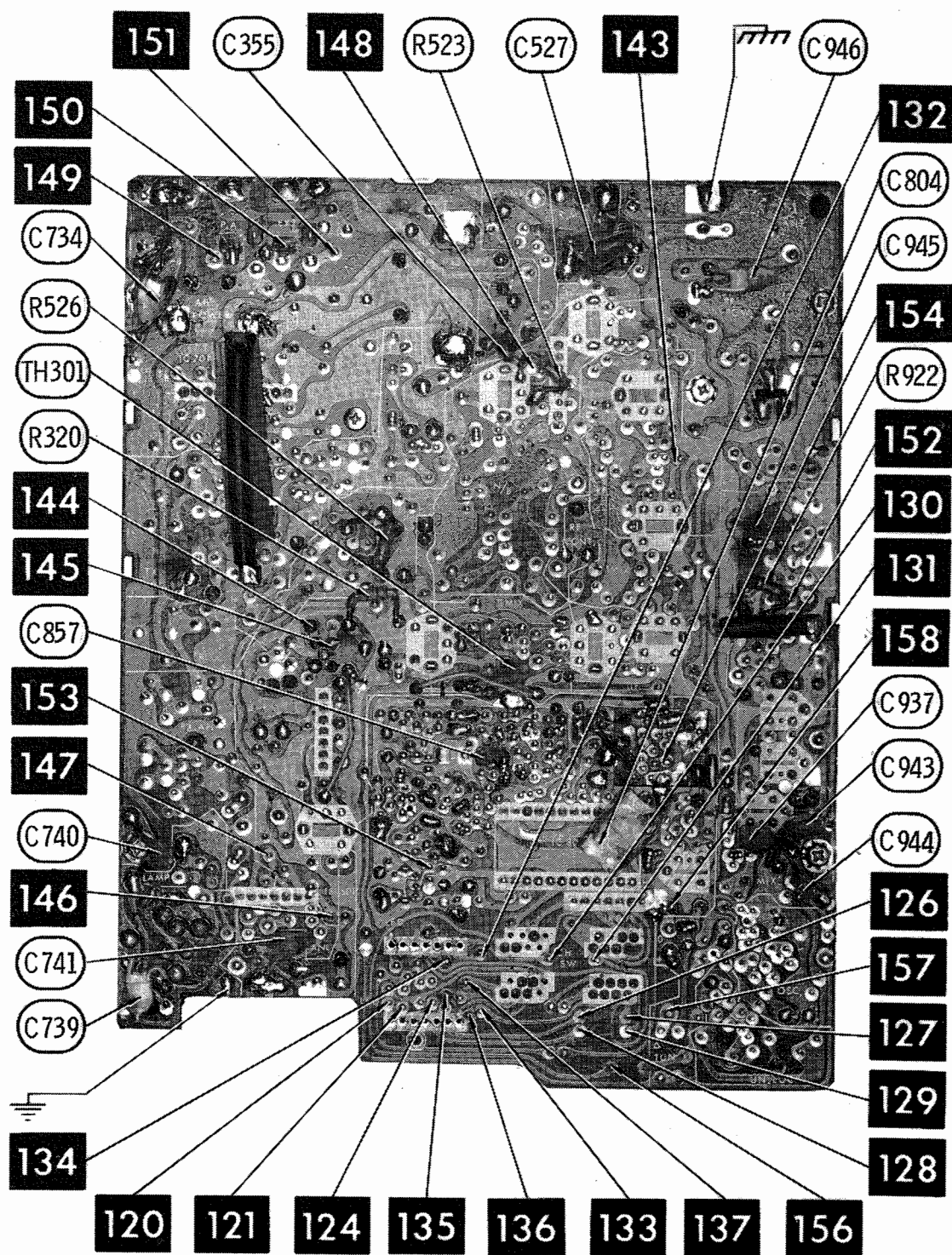


REALISTIC MODEL TRC-424

MAIN BOARD

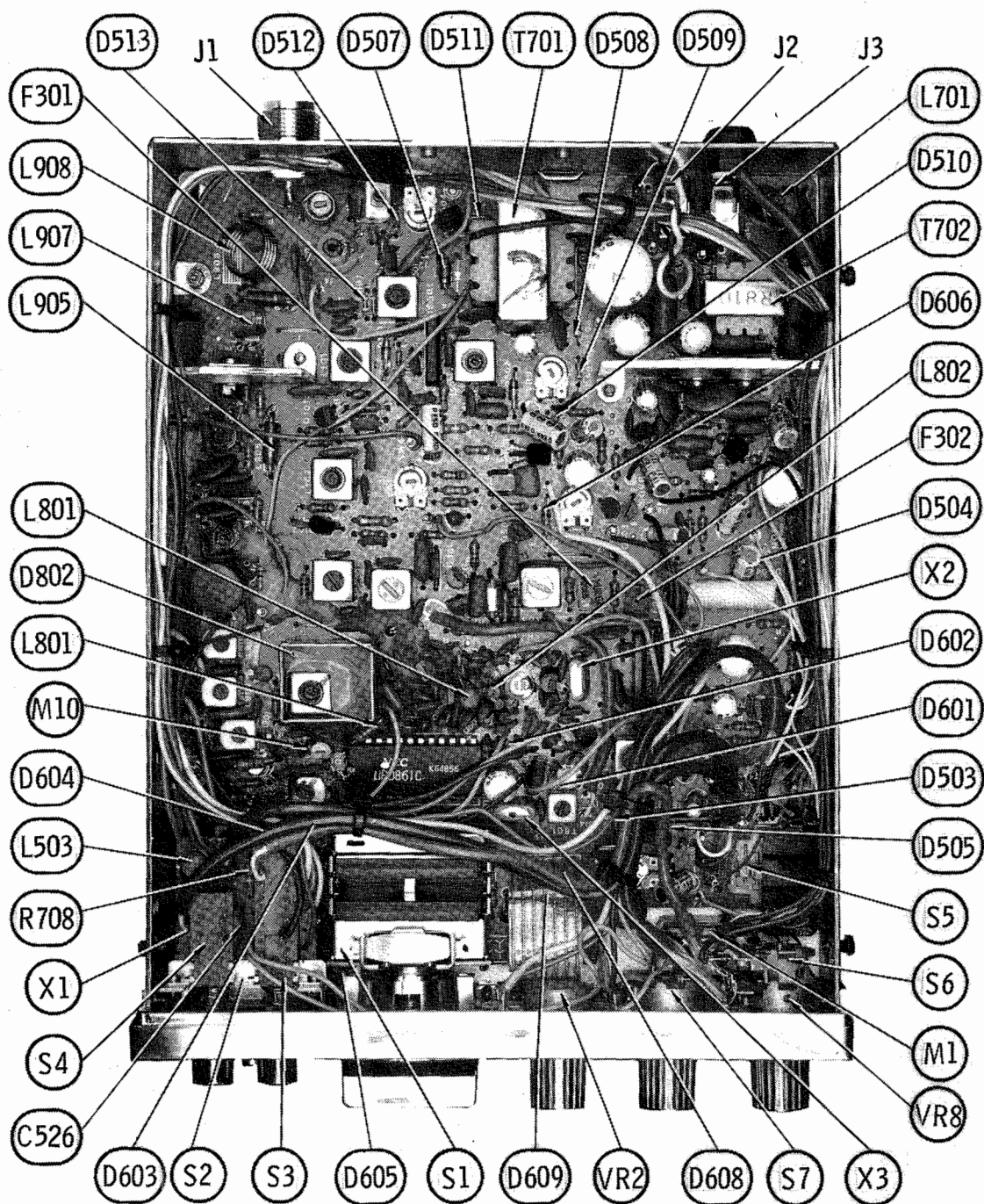


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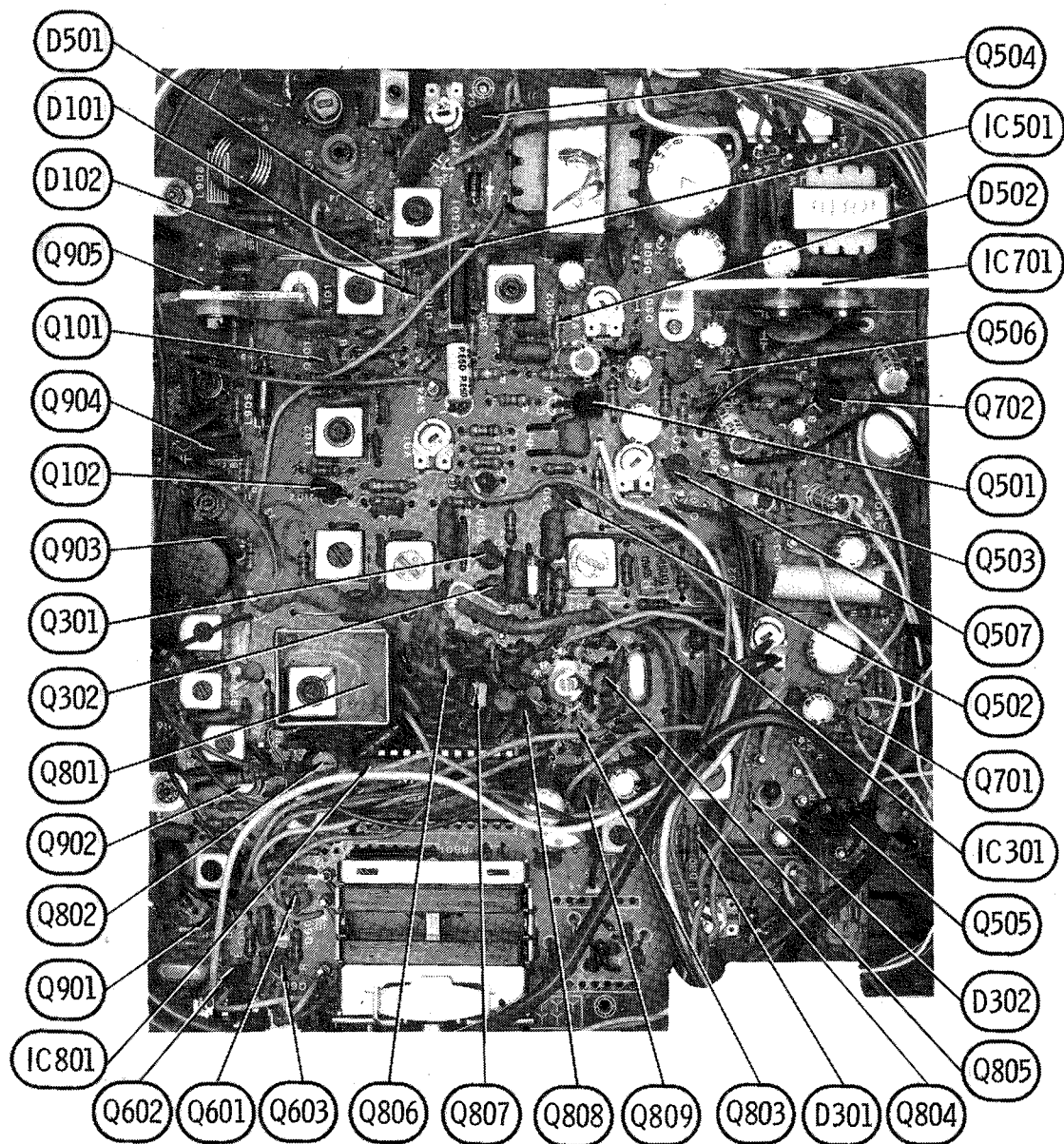


REALISTIC MODEL TRC-424

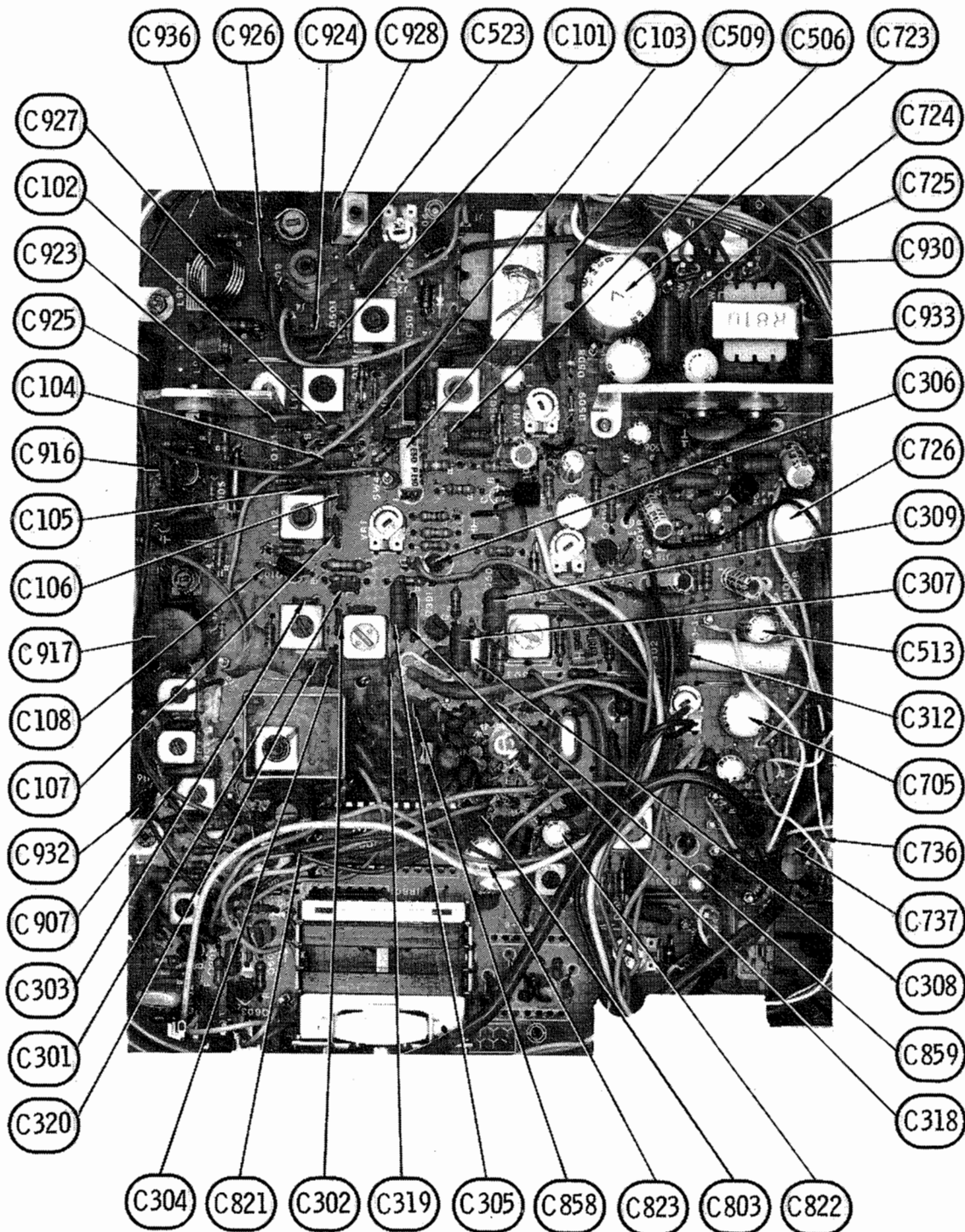
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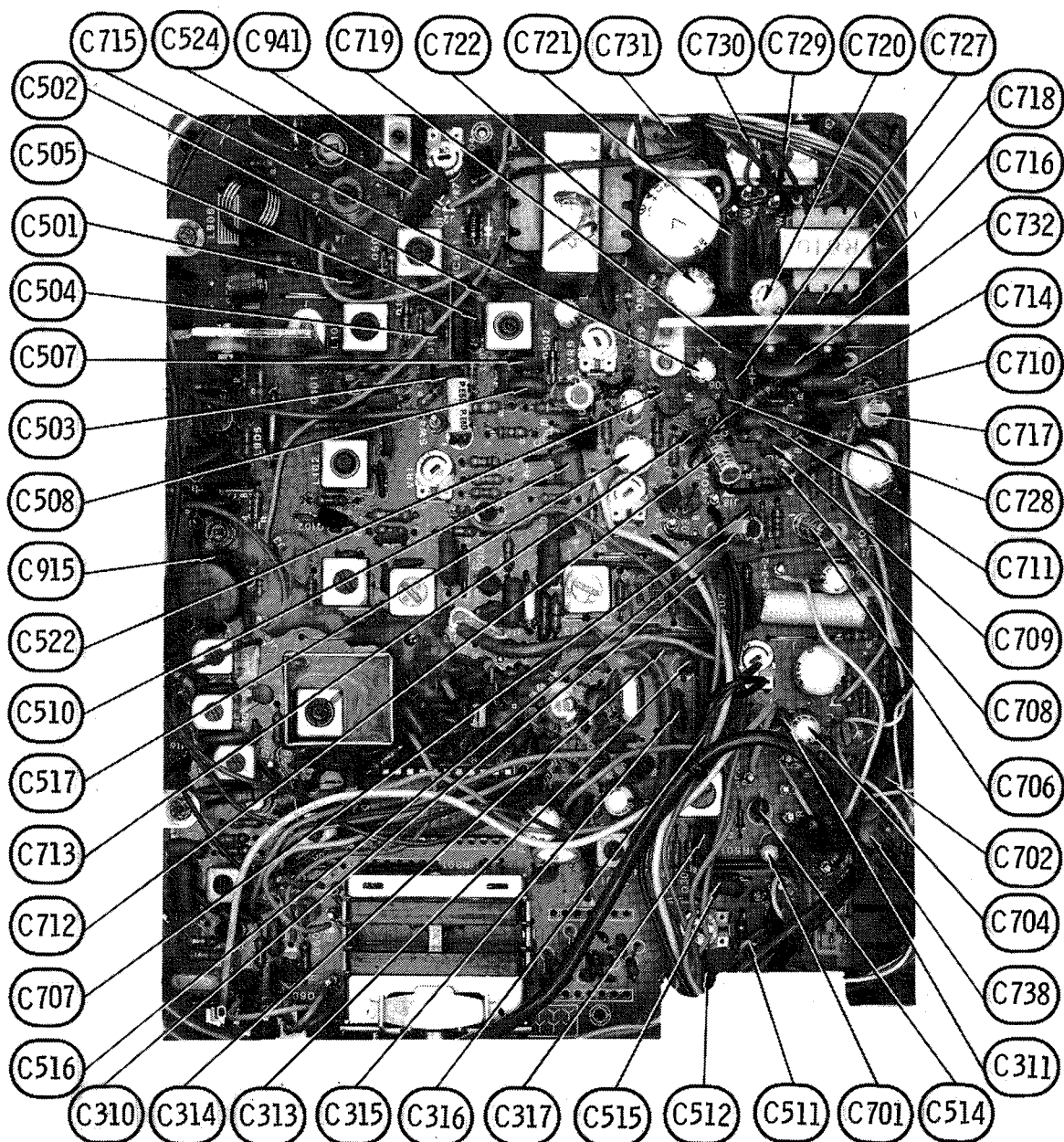
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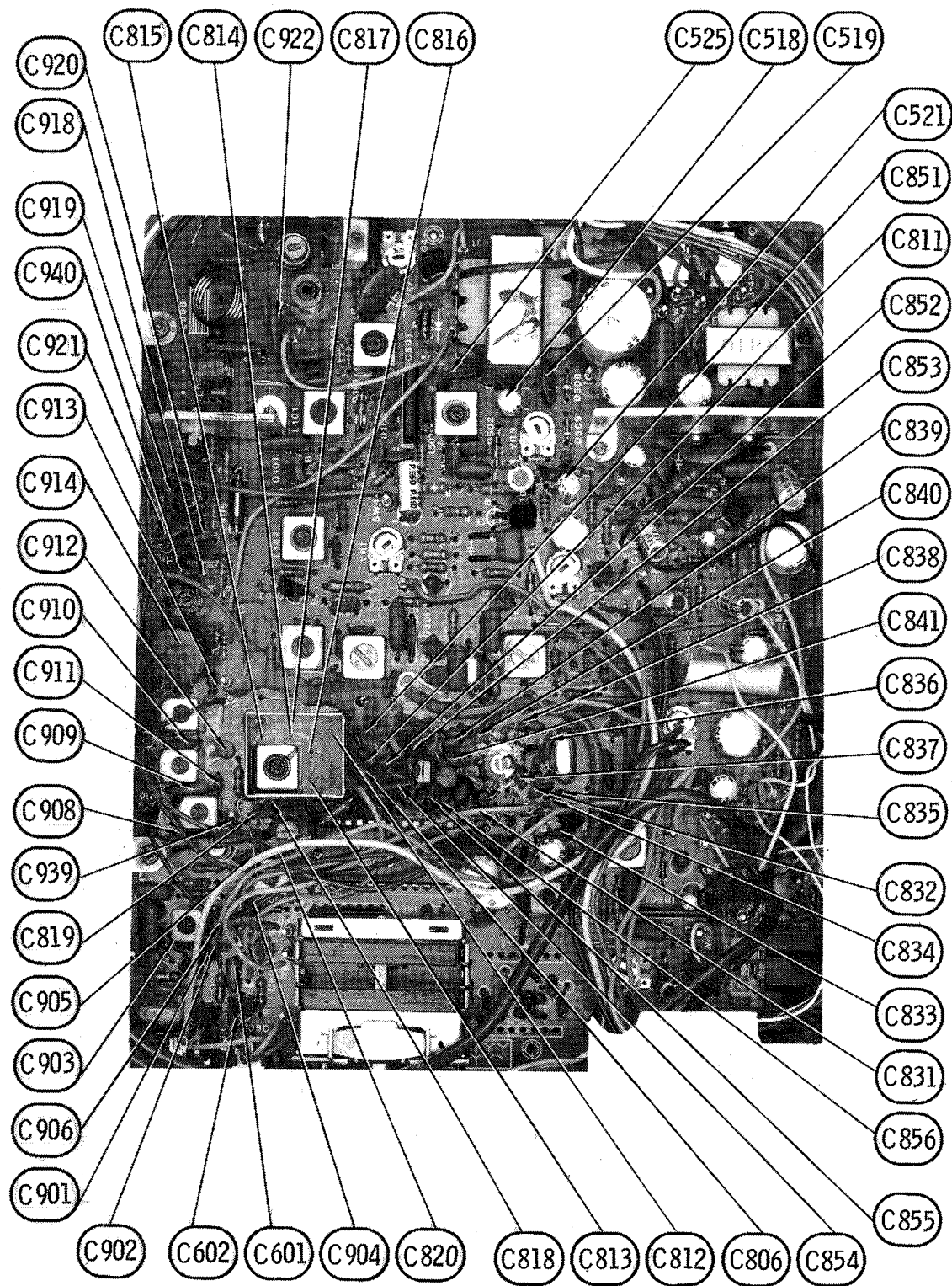
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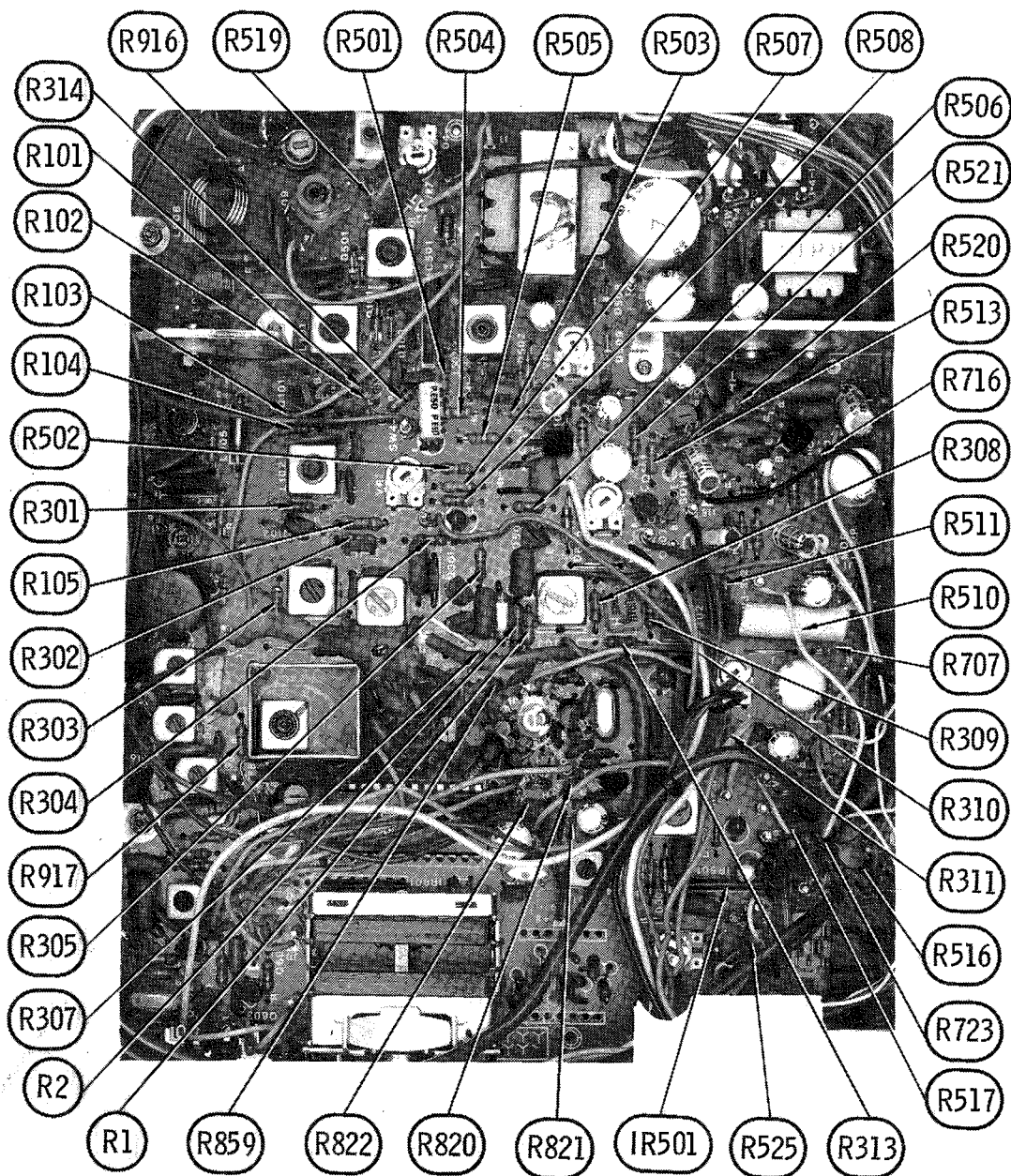
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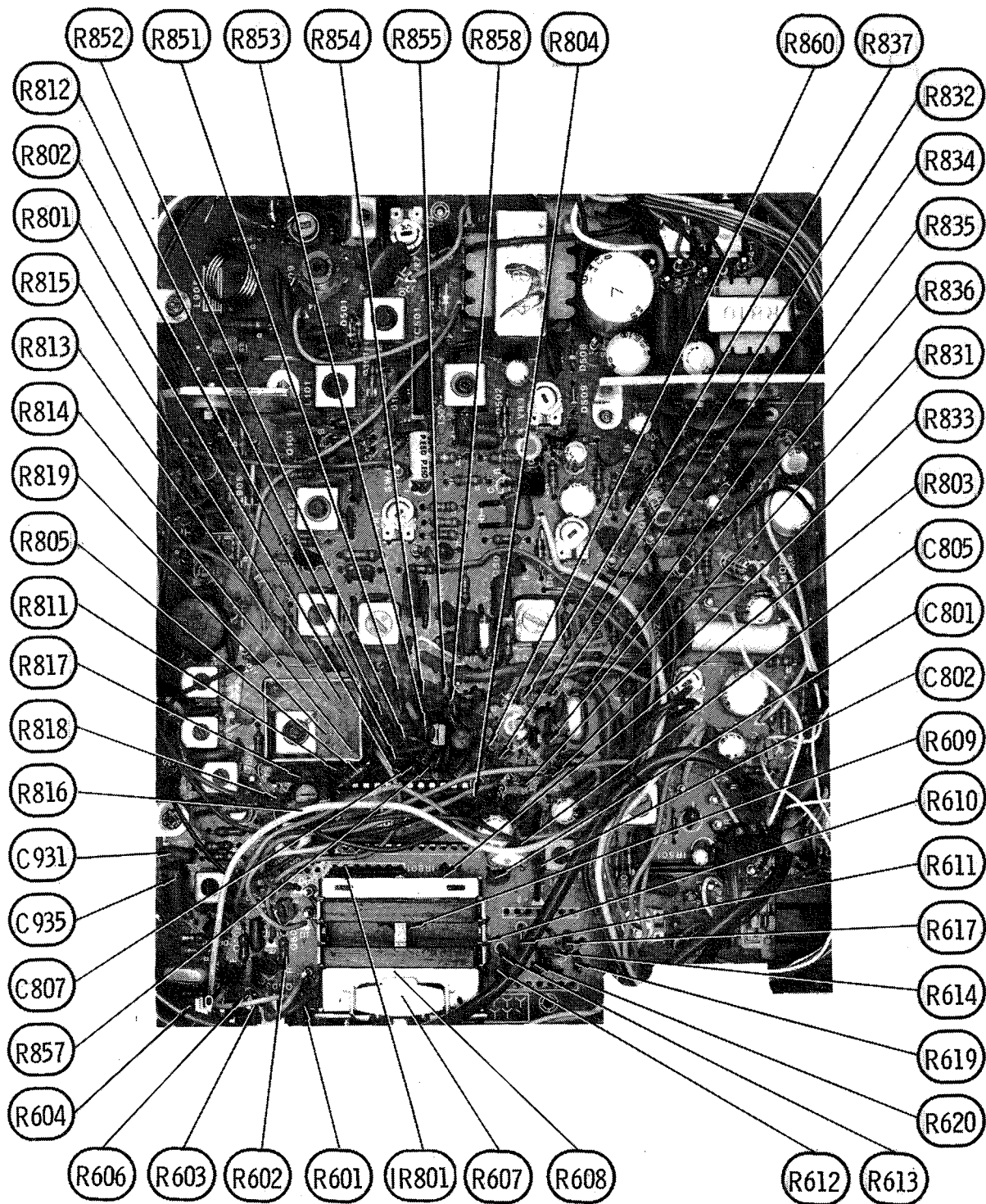
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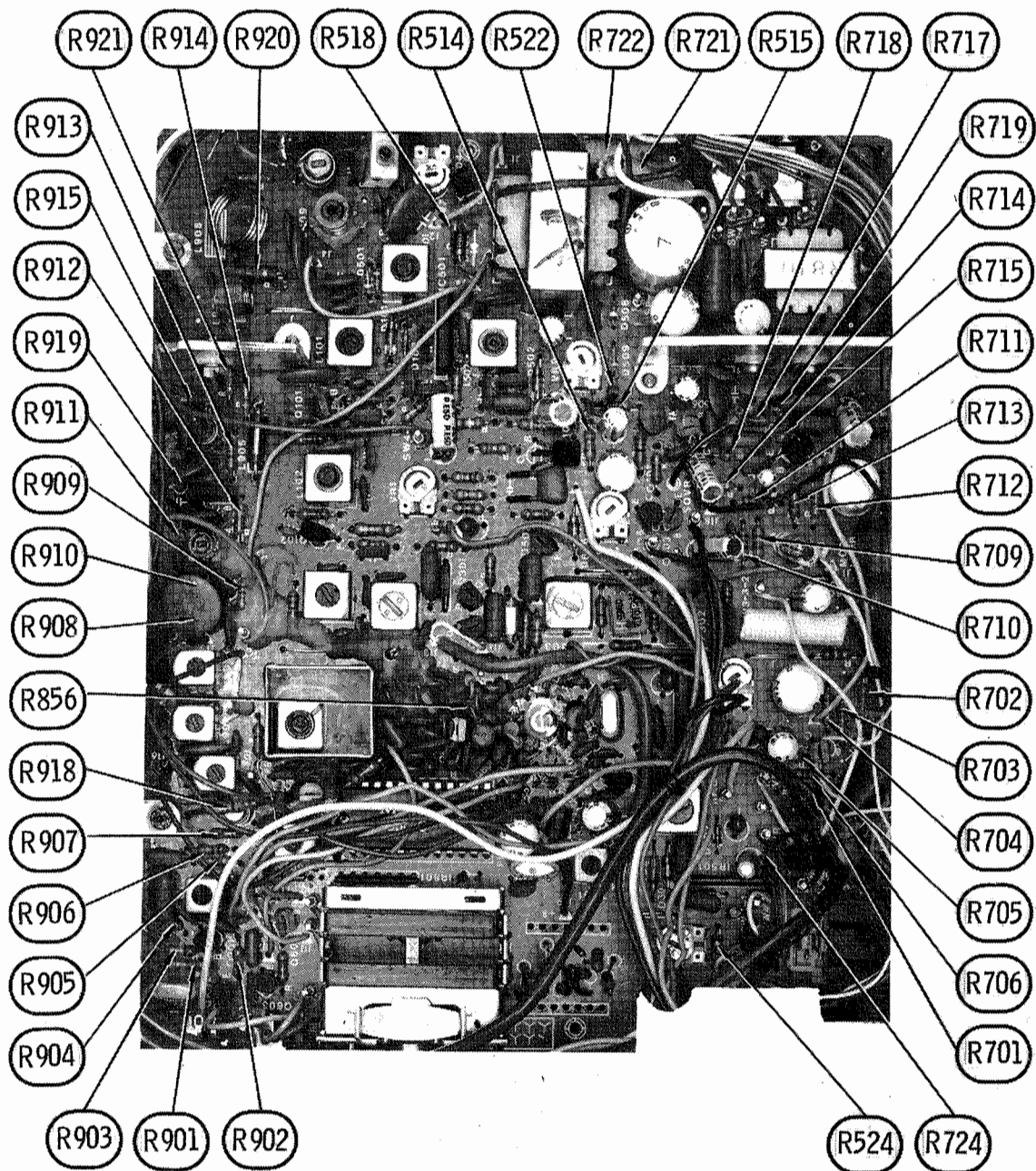
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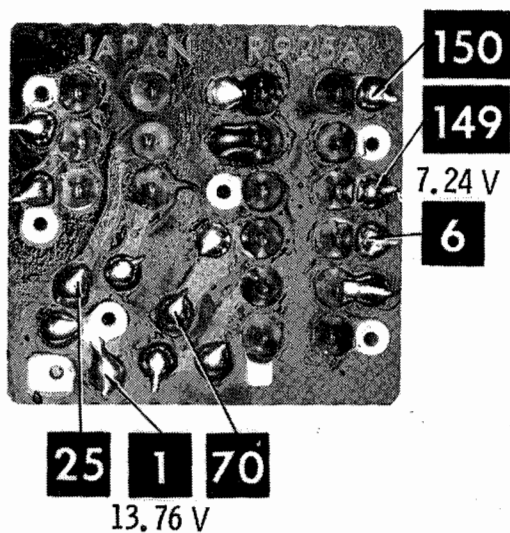
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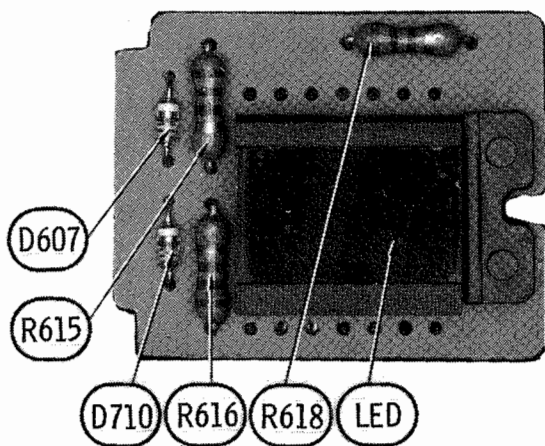
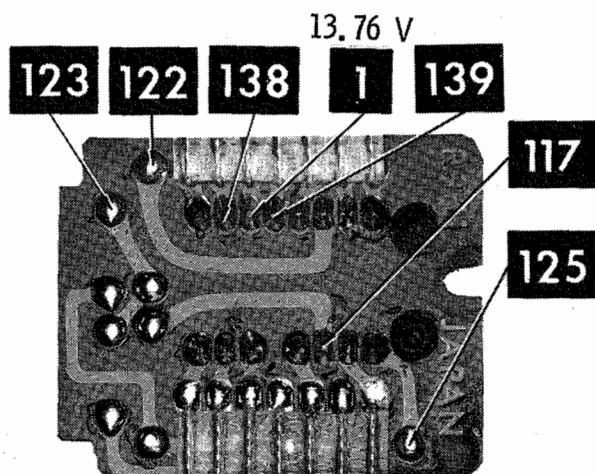
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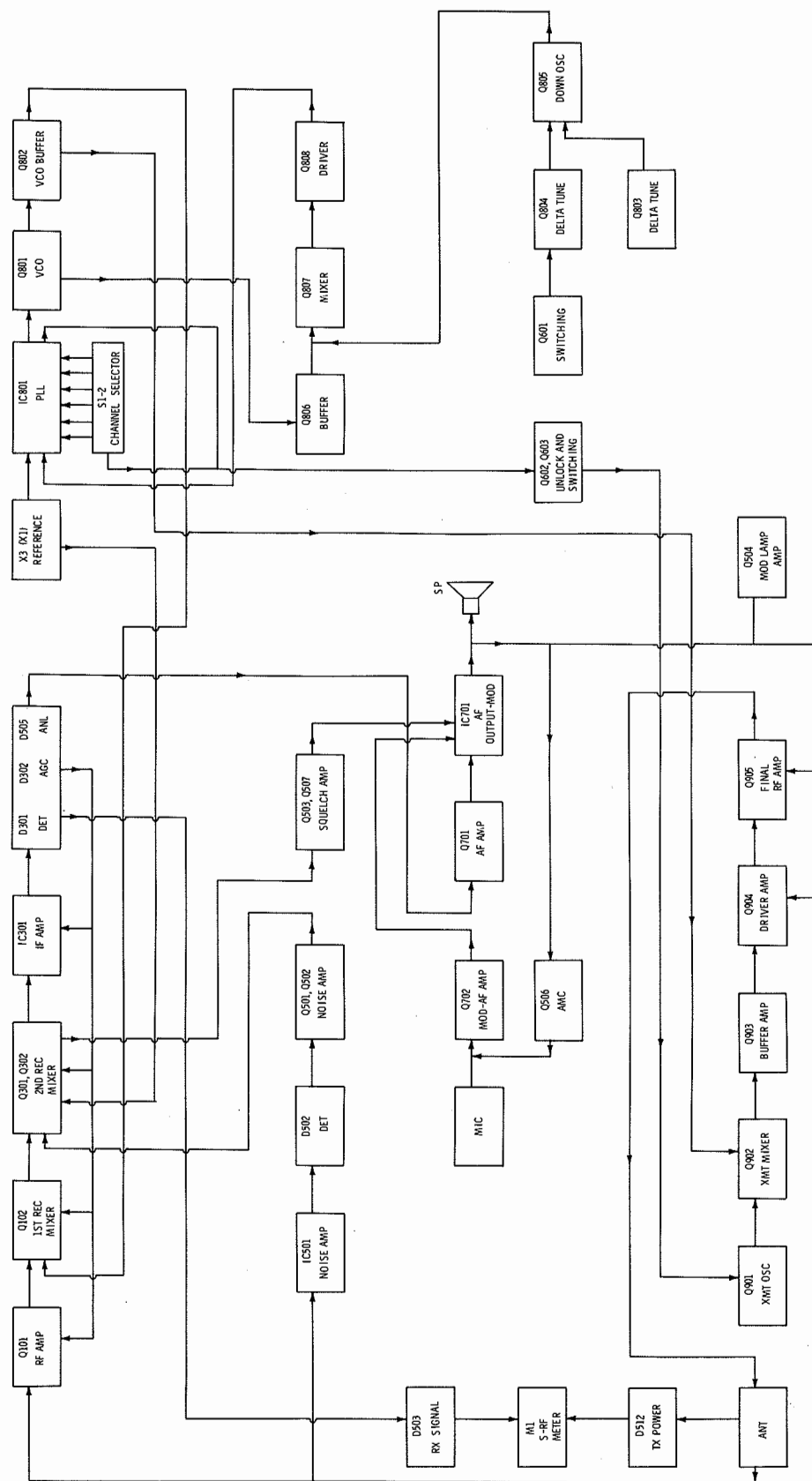
MAIN BOARD



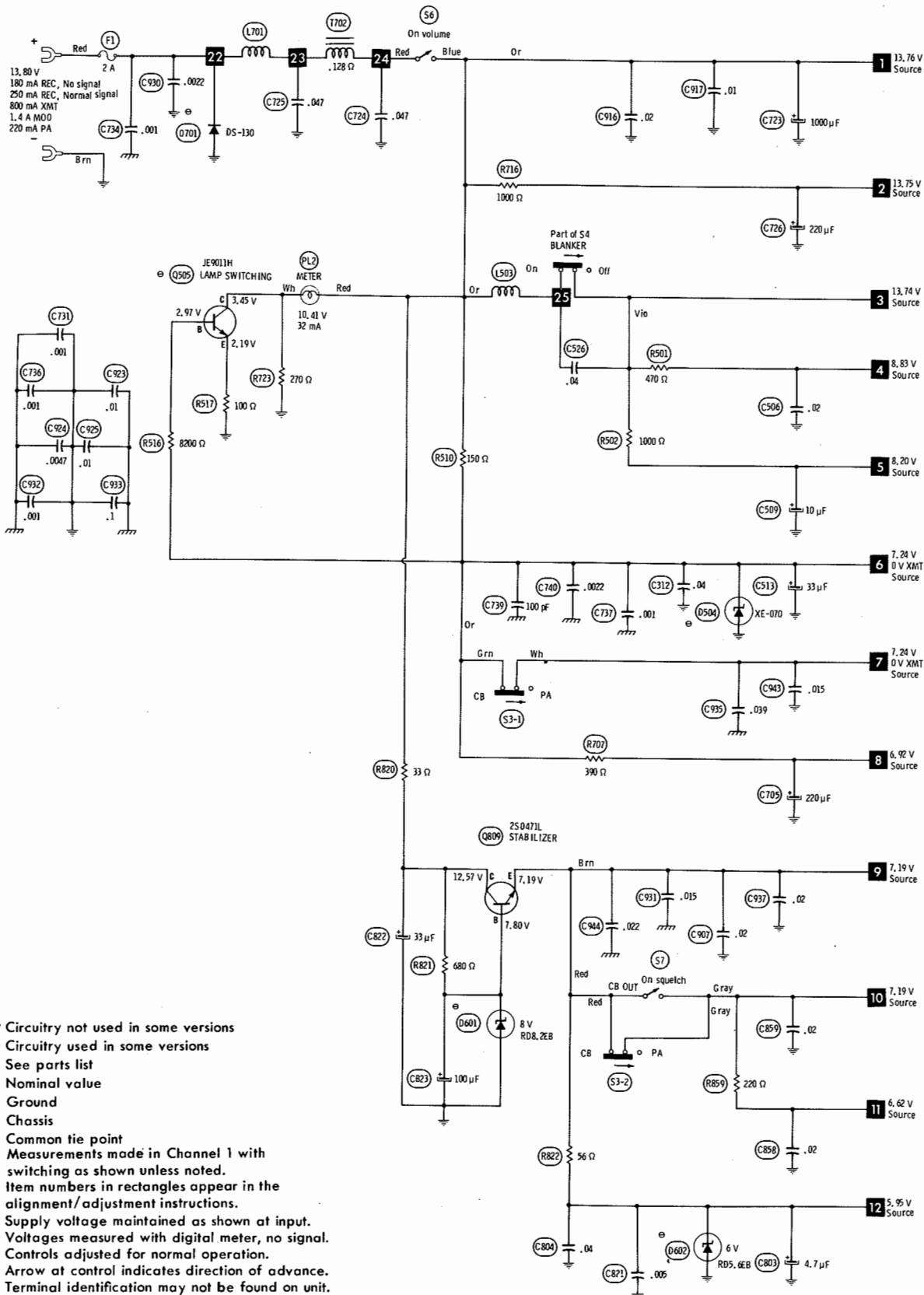
NB-PA BOARD



LED BOARD



BLOCK DIAGRAM



—* Circuitry not used in some versions

--- Circuitry used in some versions

⊕ See parts list

⊗ Nominal value

⊥ Ground

Chassis

▽ Common tie point

Measurements made in Channel 1 with switching as shown unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions.

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.

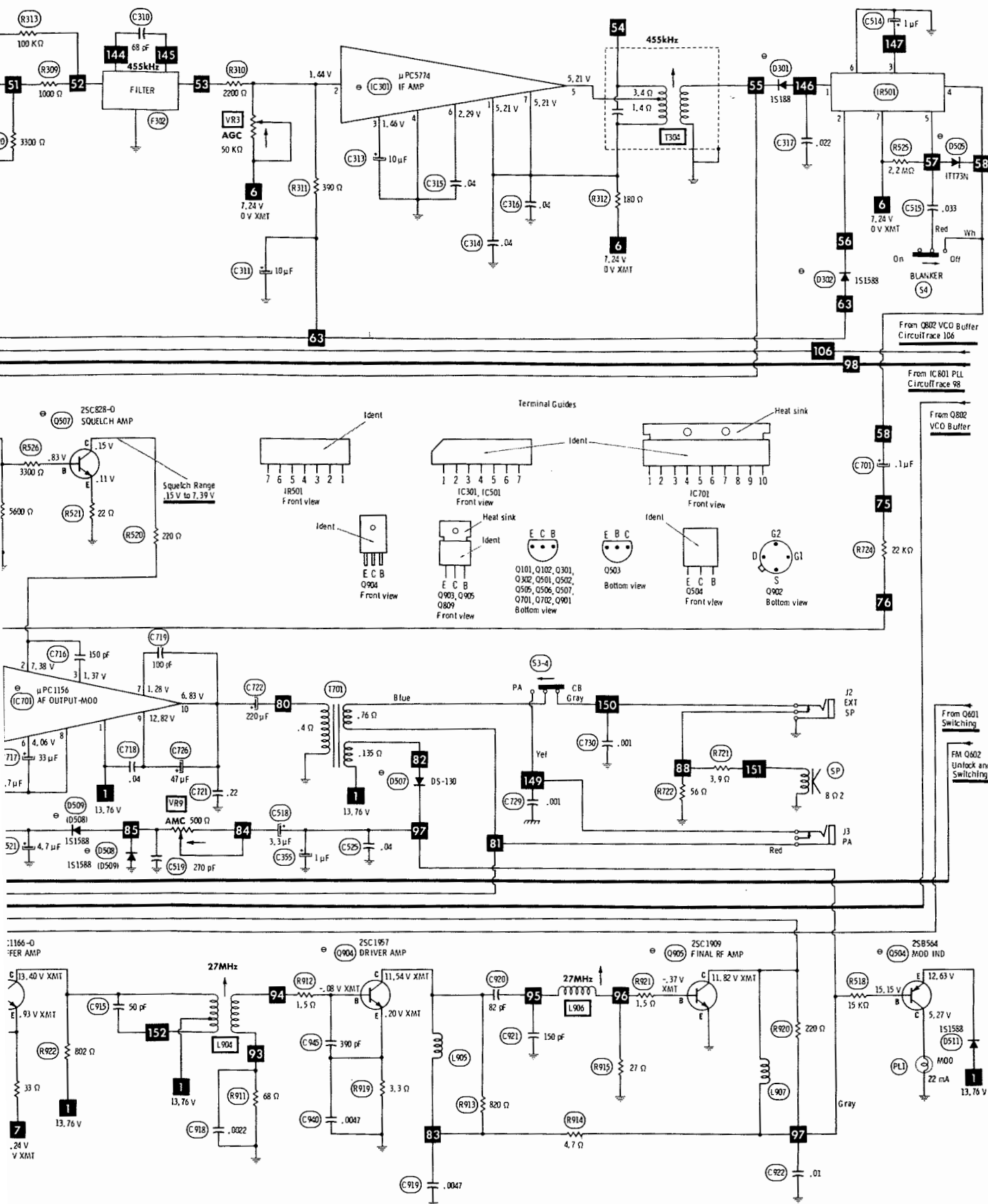
A PHOTOFACT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE®**

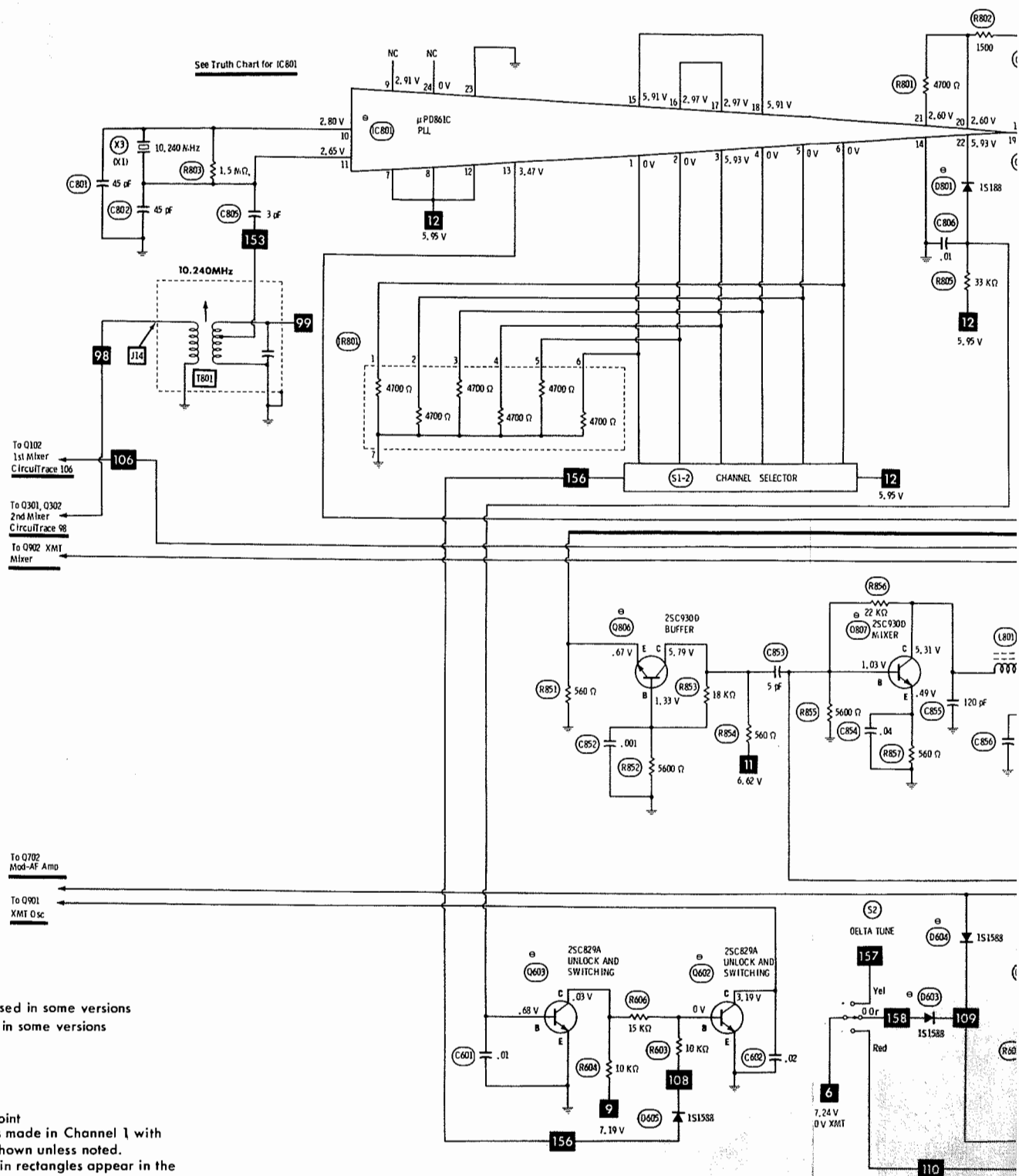
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REALISTIC MODEL TRC-424



- ✱ Circuitry not used in some versions
 - Circuitry used in some versions
 - ⊕ See parts list
 - ✱ Nominal value
 - ⊕ Ground
 - ⊕ Chassis
 - ▽ Common tie point
- Measurements made in Channel 1 with switching as shown unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. 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, Port Number, and Description.)

ITEM No.	TYPE No.	MFRG. PART No.	REPLACEMENT DATA										ZENITH PART No.
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.		
D101	1S188	DX-0734	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEPI34	ZEN-430	
D102	1S188AFM	DX-0273	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEPI34	ZEN-430	
	1S588	DX-0273	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S553	DX-0259	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
D301	1S553	DX-0735	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
	1T773N		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S2473		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
D302	1T773N	DX-0735	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
	1N4148		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S188	DX-0734	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEPI34	ZEN-430	
D501	1S188AFM	DX-0273	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEPI34	ZEN-430	
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S553	DX-0259	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
D502	1S553	DX-0735	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
	1T773N		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S2473		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
D503	1T773N	DX-0735	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
	1N4148		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S188	DX-0734	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEPI34	ZEN-430	
D504	1S188AFM	DX-0734	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEPI34	ZEN-430	
	1S1588	DX-0549	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S553	DX-0735	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
D505	1T773N	DX-0735	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
	1T773N		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S188	DX-0734	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEPI34	ZEN-430	
D506	1S188AFM	DX-0734	1N34AS	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109	1N34A	WEPI34	ZEN-430	
	1S1588	DX-0549	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEPI25		
	1S553	DX-0735	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEPI062		
D507	1T773N	DX-0735	GE-514	PTC214									

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (Select replacement transistor for best results) (cont)

ITEM No.	TYPE No.	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.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D701	DS-130 DS-130E 10D1	DX-0585 DX-0273 DX-0259 DX-0735	GE-504A GE-504A GE-504A GE-514 GE-300 GE-300 GE-514 GE-514 GE-300 GE-514 1N4148 1S188 1N60	PTC201 PTC201 PTC201 PTC214 PTC214 PTC214 PTC214 PTC214 PTC214 PTC214 PTC214 PTC207 PTC206	HEPR0052 HEPR0052 HEPR0052 HEPR0602 HEPR0602 HEPR0602 HEPR0602 HEPR0602 HEPR0602 HEPR0602 HEPR0602 HEPR9134A HEPR9135	RE 49 RE 49 RE 49 RE 52 RE 52 RE 52 RE 52 RE 52 RE 52 RE 52 RE 47 RE 47	SK3030 SK3030 SK3030 SK3100 SK3100 SK3100 SK3100 SK3100 SK3100 SK3100 SK3100 SK3087 SK3088	RT-213 RT-213 RT-213 RT-218 RT-218 RT-218 RT-218 RT-218 RT-218 RT-218 RT-218 RT-200 RT-263	ECG116 ECG116 ECG116 ECG519 ECG177 ECG177 ECG519 ECG519 ECG177 ECG519 ECG109 ECG109	1N4004 1N4004 1N4004 1N4148 1N4148 1N4148 1N4148 1N34A 1N60	WEP156 WEP156 WEP156 WEP925 WEP1062 WEP1062 WEP925 WEP925 WEP1062 WEP925 WEP134 WEP134	212-76 212-76 212-76 ZEN-430 ZEN-430
D802	SVCT01		GEIC-140	PTC781		RE 341-M			ECG1182	UPC577H	WEP939	
IC301	UPC577H		GEIC-92	PTC781		RE 344-M	SK3223	TVM-78	ECG1100	TA7061AP	WEP941	
IC501	TA7061AP		GEIC-92	PTC781		RE 344-M	SK3223	TVM-78	ECG1100	TA7061AP	WEP941	
IC701	UPC1156								ECG1194			
IC801	UPD861C											
Q101	2SC9300 2SC930 2SC930E		GE-60* GE-60* GE-60*	PTC132* PTC132* PTC132*	HEPS0016* HEPS0016* HEPS0016*	RE 9 RE 9 RE 9	SK3122* SK3122* SK3122*	RT-308 RT-308 RT-308	ECG229* ECG229* ECG229*	2SC930 2SC930 2SC930	WEP956* WEP956* WEP956*	ZEN-127 ZEN-127 ZEN-127
Q102	2SC1674K 2SC1674		GE-61 GE-61	PTC132* PTC132*	HEPS0010* HEPS0010*	RE 9* RE 9*	SK3275* SK3275*	RT-308 RT-308	ECG229* ECG229*		WEP956* WEP956*	ZEN-127 ZEN-127
Q301	2SC930D1 2SC930D2 2SC930		GE-60* GE-60* GE-60*	PTC132* PTC132* PTC132*	HEPS0016* HEPS0016* HEPS0016*	RE 9 RE 9 RE 9	SK3122* SK3122* SK3122*	RT-308 RT-308 RT-308	ECG229* ECG229* ECG229*	2SC930 2SC930 2SC930	WEP956* WEP956* WEP956*	ZEN-127 ZEN-127 ZEN-127
Q302	2SC930D1 2SC930D2 2SC930		GE-60* GE-60* GE-60*	PTC132* PTC132* PTC132*	HEPS0016* HEPS0016* HEPS0016*	RE 9 RE 9 RE 9	SK3122* SK3122* SK3122*	RT-308 RT-308 RT-308	ECG229* ECG229* ECG229*	2SC930 2SC930 2SC930	WEP956* WEP956* WEP956*	ZEN-127 ZEN-127 ZEN-127
Q501	2SC945AQ 2SC945 2SC536 2SC536E 2SC536F 2SC945Q		GE-212 GE-212 GE-212 GE-212 GE-212 GE-212	PTC121* PTC121* PTC121* PTC121* PTC121* PTC121*	HEPS0015* HEPS0015* HEPS0016* HEPS0016* HEPS0016* HEPS0016*	RE 192 RE 192 RE 192 RE 192 RE 192 RE 192	SK3124 SK3124 SK3122 SK3122 SK3122 SK3122	RT-107A RT-107A RT-107A RT-107A RT-107A RT-107A	ECG199 ECG199 ECG199 ECG199 ECG199 ECG199	2SC945 2SC945 2SC945 2SC945 2SC945 2SC945	WEP1945 WEP1945 WEP536 WEP536 WEP536 WEP536	121-29000 121-29000 ZEN-119 ZEN-119 ZEN-119 ZEN-119
Q502	2SC945AQ 2SC945 2SC536 2SC536E 2SC536F 2SC945Q		GE-212 GE-212 GE-212 GE-212 GE-212 GE-212	PTC121* PTC121* PTC121* PTC121* PTC121* PTC121*	HEPS0015* HEPS0015* HEPS0016* HEPS0016* HEPS0016* HEPS0016*	RE 192 RE 192 RE 192 RE 192 RE 192 RE 192	SK3124 SK3124 SK3122 SK3122 SK3122 SK3122	RT-107A RT-107A RT-107A RT-107A RT-107A RT-107A	ECG199 ECG199 ECG199 ECG199 ECG199 ECG199	2SC945 2SC945 2SC945 2SC945 2SC945 2SC945	WEP1945 WEP1945 WEP536 WEP536 WEP536 WEP536	121-29000 121-29000 ZEN-119 ZEN-119 ZEN-119 ZEN-119
Q503	JE9015B JE9015 2SA733 2SA733Q 2SA733A 2SB564 2SD564M 2SD564L		GE-48 GE-48 GE-48 GE-48 GE-48 GE-67* GE-67* GE-67*	PTC103* PTC103* PTC103* PTC103* PTC103* PTC177 PTC177 PTC177	HEPS0019* HEPS0019* HEPS0019* HEPS0019* HEPS0019* HEPS3032* HEPS3032* HEPS3032*	RE 219 RE 219 RE 219 RE 219 RE 219 RE 197* RE 197* RE 197*	SK3138 SK3138 SK3138 SK3138 SK3138 SK3114 SK3114 SK3114	RT-303 RT-303 RT-303 RT-303 RT-303 RT-115* RT-115* RT-115*	ECG294 ECG294 ECG294 ECG294 ECG294 ECG193* ECG193* ECG193*	2SA733 2SA733 2SA733 2SA733 2SA733 	WEP1945 WEP1945 WEP1945 WEP1945 WEP1945 WEP242* WEP242* WEP242*	121-29000 121-29000 ZEN-119 ZEN-119 ZEN-119 921-383* 921-383* 921-383*
Q504	2SD564M 2SD564L JE9011H 2SC536 2SC536E 2SC829A 2SC829B		GE-210 GE-212 GE-212 GE-212 GE-212 GE-20* GE-20*	PTC179 PTC121* PTC121* PTC121* PTC121* PTC121* PTC121*	HEPS3004 HEPS0016* HEPS0016* HEPS0016* HEPS0016* HEPS0015* HEPS0015*	RE 79A RE 192 RE 192 RE 192 RE 192 RE 9* RE 9*	SK3047 SK3122 SK3122 SK3122 SK3122 SK3444 SK3444	RT-102A RT-107A RT-107A RT-107A RT-107A RT-308 RT-308	ECG195A ECG199 ECG199 ECG199 ECG199 ECG229* ECG229*	2SC829A 2SC829A 2SC829A 2SC829A 2SC829A 2SC829 2SC829	WEP1945 WEP1945 WEP1945 WEP1945 WEP1945 WEP829 WEP829	121-29000 121-29000 ZEN-119 ZEN-119 ZEN-119 ZEN-127 ZEN-127
Q505	2SC372Y 2SC372-0 2SC945R 2SC945Q 2SC828-0 2SC828P 2SC828Q 2SC828R JE9011Q JE9011H JE9011I		GE-61* GE-61* GE-212 GE-212 GE-61* GE-61* GE-61* GE-61* GE-210 GE-210 GE-210	PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC179 PTC179 PTC179	HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS3004 HEPS3004 HEPS3004	RE 13* RE 13* RE 192 RE 192 RE 192 RE 192 RE 192 RE 192 RE 79A RE 79A RE 79A	SK3444 SK3444 SK3124 SK3124 SK3444 SK3444 SK3444 SK3444 SK3047 SK3047 SK3047	RT-308 RT-308 RT-107A RT-107A RT-302 RT-302 RT-302 RT-302 RT-102A RT-102A RT-102A	ECG123A* ECG123A* ECG199 ECG199 ECG199 ECG199 ECG199 ECG199 ECG195A ECG195A ECG195A	2SC372 2SC372 2SC945 2SC945 2SC828 2SC828 2SC828 2SC828 	WEP372 WEP372 WEP1945 WEP1945 WEP828 WEP828 WEP828 WEP828 WEP755 WEP755 WEP755	ZEN-114 ZEN-114 121-29000 121-29000 ZEN-119 ZEN-119 ZEN-119 ZEN-119 ZEN-120 ZEN-120 ZEN-120
Q506	2SC536E 2SC536 2SC828-0 2SC829 2SC536 2SC829A 2SC829B 2SC829C 2SC536E 2SC536F 2SC536G 2SC945R 2SC945Q 2SC945P 2SC372Y 2SC372-0 2SC828P 2SC828Q 2SC828R JE9011H JE9011I		GE-212 GE-212 GE-61* GE-20* GE-212 GE-20* GE-20* GE-20* GE-212 GE-212 GE-212 GE-212 GE-212 GE-212 GE-61* GE-61* GE-61* GE-61* GE-61* GE-210* GE-210*	PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC179 PTC179	HEPS0016* HEPS0016* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0016* HEPS0016* HEPS0016* HEPS0016* HEPS0016* HEPS0016* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS3004 HEPS3004	RE 192 RE 192 RE 192 RE 9* RE 192 RE 9* RE 9* RE 9* RE 192 RE 192 RE 192 RE 192 RE 192 RE 192 RE 13* RE 13* RE 192 RE 192 RE 192 RE 79A RE 79A	SK3122 SK3122 SK3444 SK3444 SK3122 SK3444 SK3444 SK3444 SK3122 SK3122 SK3122 SK3122 SK3122 SK3122 SK3444 SK3444 SK3444 SK3444 SK3047 SK3047	RT-107A RT-107A RT-302 RT-308 RT-107A RT-308 RT-308 RT-308 RT-107A RT-107A RT-107A RT-107A RT-107A RT-107A RT-308 RT-308 RT-302 RT-302 RT-102A RT-102A	ECG199 ECG199 ECG199 ECG229* ECG199 ECG229* ECG229* ECG229* ECG199 ECG199 ECG199 ECG199 ECG199 ECG199 ECG123A* ECG123A* ECG199 ECG199 ECG195A ECG195A	2SC945 2SC945 2SC828 2SC829 2SC945 2SC829 2SC829 2SC829 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945 2SC372 2SC372 2SC828 2SC828 2SC828 	WEP536 WEP536 WEP828 WEP829 WEP536 WEP829 WEP829 WEP829 WEP536 WEP536 WEP536 WEP536 WEP536 WEP536 WEP372 WEP372 WEP828 WEP828 WEP828 WEP755	ZEN-119 ZEN-119 ZEN-119 ZEN-127 ZEN-119 ZEN-127 ZEN-127 ZEN-127 ZEN-119 ZEN-119 ZEN-119 ZEN-119 ZEN-119 ZEN-119 ZEN-114 ZEN-114 ZEN-119 ZEN-119 ZEN-120 ZEN-120
Q601	2SC536 2SC536E 2SC829A 2SC829B 2SC372Y 2SC372-0 2SC945R 2SC945Q 2SC828-0 2SC828P 2SC828Q 2SC828R JE9011H JE9011I		GE-212 GE-212 GE-20* GE-20* GE-61* GE-61* GE-212 GE-212 GE-61* GE-61* GE-61* GE-61* GE-210* GE-210*	PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC121* PTC179 PTC179	HEPS0016* HEPS0016* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS0015* HEPS3004 HEPS3004	RE 192 RE 192 RE 9* RE 9* RE 13* RE 13* RE 192 RE 192 RE 192 RE 192 RE 192 RE 192 RE 79A RE 79A	SK3122 SK3122 SK3444 SK3444 SK3444 SK3444 SK3122 SK3122 SK3124 SK3124 SK3124 SK3124 SK3047 SK3047	RT-107A RT-107A RT-308 RT-308 RT-308 RT-308 RT-107A RT-107A RT-107A RT-107A RT-107A RT-107A RT-102A RT-102A	ECG199 ECG199 ECG229* ECG229* ECG199 ECG199 ECG199 ECG199 ECG199 ECG199 ECG199 ECG195A ECG195A	2SC945 2SC945 2SC829 2SC829 2SC372 2SC372 2SC945 2SC945 2SC828 2SC828 2SC828 2SC828 	WEP536 WEP536 WEP829 WEP829 WEP372 WEP372 WEP1945 WEP1945 WEP828 WEP828 WEP828 WEP828 WEP755 WEP755	ZEN-119 ZEN-119 ZEN-127 ZEN-127 ZEN-114 ZEN-114 121-29000 121-29000 ZEN-119 ZEN-119 ZEN-120 ZEN-120 ZEN-120 ZEN-120

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

REPLACEMENT DATA			

REALISTIC MODEL TRC-424

* Lead configuration may vary from original.
(12) 10 WATT @ 3.0 AMP.

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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.	
						Q-LINE	GENERAL LINE
C101	27 N220 5%	R-CK0270J			*		10TCR-Q27
C102	15 N220	R-CK0150J			*		10TCR-Q15
C103	.02		UK50-223		MAG5012		
C104	.02		UK50-223		MAG5012		
C105	82 N220 5%	R-CKD203Z			*		10TCR-Q82
C106	.02		UK50-223		MAG5012		
C107	.02		UK50-223		MAG5012		
C108	27				CN0427		10TCC-Q27
C301	.02		UK50-223		MAG5012		
C302	.02		UK50-223		MAG5012		
C303	30 N220 5%	R-CK0300J			*		10TCR-Q30
C304	1				CN0510		10TCC-V10
C305	.033 5%				M192P3339R8	QFT2-149	1FT-S33
C307	.033 5%				M192P3339R8	QFT2-149	1FT-S33
C308	500			CD15FD511J03	SX351	QW1-43	MMA-511
C309	.033 5%				M192P3339R8	QFT2-149	1FT-S33
C310	68 5%		OTZ-68	NP068	CN0468		10TCC-Q68
C312	.04				GP140		5GA-S40
C314	.04				GP140		5GA-S40
C315	.04				GP140		5GA-S40
C316	.04				GP140		5GA-S40
C317	.022				M192P2239R8	QFT2-127	1FT-S22
C318	82		DTZ-82	NP082	CN0482		10TCC-Q82
C319	82		OTZ-82	NP082	CN0482		10TCC-Q82
C320	15 N220	R-CKD150J			*		10TCR-Q15
C321	.01		UK25-103		MAG2511		HY-520
C501	35		OTZ-33	NP033	CN0433		10TCC-Q33
C502	.02		UK50-223		MAG5012		
C503	.02		UK50-223		MAG5012		
C504	.02		UK50-223		MAG5012		
C505	150 5%		OTZ-150		CN0315		10TCC-T15
C506	.02		UK50-223		MAG5012		
C507	.0022				GP222		10TS-D22
C508	.01			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C510	.01		UK50-103		MAG5011		
C512	.04				GP140		5GA-S40
C515	.033				M192P3339R8	QFT2-149	1FT-S33
C519	270 5%		DTZ-270		MAG5012		10TCC-T27
C522	.02		UK50-223		CN0533		
C523	3		DTZ-3R3	NP03P3	MAG5011		10TCC-V33
C524	.01		UK50-103		GP140		5GA-S40
C525	.04				GP140		5GA-S40
C526	.04				GP140		
C527	.01		UK50-103		MAG5011		
C601	.01		UK50-103		MAG5011		
C602	.02		UK50-223		MAG5012		
C702	.039				M192P3939R8	QFT2-159	1FT-S39
C707	.01		UK50-103		MAG5011		
C709	.01		UK50-103		MAG5011		
C710	.022				M192P2239R8	QFT2-127	1FT-S22
C711	.039				M192P3939R8	QFT2-159	1FT-S39
C713	.001		DD-102		GP210		10TS-D10
C714	.068			WMF1S68	EWFA1168	QF1-195	1PB-S68
C716	150 5%		DTZ-150		CN0315		10TCC-T15
C718	.04				M192P3939R8	QFT2-159	1FT-S39
C719	100 5%		OTZ-100	NP0100	CN0310		10TCC-T10
C721	.22			WMF05P22	EWFO5022	QFT2-253	1FT-P22
C724	.047		UK50-503		MAG5015		
C725	.047		UK50-503		MAG5015		
C727	.0047		DD-472	GP4700	GP247		5GA-D47
C728	.0022				GP222		10TS-D22
C729	.001		DD-102		GP210		10TS-D10
C730	.001		DD-102		GP210		10TS-D10
C731	.001		DD-102		GP210		10TS-D10
C732	.01		UK50-103		MAG5011		
C734	.001		UK50-103		MAG5011		
C736	.001		UK50-103		MAG5011		
C737	.001		UK50-103		MAG5011		
C738	.001		UK50-103		MAG5011		
C739	100 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C740	.0022				GP222		10TS-D22
C741	.001		UK50-103		MAG5011		
C801	45 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C802	45 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C804	.04				GP140		5GA-S40
C805	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C806	.01			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C812	.01			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C813	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C814	12				CN0412		10TCC-Q12
C815	22 N470	R-CKD220J			*		10TCT-Q22
C816	40				CN0439		10TCC-Q39
C817	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C818	6		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C819	.002				GP220		10TS-D20
C820	60 5%		DTZ-68	NP068	CN0468		10TCC-Q68
C821	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C831	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C832	100 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C833	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C834	30		DTZ-33	NP033	CN0433		10TCC-Q33
C835	50 5%		DTZ-50	NP050	CN0450		10TCC-Q50
C836	200 5%		DTZ-200				10TCC-T20
C837	25 NP0		DTZ-25	NP025	CN0425		10TCC-Q25
C838	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C839	10		DTZ-10	NP010	CN0410		10TCC-Q10
C840	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C841	35				CN0439		10TCC-Q39
C851	10		DTZ-10	NP010	CN0410		10TCC-Q10

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				PART No.
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE	
C852	.001		DD-102		GP210		10TS-D10
C853	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C854	.04				GP140		5GA-S40
C855	120 5%		DTZ-120		CN0312		10TCC-T12
C856	120		DTZ-120		CN0312		10TCC-T12
C857	.02		UK50-223		MAG5012		
C858	.02		UK50-223		MAG5012		
C859	.02		UK50-223		MAG5012		
C901	390 5%		00-391	GP390	GP339		10TS-T39
C902	17				CN0418		10TCC-Q18
C903	150 5%		DTZ-150		CN0315		10TCC-T15
C904	.001		00-102		GP210		10TS-D10
C905	.001		00-102		GP210		10TS-D10
C906	20 N220 5%	R-CK0200J					10TCR-Q20
C907	.02		UK50-223		MAG5012		
C908	150 N220 5%	R-CK0151J			*		10TCR-T15
C909	150 N220 5%	R-CK0151J			*		10TCR-T15
C910	50 N220 5%	R-CK0151J			*		10TCR-Q50
C911	4		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C912	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C913	.0022				GP222		10TS-D22
C914	.01		UK50-103		MAG5011		
C915	50 N220 5%	R-CK0500J			*		10TCR-Q50
C916	.02		UK50-223		MAG5012		
C917	.01		UK50-103		MAG5011		
C918	.022		0C-253	MGP025	TA125		TG-S25
C919	.0047		00-472	GP4700	GP247		5GA-D47
C920	82 N220 5%	R-CK0820J			*		10TCR-Q82
C921	150 N220 5%	R-CK0151J			*		10TCR-T15
C922	.01		UK50-103		MAG5011		
C923	.01		UK50-103		MAG5011		
C924	.0047		00-472	GP4700	GP247		5GA-D47
C925	.01		UK50-103		MAG5011		
C926	300 5%		00-301	GP300	GP330		10TS-T30
C927	.0022				GP222		10TS-D22
C928	270 5%		DTZ-270				10TCC-T27
C930	.0022				GP222		10TS-D22
C931	.015				M192P1539R8	QFT2-105	1FT-S15
C932	.001		00-102		GP210		10TS-D10
C933	.1			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C935	.039				M192P3939R8	QFT2-159	1FT-S39
C936	120 5%		DTZ-120		CN0312		10TCC-T12
C937	.02		UK50-223		MAG5012		
C939	.0022				GP222		10TS-D22
C940	.0047		00-472	GP4700	GP247		5GA-D47
C941	.01		UK50-103		MAG5011		
C943	.015				M192P1539R8	QFT2-105	1FT-S15
C944	.022		0C-253	MGP025	TA125		TG-S25
C945	390 5%		00-391	GP390	GP339		10TS-T39
C946	50 5%		DTZ-50	NP050	CN0450		10TCC-Q50
CT801	30	C-0724					

* 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	RESISTANCE	REPLACEMENT DATA				TRW PART No.
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	
VR1	RF Gain Range	100K	4-222R79578				U260R1048
VR2	RF Gain	100K	4-222R537				
VR3	AGC	50K	4-222R79577				U260R5038
VR4	RX Signal	5000	4-222R79574				U260R5028
VR5	Squelch	10K	4-222R555				
VR6	Squelch Range	20K	4-222R79576				U260R2538
VR7	TX Power	50K	4-222R79577				U260R5038
VR8-1	Volume	50K	4-22R530(18)				
VR8-2	Volume/PA Switch	50K					
VR9	AMC	500	4-22R79571				U260R5018

(18) Includes VR8-1, VR8-2 and S6.

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.
IR501	Resistor Network		RX-0034	TH301	13K Cold NTC		S0T-100
IR801	Resistor Network		RX-0035(1)				

(1) Consists of six 4700 ohm Resistors

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
F901	TVI Trap (54MHz)	C-0778			
L101	Antenna (27MHz)	CA-3379			
L102	RF (27MHz)	CA-4498			
L501	RF (18.920MHz)	CA-4773			
L502	RF (18.920MHz)	CA-4498			
L503	RF Choke	CB-2209			
L701	RF Choke	CB-2307			
L801	RF Choke (56uH)	CB-2308			
L802	Down Osc	CA-4780			
L901	XMT Mixer	CA-4774			
L902	XMT Mixer	CA-4774			
L903	RF (27MHz)	CA-4776			
L904	Buffer (27MHz)	CA-4715			

REALISTIC MODEL TRC-424

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF) (cont)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L905	Driver	4-253R709		74F186AP	
L906	Final (27MHz)	CA-4777			
L907	VHF	CA-3377			
L908	VHF	CA-3378			
L909	RF (27MHz)	CA-4778			
L910	Ant. Matching	CA-4845			
L911	XMT Osc (9.785MHz)	CA-4781			
T301	Mixer (9.785MHz)	CA-7348		CBS509-1TC	
T302	Mixer (9.785MHz)	CA-7538			
T303	IF (455kHz)	CA-7537	CA-7539		
T304	IF (455kHz)	CA-7540			
T801	PLL (10.24MHz)	CA-4846		8535	
T802	VCO	CA-4777	CA-4779		
T803	VCO Buffer (27MHz)	CA-4782			

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.	
T702	1400mA	.128	1.3mH	CB-2306 R810 (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.	
T701	8	1 18 2 72	TD-0110 4R809 (1)			(1) Number on Unit

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3 1/2" PM 8 ohms	4-151R801	3C3Z8U	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA							WORKMAN PART No.
		PART No.		BUSS PART No.		LITTELFUSE PART No.			
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER		
F1	2A Quick Acting	4-234R809	176-2-383R105B	AGC 2	HDJ	312002	150145	F62-2	

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	4-153R804	18-032	18-034	18-010	18-105	4	1	3	5	NC	1

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
J1	Jack	J-0833	Antenna Receptacle
J2	Jack	J-0700	Ext. Speaker
J3	Jack	J-0700	PA
J4	Jack	J-6456	Microphone (Includes S5)
M1	Meter	M-0328	S/R
PL1	Lamp	L-0659	Mod 5.20V @ 22mA
PL2	Lamp	L-0769	Meter 10.41V @ 32mA
S1	Switch	4-231R523	Channel Selector
S2	Switch	4-231R22071A	Delta Tune
S3	Switch	4-231R814	PA/CB
S4	Switch	4-231R814	Blanker
S5	Switch		XMT/REC (Part of J4)
S6	Switch		Power (Part of Volume Control)
X1	Crystal	MX-2307	(10.240MHz)
X2	Crystal	MX-2308	(11.596MHz)
X3	Crystal	MX-2306	(9.785MHz)
	Printed Circuit Board	X-7408	Main
	Printed Circuit Board	X-7409	Switch
	Printed Circuit Board	X-7410	LED Assembly

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

ITEM	PART No.	ITEM	PART No.
Bottom Lid Assembly	Z-3459	Knob (Channel Selector)	K-0042
Front Panel Assembly	Z-3460	Knob (Vol Squealch, RF Gain)	K-1989

WIRING DATA

General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded) 23AWG	BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672		28AWG BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106		31AWG BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded) 23AWG	BELDEN No. 8415 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')