



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 D42

MANUFACTURER'S SPECIFICATIONS

TRANSMITTER

Full Carrier:	4.0 watts
Modulation Capability:	100%
Harmonic Suppression and Spurious Emissions:	Better than FCC requirement.
Frequency Response:	300 to 3000 Hz.

RECEIVER

Sensitivity:	.3 μ V provides more than 1 watt audio, with gain control full and noise blanker off. Signal mod. 30% @ 1kHz sine wave.
Signal to Noise Ratio:	.3 μ V for 10db S+N/N, signal mod 30% @ 1kHz sine wave.
Selectivity:	6db @ 4kHz, 60db @ 20kHz.
AGC:	Change in audio output less than 12db from 10 μ V to 5 volts.
Squelch:	Adjustable. Threshold less than .5 μ V. Tight more than 200 μ V.
Audio Frequency Response:	500 to 2000Hz.
Distortion:	Less than 10% at 5.0 watts output.
Image Rejection:	More than 50db.
IF Rejection:	More than 80db at 455kHz, 60db. 4.665MHz.
Adjacent Channel Rejection:	More than 60db @ .3 μ V.
Cross Modulation:	More than 55db.
IF Frequency:	4.665MHz & 455kHz.
Delta Tune:	$\pm$ 1.5kHz.
Noise Blanker:	RF parallel gate type (hybrid IC). plus series gate ANL.

Courtesy of the Manufacturer

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

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TRAM MODEL D42

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:

G.C. Electronics
L3, L13, T4, thru T13 5009, 8728-A, 8728
L4, L5, L11, L12, L14, T1, T2, T3, T9 9440
C173 8276, 5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP11 (IC8, Pin 3)	Ch. 19		Check for 5.120MHz.
Input of oscilloscope to TP3	Ch. 19	T13	Adjust for maximum RF output of 5.120MHz.
Input of frequency counter to TP12 (Q38, Emitter).	Ch. 19, Delta Tune Midrange	L14	Adjust for 10.825MHz.
Input of DC meter to TP13 (IC7, Pin 1).	Ch. 1 Delta Tune Midrange	L12	Adjust for 2.50 volts.
Input of oscilloscope to TP14 (IC7, Pin 8)	Ch. 19, Delta Tune Midrange	L13	Adjust for symmetrical sinewave.
Input of frequency counter to TP15 (Q34, Emitter).	Ch. 1, Delta Tune Midrange		Check for 22.300MHz. If necessary readjust L14 for 22.300MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP16 (Q37, Emitter)	Ch. 19, XMT	C173	Adjust for 13.157MHz.
Input of DC meter to TP13 (IC7, Pin 1).	Ch. 1, XMT	L11	Adjust for 1.85 volts.
Input of frequency counter to TP15 (Q34, Emitter).	Ch. 1, XMT		Check for 26.965MHz. If necessary readjust L11 for 26.965MHz. Check all channels (See Truth Chart for correct frequencies.)
Input of frequency counter to TP10	Ch. 1		Check for .650MHz. Check all channels. (See Truth Chart for correct frequencies.)

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 TP3. 455kHz, 1000Hz @ 30% modulation.	Ch. 19 Delta Tune Midrange RF Gain Maximum ANL Off NB Off	T8, T7, T6	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, Delta Tune Midrange RF Gain Maximum ANL Off NB Off	T5, T4, T3, T2, T1	Adjust for maximum output. If necessary readjust T6, T7, and T8.

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
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 Delta Tune Midrange RF Gain Maximum ANL Off NB Off	R60	SQUELCH RANGE Set squelch control R61 fully clockwise. Adjust R60 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19, Delta Tune Midrange RF Gain Maximum ANL Off NB Off	R28	S METER Adjust for 9 on S scale of meter.

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
	Ch. 19	T9,L4,L5,L3	Adjust for maximum.
	Ch. 19	L5	Adjust for 4 watts maximum.

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.

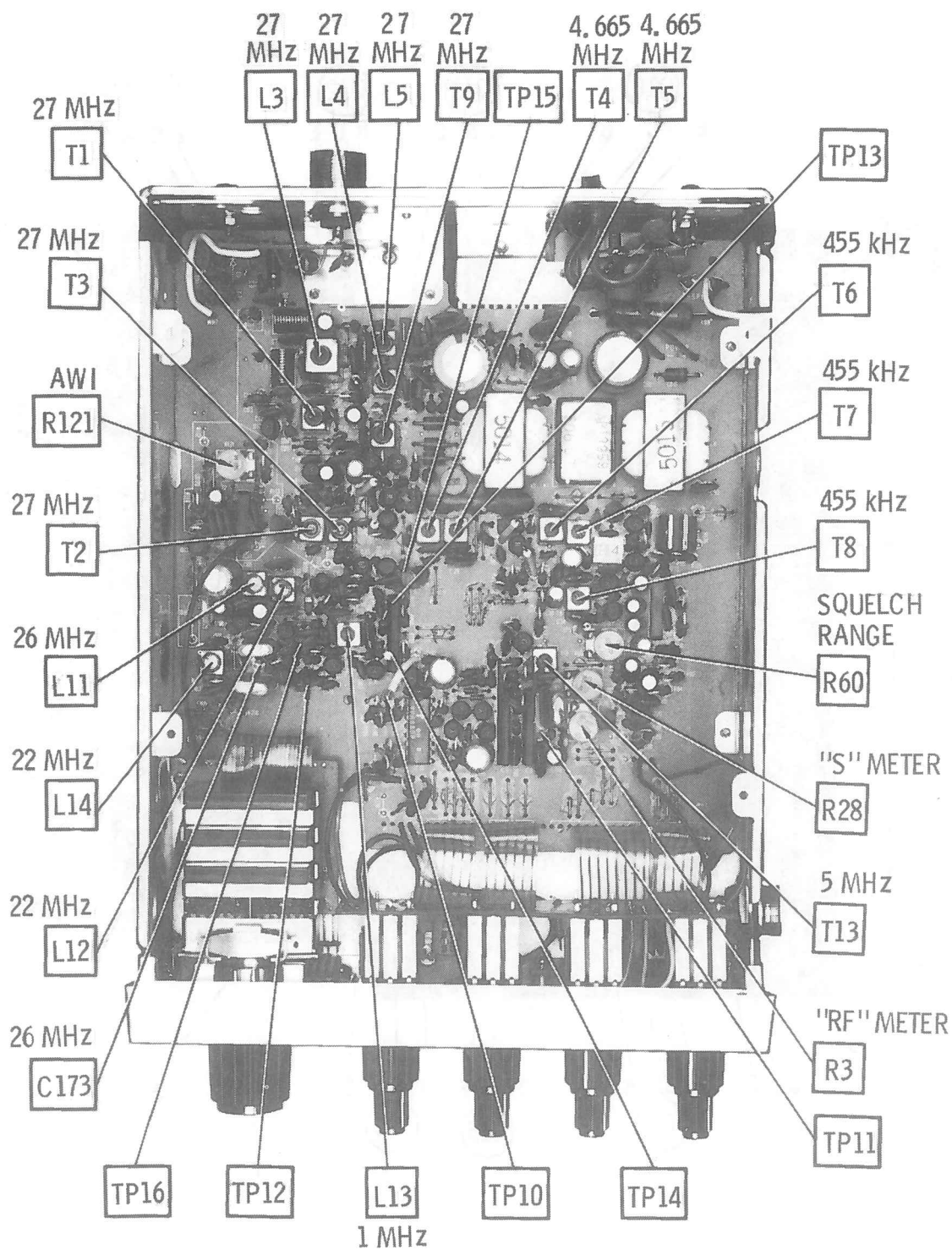
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Connect a 250 ohm, 5 watt non-inductive resistor to antenna jack	Ch. 19	R3	RF PANEL METER Adjust so that RF panel meter agrees with RF wattmeter.
	Ch. 19	R121	AWI Adjust so that AWI indicator just lights.

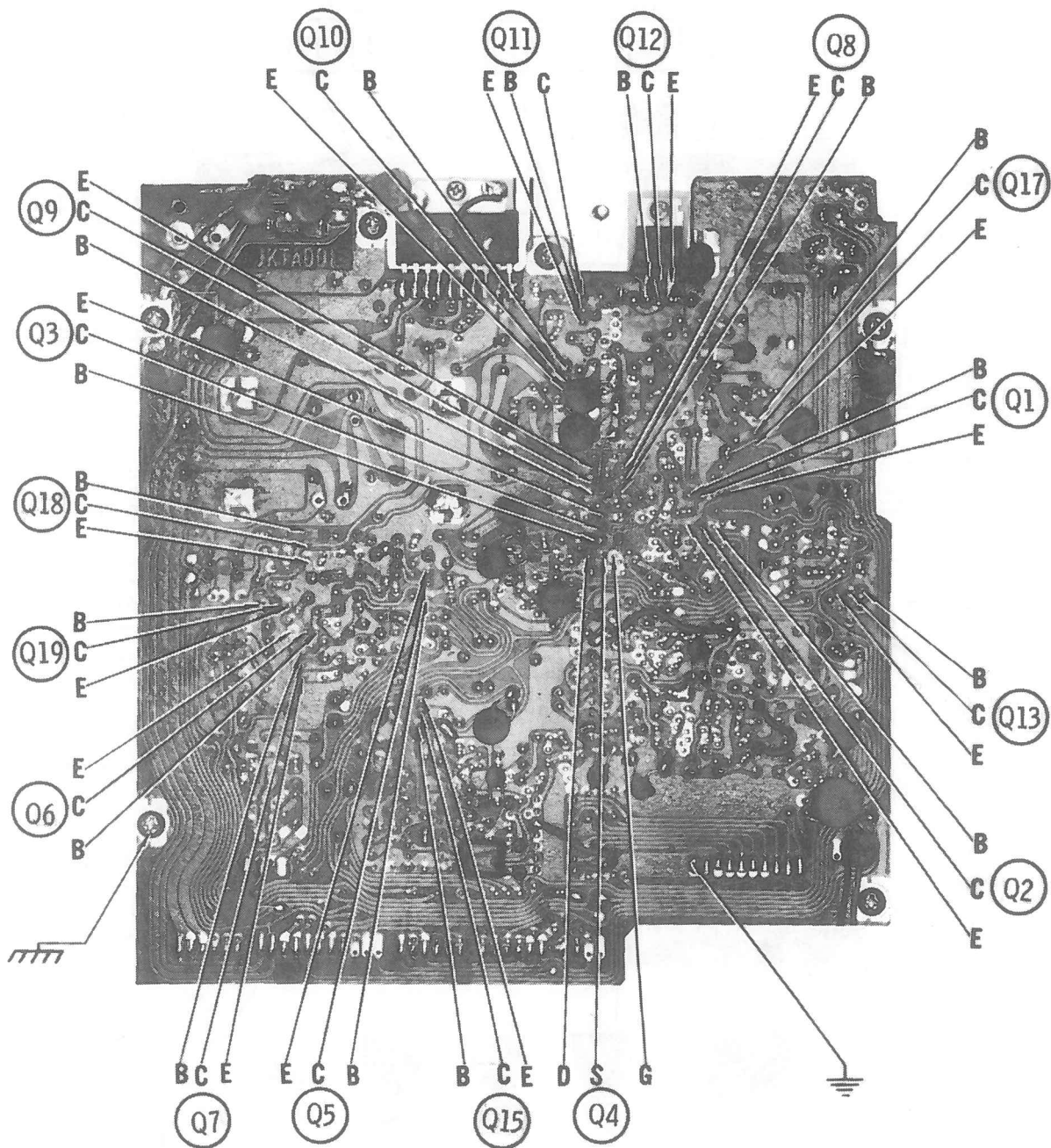
TRAM MODEL D42

TRUTH CHART

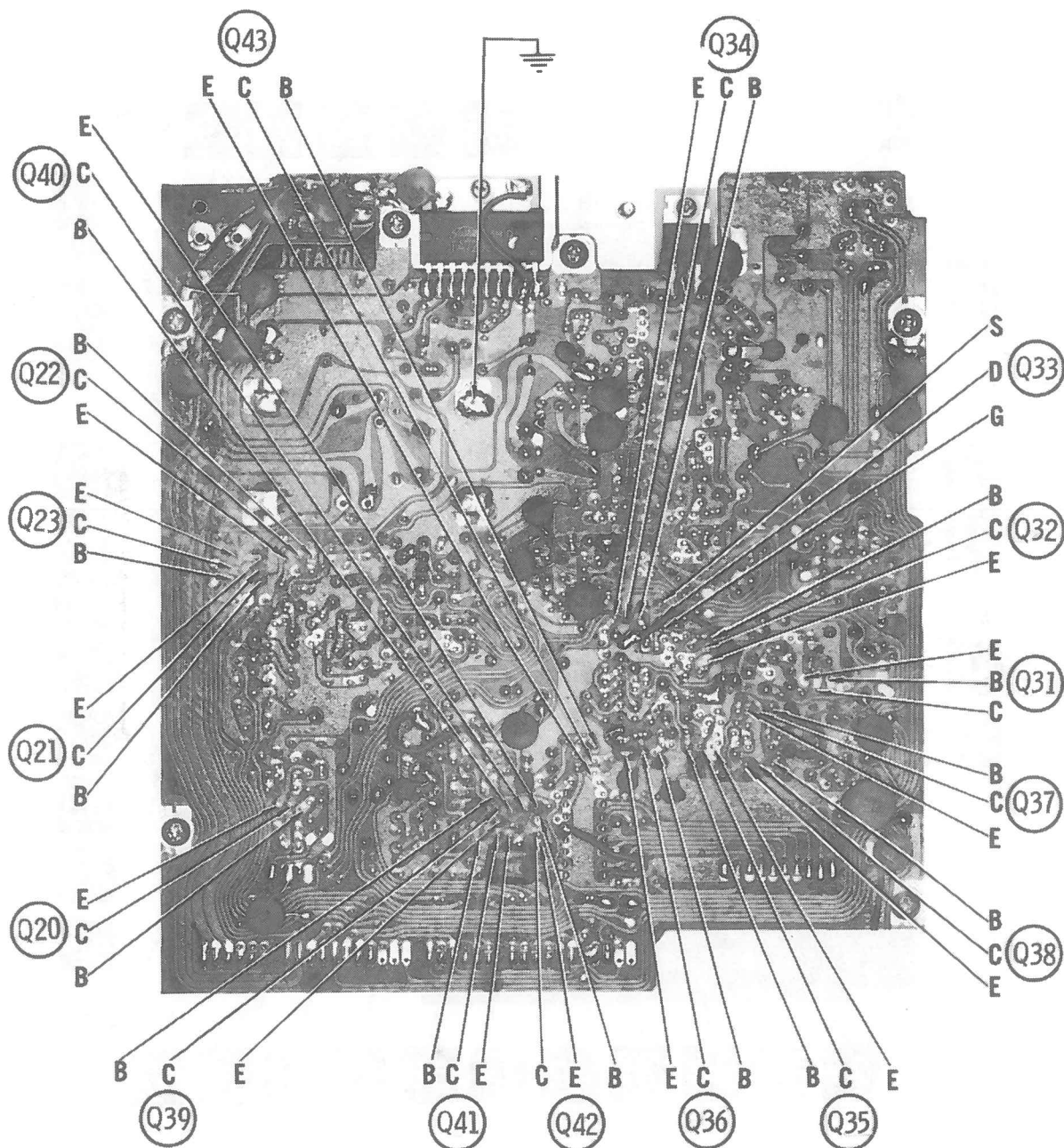
C H A N N E L	1 = 7.96 Volts 0 = 0 Volts IC10 PROGRAM DIVIDER								REC VCO OUTPUT IN MHz AT AT TP15	XMT VCO OUTPUT IN MHz AT AT TP15	REC & XMT VCM OUTPUT IN MHz AT ATTP10
	PINS										
	8	7	6	5	4	3	2				
1	1	0	0	0	0	0	1		26.450	26.6	.650
2	1	0	0	0	0	1	0		26.350	26.175	.660
3	1	0	0	0	0	1	1		26.320	26.385	.670
4	1	0	0	0	1	0	1		26.490	27.005	.690
5	1	0	0	0	1	1	0		22.350	27.1	.100
6	1	0	0	0	1	1	1		22.6	7.025	.710
7	1	0	0	1	0	0	0		22.370	7.035	.720
8	1	0	0	1	0	1	0		22.9	7.055	.740
9	1	0	0	1	0	1	1		22.4	7.065	.750
10	1	0	0	1	1	0	0		22.1	7.075	.760
11	1	0	0	1	1	0	1		2.450	26.5	.770
12	1	0	0	1	1	1	1		2.44	27.1	.790
13	1	0	1	0	0	0	0		22.490	27.1	.800
14	1	0	1	0	0	0	1		22.450	27.125	.810
15	1	0	1	0	0	1	0		22.470	27.1	.820
16	1	0	1	0	1	0	0		2.490	7.1	.840
17	1	0	1	0	1	0	1		22.490	7.6	.850
18	1	0	1	0	1	1	0		22.1	7.075	.860
19	1	0	1	0	1	1	1		22.520	27.185	.870
20	1	0	1	1	0	0	1		22.540	27.205	.890
21	1	0	1	1	0	1	0		22.650	27.215	.900
22	1	0	1	1	0	1	1		22.6	7.2	.910
23	1	0	1	1	1	1	0		22.9	7.245	.940
24	1	0	1	1	1	0	0		22.470	27.235	.920
25	1	0	1	1	1	0	1		22.500	7.4	.930
26	1	0	1	1	1	1	1		22.60	27.6	.950
27	1	1	0	0	0	0	0		22.61	7.075	.960
28	1	1	0	0	0	0	1		22.620	27.085	.970
29	1	1	0	0	0	1	0		22.630	27.295	.980
30	1	1	0	0	0	1	1		2.60	27.305	.990
31	1	1	0	0	1	0	0		2.6	27.1	1.000
32	1	1	0	0	1	0	1		2.66	27.25	1.010
33	1	1	0	0	1	1	0		2.670	27.335	1.020
34	1	1	0	0	1	1	1		2.60	27.345	1.030
35	1	1	0	1	0	0	0		22.690	27.355	1.040
36	1	1	0	1	0	0	1		22.700	27.365	1.050
37	1	1	0	1	0	1	0		22.710	2.3	1.060
38	1	1	0	1	0	1	1		2.720	7.385	1.070
39	1	1	0	1	1	0	0		22.730	27.395	1.080
40	1	1	0	1	1	0	1		22.740	27.405	1.090



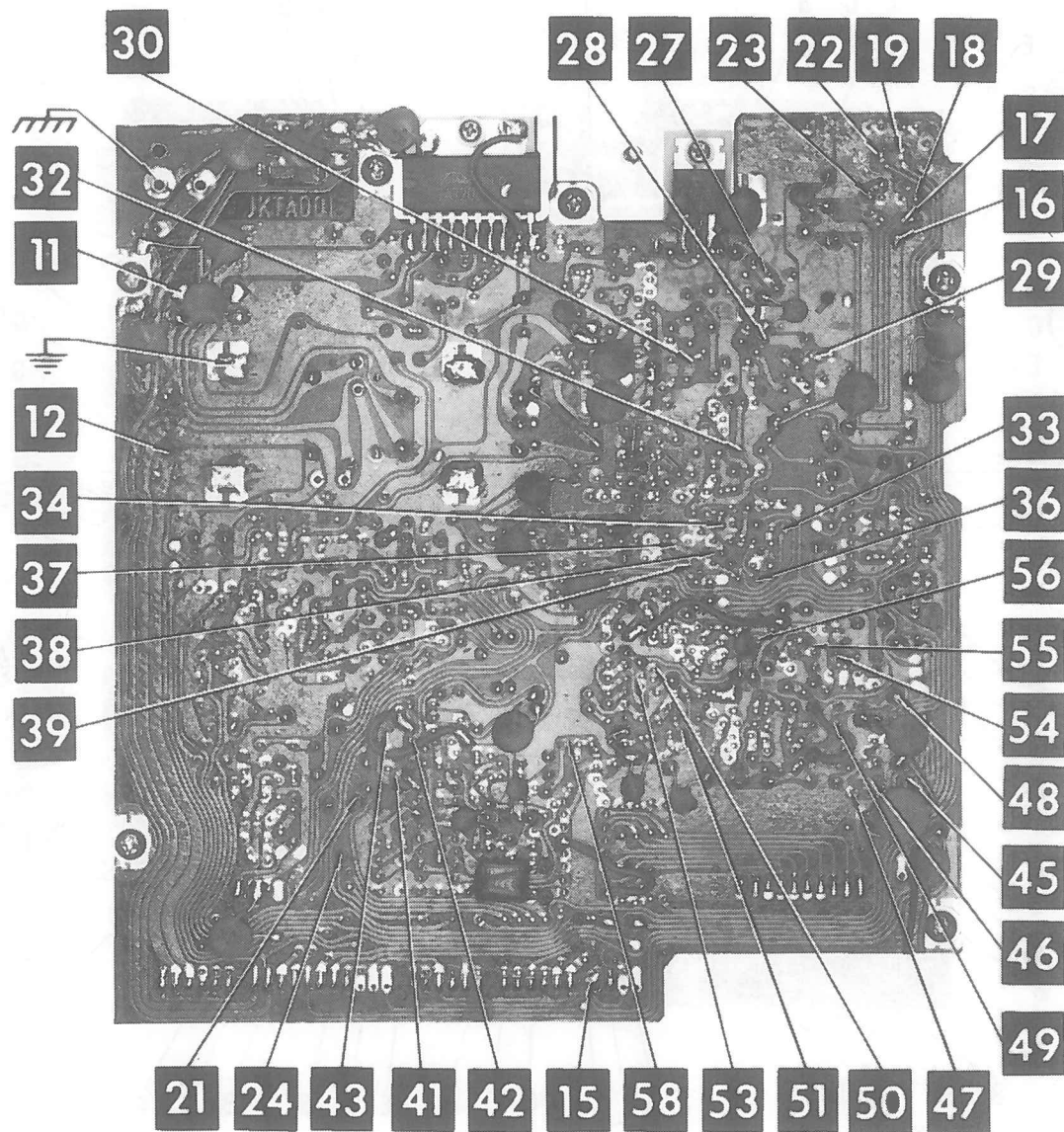
CHASSIS-BOTTOM



MAIN BOARD

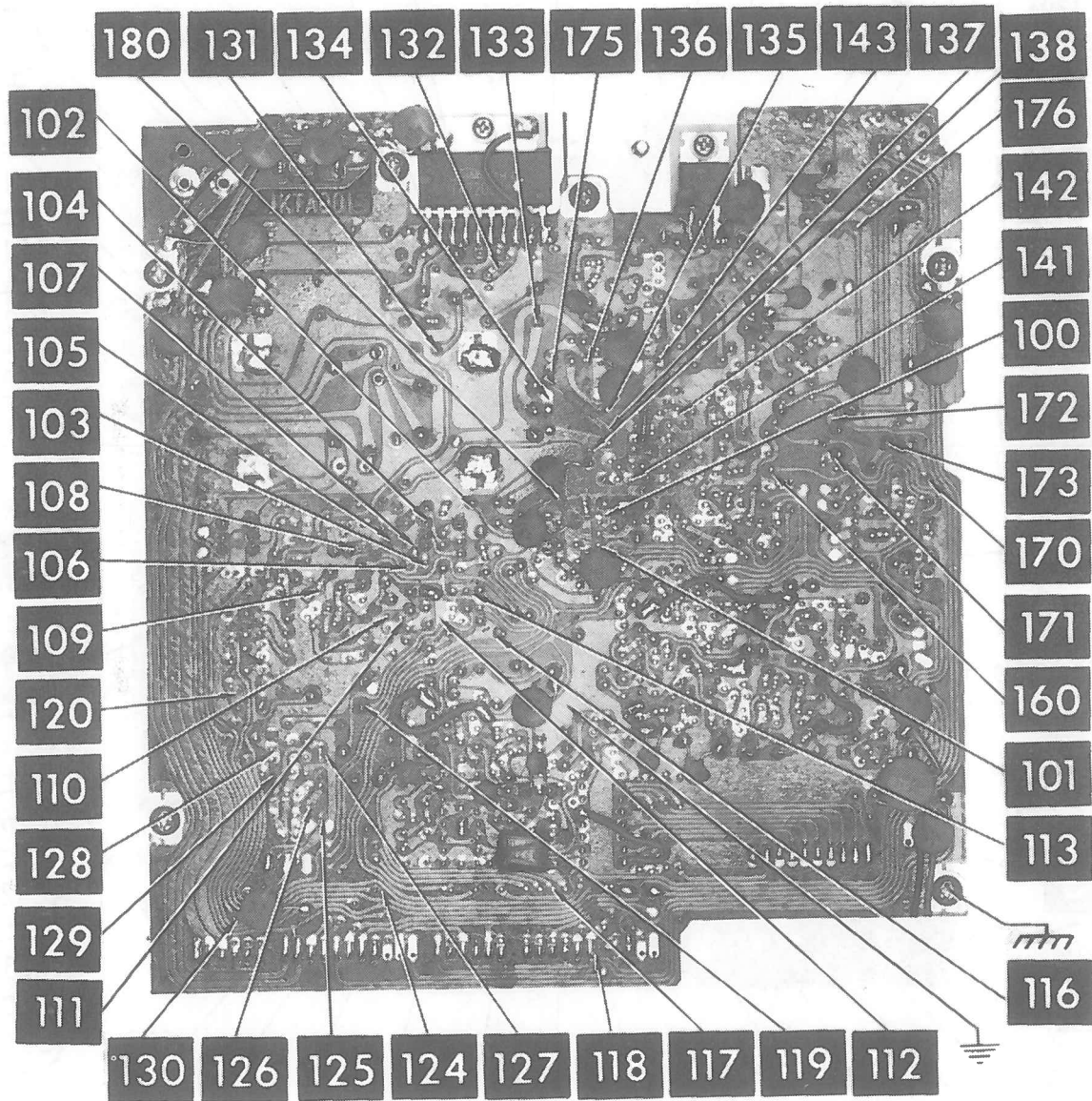


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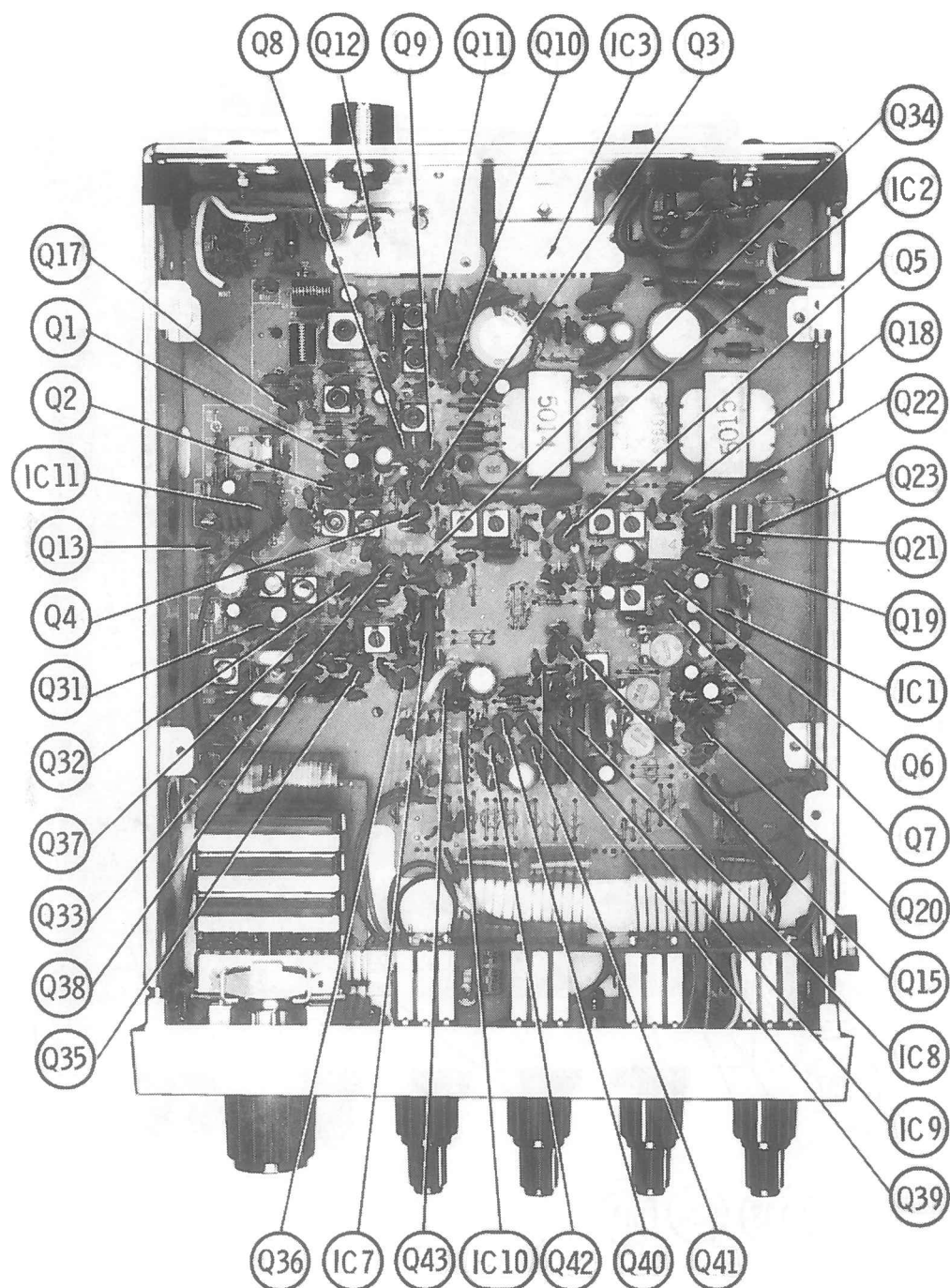


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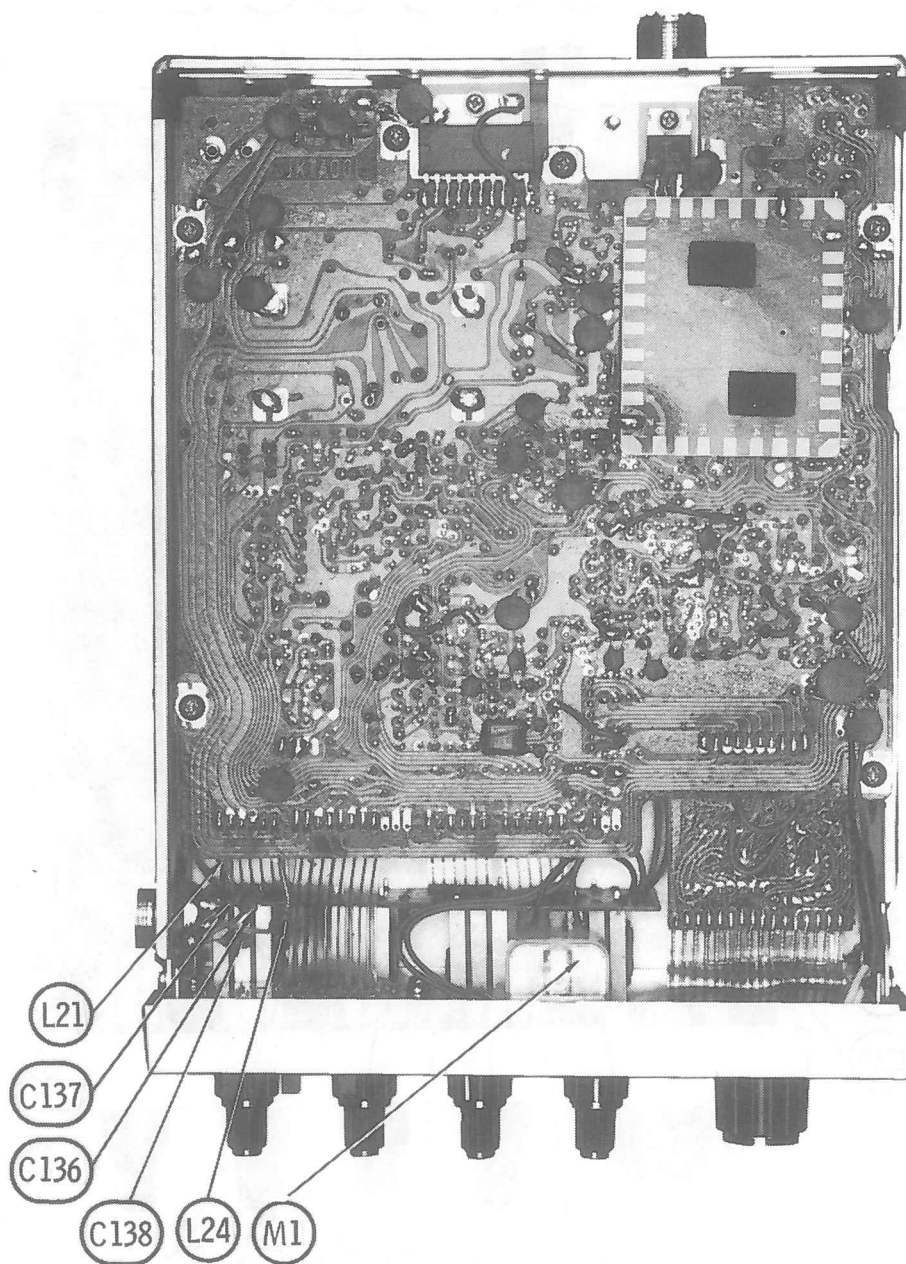
TRAM MODEL D42



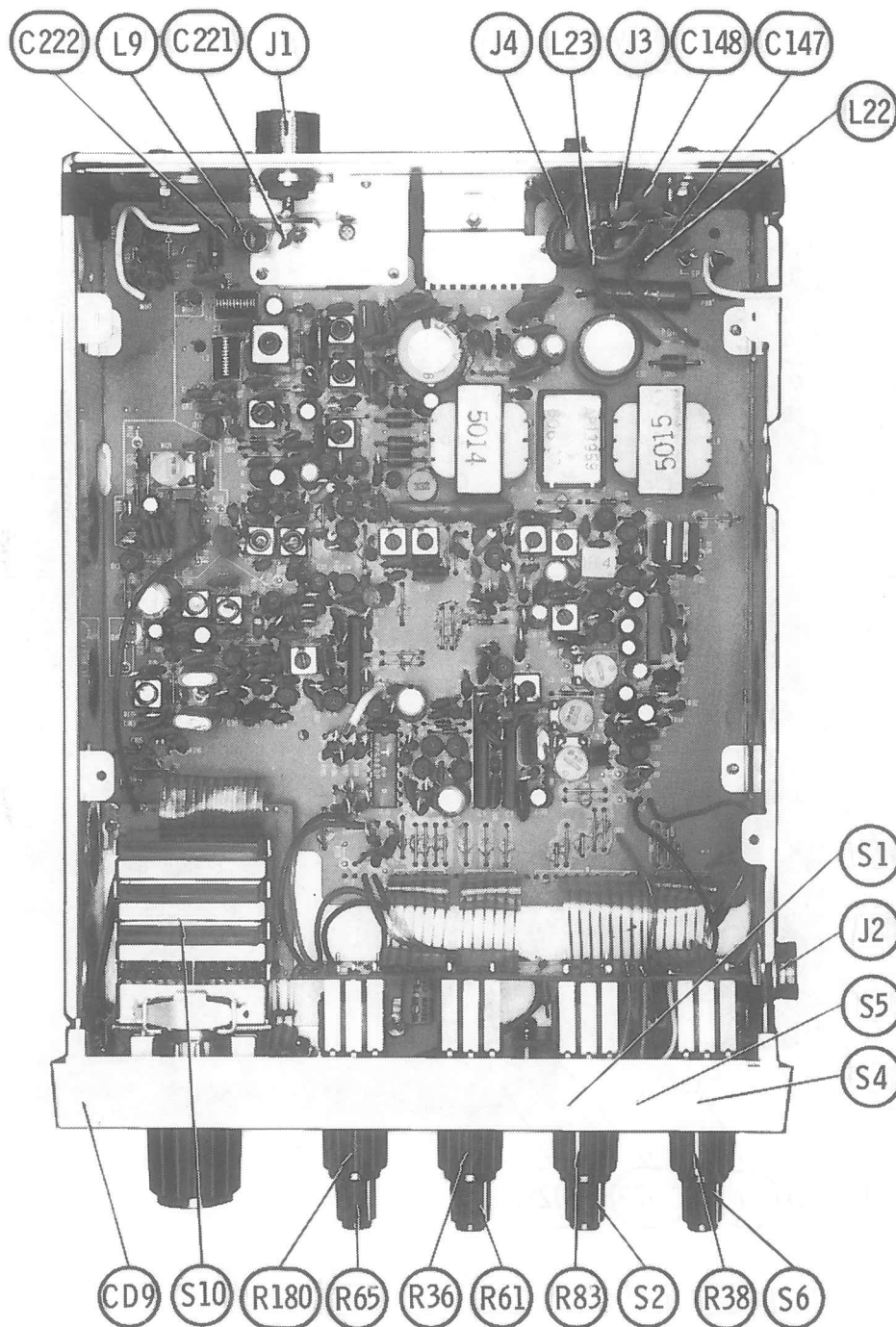
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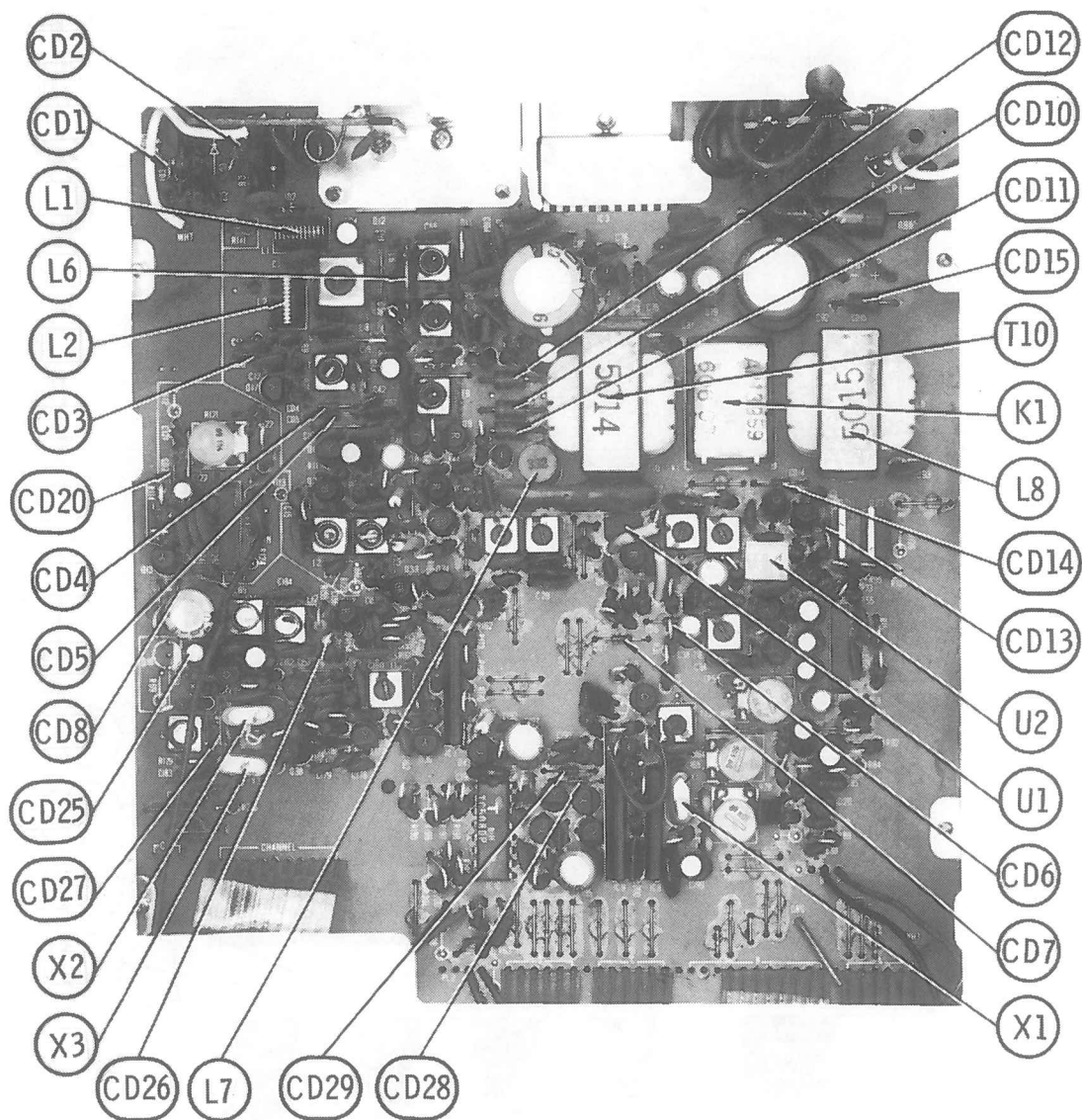
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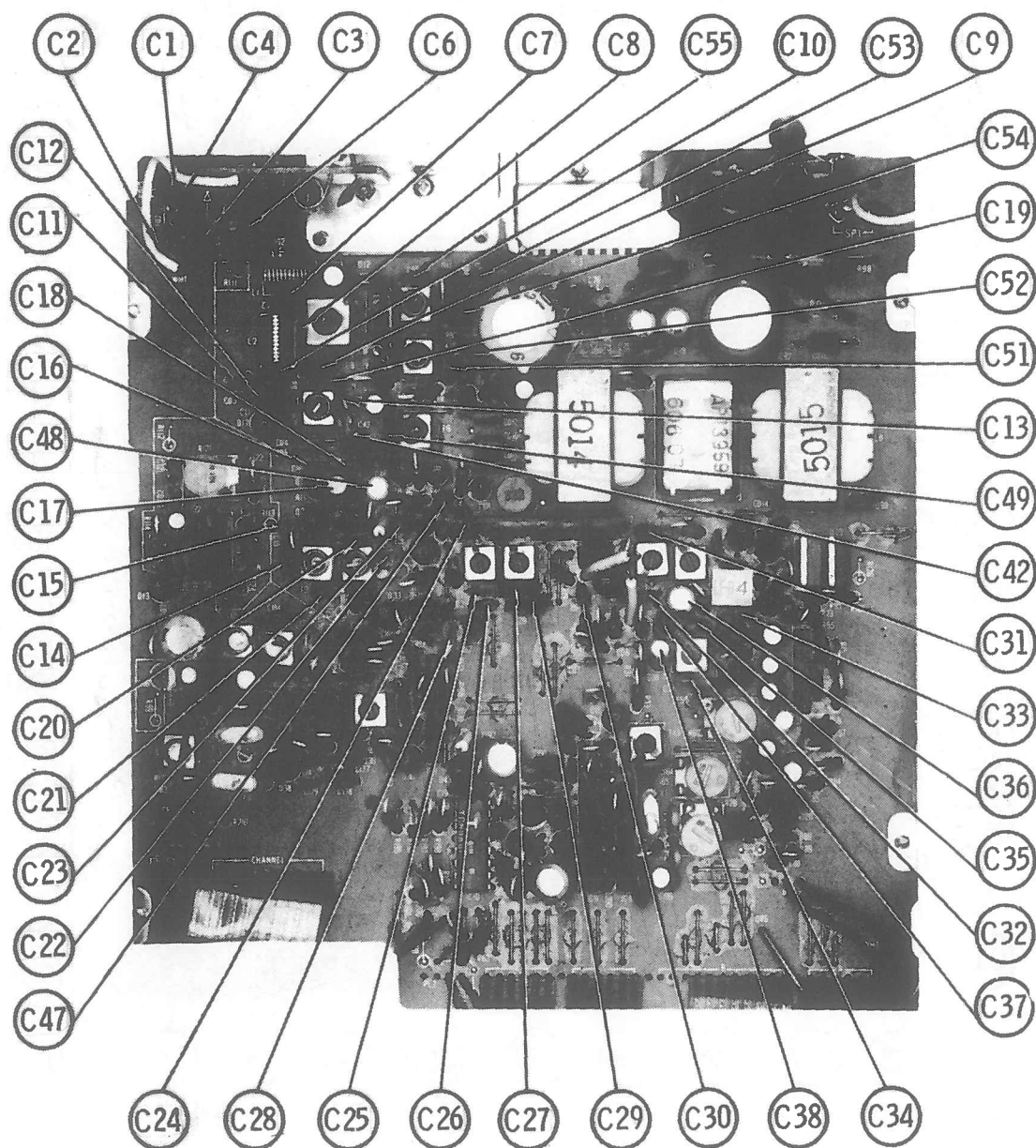
CHASSIS-TOP



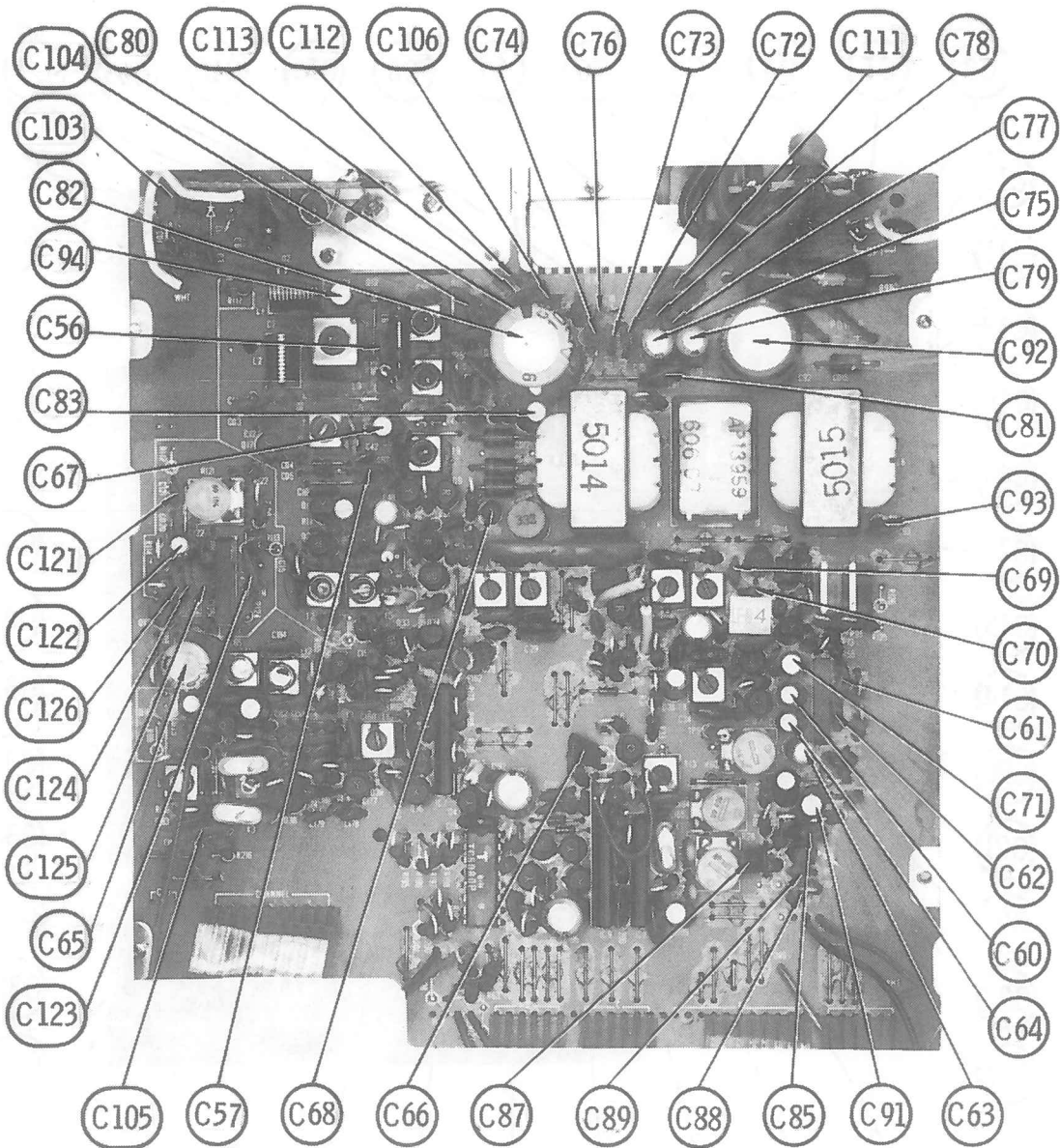
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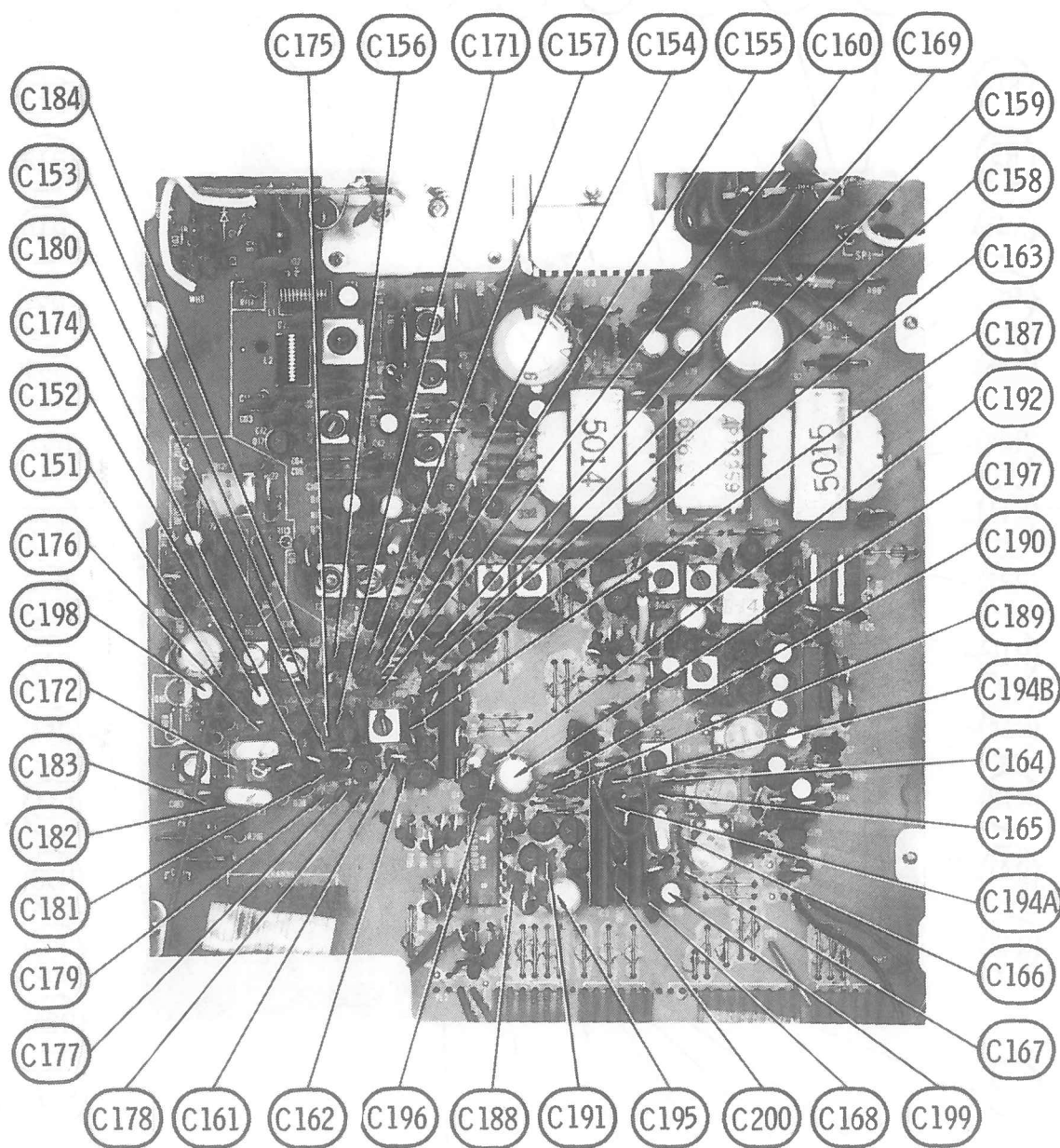
MAIN BOARD



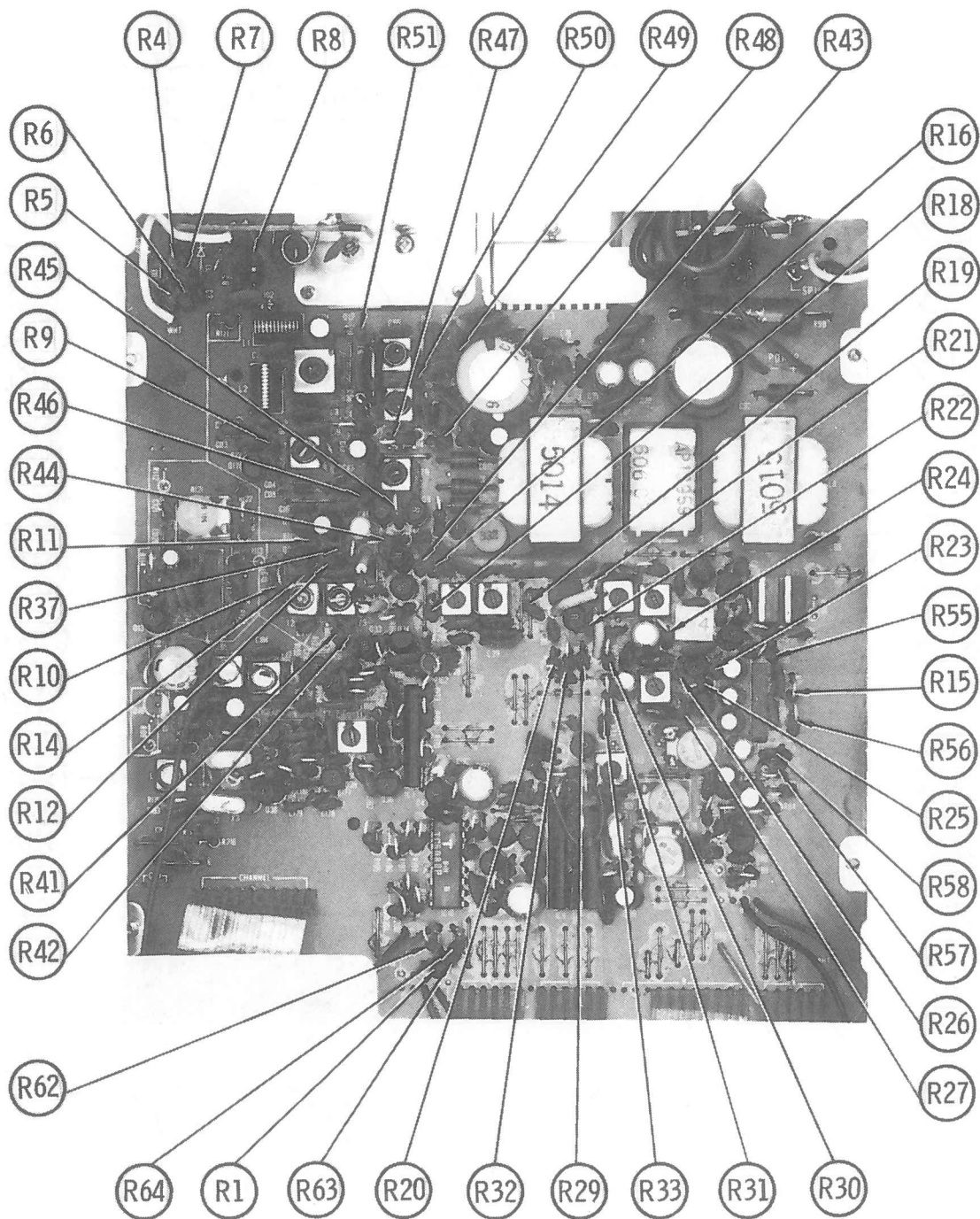
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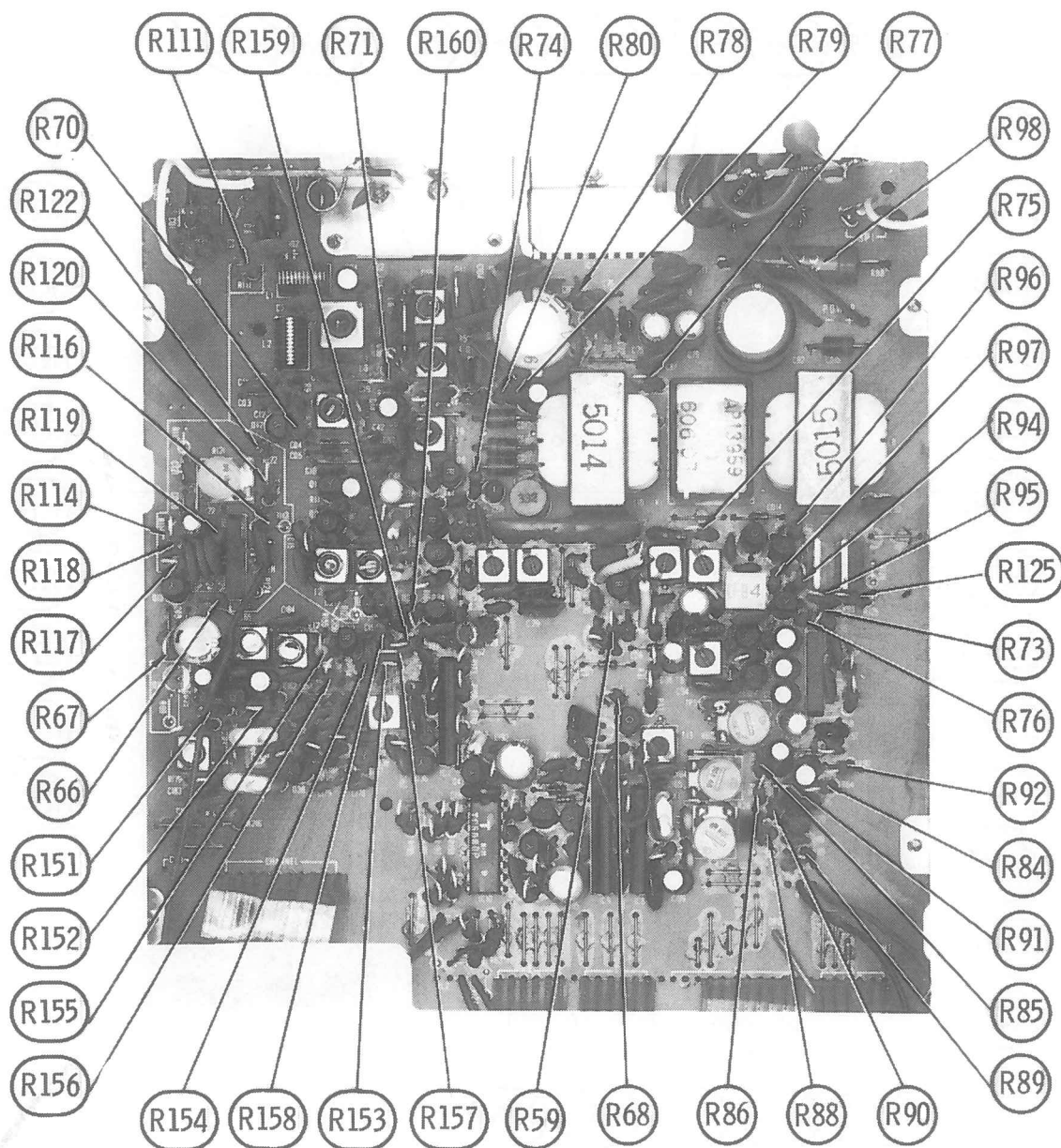
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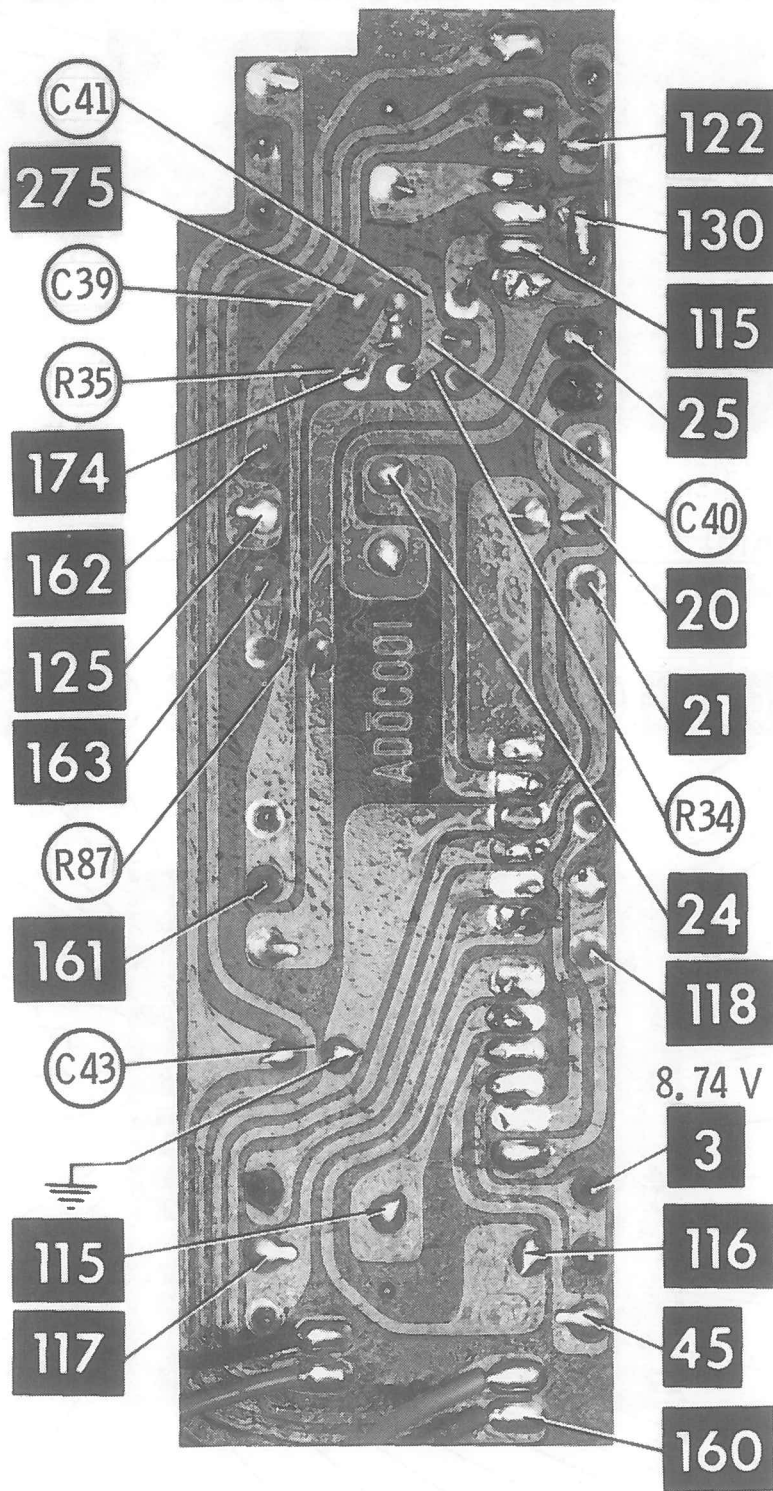
MAIN BOARD



MAIN BOARD

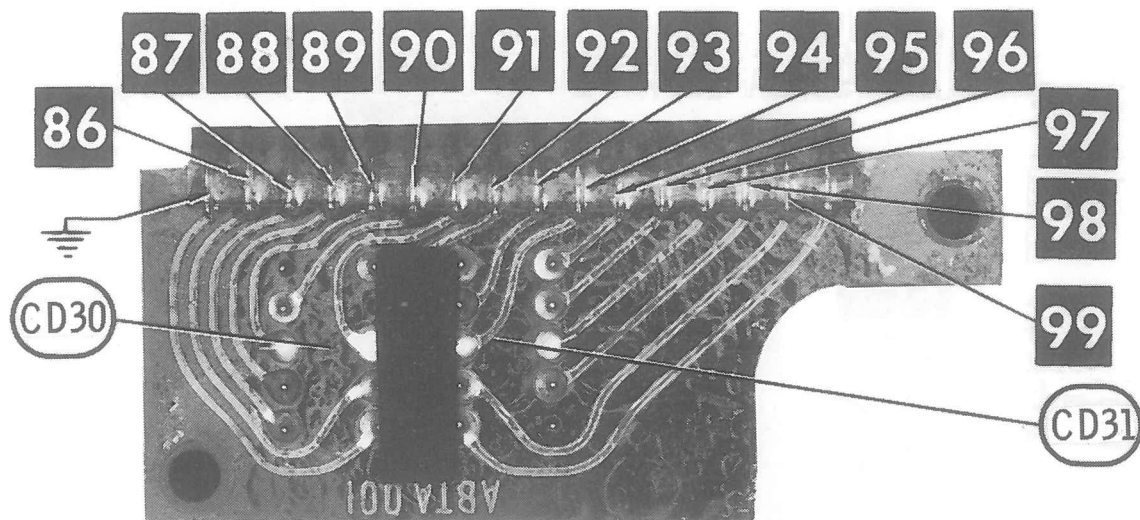


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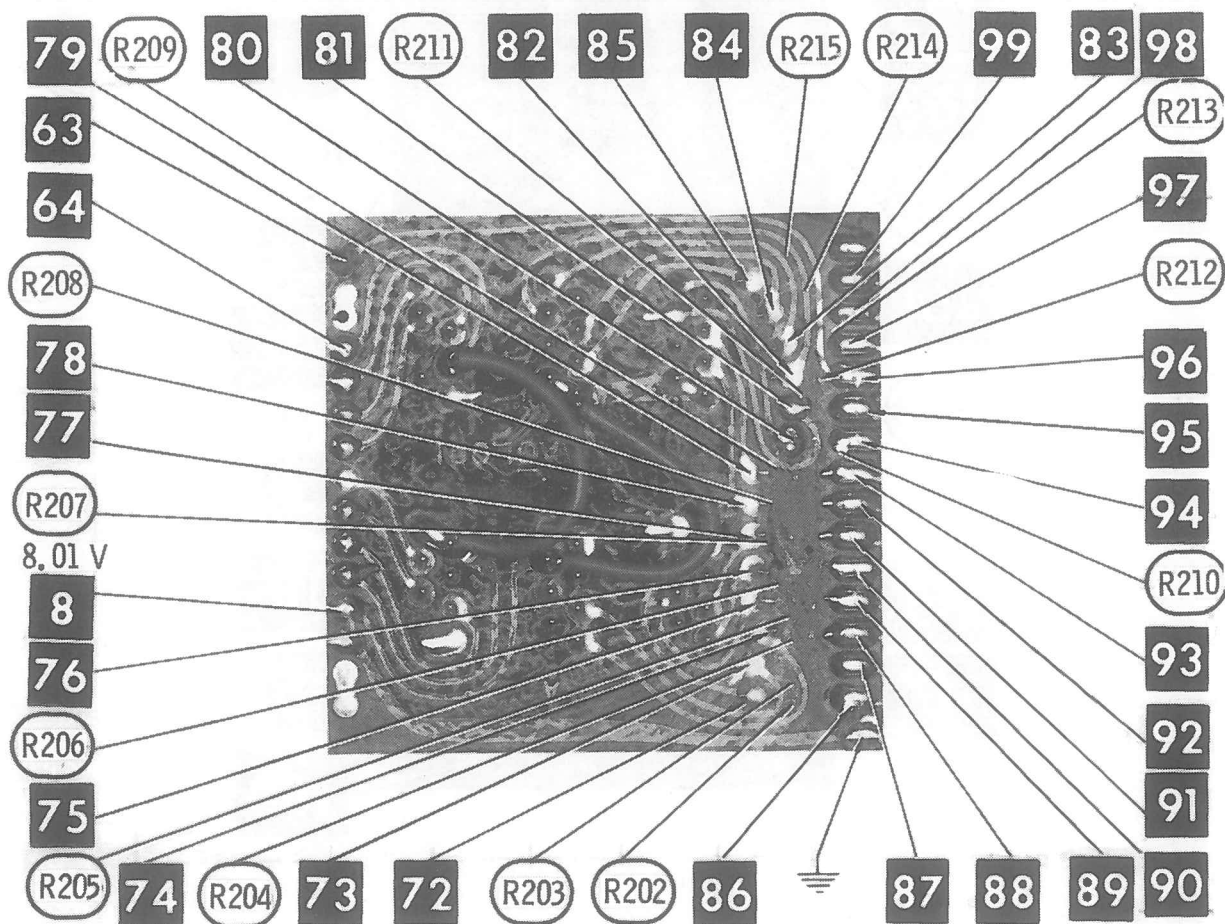
TRAM MODEL D42

CONTROL BOARD

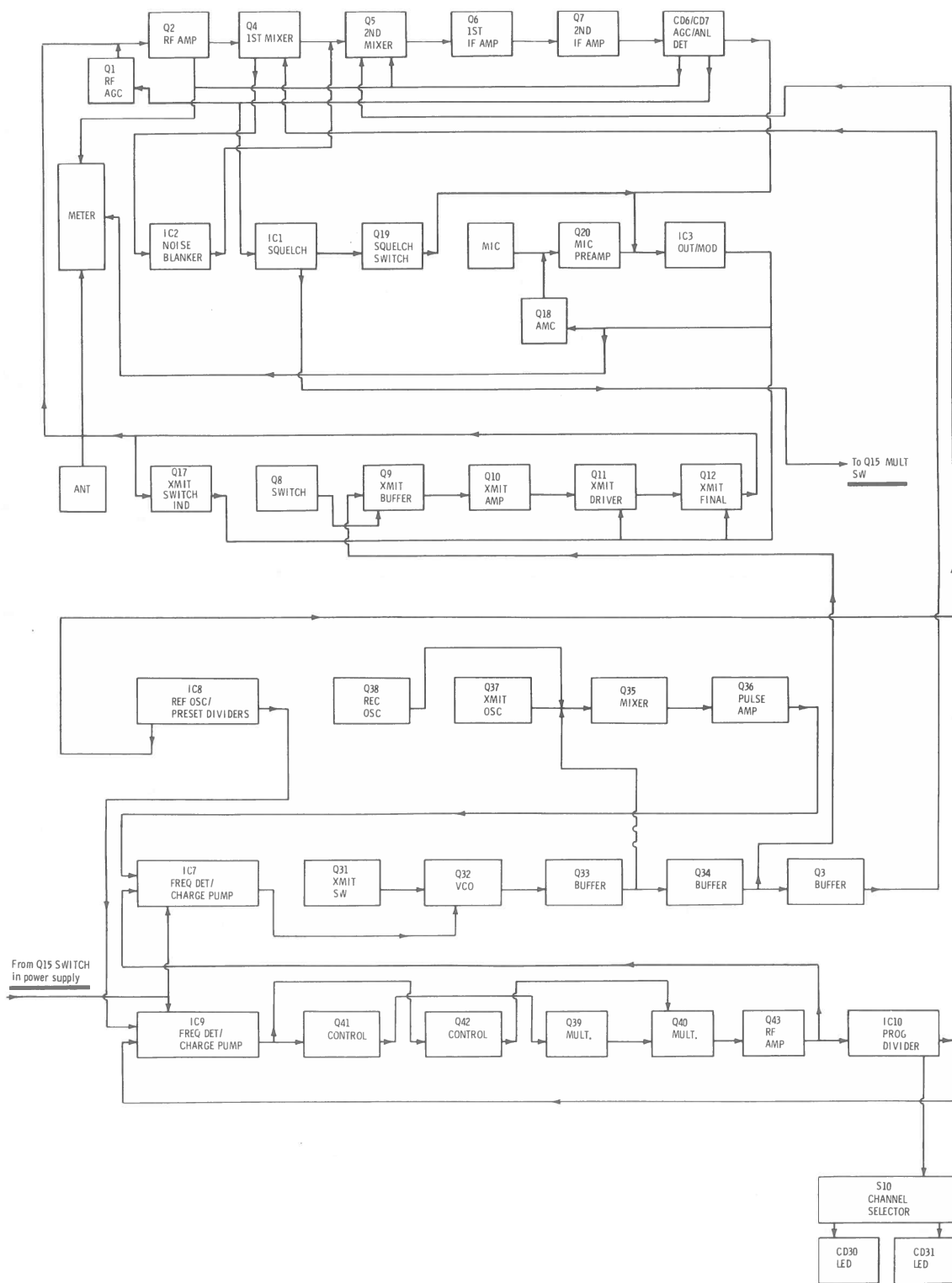


INDICATOR BOARD

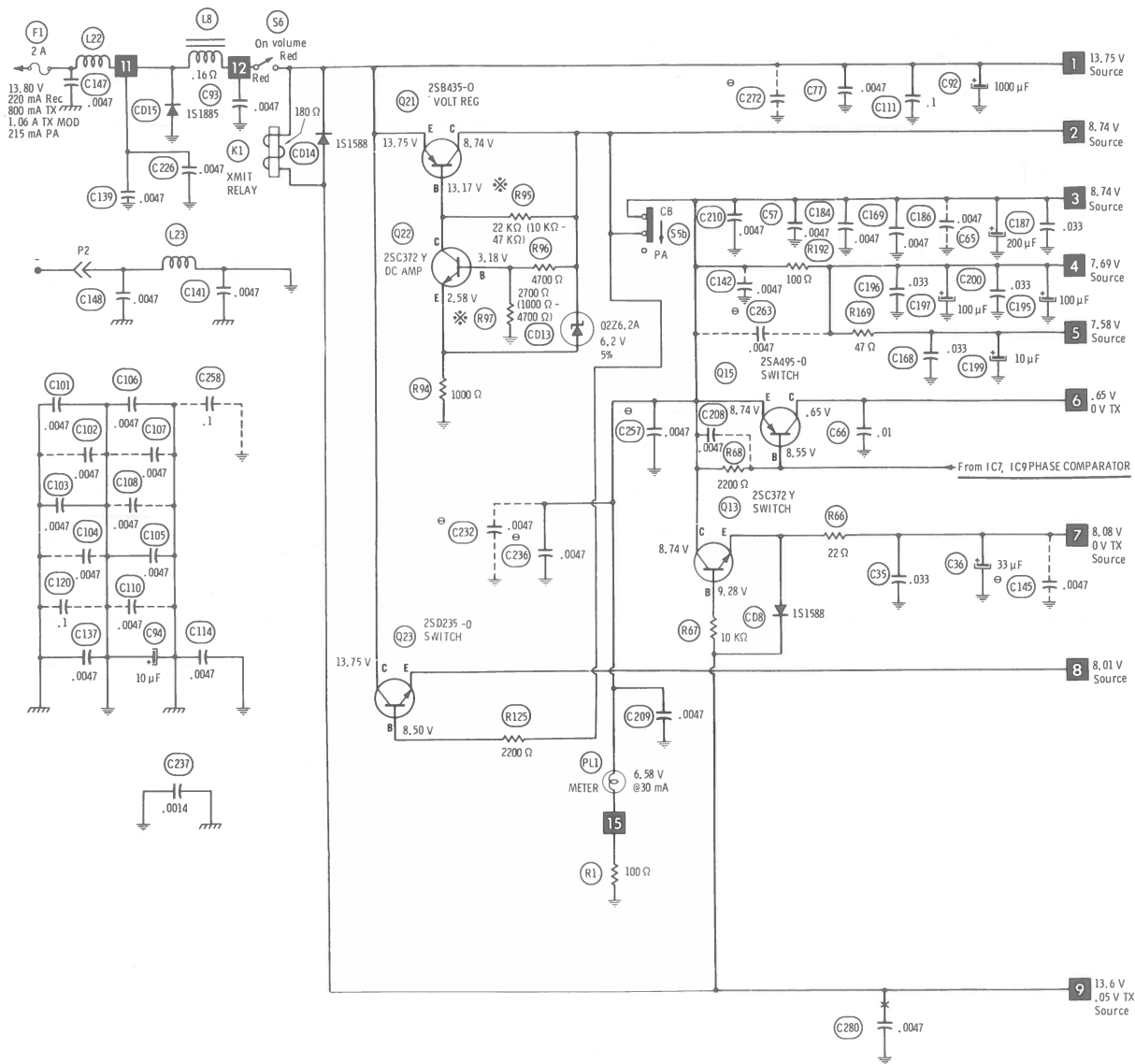
A Howard W. Sams CIRCUITRACE® Photo



SWITCH BOARD



BLOCK DIAGRAM

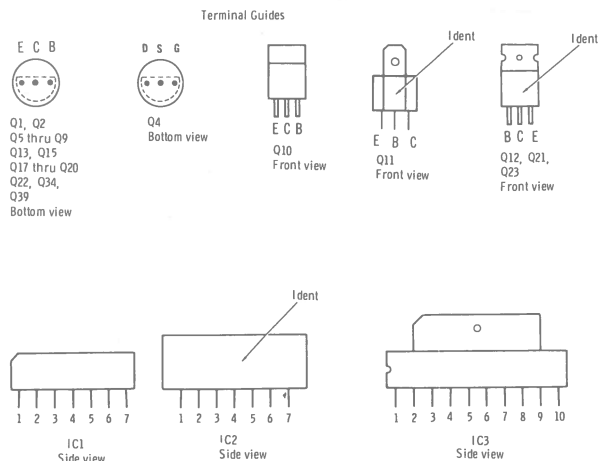


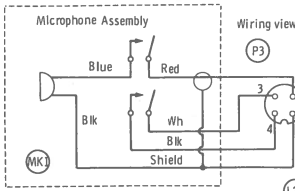
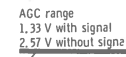
- ✖ Circuitry not used in some versions
 - Circuitry used in some versions
 - ⊕ See parts list
 - ⊛ Nominal value
 - ⊕ Ground
 - ⊕ Chassis
 - ▽ Common tie point
- Measurements made in Channel 1 with switching as shown unless noted.
 Item numbers in rectangles appear in the alignment/adjustment instructions.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

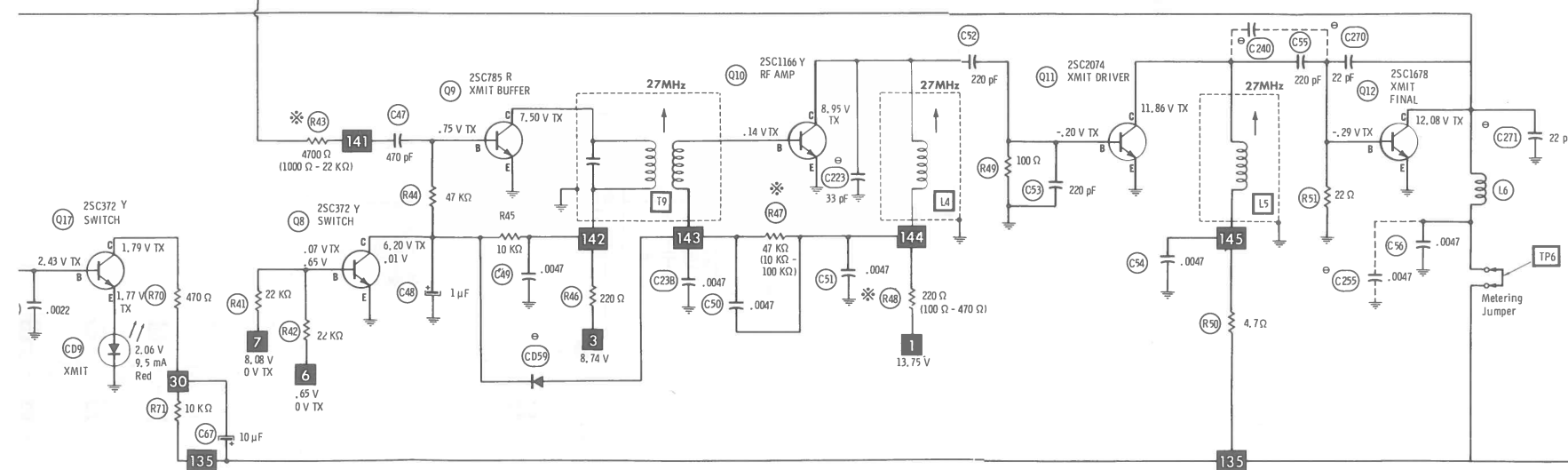
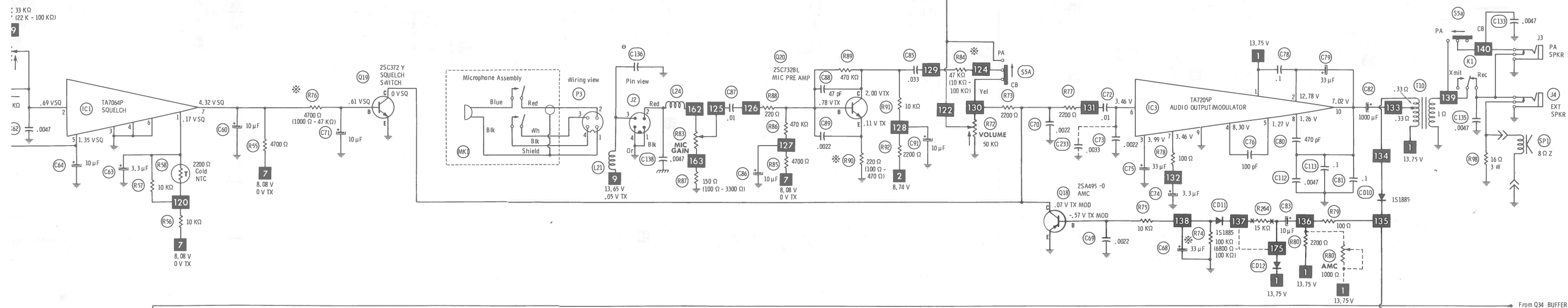
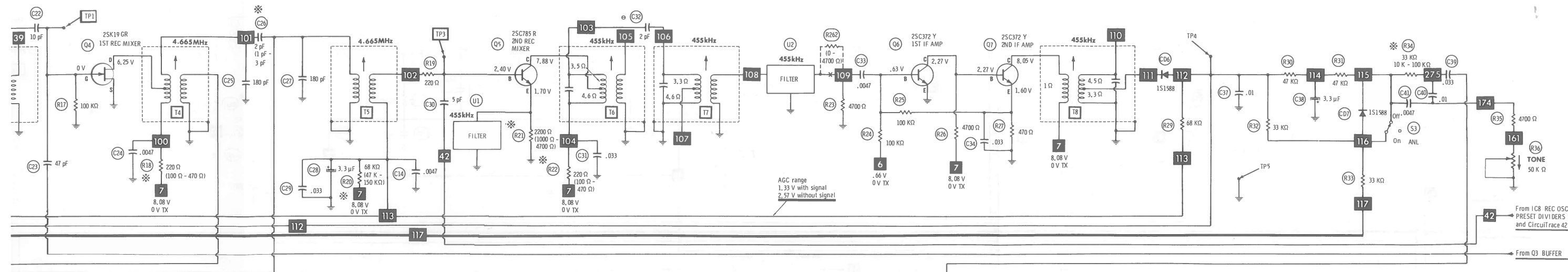
A PHOTOFACT STANDARD NOTATION SCHEMATIC

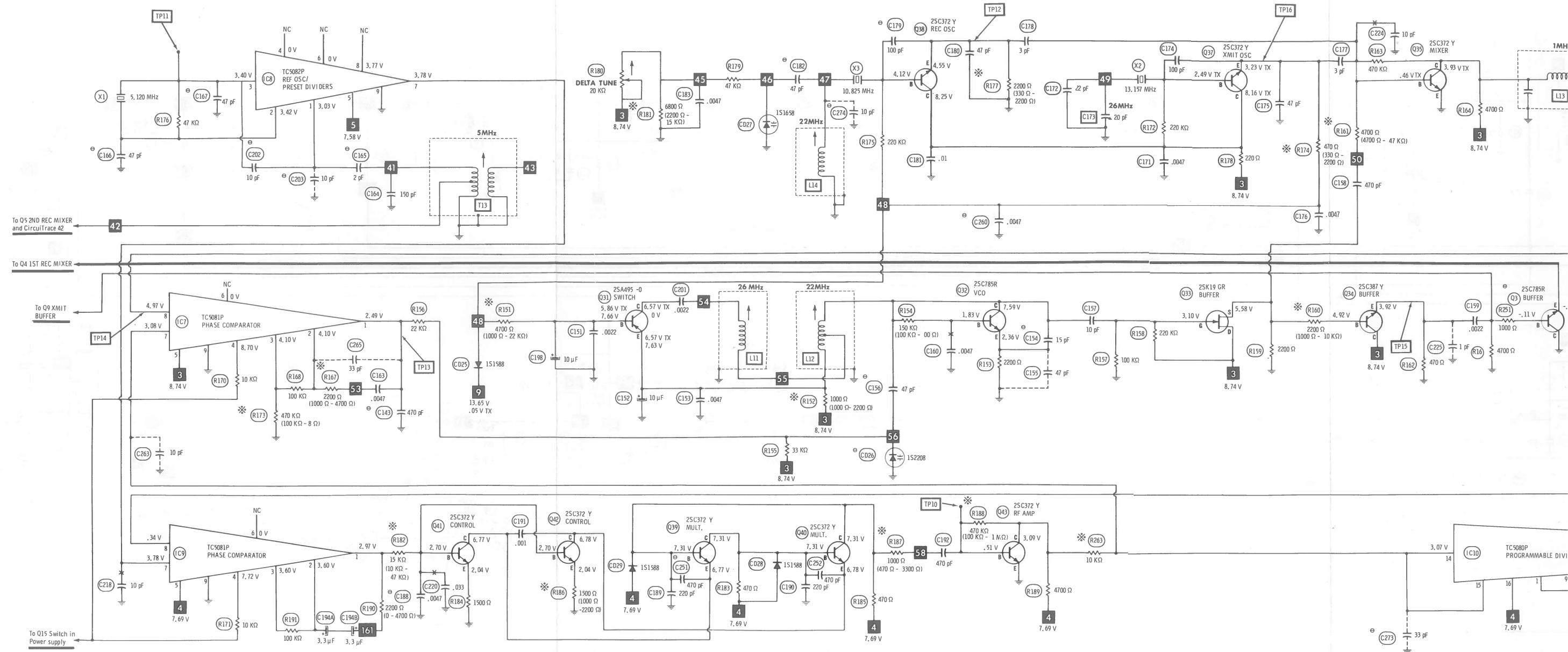
WITH **CIRCUITRACE**

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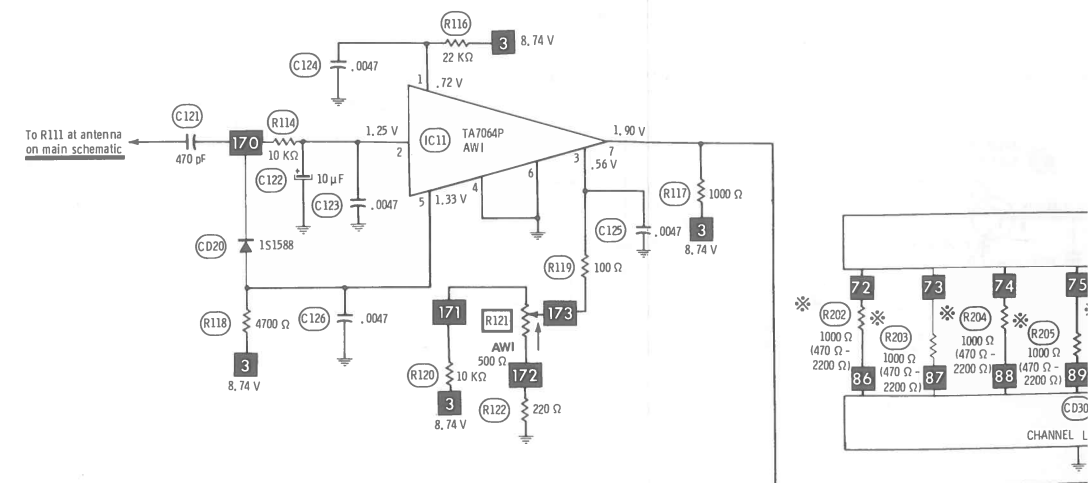
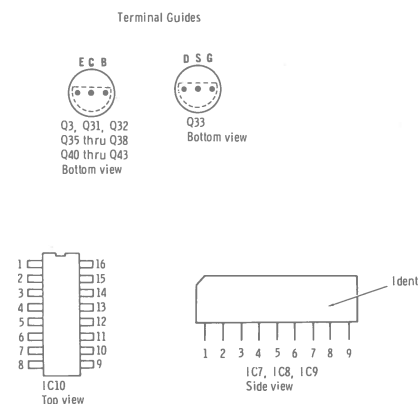


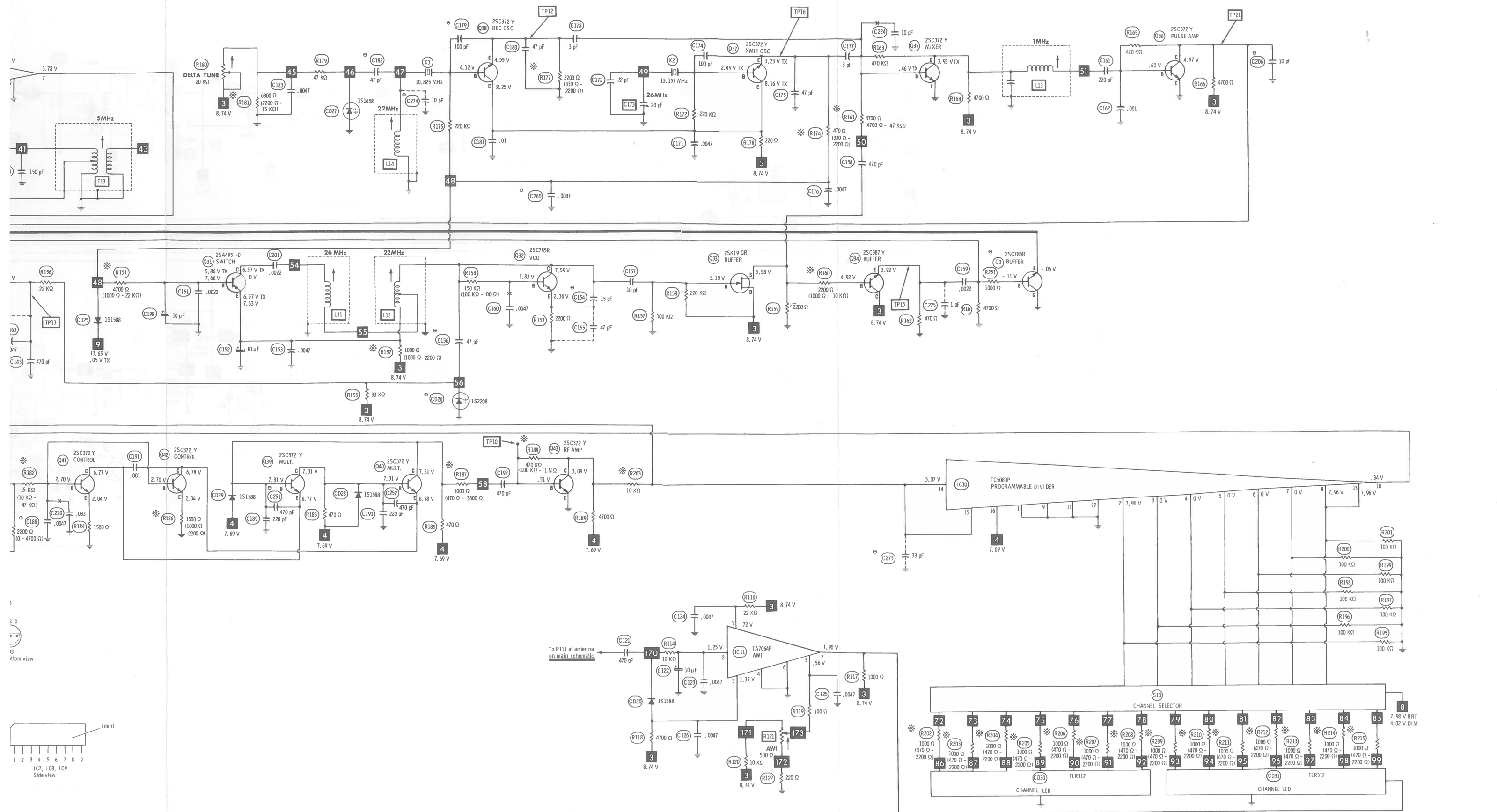
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 - ▽ Common tie point
- Measurements made in Channel 1 with switching as shown unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. Supply voltage maintained as shown at input. Voltages measured with digital meter, 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, Part Number, and Description.)

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	BELDEN No. 17106	31AWG	BELDEN No. 9468 (10')
	(6')		BELDEN No. 8415 (6')
	(9')	4-conductor (unshielded)	BELDEN No. 9467 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9465 (7-1/2')

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.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
CD1	1N60	A7000900	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
CD2	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
CD3	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V	A7249601	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD4	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V	A7249601	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD5	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V	A7249601	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD6	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V	A7249601	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD7	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V	A7249601	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD8	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V	A7249601	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD10	1S1885	A7568500	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
CD11	1S1885	A7568500	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
CD12	1S1885	A7568500	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-76
CD13	02Z6, 2A	A7286100	GEZD6, 2	ZB6, 2B		RE 109		RT-237	ECG137A	1N4735A	WEP1154	
CD14	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V	A7249601	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD15	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD20	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V	A7249601	GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD25	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
CD26	1S2208	26010062		PTC311	HEPR2501				ECG611			ZEN-451
	SVC0053	26010062		PTC311	HEPR2501				ECG611			ZEN-451
CD27	1S1588	A7252805	GE-90		HEPR2503			RT-262	ECG614		WEP200	ZEN-453
	FA-2	A7252805	GE-90		HEPR2503			RT-262	ECG614		WEP200	ZEN-453
CD28	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588V		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S1588		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
CD29	1S1588V		GE-514	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519	1N4148	WEP925	
IC1	TA7064P	B0305401							ECG1235			
IC2	TA7064P-JA	10060							ECG1235			
IC3	TA7205P	B0319200	GEIC-179	PTC780	TA7205P	RE357-IC	SK3231	TVCM-21	ECG1155	TA7205P	WEP949	
IC7	TC5081P	B048010							ECG1208			
IC8	TC5082L	B0480820							ECG1197			
IC9	TC5081P	B048010							ECG1197			
IC10	TC5080P	B0480800							ECG1207			
IC11	TA7064P	B0305401							ECG1235			
Q1	2SC372Y	A6707244	GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
	2SC372		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
Q2	2SC784Y	A6737940	GE-60*	PTC132*	HEPS0008*	RE 28*	SK3122*	RT-187	ECG229*	2SC784	WEP784	ZEN-104
	2SC784		GE-60*	PTC132*	HEPS0008*	RE 28*	SK3122*	RT-187	ECG229*	2SC784	WEP784	ZEN-104
Q3	2SC785R	A6738040	GE-60*	PTC132*	HEPS0016*	RE 9	SK3018*	RT-187	ECG107	2SC784	WEP535	ZEN-104
	2SC785		GE-60*	PTC132*	HEPS0016*	RE 9	SK3018*	RT-187	ECG107	2SC784	WEP535	ZEN-104
Q4	2SK196R	A6046940	GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312			ZEN-123
	2SK19		GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312			ZEN-123
Q5	2SC785R	A6738040	GE-60*	PTC132*	HEPS0016*	RE 9	SK3018*	RT-187	ECG107	2SC784	WEP535	ZEN-104
	2SC785		GE-60*	PTC132*	HEPS0016*	RE 9	SK3018*	RT-187	ECG107	2SC784	WEP535	ZEN-104
Q6	2SC372Y	A6707244	GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
	2SC372		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
Q7	2SC372Y	A6707244	GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
	2SC372		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
Q8	2SC372Y	A6707244	GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
	2SC372		GE-61*	PTC121*	HEPS0015*	RE 13*	SK3444	RT-308	ECG123A*	2SC372	WEP372	ZEN-114
Q9	2SC785R	A6738040	GE-60*	PTC132*	HEPS0016*	RE 9	SK3018*	RT-187	ECG107	2SC784	WEP535	ZEN-104
	2SC785		GE-60*	PTC132*	HEPS0016*	RE 9	SK3018*	RT-187	ECG107	2SC784	WEP535	ZEN-104
Q10	2SC1166Y	A6770960	GE-81*	PTC143	HEPS5026*	RE 210	SK3122	RT-141	ECG297	2SC1166	WEP914	
	2SC1166		GE-81*	PTC143	HEPS5026*	RE 210	SK3122	RT-141	ECG297	2SC1166	WEP914	
Q11	2SC2074Y	A6319640	GE-336			RE 209			ECG306		WEP771	
	2SC2074		GE-336			RE 209			ECG306		WEP771	

TRAM MODEL D42

PARTS LIST AND DESCRIPTION (CONTINUED)

(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.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q12	2SC16781 2SC1678H, N ₀	A631961(12)	GE-322 GE-322	PTC186 PTC186		RE 203 RE 203	SK3197 SK3197	RT-146 RT-146	ECG235 ECG235	2SC1306 2SC1306	WEP785 WEP785	
Q13	2SC1678 2SC372Y 2SC372	A6707244	GE-322 GE-35 GE-35	PTC186 PTC118 PTC118	HEPS5020 HEPS5020	RE 203 RE 29 RE 29	SK3197 SK3115 SK3115	RT-146 RT-139 RT-139	ECG235 ECG162 ECG162		WEP785 WEP707 WEP707	
Q15	2SA495-0 2SA495	A65023-63	GE-69 GE-69	PTC111 PTC111		RE 22 RE 22	SK3083 SK3083	RT-196 RT-196	ECG153 ECG153	2SA473 2SA473	WEP746 WEP746	
Q17	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q18	2SA495-0 2SA495	A6502360	GE-69 GE-69	PTC111 PTC111		RE 22 RE 22	SK3083 SK3083	RT-196 RT-196	ECG153 ECG153	2SA473 2SA473	WEP746 WEP746	
Q19	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q20	2SC732BL 2SC732	A6733280	GE-62 GE-62	PTC139* PTC139*	HEPS0024* HEPS0024*	RE 192 RE 192	SK3122 SK3122	RT-302 RT-302	ECG199 ECG199	2SC732 2SC732	WEP66 WEP66	ZEN-128 ZEN-128
Q21	2SB435-0 2SB435	A6610140	GE-69 GE-69	PTC162 PTC162		RE 22 RE 22	SK3083 SK3083	RT-155 RT-155	ECG153 ECG153		WEP746 WEP746	
Q22	2SC372 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q23	2SD235-0 2SC235	A6823540	GE-66 GE-66	PTC154 PTC154	HEPS3061 HEPS3061	RE 21 RE 21	SK3054 SK3054	RT-197 RT-197	ECG152 ECG152	2SD235 2SD235	WEP745 WEP745	
Q31	2SA495-0 2SA495	A6502360	GE-69 GE-69	PTC111 PTC111		RE 22 RE 22	SK3083 SK3083	RT-196 RT-196	ECG153 ECG153	2SA473 2SA473	WEP746 WEP746	
Q32	2SC785R 2SC785	A6738040	GE-60* GE-60*	PTC132* PTC132*	HEPS0016* HEPS0016*	RE 9 RE 9	SK3018* SK3018*	RT-187 RT-187	ECG107 ECG107	2SC784 2SC784	WEP535 WEP535	ZEN-104 ZEN-104
Q33	2SK19GR 2SK19	A6046940	GE-FET-2 GE-FET-2	PTC161 PTC161	HEPF0021 HEPF0021	RE 45 RE 45	SK3116 SK3116	RT-175 RT-175	ECG312 ECG312		WEP56* WEP56*	ZEN-123 ZEN-123
Q34	2SC387A 2SC387	A6708760	GE-214 GE-214	PTC132* PTC132*	HEPS0020* HEPS0020*	RE 10* RE 10*	SK3039* SK3039*	RT-134 RT-134	ECG108* ECG108*	2SC717* 2SC717*	WEP56* WEP56*	ZEN-104 ZEN-104
Q35	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q36	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q37	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q38	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q39	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q40	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q41	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q42	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114
Q43	2SC372Y 2SC372	A6707244	GE-61* GE-61*	PTC121* PTC121*	HEPS0015* HEPS0015*	RE 13* RE 13*	SK3444 SK3444	RT-308 RT-308	ECG123A* ECG123A*	2SC372 2SC372	WEP372 WEP372	ZEN-114 ZEN-114

* Lead Configuration may vary from original.
(12) 10 watts @ 3 amps.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C17	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C28	3.3 50V	26043015	PC5-50	VTT3R3A50	QV1-25	EV-1618
C36	33 16V	26043018	PC30-25	VTT33D25	QV1-63	EV-1325
C38	3.3 50V	26043015	PC5-50	VTT3R3A50	QV1-25	EV-1618
C43	100 10V	26043036	PC100-10	VTT100E10	QV1-93	EV-1130
C48	1 50V	26043011	PC1-50	VTT1A50	QV1-11	EV-1615
C60	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C63	3.3 50V	26043015	PC5-50	VTT3R3A50	QV1-25	EV-1618
C64	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C65	220 10V	26043049	PC250-10	VTT220F10	QV1-115	EV-1140
C67	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C68	33 3V	26040001		TDC336M010FL	QDT1-89	SD10-339
C71	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C74	3.3 16V	26040003		TDC335M015FL	QDT1-41	SD15-3R39
C75	33 16V	26043018	PC30-25	VTT33D25	QV1-63	EV-1325
C79	33 16V	26043018	PC30-25	VTT33D25	QV1-63	EV-1325
C82	1000 25V	26043051	WBRI 000-25	VTT1000M25	QV1-185	EV-1360
C83	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C86	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C91	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C92	1000 16V	26043050	PC1000-16	VTT1000L16	QV1-183	EV-1260
C94	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C122	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C152	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C194A	3.3 16V	26040003		TDC335M015FL	QDT1-41	SD15-3R39
C194B	3.3 16V	26040003		TDC335M015FL	QDT1-41	SD15-3R39
C195	100 10V	26043036	PC100-10	VTT100E10	QV1-93	EV-1130
C197	100 10V	26043036	PC100-10	VTT100E10	QV1-93	EV-1130
C198	10 16V	26043016	PC10-25	VTT10B25	QV1-41	EV-1222
C199	10 16V	26043016	PC10-25	VTT10B25	QV1-41	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.	
						Q-LINE	GENERAL LINE
C1	.0022		DD-222		GP222	QC2-97	5GA-D22
C2	470		DD-471	GP470	GP347		10TS-T47
C3	470		DD-471	GP470	GP347		10TS-T47
C4	.0022		DD-222		GP222	QC2-97	5GA-D22
C6	100 (47-200)	(1)	DD-101	GP100	GP310		10TS-T10
C7	220 (150-330)	(1)	DD-221		GP322		10TS-T22
C8	220		DD-221		GP322		10TS-T22
C9	150		DD-151		GP315		10TS-T15
C10	10 (5-15)	(1)	DTZ-10	NP010	CN0410		10TCC-Q10
C11	22		DTZ-22	NP022	CN0422		10TCC-Q22
C12	.0022		DD-222		GP222	QC2-97	5GA-D22
C13	22 N220	26036049			*		10TCR-Q22
C14	.0047		DD-472	GP4700	GP247		5GA-D47
C15	1	(1)			CN0510		10TCC-V10
C16	.0022		DD-222		GP222	QC2-97	5GA-D22
C18	.0047		DD-472	GP4700	GP247		5GA-D47
C19	.0047		DD-472	GP4700	GP247		5GA-D47
C20	.0047		DD-472	GP4700	GP247		5GA-D47
C21	1				CN0510		10TCC-V10
C22	10 N220	26036057			*		10TCR-Q10
C23	47 (10-68)	(1)	DTZ-47	NP047	CN0447		10TCC-Q47
C24	.0047		DD-472	GP4700	GP247		5GA-D47
C25	180 N470	26036020			*		10TCT-T18
C26	1 (1-3)	(1)			CN0510		10TCC-V10
C27	180 N470	26036020			*		10TCT-T18
C29	.033						6PS-S33
C30	5		DTZ-4R7	DPMS6S33	EPWF6133		10TCC-V47
C31	.033			NP04P7	CN0547		6PS-S33
C32	2 (1-3)	(1)	DTZ-2R2	DPMS6S33	EPWF6133		10TCC-V22
C33	.0047		DD-472	NP02P2	CN0522		5GA-D47
C34	.033			GP4700	GP247		6PS-S33
C35	.033			DPMS6S33	EPWF6133		6PS-S33
C37	.01			DPMS6S33	EPWF6133		1PB-S10
C39	.033		DC-303	WMF1S1	EPWF1A110	QF1-91	TG-S30
C40	.01		DC-103	MGP03	TA110	QC2-181	TG-S10
C41	.0047		DD-472	MGP01	GP4700	QC2-141	5GA-D47
C42	5 N220 (0-10)	26036056(1)			*		10TCR-V50
C47	470		DD-471	GP470	GP347		10TS-T47
C49	.0047		DD-472	GP4700	GP247		5GA-D47
C50	.0047		DD-472	GP4700	GP247		5GA-D47
C51	.0047		DD-472	GP4700	GP247		5GA-D47
C52	220 (100-470)	(1)	DD-221		GP322		10TS-T22
C53	220 (100-470)	(1)	DD-221		GP322		10TS-T22
C54	.0047		DD-472	GP4700	GP247		5GA-D47
C55	220		DD-221		GP322		10TS-T22
C56	.0047		DD-472	GP4700	GP247		5GA-D47
C57	.0047		DD-472	GP4700	GP247		5GA-D47
C61	.0047		DD-472	GP4700	GP247		5GA-D47
C62	.0047		DD-472	GP4700	GP247		5GA-D47
C66	.01			WMF1S1	EPWF1A110	QF1-91	1PB-S10
C69	.0022		DD-222		GP222	QC2-97	5GA-D22
C70	.0022		DD-222		GP222	QC2-97	5GA-D22
C72	.01			WMF1S1	EPWF1A110	QF1-91	1PB-S10
C73	.0022		DD-222		GP222	QC2-97	5GA-D22
C76	100		DD-101	GP100	GP310		10TS-T10
C77	.0047		DD-472	GP4700	GP247		5GA-D47
C78	.1		DC-104	MGP1	TA010	QC2-233	TG-P10
C80	470		DD-471	GP470	GP347		10TS-T47
C81	.1		DC-104	MGP1	TA010	QC2-233	TG-P10
C85	.033			DPMS6S33	EPWF6133		6PS-S33
C87	.01			WMF1S1	EPWF1A110	QF1-91	1PB-S10
C88	47		DTZ-47	NP047	CN0447		10TCC-Q47
C89	.0022		DD-222		GP222	QC2-97	5GA-D22
C93	.0047		DD-472	GP4700	GP247		5GA-D47
C101	.0047		DD-472	GP4700	GP247		5GA-D47
C102	.0047		DD-472	GP4700	GP247		5GA-D47
C103	.0047		DD-472	GP4700	GP247		5GA-D47
C104	.0047		DD-472	GP4700	GP247		5GA-D47
C105	.0047		DD-472	GP4700	GP247		5GA-D47
C106	.0047		DD-472	GP4700	GP247		5GA-D47
C107	.0047		DD-472	GP4700	GP247		5GA-D47
C108	.0047		DD-472	GP4700	GP247		5GA-D47
C110	.0047		DC-472	GP4700	GP247		5GA-D47
C111	.1		DC-104	MGP1	TA010	QC2-233	TG-P10
C112	.0047		DD-472	GP4700	GP247		5GA-D47
C113	.1		DC-104	MGP1	TA010	QC2-233	TG-P10
C114	.0047		DD-472	GP4700	GP247		5GA-D47
C120	.1 (0-.1)	(1)	DC-104	MGP1	TA010	QC2-233	TG-P10
C121	470		DD-471	GP470	GP347		10TS-T47
C123	.0047		DD-472	GP4700	GP247		5GA-D47
C124	.0047		DD-472	GP4700	GP247		5GA-D47
C125	.0047		DD-472	GP4700	GP247		5GA-D47
C126	.0047		DD-472	GP4700	GP247		5GA-D47
C133	.0047		DD-472	GP4700	GP247		5GA-D47
C135	.0047		DD-472	GP4700	GP247		5GA-D47

TRAM MODEL D42

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C136	.0047		DD-472	GP4700	GP247		5GA-D47
C137	.0047		DD-472	GP4700	GP247		5GA-D47
C138	.0047		DD-472	GP4700	GP247		5GA-D47
C139	.0047		DD-472	GP4700	GP247		5GA-D47
C141	.0047		DD-472	GP4700	GP247		5GA-D47
C142	.0047 (0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C143	470		DD-471	GP470	GP347		10TS-T47
C144	.0047 (0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C145	.0047 (0-.1)	(1)	DD-472	GP4700	GP247		5GA-D47
C147	.0047		DD-472	GP4700	GP247		5GA-D47
C148	.0047		DD-472	GP4700	GP247		5GA-D47
C151	.0022		DD-222		GP222	QC2-97	5GA-D22
C153	.0047		DD-472	GP4700	GP247		5GA-D47
C154	15 N470 (5-22)	26036017(1)			*		10TCT-Q15
C155	47 N750		DTN-47	N47	CN7447		10TCU-Q47
C156	47 (22-68)	(1)	DTZ-47	NP047	CN0447		10TCC-Q47
C157	10 NP0 (10-22)	(1)	DTZ-10	NP010	CN0410		10TCC-Q10
C158	470		DD-471	GP470	GP347		10TS-T47
C159	.0022		DD-222		GP222	QC2-97	5GA-D22
C160	.0047		DD-472	GP4700	GP247		5GA-D47
C161	220		DD-221		GP322		10TS-T22
C162	.001 (100-.001)	(1)	DD-102G	GP1000	GP210	QC2-81	5GA-D10
C163	.0047 (.0022-.01)	(1)	DD-472	GP4700	GP247		5GA-D47
C164	150 N470	26036059			*		10TCT-T15
C165	2 (1-5)	(1)	DTZ-2R2	NP02P2	CN0522		10TCC-V22
C 166	47 N220 (33-68)	26036007(1)			*		10TCR-Q47
C167	47 N220 (33-68)	26036007(1)			*		10TCR-Q47
C168	.033			DPMS6S33	EW6133		6PS-S33
C169	.0047		DD-472	GP4700	GP247		5GA-D47
C171	.0047		DD-472	GP4700	GP247		5GA-D47
C172	22 N220 (10-100)	26036049(1)			*		10TCR-Q22
C173	20	26030002					
C174	100		DD-101	GP100	GP310		10TS-T10
C175	47		DTZ-47	NP047	CN0447		10TCC-Q47
C176	.0047		DD-472	GP4700	GP247		5GA-D47
C177	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C178	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C179	100 (100-.001)	(1)	DD-101	GP100	GP310		10TS-T10
C180	47		DTZ-47	NP047	CN0447		10TCC-Q47
C181	.01		WMF1S1	WMF1A110	EW61A110	QF1-91	1PB-S10
C182	47 N750 (22-100)	(1)	DTN-47	N47	CN7447		10TCU-Q47
C183	.0047		DD-472	GP4700	GP247		5GA-D47
C184	.0047		DD-472	GP4700	GP247		5GA-D47
C186	.0047			WMF1D47	EW61A247	QF1-57	1PB-D47
C187	.033			DPMS6S33	EW6133		6PS-S33
C188	.0047(.0022-.047)	(1)	DD-472	GP4700	GP247		5GA-D47
C189	220		DD-221		GP322		10TS-T22
C190	220		DD-221		GP322		10TS-T22
C191	.001			DPMS6D1	EW61A210	QF1-1	1PB-D10
C192	470		DD-471	GP470	GP347		10TS-T47
C196	.033			DPMS6S33	EW6133		6PS-S33
C200	.033			DPMS6S33	EW6133		6PS-S33
C202	10 (0-33)	(1)	DTZ-10	NP010	CN0410		10TCC-Q10
C203	10 (0-22)	(1)	DTZ-10	NP010	CN0410		10TCC-Q10
C204	.0047		DD-472	GP4700	GP247		5GA-D47
C205	47 (0-100)	(1)	DTZ-47	NP047	CN0447		10TCC-Q47
C206	10 (0-47)	(1)	DTZ-10	NP010	CN0410		10TCC-Q10
C207	6.8 (0-15)	(1)	DTZ-6R8	NP06P8	CN0568		10TCC-V68
C208	.0047		DD-472	GP4700	GP247		5GA-D47
C209	.0047		DD-472	GP4700	GP247		5GA-D47
C210	.0047		DD-472	GP4700	GP247		5GA-D47
C220	.033			DPMS6S33	EW6133		6PS-S33
C221	120 (47-220)	(1)	DTZ-120		CN0312		10TCC-T12
C222	120 (47-220)	(1)	DTZ-120		CN0312		10TCC-T12
C223	33 (0-68)	(1)	DTZ-33	NP033	CN0433		10TCC-Q33
C224	10		DTZ-10	NP010	CN0410		10TCC-Q10
C225	1				CN0510		10TCC-V10
C226	.0047		DD-472	GP4700	GP247		5GA-D47
C230	.0047 (0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C232	.0047 (0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C233	.0033 (0-.0047)	(1)	DD-332	GP3300	GP233	QC2-107	5GA-D33
C236	.0047 (0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C237	.0047		DD-472	GP4700	GP247		5GA-D47
C238	.0047 (0-.001)	(1)	DD-472	GP4700	GP247		5GA-D47
C251	470		DD-471	GP470	GP347		10TS-T47
C252	470		DD-471	GP470	GP347		10TS-T47
C255	.0047 (0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C257	.0047		DD-472	GP4700	GP247		5GA-D47
C258	.1 (0-.1)	(1)	DC-104	MS1	TA010	QC2-233	1G-P10
C260	.0047 (0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C262	47 (0-47)	(1)	DTZ-47	NP047	CN0447		10TCC-Q47
C263	.0047 (0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C265	33 (0-33)	(1)	DTZ-33	NP033	CN0433		10TCC-Q33
C270	22 (0-33)	(1)	DTZ-22	NP022	CN0422		10TCC-Q22
C271	22 (0-47)	(1)	DTZ-22	NP022	CN0422		10TCC-Q22
C272	.0047(0-.0047)	(1)	DD-472	GP4700	GP247		5GA-D47
C273	33 (0-33)	(1)	DTZ-33	NP033	CN0433		10TCC-Q33
C274	10 (0-10)	(1)	DTZ-10	NP010	CN0410		10TCC-Q10
C280	.0047		DD-472	GP4700	GP247		5GA-D47
C281	47		DTZ-47	NP047	CN0447		10TCC-Q47
C282	100		DD-101	GP100	GP310		10TS-T10

(1) Value may vary, replace with original value.

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

PARTS LIST AND DESCRIPTION (CONTINUED)

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

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R58	2200 Cold NTC		26069002 (D33A)				

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R2	SWR	20K	26061106 (22)				
R83	Mic Gain/SW	50K					
R3	RF Meter	10K	26061077				U260R103B
R28	S Meter	50K	26061078				U260R503B
R36	Tone	50K	26061107 (21)				
R61	Squelch	20K					
R38	RF Gain	5000	26061108 (20)				
R72	Volume/SW	50K					
R65	ANL	20K	26061109 (19)				
R180	Delta/SW	20K					
R80	AMC	1000	26061111 (18)				
R121	AWI	500	26061073				U260R501B

(18) May be used in some versions

(19) Includes R65, R180 and S4.

(20) Includes R38, R72 and S6.

(21) Includes R36 and R61.

(22) Includes R2, R83 and S2.

TRAM MODEL D42

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke	26025071	L1904-G1		
L2	RF Choke	26025071	L1904-G1		
L3	Final (27MHz)	26025106	25106		
L4	XMT Amp (27MHz)	260025082	25082		
L5	XMT Driver (27MHz)	26025082	25082		
L6	RF Choke	26025072	L1998	74F106AP	
L7	RF Choke (3.3mH)	26025098	332		
L9	RF Choke	26025071	L1904-G1		
L11	VCO (26MHz)	26025082	25082		
L12	VCO (26MHz)	26025085	25085		
L13	XMT Mixer (1MHz)	26025090	25090		
L14	REC Osc (22MHz)	26025086	25086		
L21	RF Choke	26020002	L1447		
L22	RF Choke	26020009			
L23	RF Choke	26020009			
L24	RF Choke	26020002	L1447		
T1	REC Ant (27MHz)	26025087	25087		
T2	REC RF (27MHz)	26025037	L1641		
T3	REC RF (27MHz)	26025038	L1642		
T4	IF (4.665MHz)	26025088	25088		
T5	IF (4.665MHz)	26025088	25099		
T6	IF (45kHz)	26027008	D10753	8812	
T7	IF (45kHz)	26027008	D10753	8812	
T8	IF (45kHz)	26027008	D10753	8812	
T9	XMT Buffer (27MHz)	26025089	25089		
T13	RF Osc (5MHz)	26025088	25088		

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.	
L8	1.2A	.14	1.3mH	25020007 5015 (1)			(1) Number on unit

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T10	8	4.5	26023017 5014 (1)			(1) Number on Unit

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	2" X 6" PM 8 ohms	26015175	26A070Z16	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	2 amp	26014024	26017008	AGC2	HPJ	312002	150145	FG2-2

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
MK1	26015294	18-032	18-034	18-010	18-092	2	1	3	NC	NC	4

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CD9	LED	26010064	XMT (206V @ 9.5mA) SVC0050BR
CD30	LED	A8620550	Channel Display/Tens (1.85V @ 5.3mA)(TLR-312)
CD31	LED	A8620550	Channel Display/Units (1.85V @ 5.3mA)(TLR-312)
J1	Jack	26016024	Antenna
J2	Jack	26016044	Microphone
J3	Jack	26016047	PA
J4	Jack	26016047	Ext Spk.
K1	Relay	26014070	XMT/Rec
M1	Meter	26019025	S/Rf/SWR
PL1	Lamp	26011014	Meter (6.58V @ 30mA)
S1	Switch	26014026	SWR/CAL
S2	Switch	26014026	RF/SWR (Part of SWR CAL Control)
S3	Switch		ANL (Part of ANL Control)
S4	Switch	26014026	N.B.
S5	Switch	26014026	CB/PA
S6	Switch		Power (Part of Volume Control)
S10	Switch	26014072	Channel Selector
U1	Ceramic Filter	26019026	455kHz
U2	Ceramic Filter	26019009	455kHz
X1	Crystal	26015283	5.120MHz
X2	Crystal	26015285	13.157MHz
X3	Crystal	26015284	10.825MHz
	Printed Circuit Board	26001025	Main
	Printed Circuit Board	26001043	Control
	Printed Circuit Board	26001041	Switch
	Printed Circuit Board	26001050	Antenna Filter
	Printed Circuit Board	26001029	Channel Selector SW
	Printed Circuit Board	26001042	LED

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

ITEM	PART No.	ITEM	PART No.
Cabinet Top	26083059	Escutcheon	26084031
Cabinet Bottom	26083060		