

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 934.38081700

MANUFACTURER'S SPECIFICATIONS

Receiver

Frequency Coverage:	All 40 CB Channels (Class D) 26.965 to 27.405 MHz
Sensitivity :	0.5 μ V for 10 dB S + N/N
Selectivity :	50 dB $\pm$ 10 KHz
IF Frequency :	1st IF : 10.695 MHz 2nd IF : 455 KHz
Audio Output :	5W (maximum)
Frequency Response :	400—2000 Hz
Squelch :	Adjustable

Transmitter

Frequency Coverage :	All 40 CB Channels (Class D) 26.965 to 27.405 MHz
Power Output :	4W (maximum)
Emission :	6A3
Modulation :	$\pm$ 90%
Spurious Radiation :	65 dB
RF Frequency Stability :	0.002%
Antenna Impedance :	50 ohms
Semiconductor Complement :	2 IC's 27 Transistors 3 FET's 30 Diodes
Microphone :	Dynamic
Power Requirements :	DC 13.8V positive or negative ground
Dimensions :	2 ³ / ₈ " (H) x 7 ¹ / ₁₆ " (W) x 8 ¹ / ₁₆ " (D) (6.0x19.5x22.0 cm)
Weight :	4 lbs. 7 oz. (2 Kg)

SEARS MODEL 934.38081700

Courtesy of the Manufacturer

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

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ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment.
 Allow a 15-minute warm-up period.
 Adjustments made with 13.3 volt DC input.
 Connect low sides of test equipment to ground unless specified otherwise.
 Connect 50-ohm dummy load or antenna before keying transmitter.
 Connect Microphone.

Suggested Alignment Tools: GC ELECTRONICS
 T101, T103, T104, T701 thru T7059440
 T102, T201, T2025009, 8728, 8728A
 T301 thru T3045000, 5009, 8276, 8728, 8728A
 T305 thru T3039440

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope to TP1 (T302 secondary).	Ch. 19	T302	Adjust for maximum RF output.
Input of frequency counter to TP1 (T302 secondary).	Ch. 19 Fine Tune Midrange		Check for 10.240MHz.
Input of oscilloscope to TP2 (T303 secondary).	Ch. 19	T303	Adjust for maximum RF output.
Input of frequency counter to TP2 (T303 secondary).	Ch. 19 Fine Tune Midrange		Check for 15.360MHz.
Input of DC meter to TP3 (IC301 pin 19).	Ch. 19	T308	Adjust for 1.80 volts.
Input of frequency counter to TP4 (IC301 pin 13).	Ch. 1		Check for .910MHz. Check all channels. (See Truth Chart for correct frequencies).
Input of oscilloscope to TP5 (T301 secondary).	Ch. 19	T301	Adjust for maximum RF output.
Input of frequency counter to TP5 (T301 secondary).	Ch. 1		Check for 16.270MHz. Check all channels. (See Truth Chart for correct frequencies).
Input of oscilloscope to TP6 (T304 secondary).	Ch. 19 XMT	T304	Adjust for maximum RF output.
Input of frequency counter to TP6 (T304 secondary).	Ch. 19 XMT		Check for 10.695MHz.
Input of frequency counter to antenna input.	Ch. 19 XMT	RT102	Adjust for 27.185MHz. Check all channels. See page 4 for channel 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.
 Fine Tune Midrange, RF Gain Maximum, Squelch MINIMUM, NB Off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP7 (Q103 base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T202, T201, T102	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T101, T105	Adjust for maximum output. If necessary readjust T102, T201 and T202.

RECEIVER ALIGNMENT (Continued)

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Input of oscilloscope to TP8 (Q107 base)	Ch. 19	T104,T103	Set generator output for 10db signal to noise plus noise ratio of receiver. Inject a 100pps, 1uSec pulse signal at antenna input. Switch Noise Blanker on. Adjust for maximum amplitude of pulses.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Fine Tune Midrange, RF Gain Maximum, Squelch MINIMUM, NB Off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 50,000uV.	Ch. 19	RT101	SENSITIVITY Set volume RV401 for 0db. Decrease generator output to 50uV. Adjust so that audio does not drop more than 10db.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19	RT1	S METER Adjust for 9 on S scale of meter

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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 RF wattmeter and 50 ohm, 25 watt dummy load to antenna input.	Ch. 19 Cal Off SWR Off	T305,T306, T307,T701, T702,T703	Adjust for maximum RF output.
Input of RF wattmeter and 50 ohm, 25 watt dummy load to antenna input.	Ch. 19 Cal Off SWR Off	T704,T705	Adjust for 4.0 watts RF output maximum.

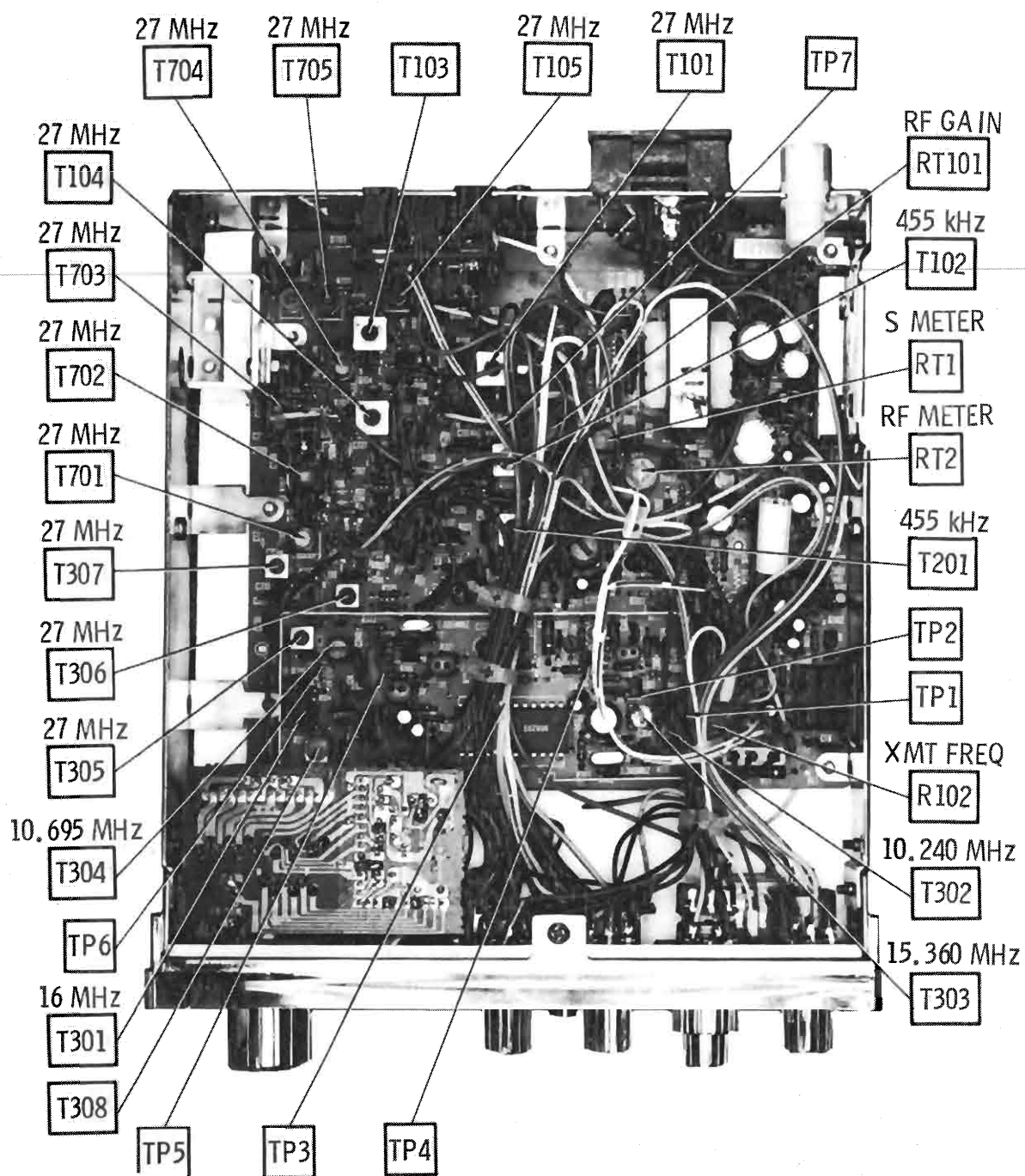
TRANSMITTER ADJUSTMENTS

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.

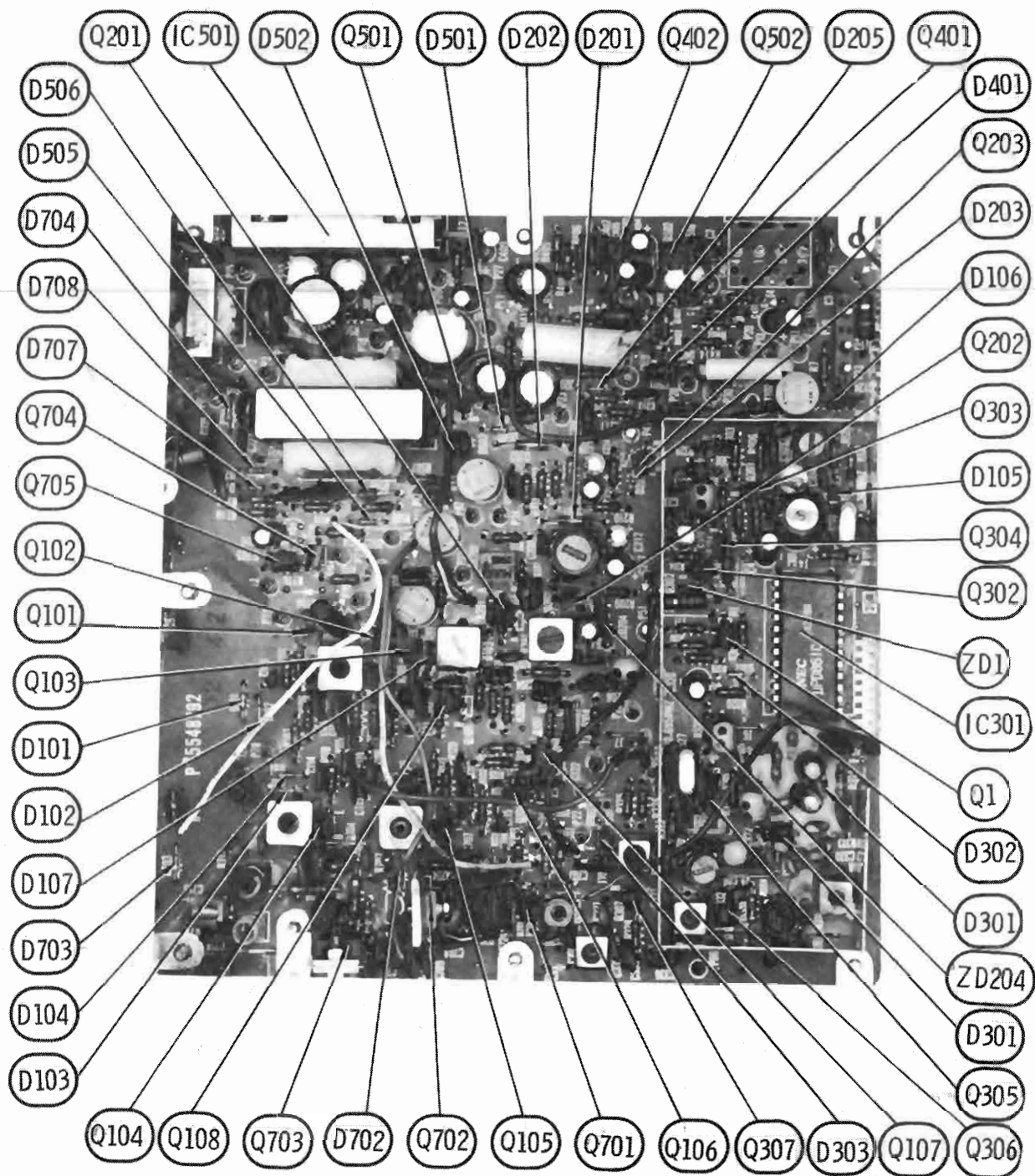
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of RF wattmeter and 50 ohm, 25 dummy load to antenna input.	Ch. 19 Cal Off SWR Off	RT2	RF METER Adjust so that RF meter agrees with RF wattmeter.

TRUTH CHART

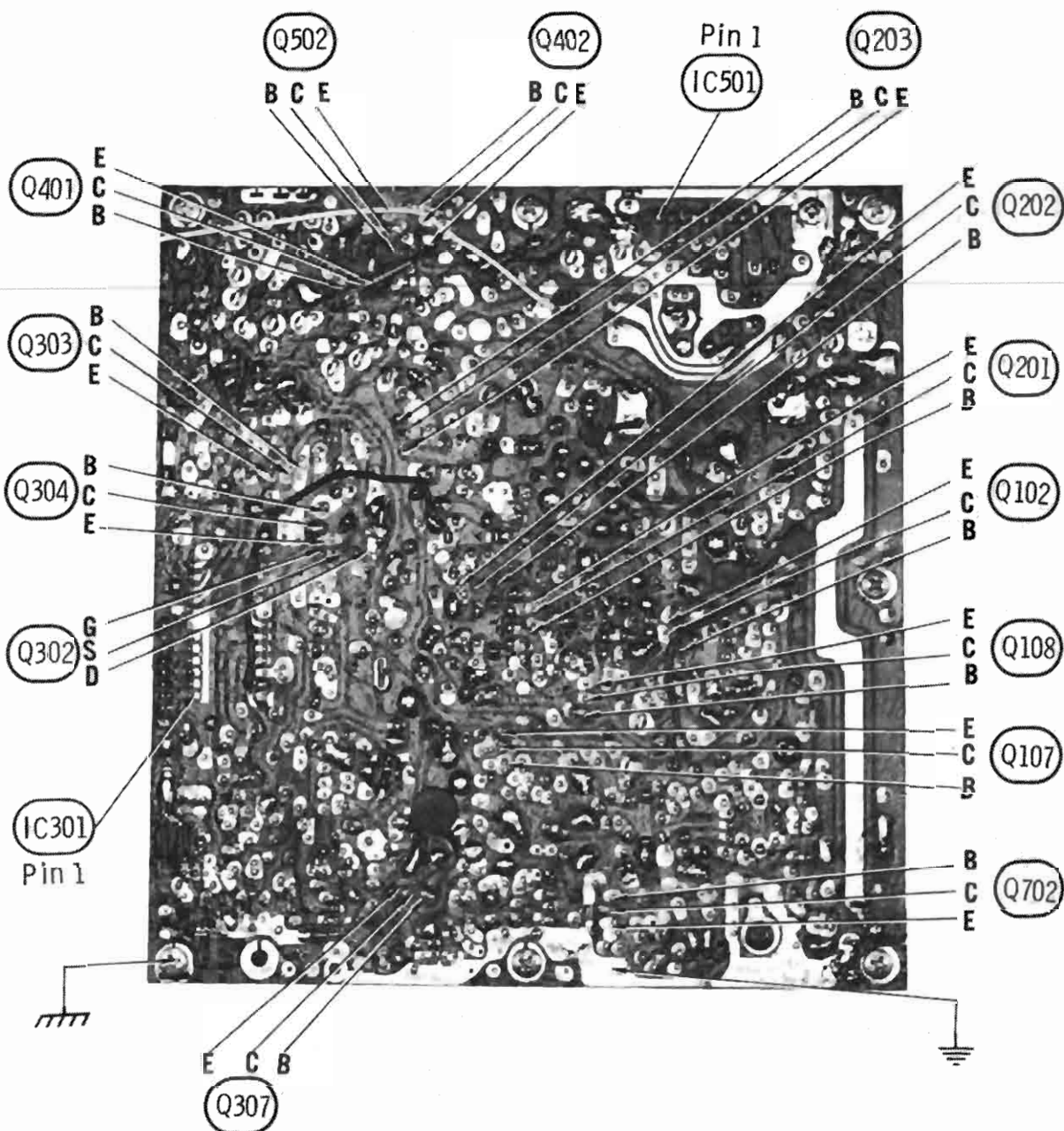
C H A N N E L	1 = 5.16 Volts 0 = 0 Volts								DIVIDER INPUT IN MHz AT TP4	REC & XMT SYNTHESIZER IN MHz AT TP5	
	IC301 PROGRAM DIVIDER										
	PINS										
	6	5	4	3	2	1					
1	0	0	0		0	1			.910	16.270	
2	0	0	0	0	1	0			.920	16.280	
3	0	0	0	0	1	1			.930	16.290	
4	0	0	0	1	0	0			.950	16.310	
5	0	0	0	1	0	1			.960	16.320	
6	0	0	0	1	1	0			.970	16.330	
7	0	0	0	1	1	1			.980	16.340	
8	0	0	1	0	0	0			1.000	16.360	
9	0	0	1	0	0	1			1.010	16.370	
10	0	1	0	0	0	0			1.020	16.380	
11	0	1	0	0	0	1			1.030	16.390	
12	0	1	0	0	1	0			1.050	16.410	
13	0	1	0	0	1	1			1.060	16.420	
14	0	1	0	1	0	0			1.070	16.430	
15	0	1	0	1	0	1			1.080	16.440	
16	0	1	0	1	1	0			1.100	16.460	
17	0	1	0	1	1	1			1.110	16.470	
18	0	1	1	0	0	0			1.120	16.480	
19	0	1	1	0	0	1			1.130	16.490	
20	1	0	0	0	0	0			1.150	16.510	
21	1	0	0	0	0	1			1.160	16.520	
22	1	0	0	0	1	0			1.170	16.530	
23	1	0	0	0	1	1			1.200	16.560	
24	1	0	0	1	0	0			1.118	16.540	
25	1	0	0	1	0	1			1.119	16.550	
26	1	0	0	1	1	0			1.210	16.570	
27	1	0	0	1	1	1			1.220	16.580	
28	1	0	1	0	0	0			1.230	16.590	
29	1	0	1	0	0	1			1.240	16.600	
30	1	1	0	0	0	0			1.250	16.610	
31	1	1	0	0	0	1			1.260	16.620	
32	1	1	0	0	1	0			1.270	16.630	
33	1	1	0	0	1	1			1.280	16.640	
34	1	1	0	1	0	0			1.290	16.650	
35	1	1	0	1	0	1			1.300	16.660	
36	1	1	0	1	1	0			1.310	16.670	
37	1	1	0	1	1	1			1.320	16.680	
38	1	1	1	0	0	0			1.330	16.690	
39	1	1	1	0	0	1			1.340	16.700	
40	0	0	0	0	0	0			1.350	16.710	



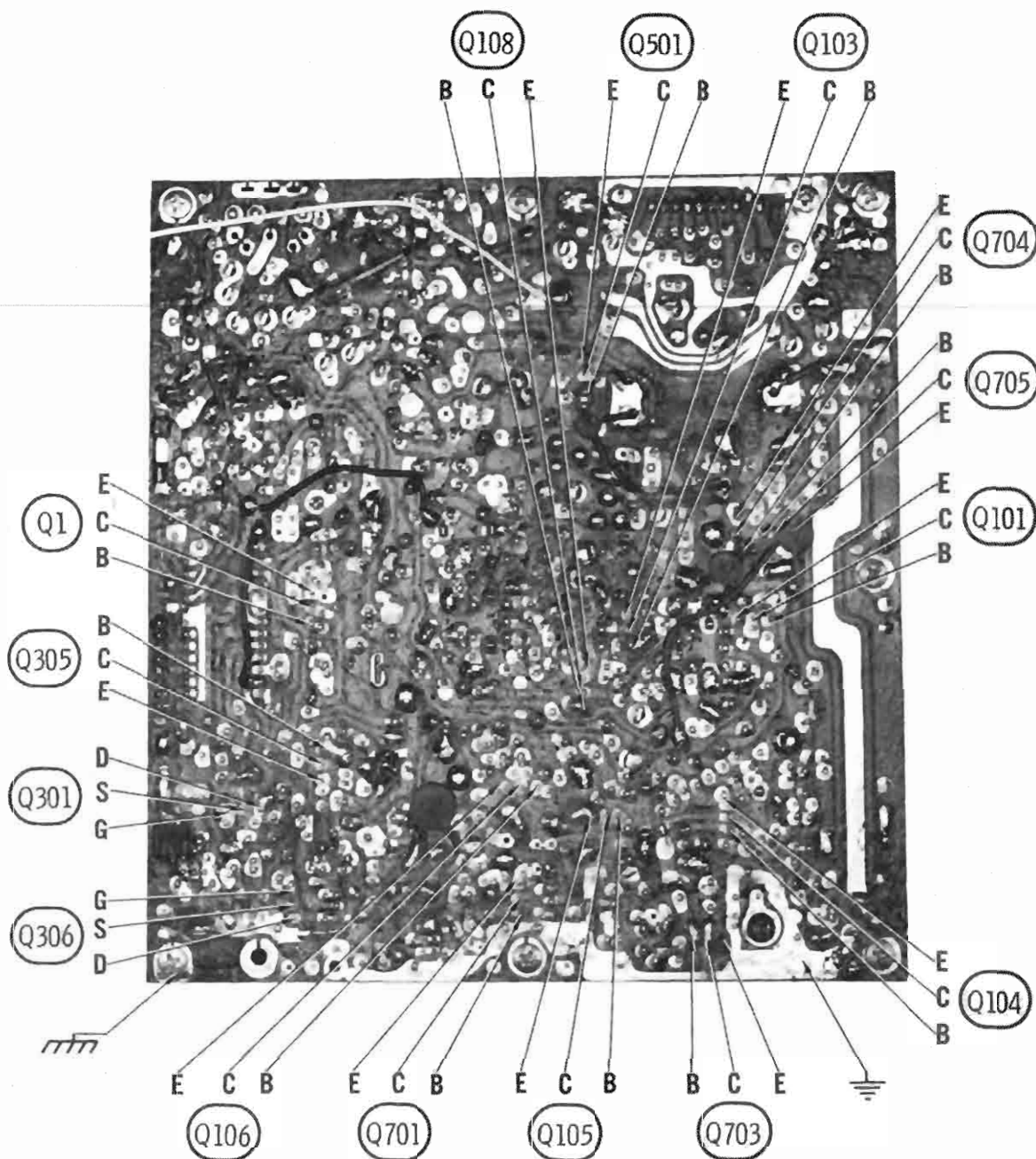
CHASSIS-BOTTOM



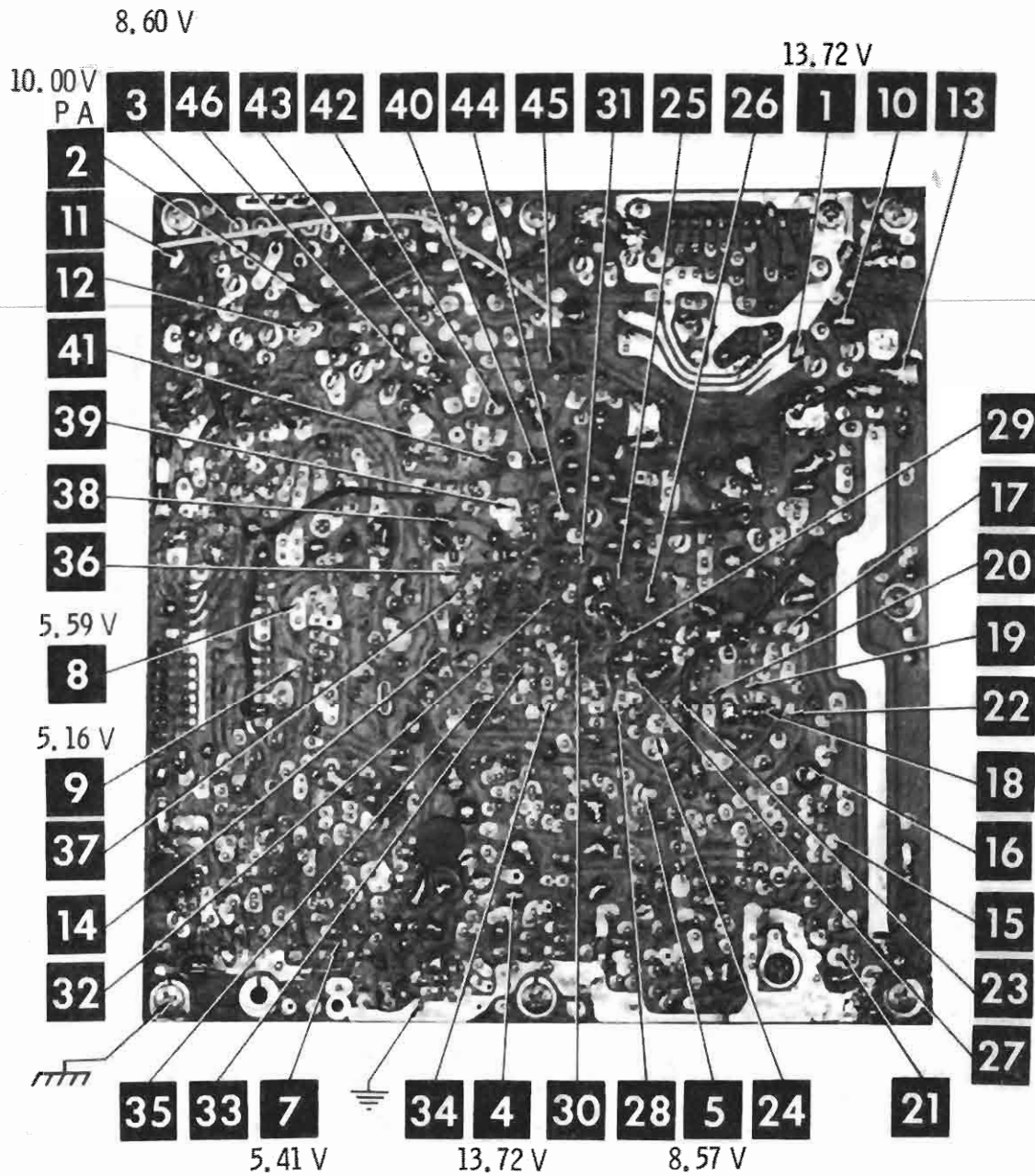
MAIN BOARD



MAIN BOARD

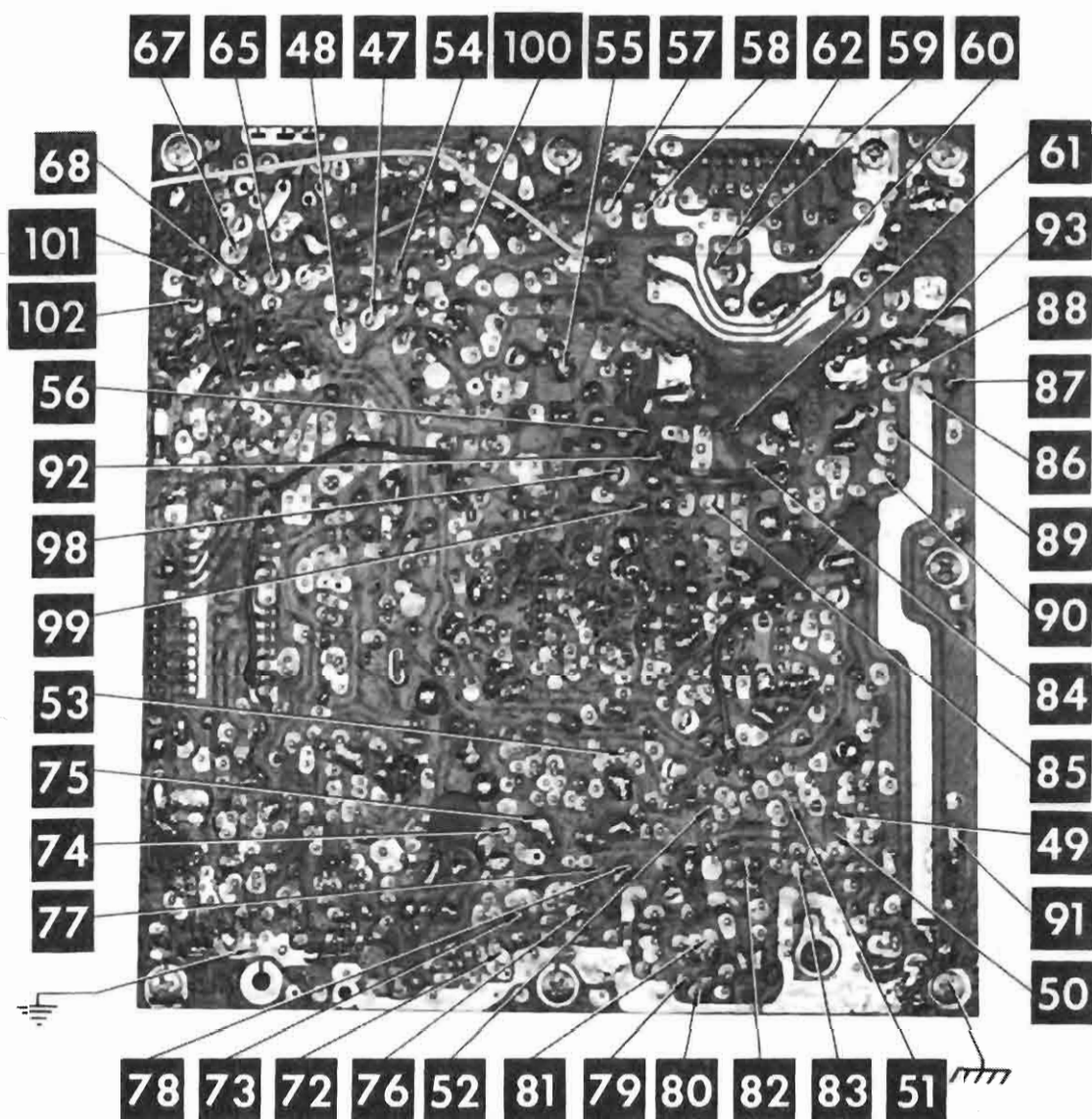


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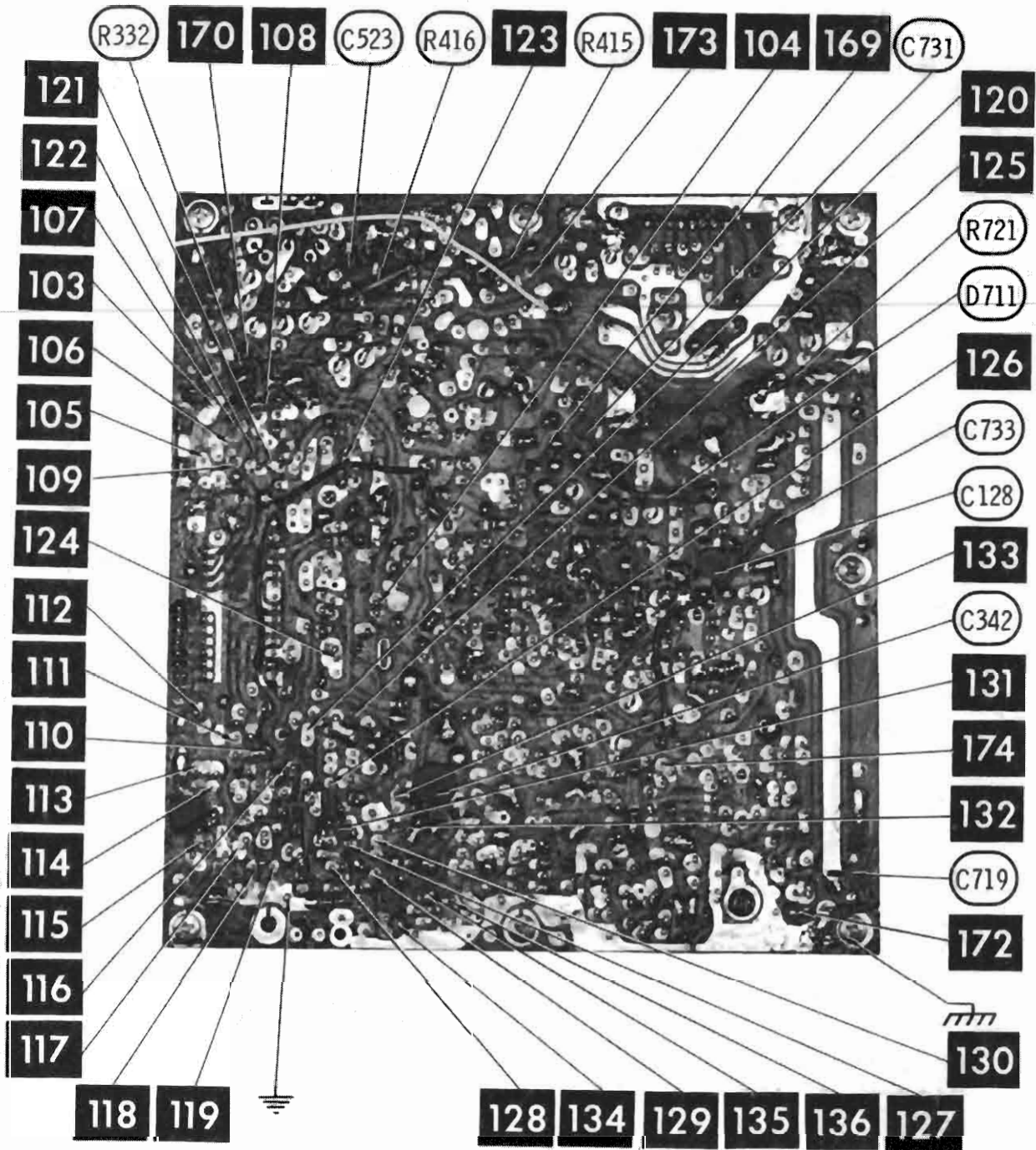


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MAIN BOARD

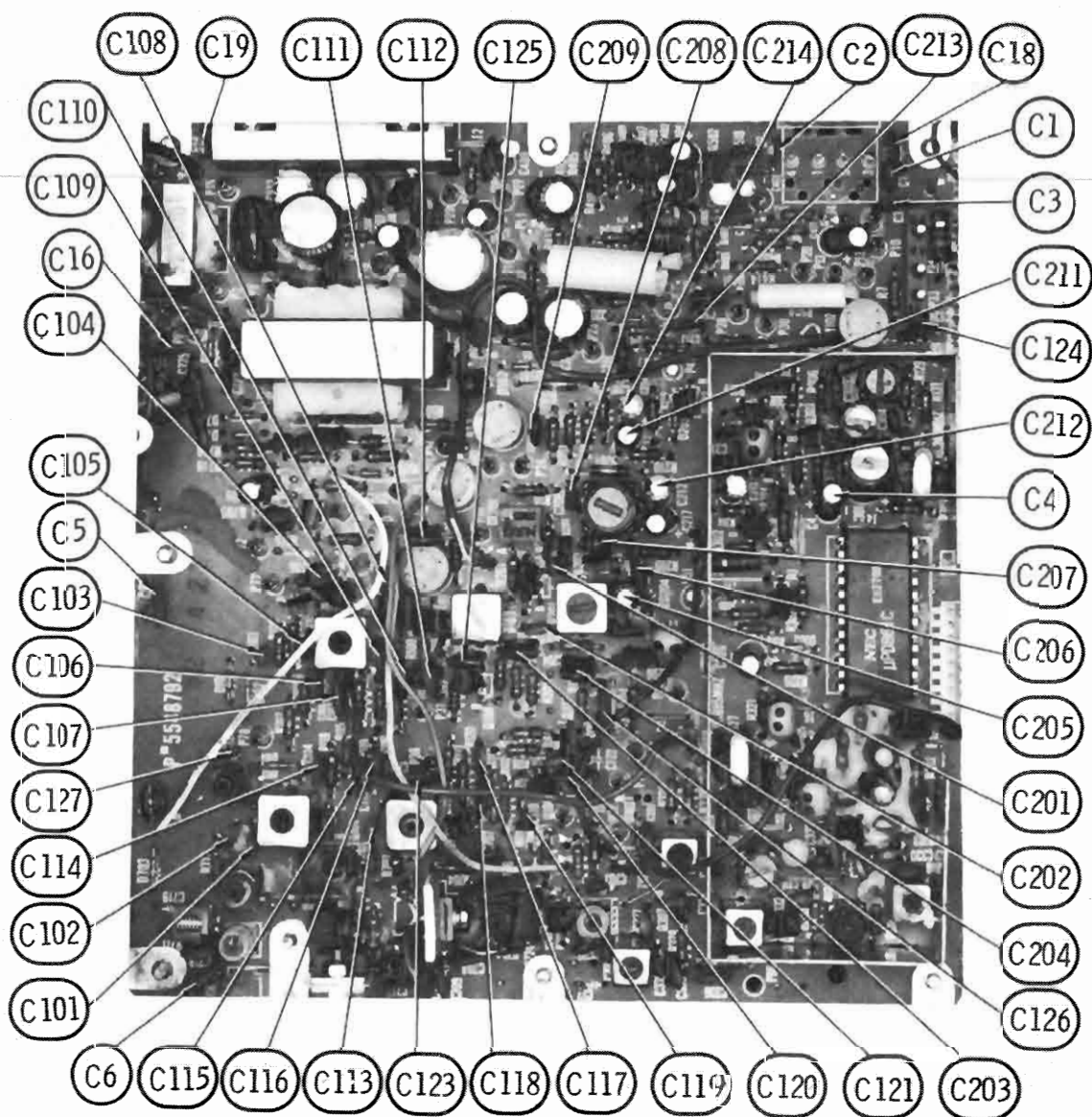


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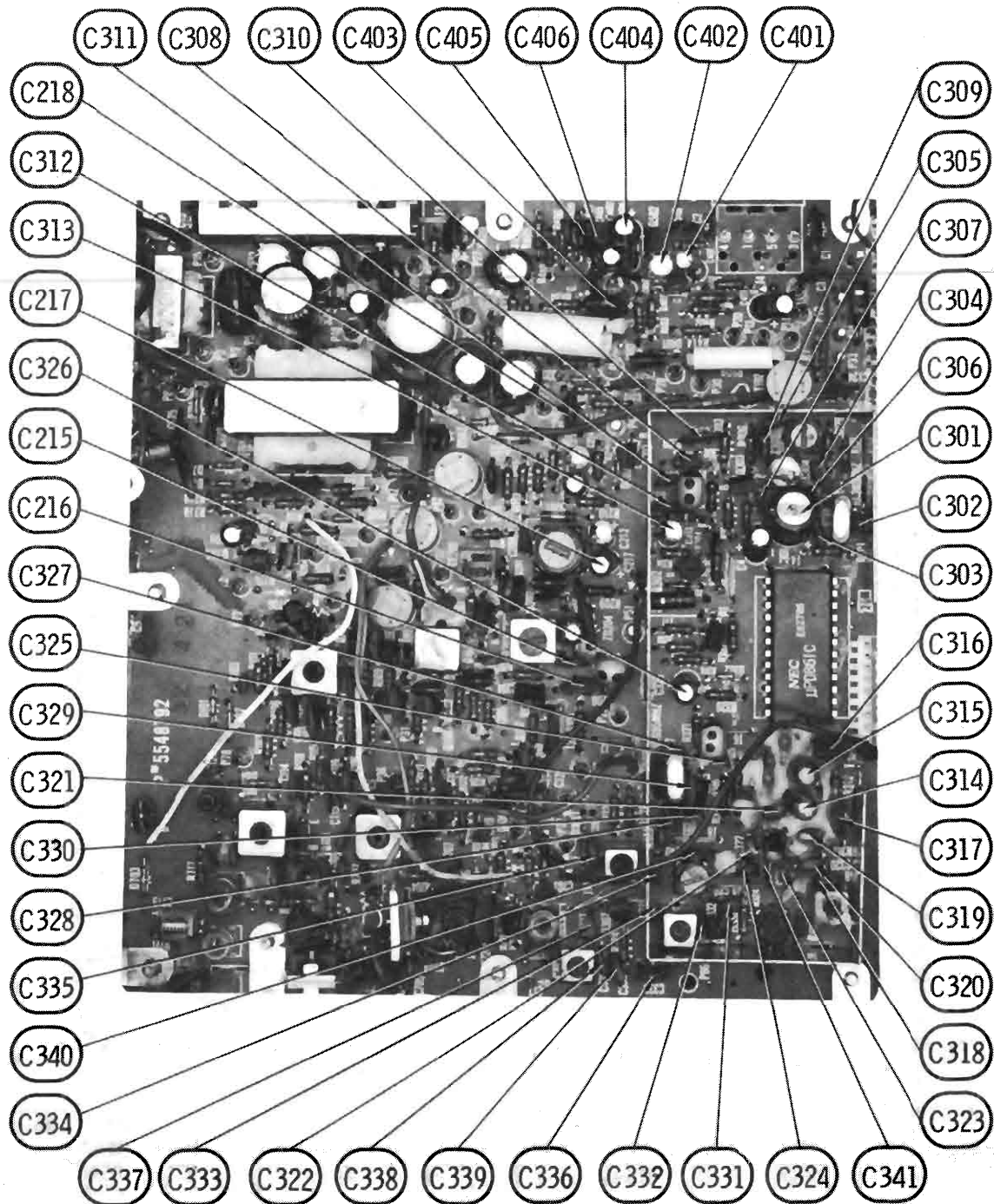


SEARS MODEL 934.38081700

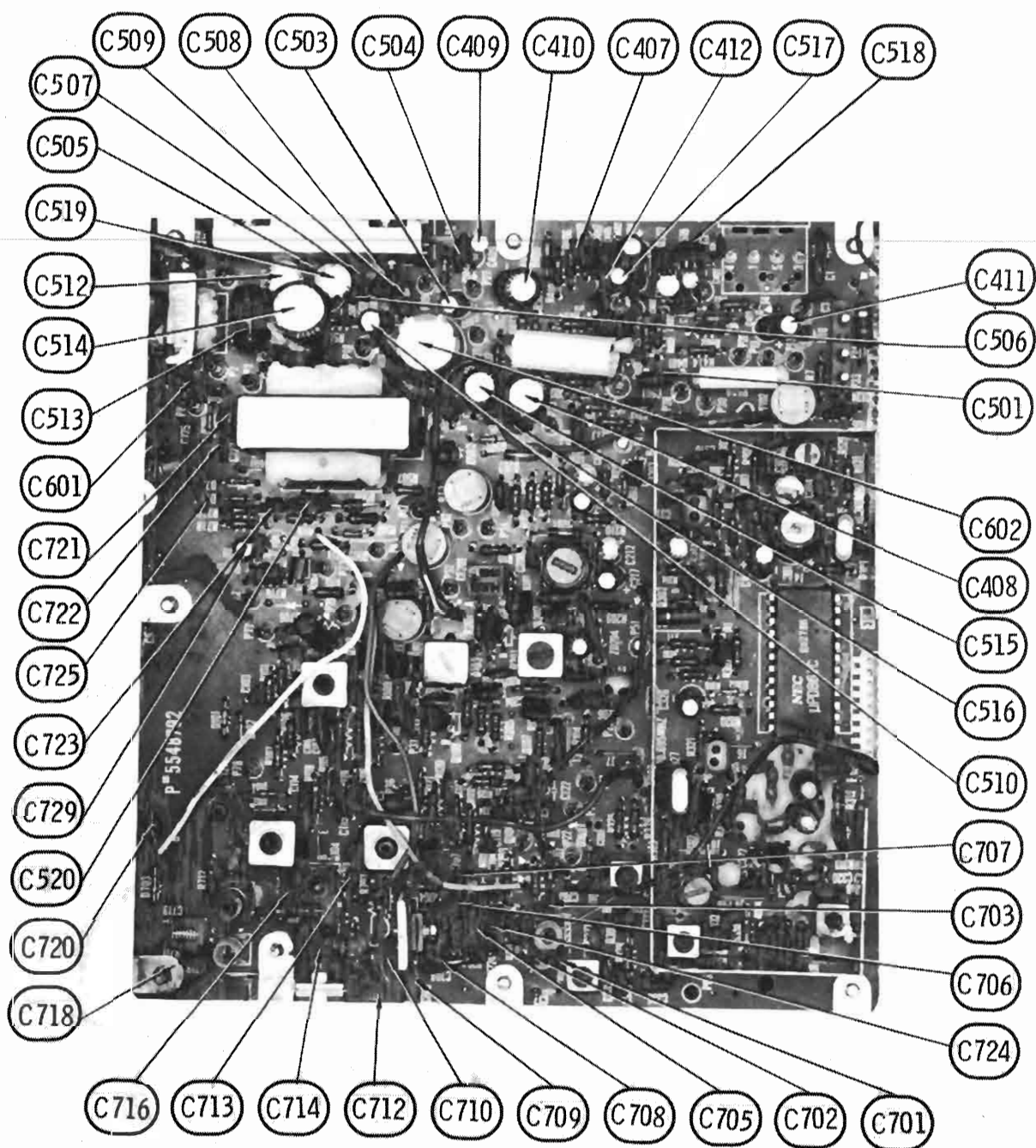
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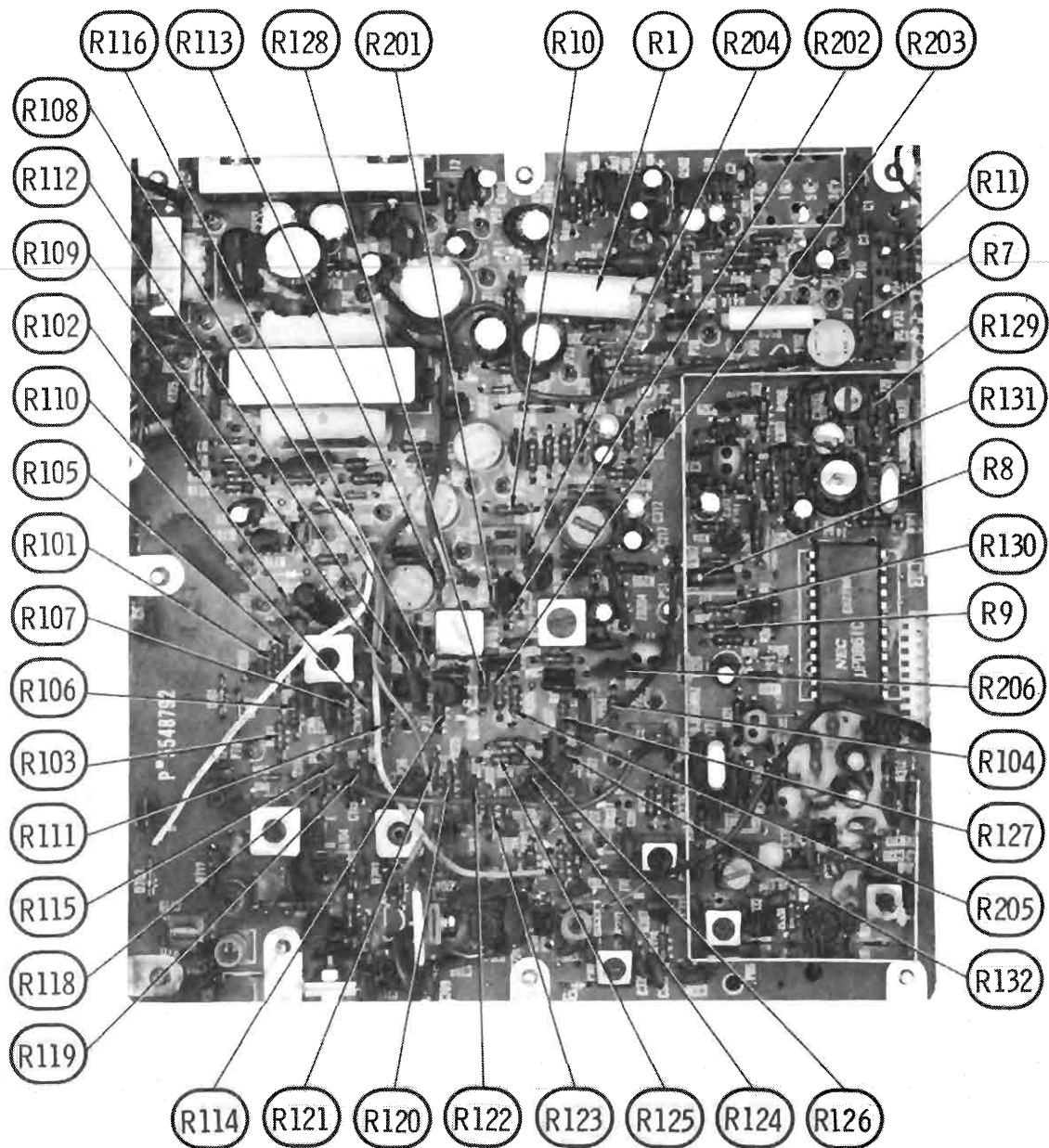


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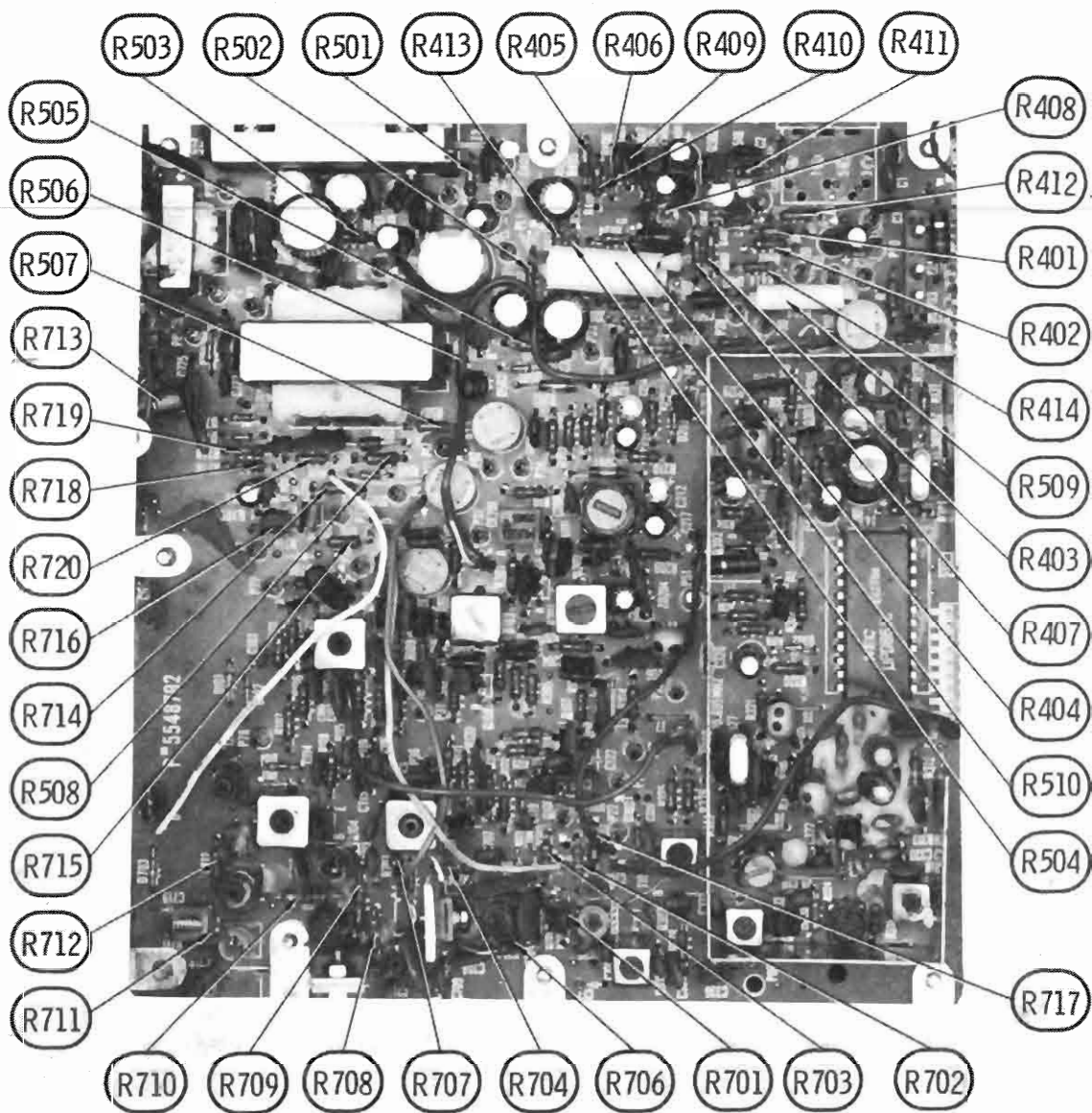


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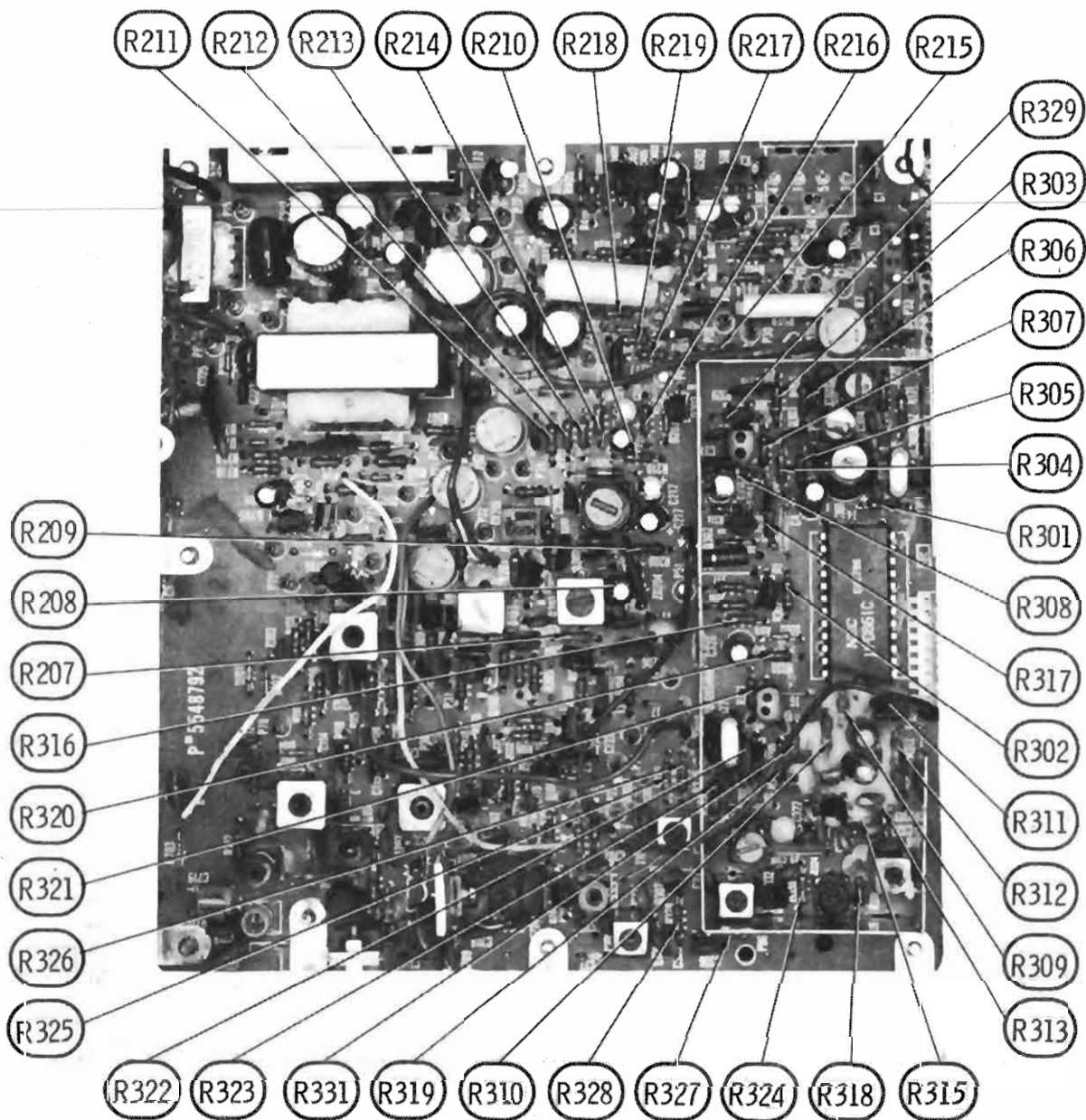




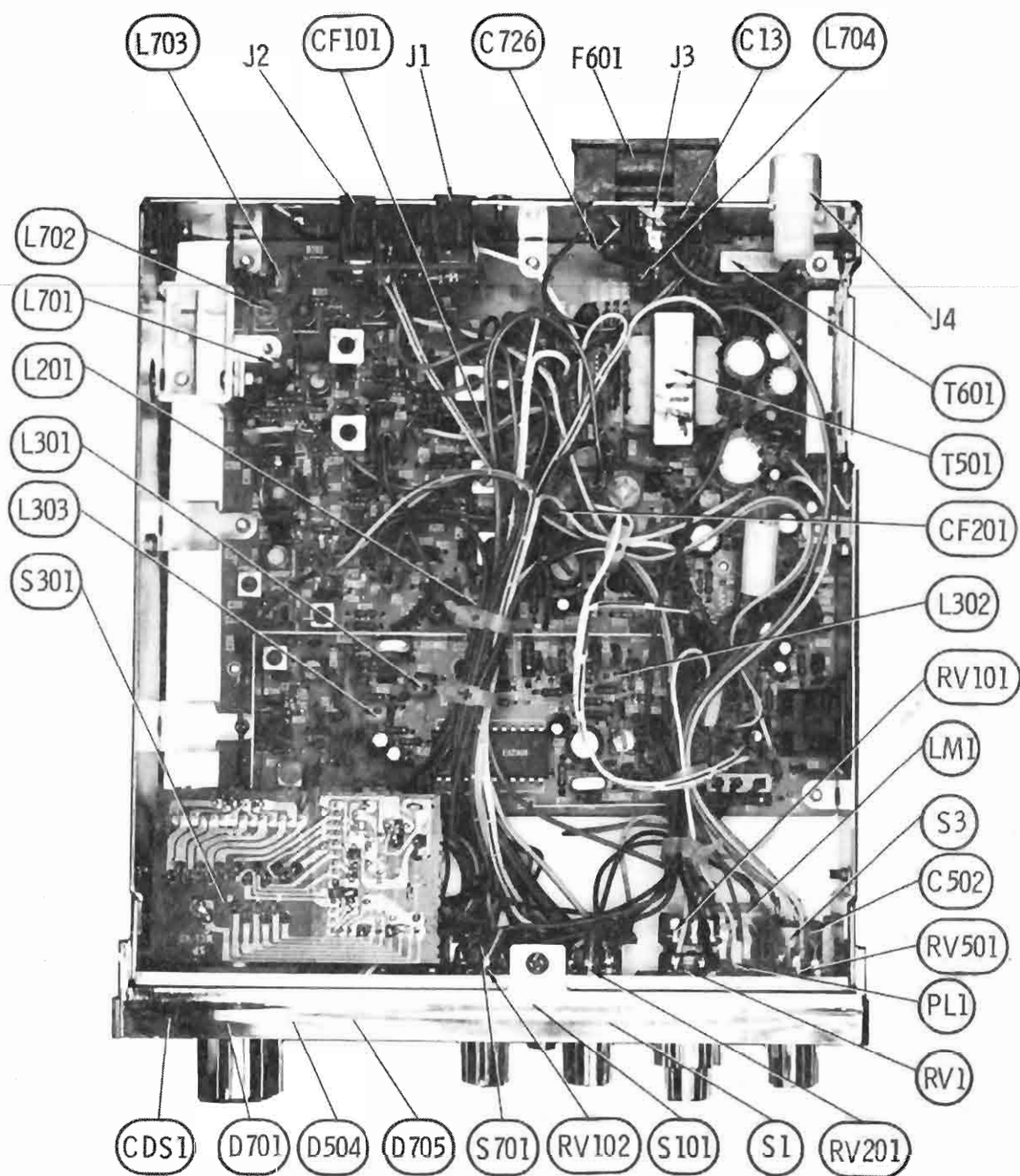
MAIN BOARD



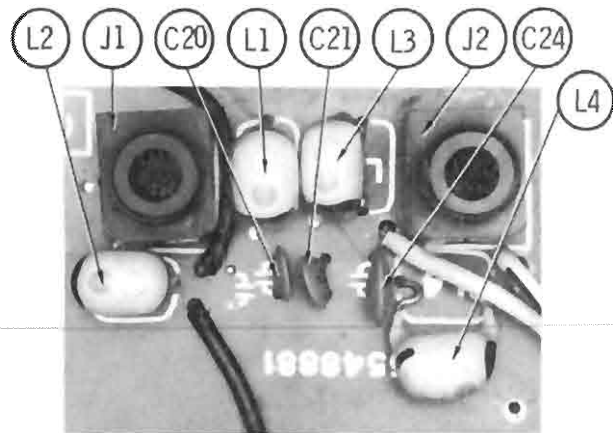
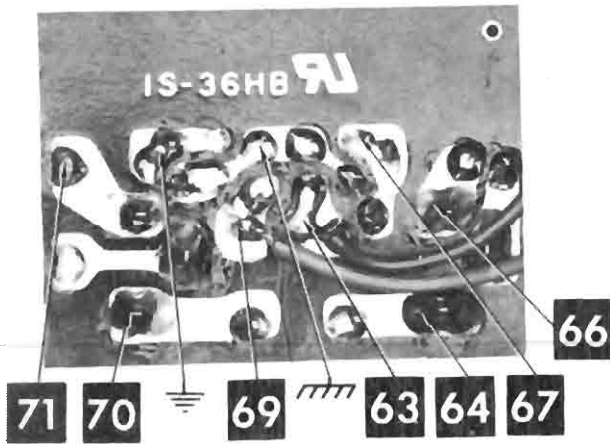
MAIN BOARD



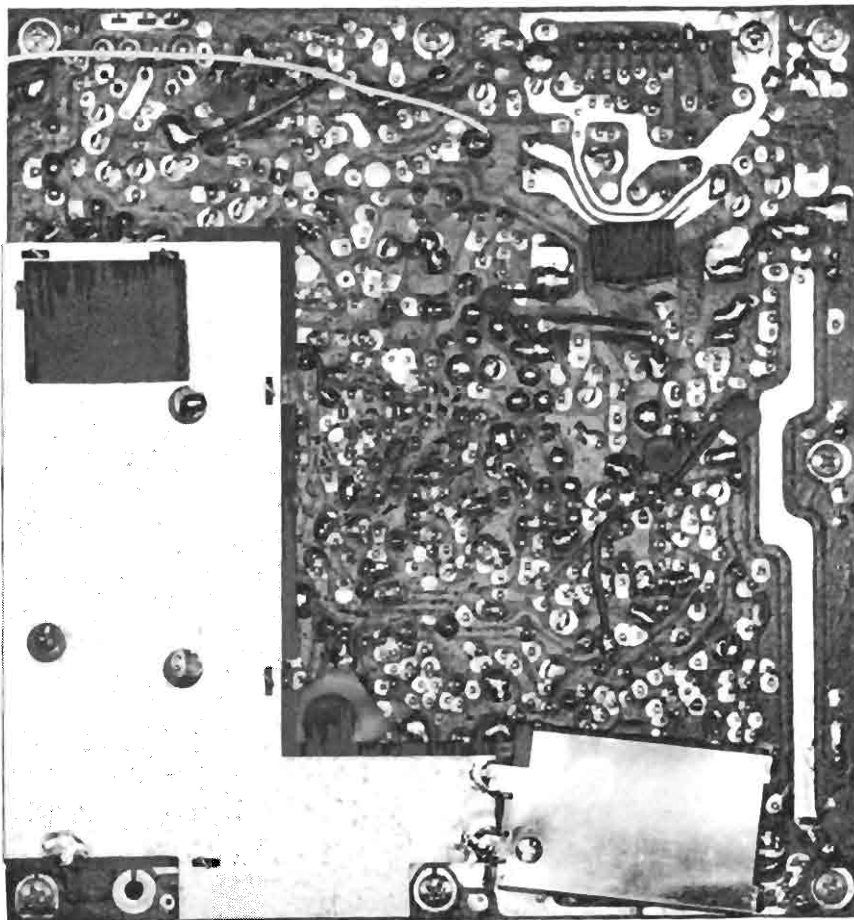
MAIN BOARD



CHASSIS-BOTTOM

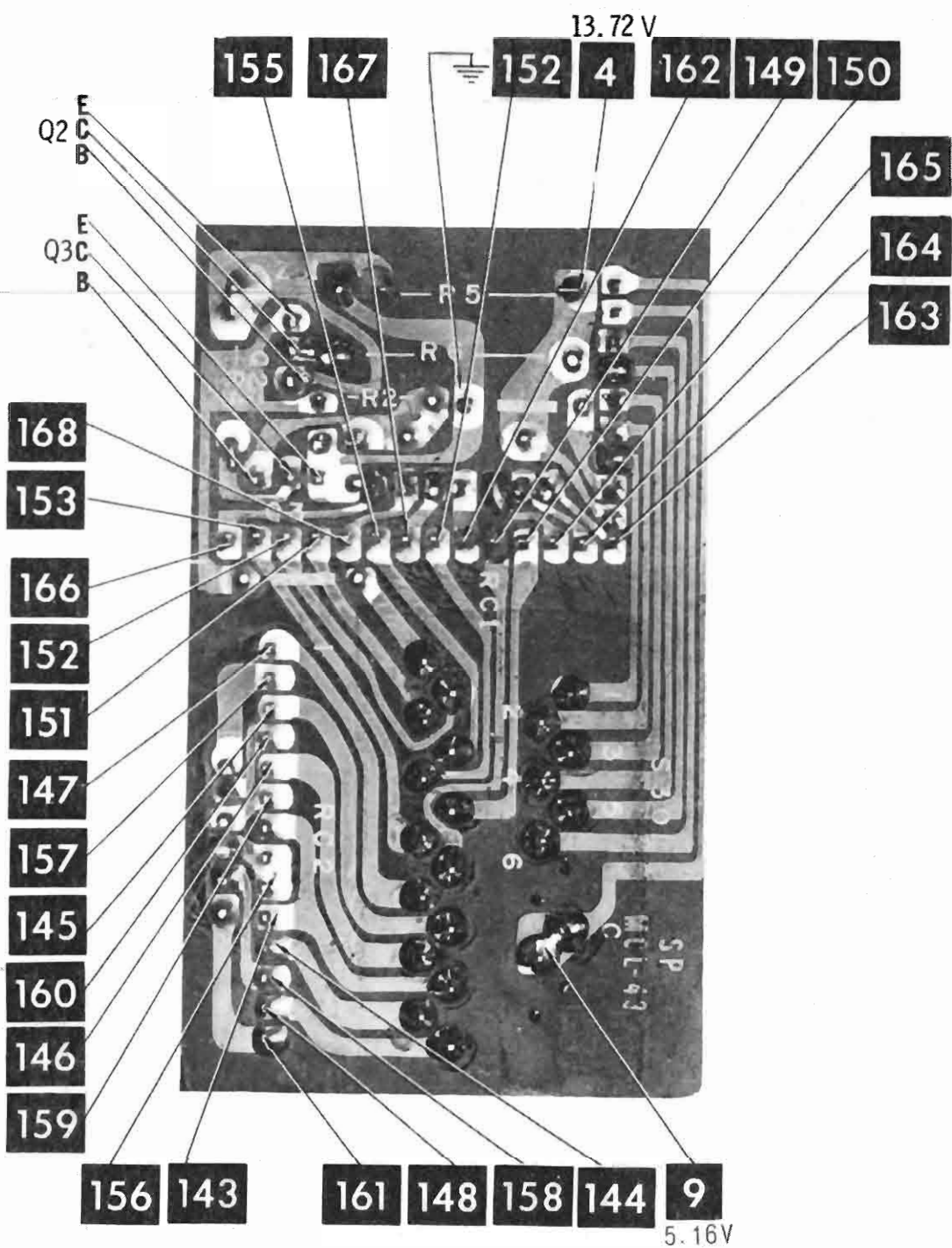


JACK BOARD

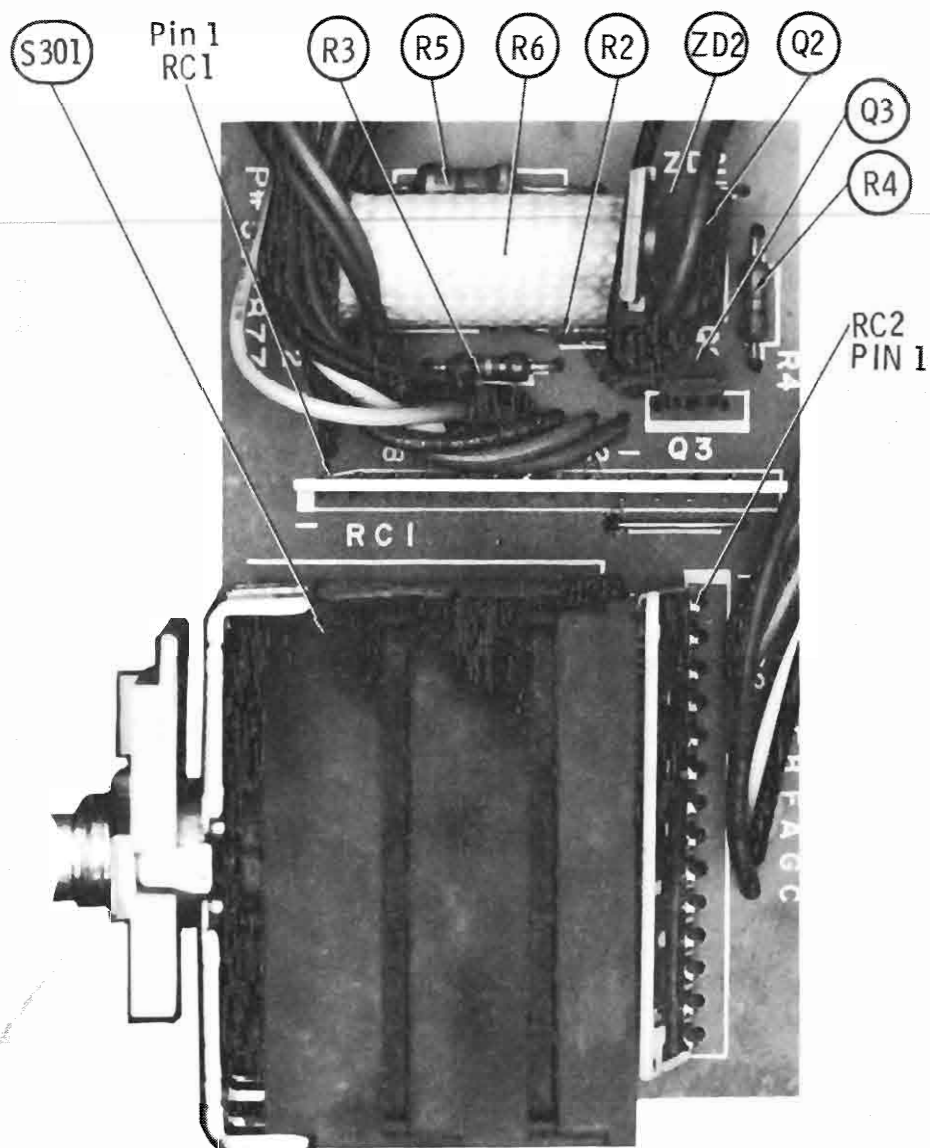


SHIELD LOCATION

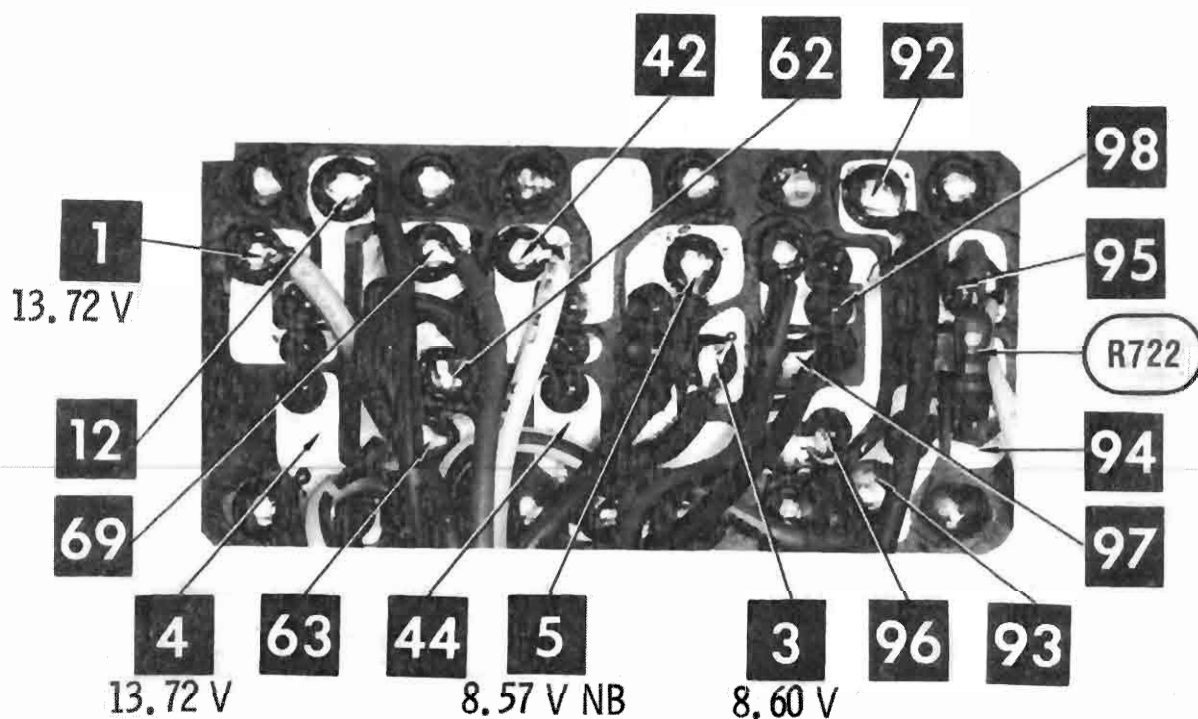
SEARS MODEL 934.38081700



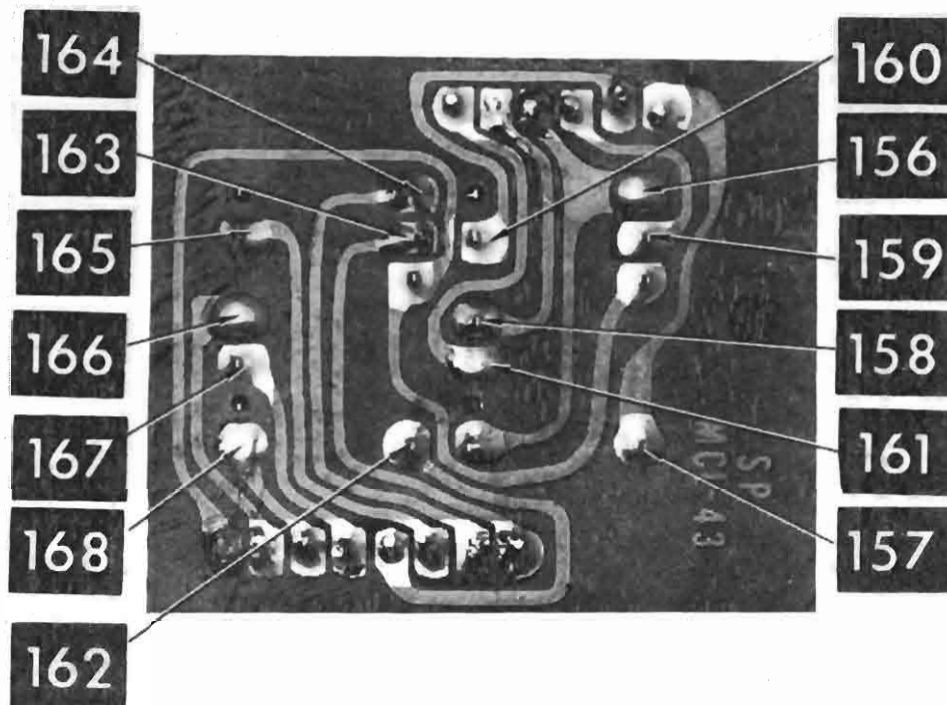
CHANNEL SELECTOR BOARD



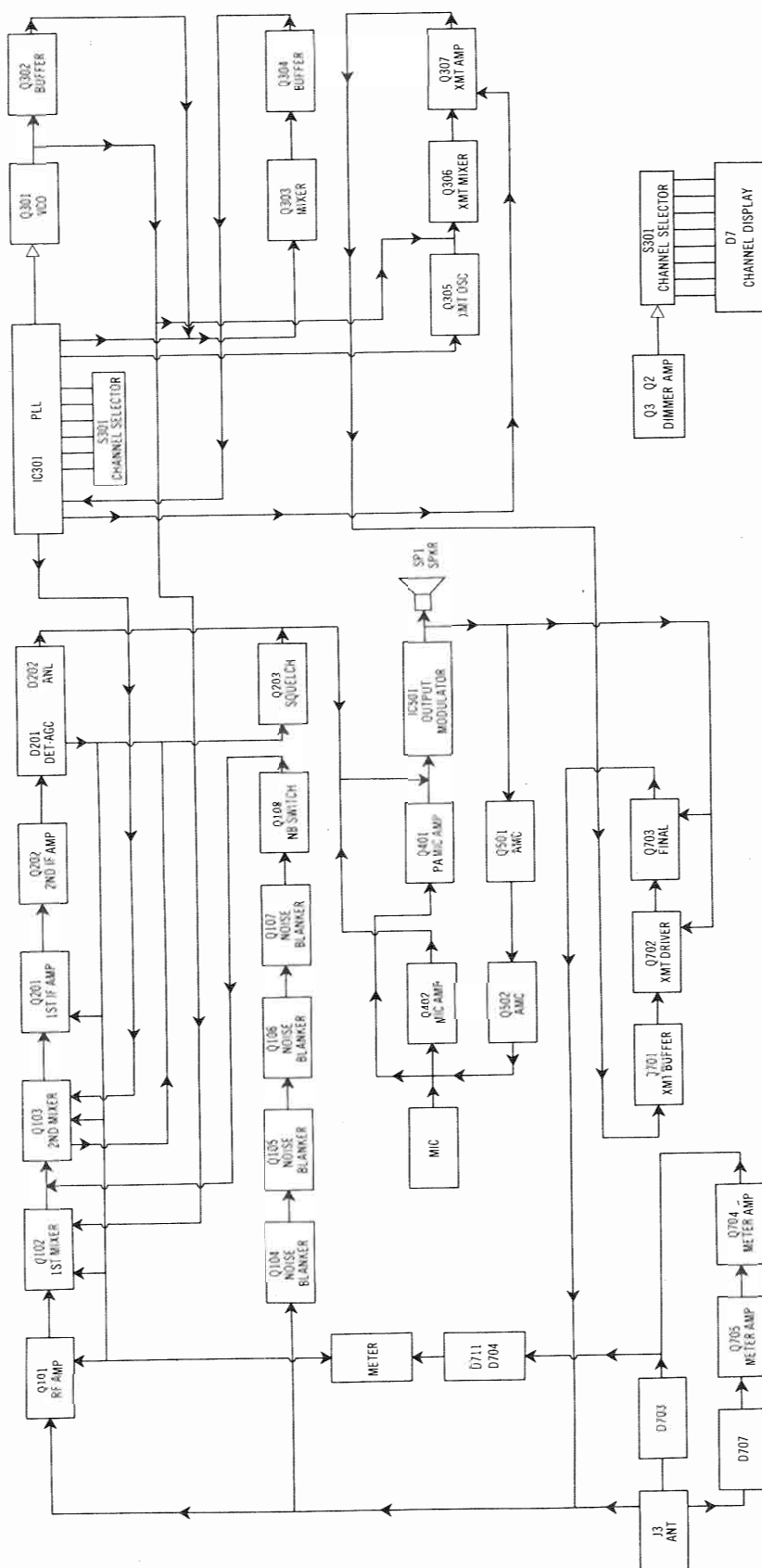
CHANNEL SELECTOR BOARD



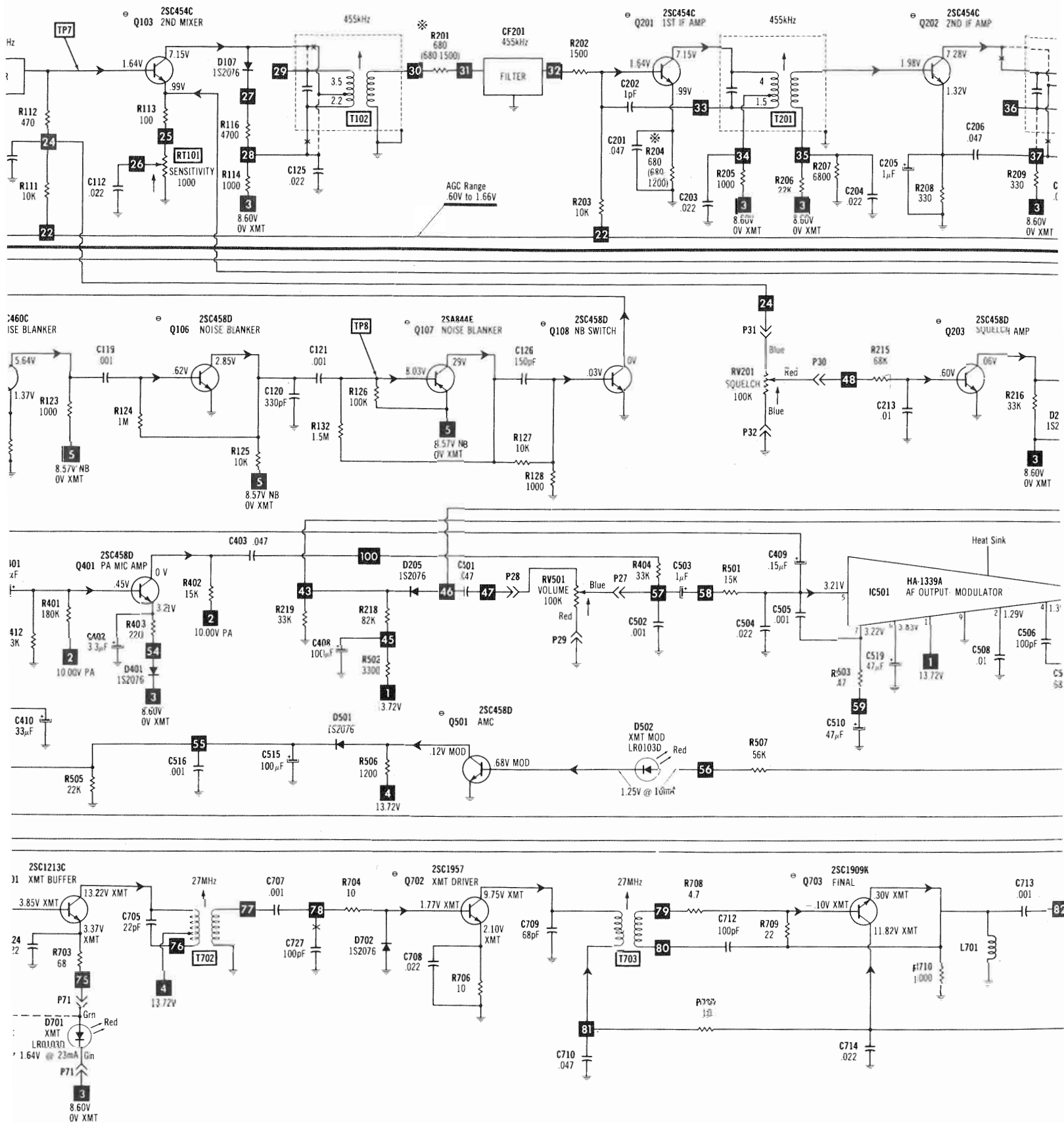
SWITCH BOARD



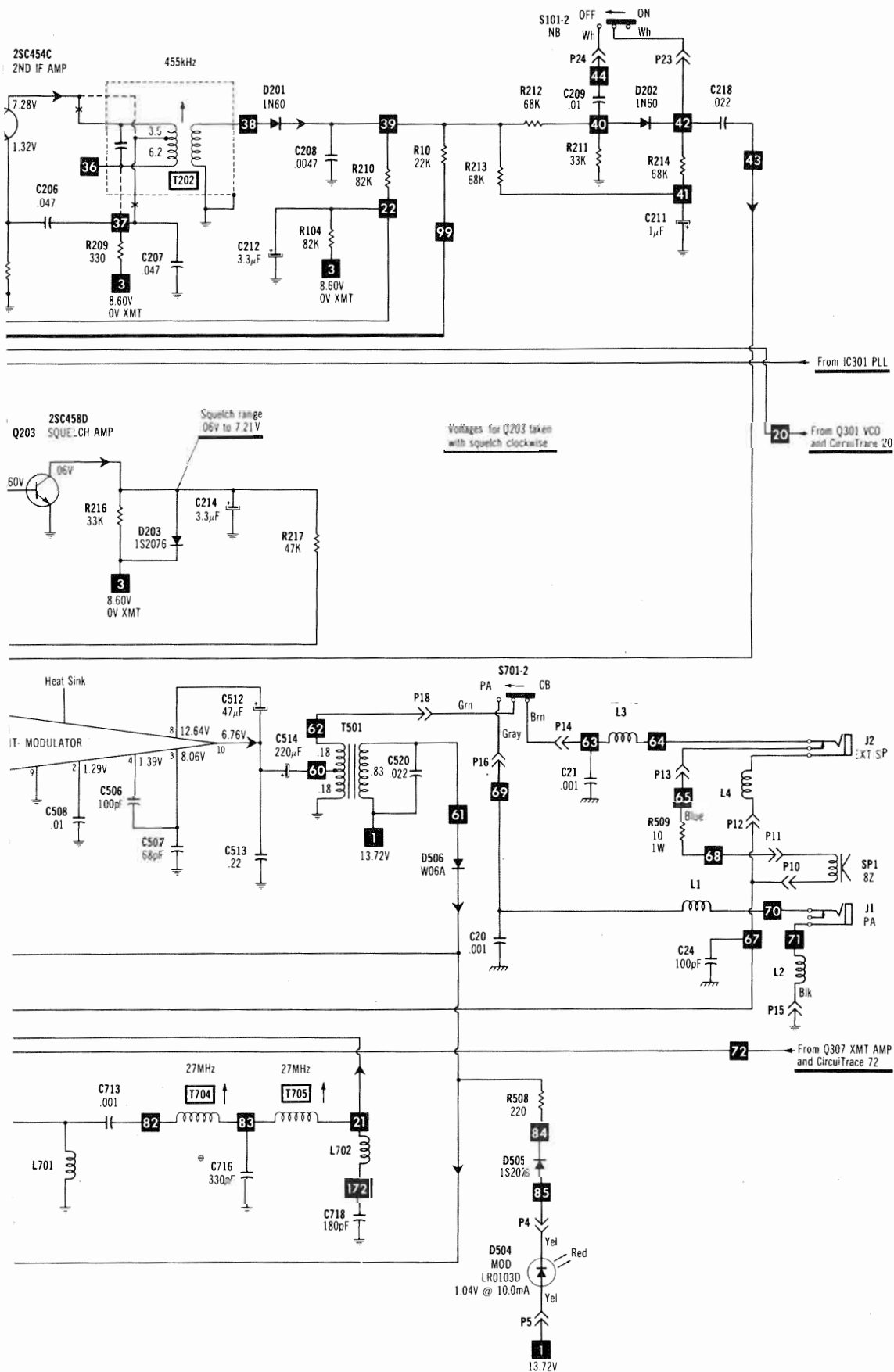
LED READOUT BOARD

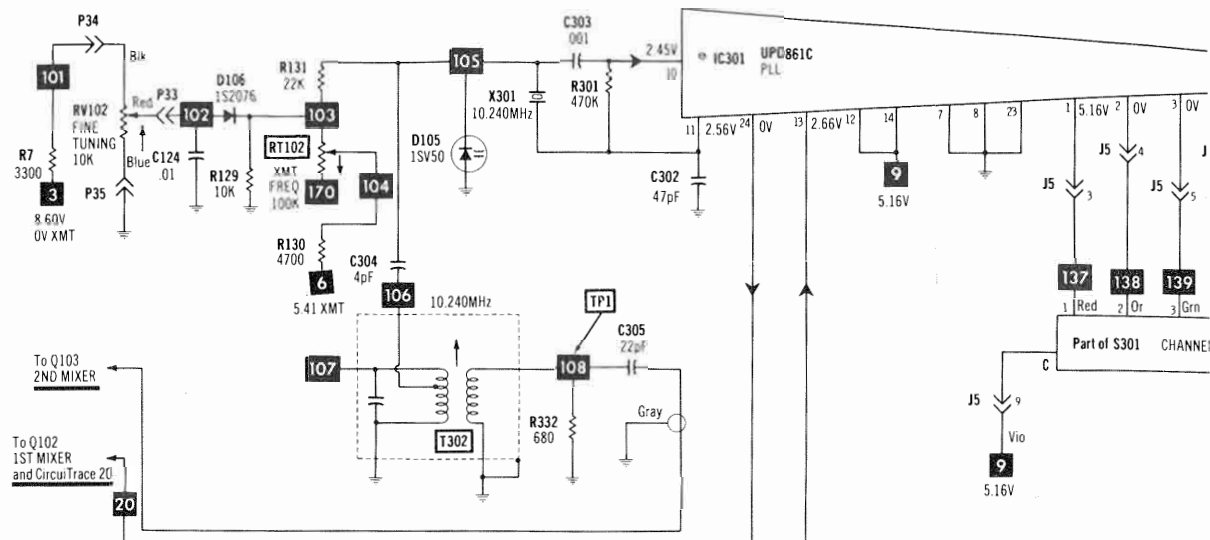


BLOCK DIAGRAM

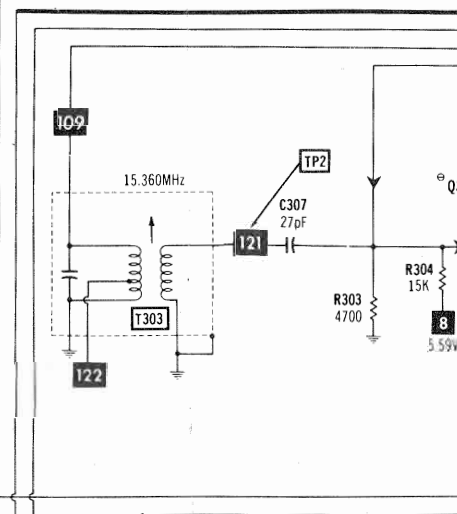
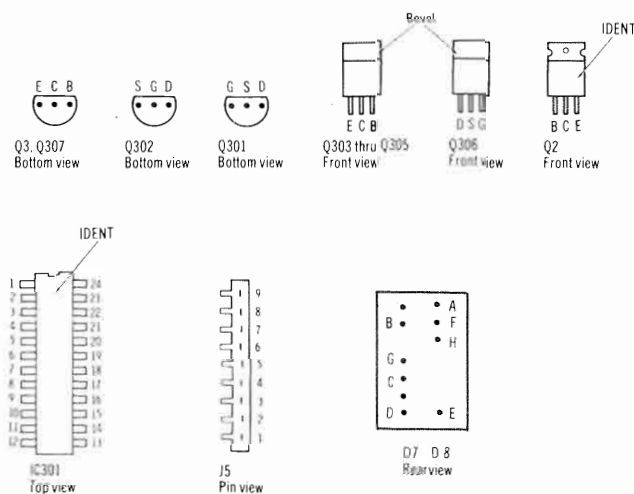


MAIN CB SCHEMATIC





Terminal Guides



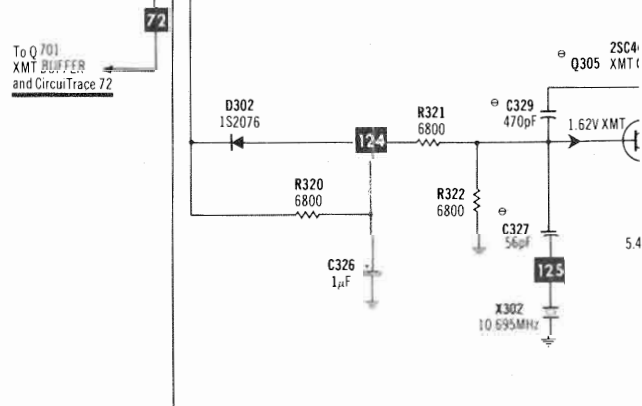
- ✖ Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ✳ Nominal value
- ⊥ Ground
- ⌞ Chassis
- ▽ Common tie point
- ⤴ Signal path
- ⤵ Voltage path

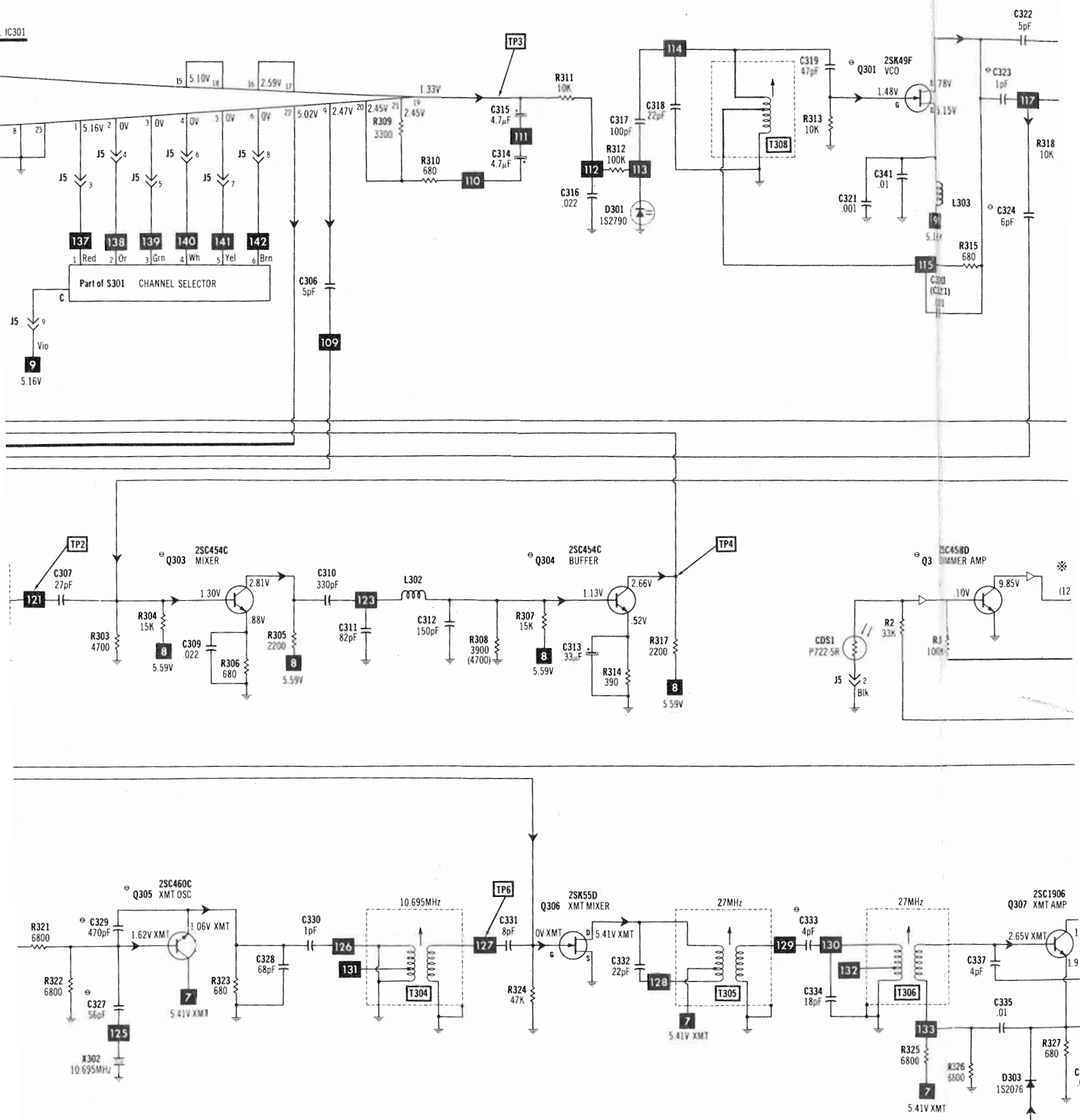
Measurements made in Channel 1 with switching as shown unless noted.
Item numbers in rectangles appear in the alignment/adjustment instructions.
Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Arrow at control indicates 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 T STANDARD NOTATION SCHEMATIC

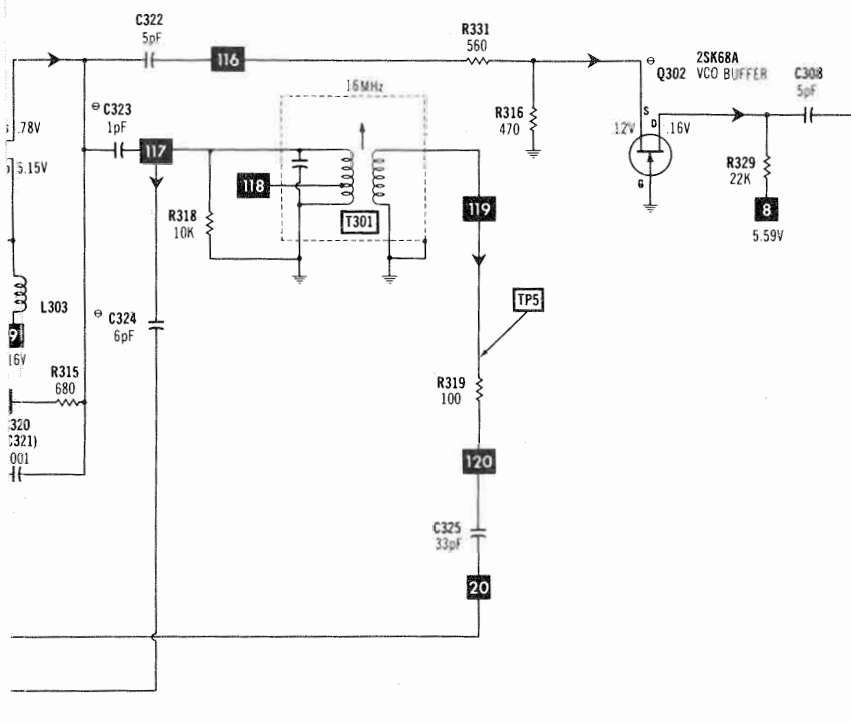
WITH **CIRCUITRACE®**

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PLL SCHEMATIC



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	(6') BELDEN No. 17106	4-conductor (unshielded)	31AWG BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	5-conductor (1 shielded)	23AWG BELDEN No. 8415 (6')
			28AWG BELDEN No. 9467 (6')
			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.
D101	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D102	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D103	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D104	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D105	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D106	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D107	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D201	1N60	0575005	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109	WEP134	103-29001
D202	1N60	0575005	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109	WEP134	103-29001
D203	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D205	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D301	1S2790	5330661	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D302	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D303	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D401	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D501	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D505	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D506	W06A	5330341	GE-504A	PTC201	HEPRO052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
D601	W06A	5330341	GE-504A	PTC201	HEPRO052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
D702	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D703	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D704	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D707	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D708	1S2076	5330133	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D711	1N60	0575005	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109	WEP134	103-29001
IC301	UPD861C	5359262										
IC501	HA1339A	5350491	GE1C-64				SK3708		ECG1169			
Q1	2SA844E	5321253	GE-244*	PTC103*	HEPS0019*	REN 129*	SK3114	RT-126A*	ECG129*	TM129*	WEP60*	121-29005
Q2	2SC1061E	5320671	GE-66*	PTC103*	HEPS0019*	REN 129*	SK3114	RT-126A*	ECG129*	TM129*	WEP60*	121-29005
Q3	2SC1061T	5320671	GE-66*	PTC103*	HEPS0019*	REN 129*	SK3114	RT-126A*	ECG129*	TM129*	WEP60*	121-29005
Q101	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q102	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q103	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q104	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q105	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q106	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q107	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q108	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q201	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q202	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q203	2SC458D	5320064	GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289**	WEP458	121-773
Q301	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q302	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q303	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q304	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q305	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q306	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q307	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q308	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q309	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q310	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q311	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q312	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q313	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q314	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q315	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q316	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q317	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q318	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q319	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q320	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q321	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q322	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q323	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q324	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q325	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q326	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q327	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q328	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q329	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q330	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q331	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q332	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q333	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q334	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q335	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q336	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q337	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q338	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q339	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q340	2SK49F	5321422	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP801	121-756
Q341	2SK49F	53										

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.
Q502	2SC458D	5320064	GE-210*	PTC121*	HEP50009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q701	2SC458	5320613	GE-210*	PTC121*	HEP50009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
	2SC1213C		GE-268	PTC123*	HEP5014*	REN 289	SK3024*	RT-134	ECG289	TM289	WEP910	121-773
Q702	2SC1213	5321311	GE-268	PTC123*	HEP5014*	REN 289	SK3024*	RT-134	ECG289	TM289	WEP910	121-773
Q703	2SC1957		GE-270	PTC180	HEP5044	REN 295	SK3197		ECG295	TM295	WEP913	121-880
Q704	2SC1909	5321321	GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	TM235	WEP785	121-29039
Q705	2SA673C	5320593	GE-269	PTC103*	HEP50026*	REN 290	SK3114	RT-115*	ECG290	TM290	WEP911	121-1019
	2SC458D	5320064	GE-210*	PTC121*	HEP50009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
ZD1	2SC458		GE-210*	PTC121*	HEP50009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
	RD5.1E	5330842	GEZD-5.1				SK3056	RT-235		1N4733A	WEP1103	103-290
ZD2	RD5.1EC		GEZD-5.1				SK3056	RT-235		1N4733A	WEP1103	103-290
	HZ-5	5330322	GEZD-10			REN 140	SK3061	RT-241	ECG140A	1N4740A	WEP1110	103-29010
ZD204	HZ11A		GEZD-8.7	ZB10B		REN 113			ECG5073		WEP1155	103-272

* Lead configuration may vary from original.
/** Also available as exact type replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C4	10 16V	0256071	PC10-25	VTT10825	QV1-41	EV-1222
C104	1 25V	0252611	PC1-50	VTT1A50	QV1-9	EV-1315
C205	1 25V	0252611	PC1-50	VTT1A50	QV1-9	EV-1315
C211	1 25V	0252611	PC1-50	VTT1A50	QV1-9	EV-1315
C212	3.3 25V	0252613	PC5-50	VTT3R3A50	QV1-23	EV-1318
C214	3.3 25V	0252613	PC5-50	VTT3R3A50	QV1-23	EV-1318
C217	10 16V	0256071	PC10-25	VTT10825	QV1-41	EV-1222
C301	330 6.3V	0256073	WBR300-35	VTT330A10	QV1-131	EV-1145
C313	.33 25V	0356510		TDC334M050EL	QDT1-14	SD50-R339
C314	4.7 25V	0252615	PC5-50	VTT4R7B50	QV1-27	EV-1319
C315	4.7 25V	0252615	PC5-50	VTT4R7B50	QV1-27	EV-1319
C326	1 25V	0252611	PC1-50	VTT1A50	QV1-9	EV-1315
C401	1 25V	0252611	PC1-50	VTT1A50	QV1-9	EV-1315
C402	3.3 25V	0252613	PC5-50	VTT3R3A50	QV1-23	EV-1318
C404	1 25V	0252611	PC1-50	VTT1A50	QV1-9	EV-1315
C406	.33 25V	0256510		TDC334M050EL	QDT1-14	SD50-R339
C408	100 16V	0252511	PC100-16	VTT100F16	QV1-95	EV-1230
C409	.15 25V	0256518		TDC154M050EL	QDT1-6	SD50-R159
C410	33 25V	0252623	PC30-25	VTT3025	QV1-63	EV-1325
C411	1 25V	0252611	PC1-50	VTT1A50	QV1-9	EV-1315
C503	1 25V	0252611	PC1-50	VTT1A50	QV1-9	EV-1315
C510	4.7 25V	0252615	PC5-50	VTT4R7B50	QV1-27	EV-1319
C512	47 16V	0252525	PC50-16	VTT47D16	QV1-73	EV-1226
C514	220 25V	0252632	PC250-25	VTT220K25	QV1-119	EV-1340
C515	100 6.3V	0252231	PC100-10	VTT100E10	QV1-93	EV-1130
C517	10 16V	0256071	PC10-25	VTT10825	QV1-41	EV-1222
C519	47 16V	0252525	PC50-16	VTT47D16	QV1-73	EV-1226
C602	470 16V	0252535	PC500-16	VTT470K16	QV1-151	EV-1250
C729	10 16V	0256071	PC10-25	VTT10825	QV1-41	EV-1222

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	.001		DD-102		GP210	10TS-D10
C2	.001		DD-102		GP210	10TS-D10
C3	68 10%		DTZ-68	NP068	CN0468	10TCC-Q68
C5	.022		UK25-223			HY-725
C6	.022		UK25-223			HY-725
C13	.01		UK51-103		MAG5011	
C16	.01					
C18	.01					
C19	.022		UK50-103		MAG5011	HY-725
C20	.001		UK25-223			10TS-D10
C21	.001		DD-102		GP210	10TS-D10
C24	100		DD-102		GP210	10TS-D10
C25	.01		DTZ-100	NP0100	CN0310	10TCC-T10

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE Q-LINE	PART No. GENERAL LINE
C101	10		DTZ-10	NP010	CN0410		10TCC-Q10
C102	15		DTZ-15	NP015	CN0415		10TCC-Q15
C103	22		DTZ-22	NP022	CN0422		10TCC-Q22
C105	6		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C106	.01		UK50-103		MAG5011		
C107	.220		UK25-223				HY-725
C108	.022		UK25-223				HY-725
C109	.022		UK25-223				HY-725
C110	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C111	.01		UK50-103		MAG5011		
C112	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C113	1				CN0510		10TCC-V10
C114	.01		UK50-103		MAG5011		
C115	.01		UK50-103		MAG5011		
C116	.01		UK50-103		MAG5011		
C117	.01		UK50-103		MAG5011		
C118	.01		UK50-103		MAG5011		
C119	.001		DD-102		GP210		10TS-D10
C120	330		DD-331	GP330	GP333		10TS-T33
C121	.001		DD-102		GP210		10TS-D10
C123	.047		UK25-503		MAG2515		HY-735
C124	.01		UK50-103		MAG5011		
C125	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C126	150		DTZ-150		CN0315		10TCC-T15
C127	22		DTZ-22	NP022	CN0422		10TCC-Q22
C128	.01		UK50-103		MAG5011		
C201	.047 50V 10%			DPMS2S47	EW1A147	QFT2-171	1FT-S47
C202	1				CN0510		10TCC-V10
C203	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C204	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C206	.047		UK25-503		MAG2515		HY-735
C207	.047 50V 10%			DPMS2S47	EW1A147	QFT2-171	1FT-S47
C208	.0047			GP4700	GP247		5GA-D47
C209	.01 50V		DD-172	WMF1S1	EW1A110	QFT2-91	1FT-S10
C213	.01		UK50-103		MAG5011		
C215	.01		UK50-103		MAG5011		
C216	.022		UK25-223				HY-725
C218	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C302	47		DTZ-47	NP047	CN0447		10TCC-Q47
C303	.001		DD-102		GP210		10TS-D10
C304	4		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C305	22		DTZ-22	NP022	CN0422		10TCC-Q22
C306	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C307	27				CN0427		10TCC-Q27
C308	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C309	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C310	330		DD-331	GP330	GP333		10TS-T33
C311	82 10%		DTZ-82	NP082	CN0482		10TCC-Q82
C312	150 10%		DTZ-150		CN0315		10TCC-T15
C316	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C317	100		DTZ-100	NP0100	CN0310		10TCC-T10
C318	22 N470 10%	0248378			*		10TCT-Q22
C319	47		DTZ-47	NP047	CN0447		10TCC-Q47
C320	.001		DD-102		GP210		10TS-D10
C321	.001		DD-102		GP210		10TS-D10
C322	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C323	1				CN0510		10TCC-V10
C324	6		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C325	33		DTZ-33	NP033	CN0433		10TCC-Q33
C327	56				CN0456		10TCC-Q56
C328	68 10%		DTZ-68	NP068	CN0468		10TCC-Q68
C329	470 10%		DD-471	GP470	GP347		10TS-T47
C330	1				CN0510		10TCC-V10
C331	8		DTZ-10	NP010	CN0410		10TCC-Q10
C332	22 N470 10%	0248378			*		10TCT-Q22
C333	4		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C334	18 N470	0248376			*		10TCT-Q18
C335	.01		UK50-103		MAG5011		
C336	.01		UK50-103		MAG5011		
C337	4		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C338	18 N470	0248376			*		10TCT-Q18
C339	.01		UK50-103		MAG5011		
C340	.01		UK50-103		MAG5011		
C341	.01		UK50-103		MAG5011		
C342	.022		UK25-223				HY-725
C403	.047 50V			DPMS2S47	EW1A147	QFT2-171	1FT-S47
C405	.01		UK50-103		MAG5011		
C407	.001		DD-102		GP210		10TS-D10
C412	.001			DPMS6D1	EW1A210	QFT2-1	1FT-D10
C501	.047 50V			DPMS2S47	EW1A147	QFT2-171	1FT-S47
C502	.001		DD-102		GP210		10TS-D10
C504	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C505	.001		DD-102		GP210		10TS-D10
C506	100		DTZ-100	NP0100	CN0310		10TCC-T10
C507	68 10%		DTZ-68	NP068	CN0468		10TCC-Q68
C508	.01 50V			WMF1S1	EW1A110	QFT2-91	1FT-S10
C509	.047 50V			DPMS2S47	EW1A147	QFT2-171	1FT-S47
C513	.22			WMF05P22	EW1A147	QFT2-253	1FT-P22
C516	.001		DD-102		GP210		10TS-D10
C518	.01 50V			WMF1S1	EW1A110	QFT2-91	1FT-S10
C520	.022		UK25-223				HY-725
C522	.022		UK65-223				HY-725

SEARS MODEL 93A.3808 1700

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No. Q-LINE GENERAL LINE
C523	.01		UK50-103		MAG5011	
C601	.047 50V			DPMS2S47	ENF1A147	1FT-S47
C701	10		DTZ-10	NP010	CNO410	10TCC-010
C702	33		DTZ-33	NP033	CNO433	10TCC-Q33
C703	.001		DD-102		GP210	10TS-D10
C705	22		DTZ-22	NP022	CNO422	10TCC-Q22
C706	.047		UK25-503		MAG6515	HY-735
C707	.001		DD-102		GP210	10TS-D10
C708	.022		UK25-223			HY-725
C709	68 10%		DTZ-68	NP068	CNO468	10TCC-Q68
C710	.047		UK25-503		MAG2515	HY-735
C712	100		DTZ-100	NP0100	CNO310	10TCC-T10
C713	.001		DD-102		GP210	10TS-D10
C714	.022		UK25-223			HY-725
C716	330		DI-331	GP330	GP333	10TS-T33
C718	180 10%		DTZ-180			10TCC-T18
C719	68 10%		DTZ-68	NP068	CNO468	10TCC-Q68
C720	.047 50V			DPMS2S47	ENF1A147	1FT-S47
C721	.047 50V			DPMS2S47	ENF1A147	1FT-S47
C722	.047		UK25-503		MAG2515	HY-735
C723	.01		DD-102		GP210	10TS-D10
C724	.022		UK25-223			HY-725
C725	120 10%		DTZ-120		CNO312	10TCC-T12
C726	120 10%		DTZ-120		CNO312	10TCC-T12
C731	.001					
C732	.022					

*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			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
RT1	S Meter	47K	0151888			U260R503B
RT2	RF Meter	47K	0151888			U260R503B
RT101	RF Gain	100K	0151883			U260R102B
RT102	XMT Frequency	100K	0151889			U260R104B
RV1	SWR - CAL	20K	5000353 (18)			
RV101	RF Gain	20K				
RV102	Fine Tune	10K	0151145C			
RV201	Squelch	100K	5000168			
RV501	Volume	100K	5003144			

(18) Includes RV1 and RV101.

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.
CD31	LDR		5380191	RC1	Resistor Network		5068071
				RC2	Resistor Network		5068071

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (4.7mH)	5152126			
L2	RF Choke (4.7mH)	5152126			
L3	RF Choke (4.7mH)	5152126			
L4	RF Choke (4.7mH)	5152126			
L201	RF Choke (12mH)	5152075		70F125A1	
L301	RF Choke (10mH)	5152074			
L302	RF Choke (100mH)	5152087			
L303	RF Choke (150mH)	5152089			
L701	RF Choke (2.2mH)	5150782		74F226AP	
L702	RF Choke	5126484			
L703	RF Choke (.33mH)	5150072			
L704	PI Filter (.33mH)	5150071			
T101	RF Amp (27MHz)	5120099		4586	
T102	IF (455kHz)	0322116		CB723-TC	
T103	Noise Blanking	5120099		CB5723-TC	
T104	Noise Blanking	9120099		CB5723-TC	
T105	Rec RF (27MHz)	5126372			
T201	IF (455kHz)	0322146			
T202	IF (455kHz)	5132031		8518	
T301	VCO Buffer (16MHz)	5123441			
T302	PLL (10.240MHz)	5123444			
T303	Mixer (15.360MHz)	5123443			
T304	Xmt Osc (10.695MHz)	5123442			
T305	Xmt Mixer (27MHz)	5123431			
T306	Xmt Amp (27MHz)	5123432			
T307	Xmt Buffer (27MHz)	5123431			
T308	VCO	5123432			
T701	Xmt Buffer (27MHz)	5126376			
T702	Xmt Buffer (27MHz)	5123375			
T703	Xmt Driver (27MHz)	5126377			
T704	Final (27MHz)	5126378			
T705	Final Loading (27MHz)	5126373			

SEARS MODEL 934.38081700

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.	
T601	1.5A	.71	1.5MH	5220001	TR548		

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T501	8	18	5250192			

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3" PM 8 Ohms	5402521	30A0528R	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F601	2A Quick Acting	0591138	5722011	AGC2		312002		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
MIC	5421352	18-032	18-034	18-010	18-105	4	1	3	5	NC	1

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF101	Filter	5160211	10.695MHz
CF102	Filter	5160011	455kHz
D7	LED	5310091	Channel Readout (1.58V @ 12.5mA)
D8	LED	5310091	Channel Readout (1.58V @ 12.5mA)
DE02	LED	5380051	TX (1.25V @ 10mA)
D504	LED	5380051	Mod (1.25V @ 10mA)
D701	LED	5380052	Xmt (1.64V @ 23mA)
D702	LED	5380051	SWR Alert (1.69V @ 18.5mA)
J1	Jack	5673111	PA
J2	Jack	5673111	Ext. Speaker
J3	Jack	5675152	Antenna
J4	Jack	5653171	Mic
J5	Jack	5892751	DC Power
LM1	Meter	5554151	RF/SWR
PL1	Lamp	5760822	Meter (4.94V @ 30mA)
S1	Switch	5639213	SWR/RF/Cal
S101	Switch	5639215	NB
S301	Switch	5612222	Channel Selector
S701	Switch	5639215	PA/CB
X301	Crystal	5780281	10.240MHz
X302	Crystal	5780282	10.695MHz

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

ITEM	PART No.	ITEM	PART No.
Cover, Under	6147181	Knob, Channel Selector	6286313
Cover, Upper	6147281	Knobs, Control	6286301
Escutcheon	6242271	Knob, RF Gain	6294391
		Knob, Swr/Cal	6294681