



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 681-6241 (981-8360)

MANUFACTURER'S SPECIFICATIONS

Receiver

Sensitivity for 0.5W Output:	AM; 0.25 μ V
	SSB; 0.2 μ V
Sensitivity at 10dB S/N:	AM; 0.5 μ V
Image Rejection:	40dB
Squelch Sensitivity at Maximum:	100 μ V
Squelch Sensitivity at Threshold:	0.5 μ V
A.G.C. figure of merit:	70dB
Adjacent Channel Selectivity:	AM; 60dB
	SSB; 60dB
Frequency Stability:	0.005%
Audio Output Power at 10% Distortion:	3W
Audio Fidelity at 400 Hz:	-6dB
Audio Fidelity at 2,500 Hz:	-6dB
Current Drain at No Signal:	340 mA
Current Drain at Maximum Audio Output:	980 mA

Transmitter

R-F Output Power at 13.8V dc:	AM; 4W (FCC max.)
	SSB; 12W PEP (FCC max.)
Modulation Capability:	AM; 80%
Frequency Stability:	0.005%
Spurious Emission Ratio:	60dB (down)
Current Drain at No Modulation:	AM; 1,600 mA
	SSB; 700 mA
Current Drain at Maximum Modulation:	AM; 2,100 mA
	SSB; 1,800 mA

JCPenney MODEL 681-6241

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. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period.
Adjust RT601 for 13.8 volts DC at TP9 (Q601 Emitter).
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:

L101, T101, T102, T132, T134, T151, T152,
T301 thru T304, T703 9440
T131, T351 5000, 5009, 8276, 8728, 8728A
T103, T201, T202 5009, 8728, 8728A
L702, L704 8282, 9304, 8728, 8728A
T701, T702, T704 9440
CT301, CT302, CT351, CT352 5000, 8276

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of DC meter to TP1 (Q306 Collector).	Ch. 19	T302	Adjust for 2.40 volts.
Input of oscilloscope to TP2 (IC301 Pin 2).	Ch. 19	T301	Adjust for maximum RF.
Input of oscilloscope to TP3 (T304 Secondary).	Ch. 19	T303, T304	Adjust for maximum RF.
Input of frequency counter to TP3 (T304 Secondary).	Ch. 1, USB Fine Tune Midrange	CT301	Adjust for 38.240MHz ± 50 Hz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP3 (T304 Secondary).	Ch. 1, LSB Fine Tune Midrange	CT302	Adjust for 38.237MHz ± 50 Hz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP2 (IC301 Pin 2).	Ch. 1, USB		Check for 1.280MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP4 (IC131 Pin 3).	Ch. 19, USB	CT351	Adjust for 11.275MHz ± 50 Hz.
Input of frequency counter to TP4 (IC131 Pin 3).	Ch. 19, LSB	CT352	Adjust for 11.272MHz ± 50 Hz.

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.
RF Gain Maximum, Fine Tuning Midrange, Squelch MINIMUM, ANL Off, NB Off, Tone High.

AM

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP5 (Q103 Base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T202, T201, T103	Adjust for Maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T102, T101, L101	Adjust for Maximum output. If necessary readjust T103, T201 and T202 for maximum.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T151, T152	Set generator output to 10db signal to noise plus noise ratio of receiver. Inject a 100pps, 1uSec pulse width signal at antenna input. Switch Noise Blanker to On and adjust for Maximum amplitude pulses.
Input of oscilloscope to TP6 (Q154 Base).			

RECEIVER ADJUSTMENTS

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

AM

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output .25uV.	Ch. 19	RT101	IF GAIN Adjust for best signal to noise ratio.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19 Squelch Maximum	RT202	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19	RT201	S METER Adjust for 9 on S scale of meter.

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.
RF Gain Maximum, Squelch MINIMUM, Fine Tuning Midrange, ANL Off, NB Off, Tone High

SSB

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP7 (Q102 Base). 11.275MHz, no modulation.	Ch. 19, USB	T134, T132, T131	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.186MHz, no modulation.	Ch. 19, USB	T101, L101	Adjust for maximum output. If necessary readjust T131, T132 and T134 for maximum.

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RECEIVER ADJUSTMENTS

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

SSB

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation. Output .25uV.	Ch. 19, USB	RT131	IF GAIN Adjust for best signal to noise ratio.
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation. Output .1uV. Input of DC meter to TP8 (D134 cathode).	Ch. 19, USB	RT251	AGC Adjust for 2.00 volts.
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation. Output 100uV.	Ch. 19, USB Squelch Maximum	RT252	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation. Output 100uV.	Ch. 19, USB	RT253	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	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope to antenna input. Inject a two tone, 20mV signal at Mic input.	Ch. 19, USB SWR/RF/CAL RF	T132,T351, T701,T702, T703,T704, L702,L704	Set RT701 to MINIMUM (fully clockwise). Adjust for maximum RF output.

TRANSMITTER ADJUSTMENTS

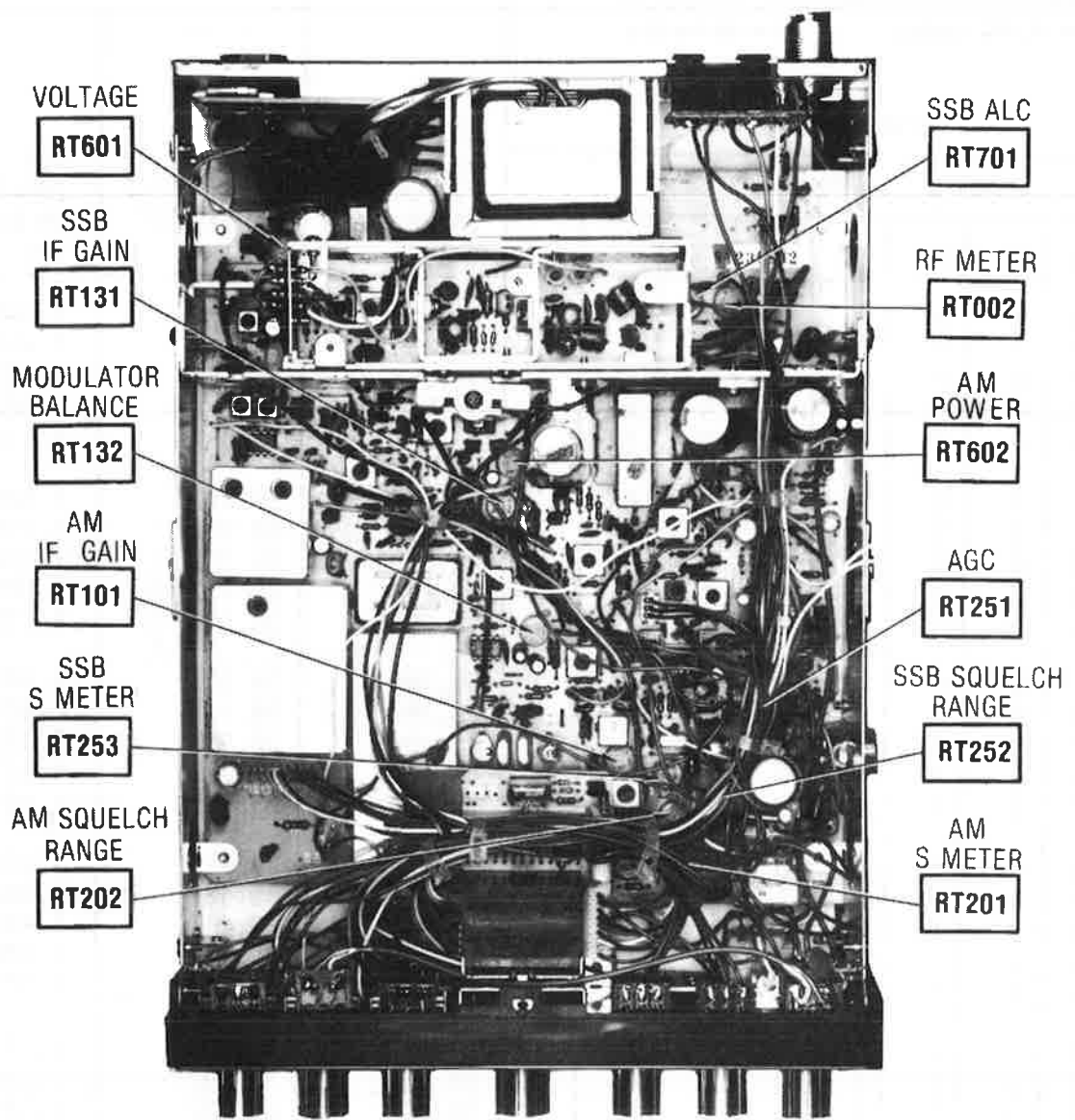
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input. Inject a two tone, 100mV signal at Mic input.	Ch. 19, USB SWR/RF/CSL RF	RT701	SSB ALC Adjust for 5.2 watts peak RF output maximum.
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input. No modulation.	Ch. 19, USB SWR/RF/CAL RF	RT132	MODULATOR BALANCE Adjust for MINIMUM RF output.
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input.	Ch. 19, AM SWR/RF/CAL RF	RT602	AM POWER Adjust for 4.0 watts RF output maximum.
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input.	Ch. 19, AM SWR/RF/CAL RF	RT002	RF METER Adjust so RF meter agrees with RF wattmeter.

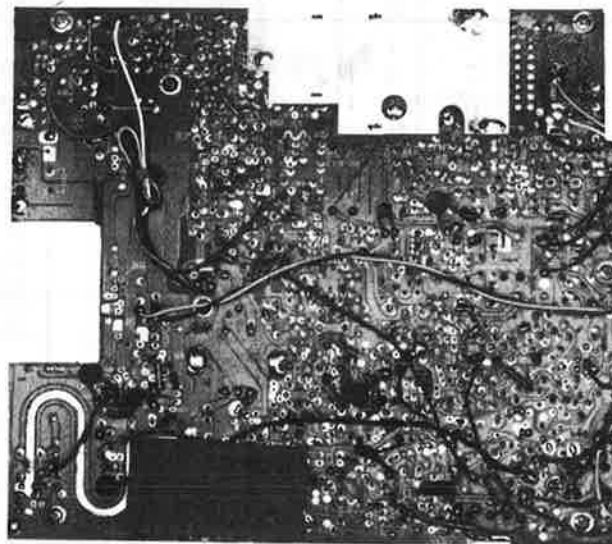
TRUTH CHART

CHANNEL	1 = 4.84 Volts 0 = 0 Volts								REC & XMT USB/AM VCO OUTPUT IN MHz AT TP3	REC & XMT LSB VCO OUTPUT IN MHz AT TP3	DIVIDER INPUT IN MHz AT TP2
	IC301 PROGRAM DIVIDER										
	PINS										
	9	10	11	12	13	14	15				
1	0	0	0	0	0	0	0		38.240	38.237	1.280
2	0	0	0	0	0	0	1		38.250	38.247	1.290
3	0	0	0	0	0	1	0		38.260	38.257	1.300
4	0	0	0	0	1	0	0		38.280	38.277	1.320
5	0	0	0	0	1	0	1		38.290	38.287	1.330
6	0	0	0	0	1	1	0		38.300	38.297	1.340
7	0	0	0	0	1	1	1		38.310	38.307	1.350
8	0	0	0	1	0	0	1		38.330	38.327	1.370
9	0	0	0	1	0	1	0		38.340	38.337	1.380
10	0	0	0	1	0	1	1		38.350	38.347	1.390
11	0	0	0	1	1	0	0		38.360	38.357	1.400
12	0	0	0	1	1	1	0		38.380	38.377	1.420
13	0	0	0	1	1	1	1		38.390	38.387	1.430
14	0	0	1	0	0	0	0		38.400	38.397	1.440
15	0	0	1	0	0	0	1		38.410	38.407	1.450
16	0	0	1	0	0	1	1		38.430	38.427	1.470
17	0	0	1	0	1	0	0		38.440	38.437	1.480
18	0	0	1	0	1	0	1		38.450	38.447	1.490
19	0	0	1	0	1	1	0		38.460	38.457	1.500
20	0	0	1	1	0	0	0		38.480	38.477	1.520
21	0	0	1	1	0	0	1		38.490	38.487	1.530
22	0	0	1	1	0	1	0		38.500	38.497	1.540
23	0	0	1	1	1	0	1		38.530	38.527	1.570
24	0	0	1	1	0	1	1		38.510	38.507	1.550
25	0	0	1	1	1	0	0		38.520	38.517	1.560
26	0	0	1	1	1	1	0		38.540	38.537	1.580
27	0	0	1	1	1	1	1		38.550	38.547	1.590
28	0	1	0	0	0	0	0		38.560	38.557	1.600
29	0	1	0	0	0	0	1		38.570	38.567	1.610
30	0	1	0	0	0	1	0		38.580	38.577	1.620
31	0	1	0	0	0	1	1		38.590	38.587	1.630
32	0	1	0	0	1	0	0		38.600	38.597	1.640
33	0	1	0	0	1	0	1		38.610	38.607	1.650
34	0	1	0	0	1	1	0		38.620	38.617	1.660
35	0	1	0	0	1	1	1		38.630	38.627	1.670
36	0	1	0	1	0	0	0		38.640	38.637	1.680
37	0	1	0	1	0	0	1		38.650	38.647	1.690
38	0	1	0	1	0	1	0		38.660	38.657	1.700
39	0	1	0	1	0	1	1		38.670	38.667	1.710
40	0	1	0	1	1	0	0		38.680	38.677	1.720

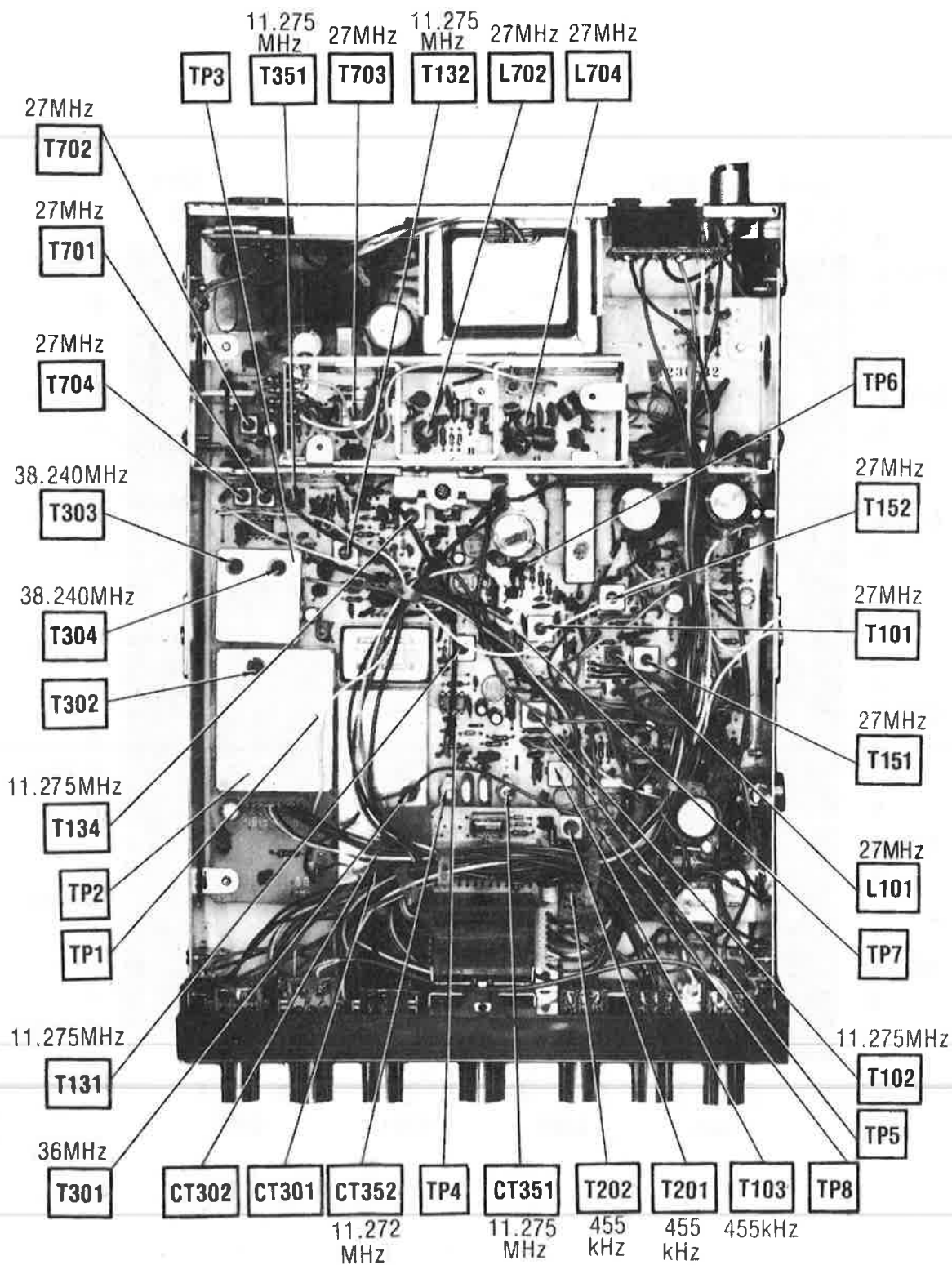
JCPenney MODEL 681-6241



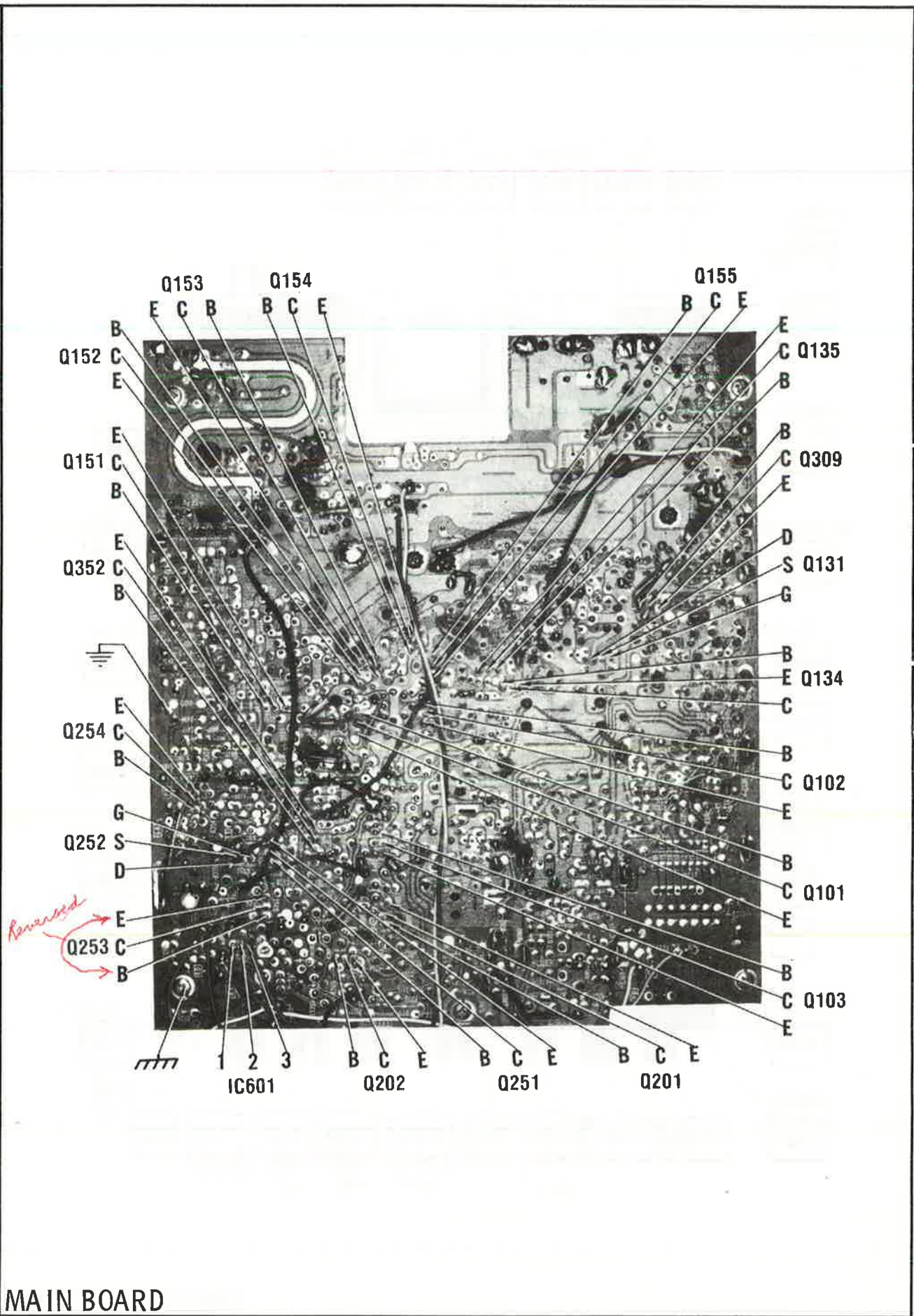
CHASSIS - BOTTOM



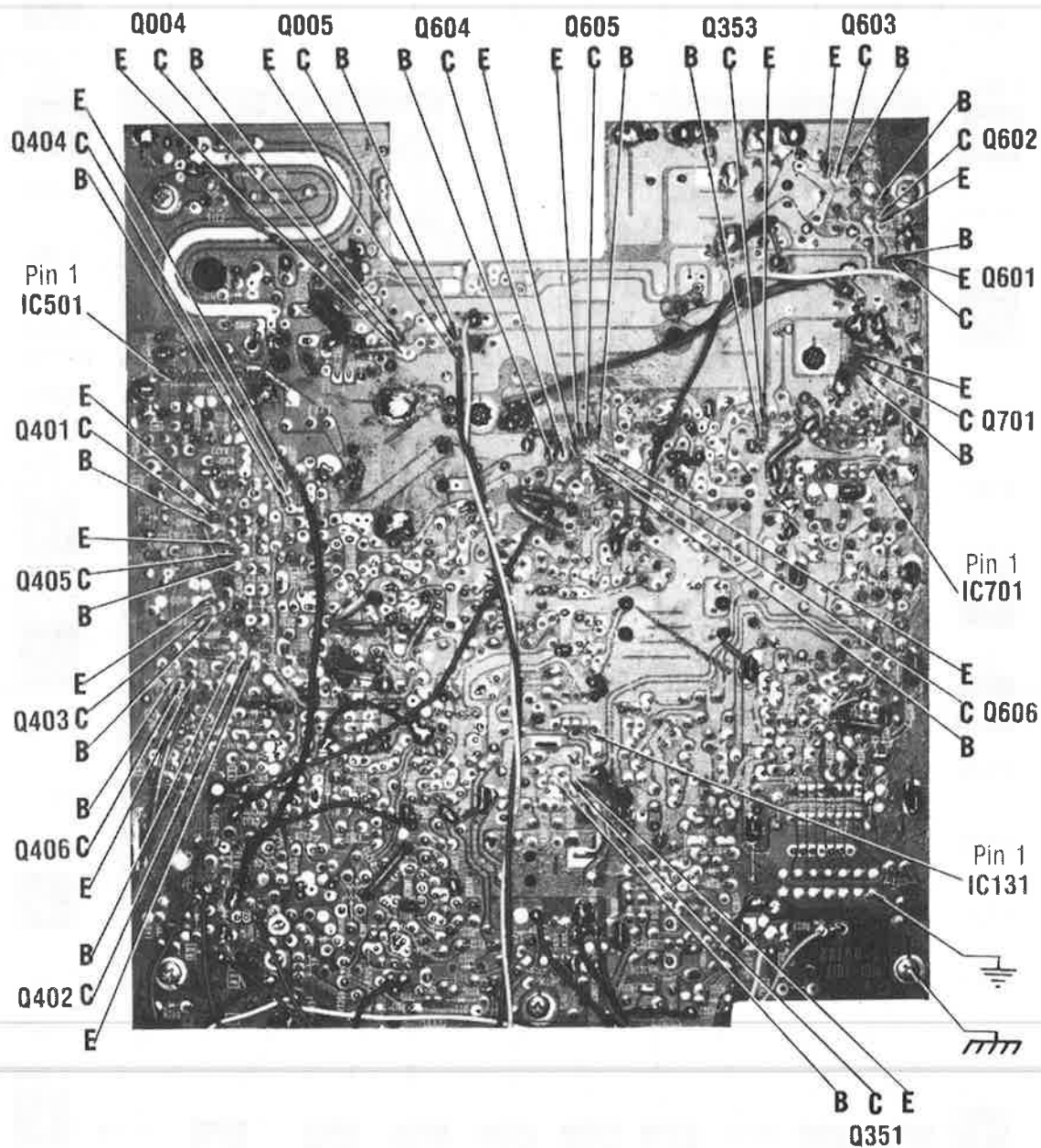
SHIELD LOCATION



CHASSIS - BOTTOM

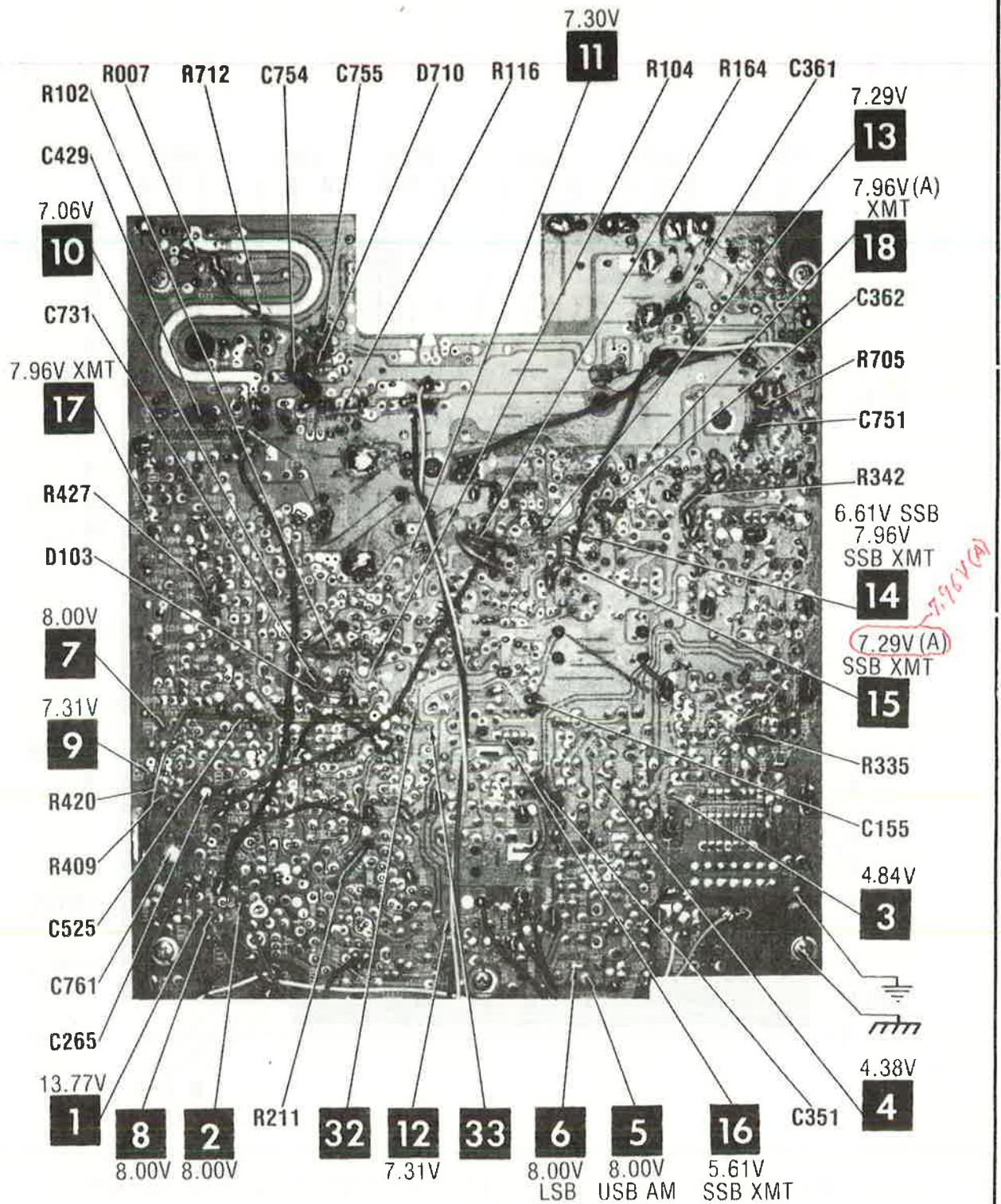


MAIN BOARD

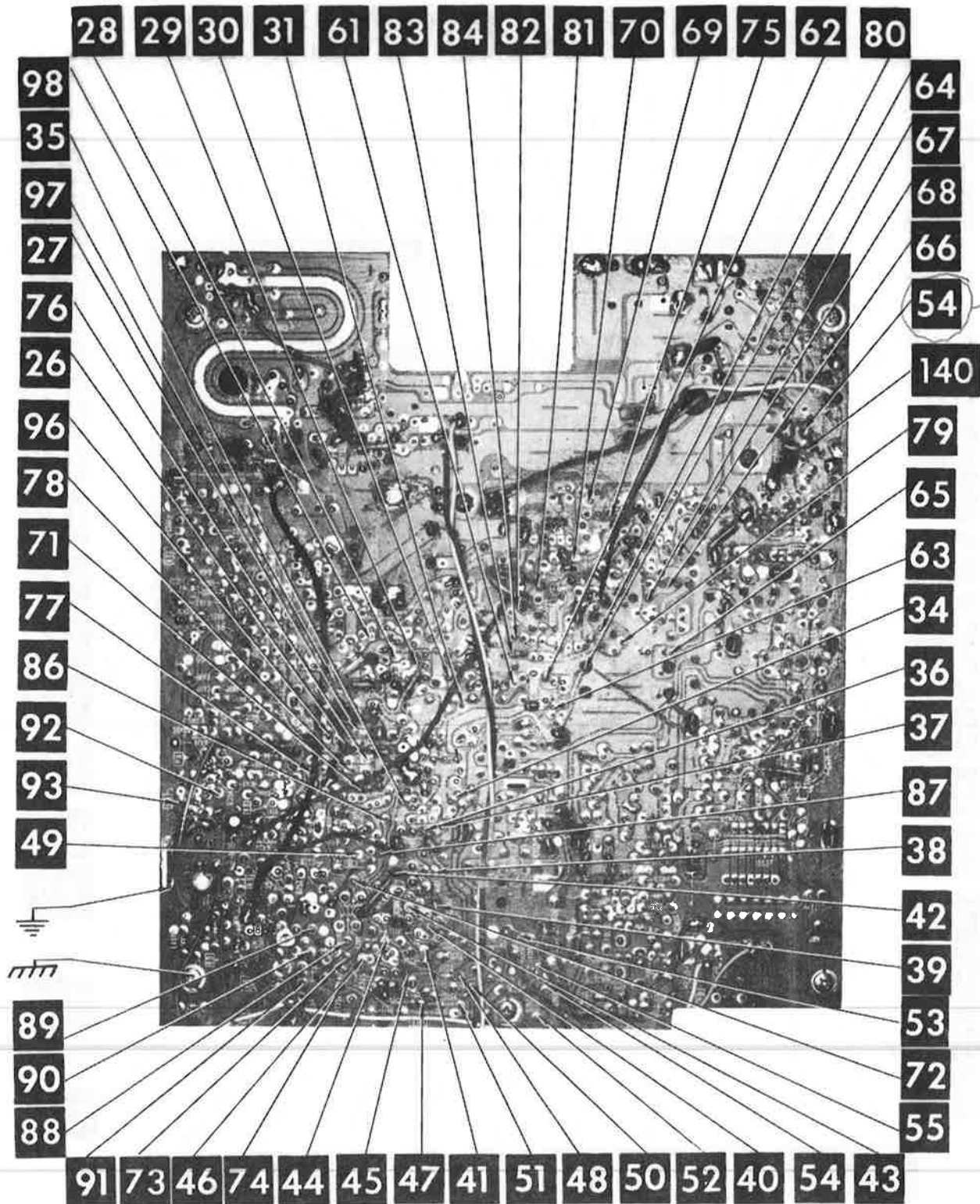


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MAIN BOARD

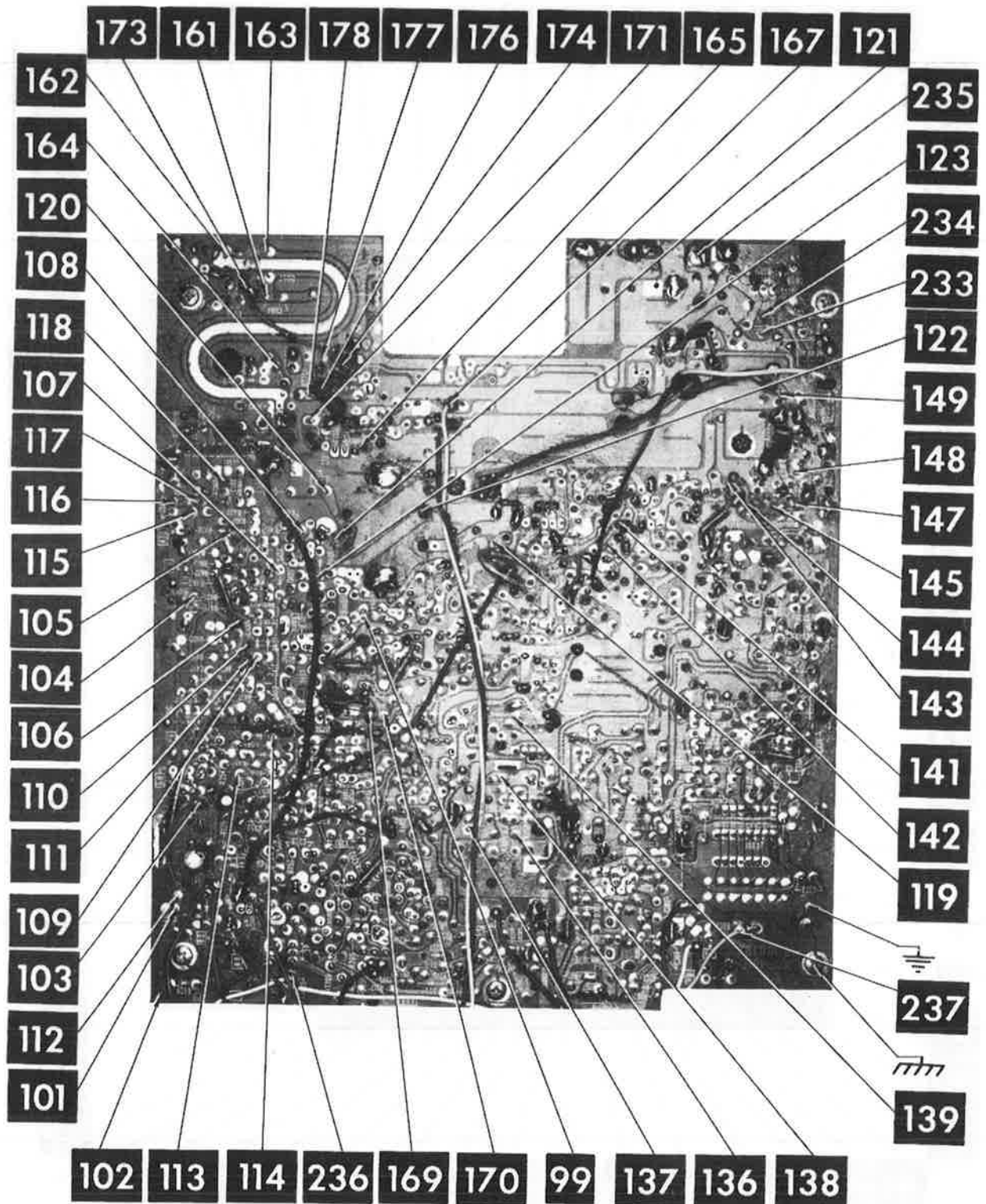


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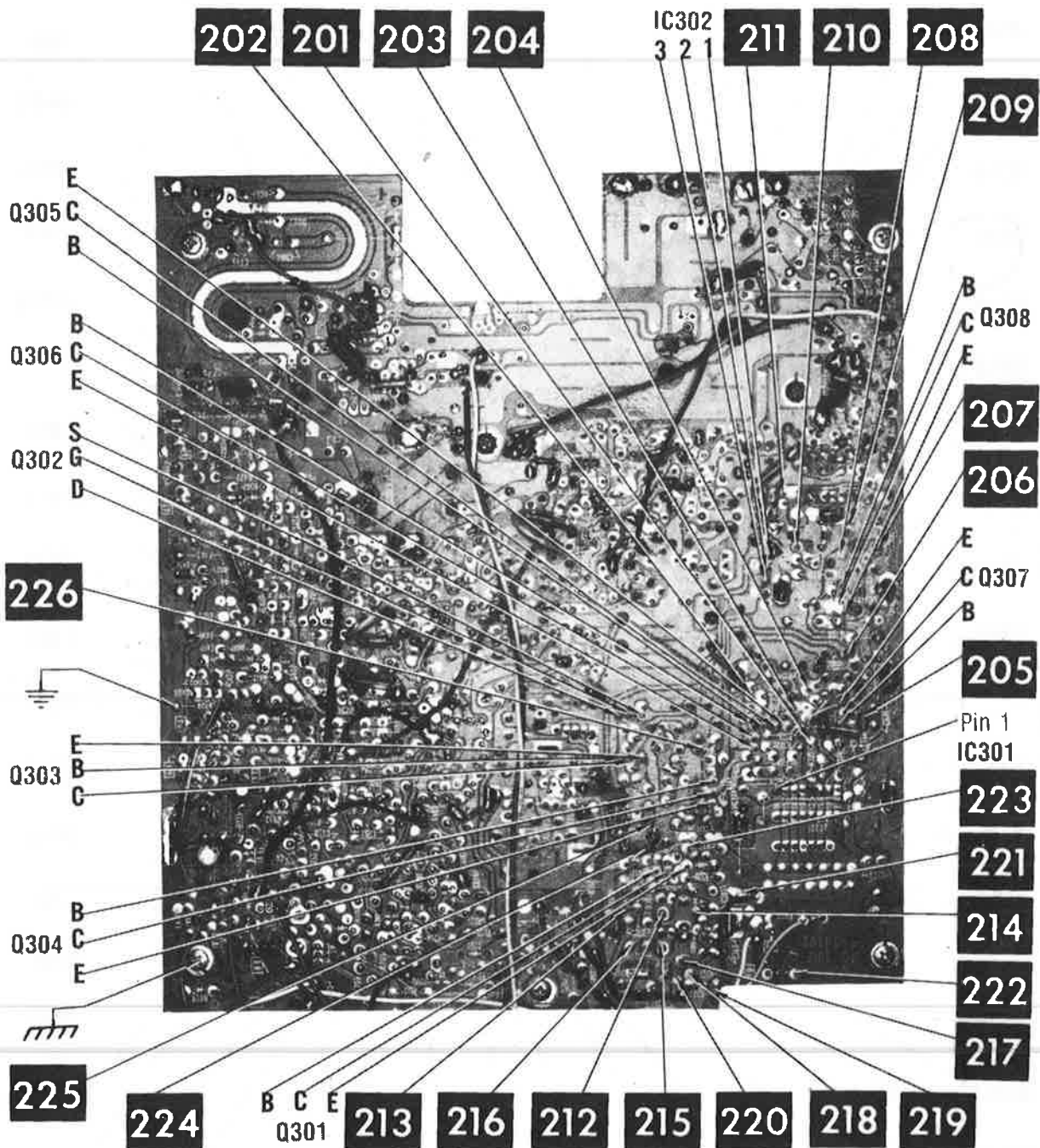


JCPenney MODEL 681-6241

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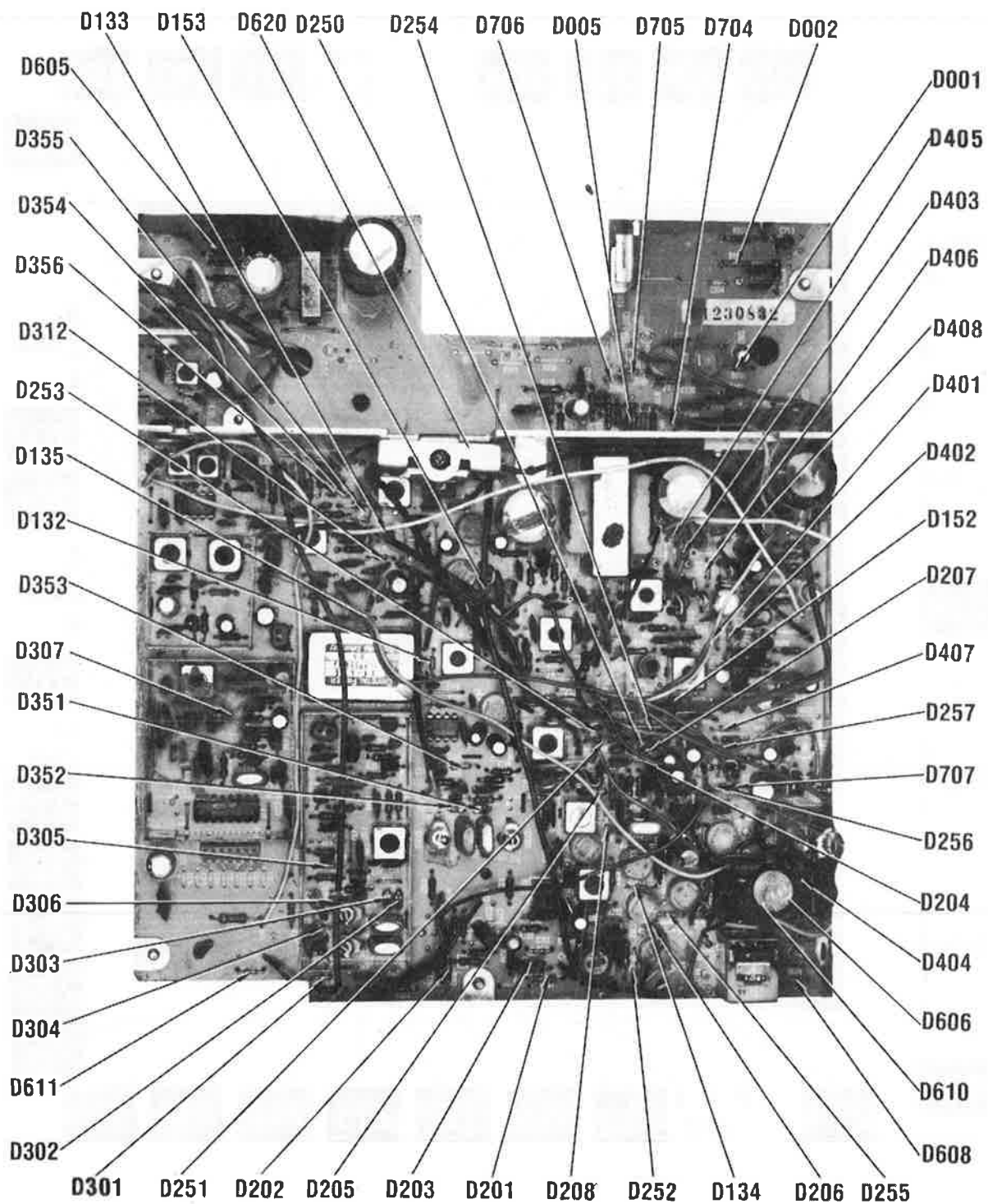


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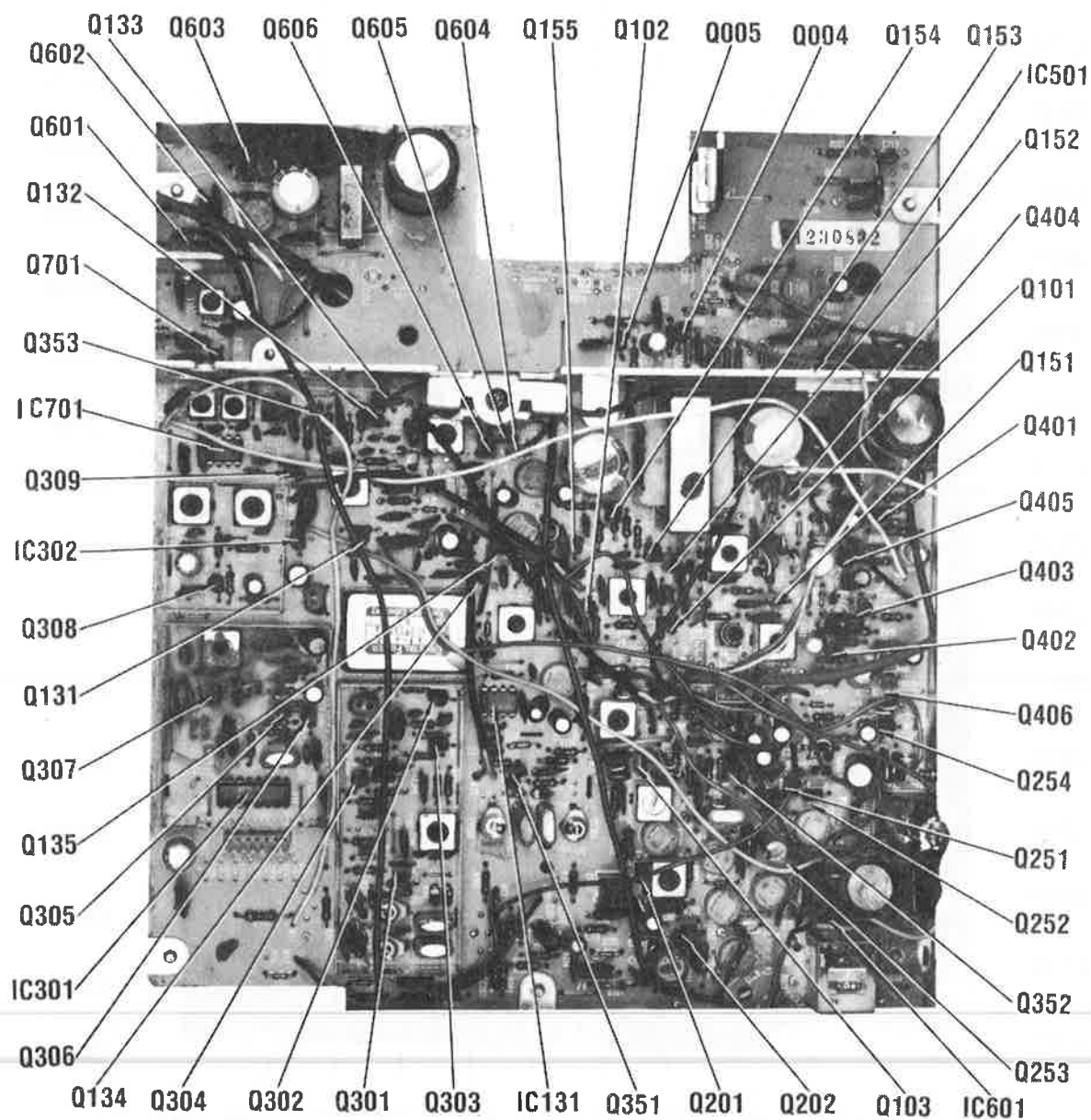


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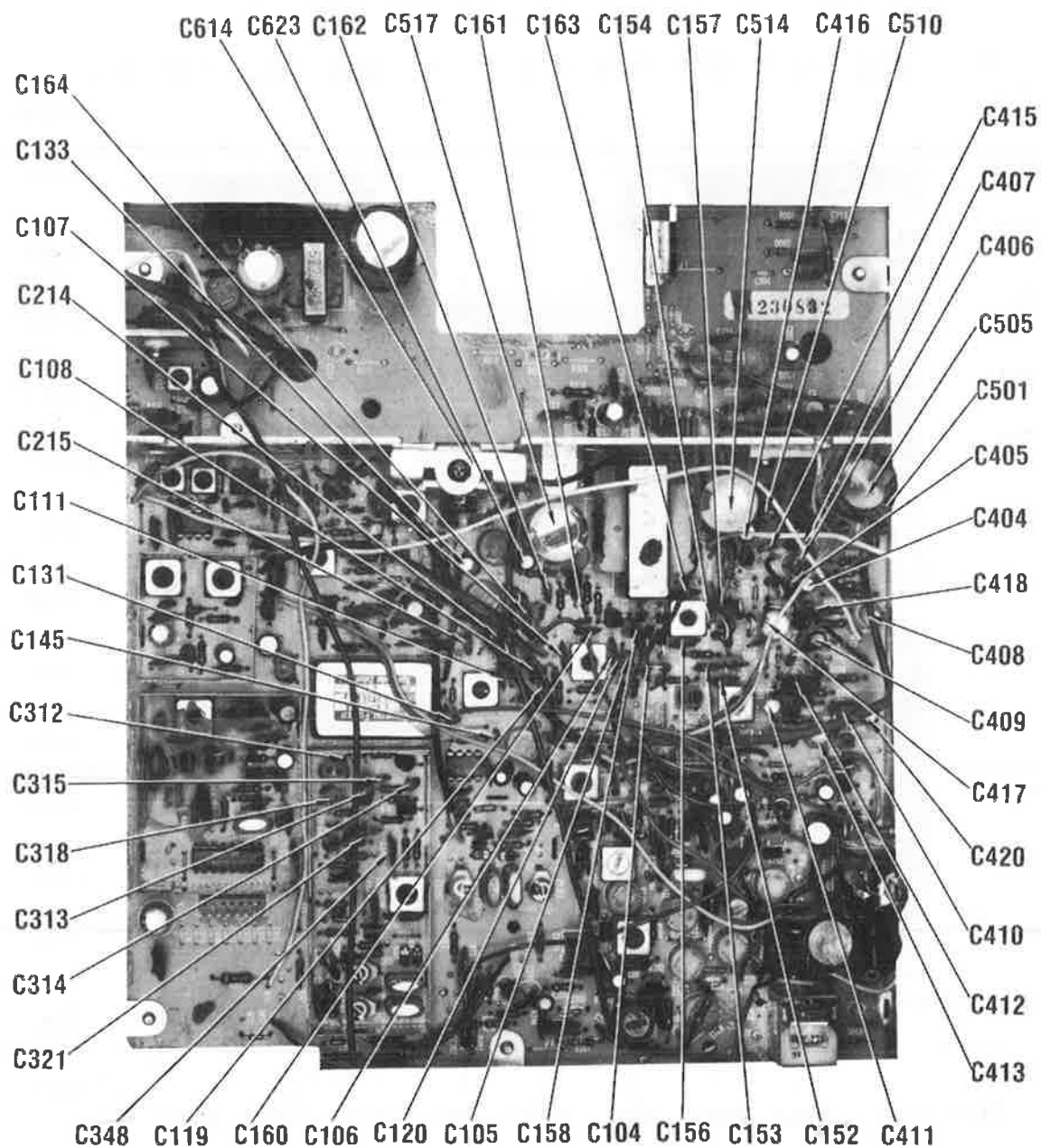
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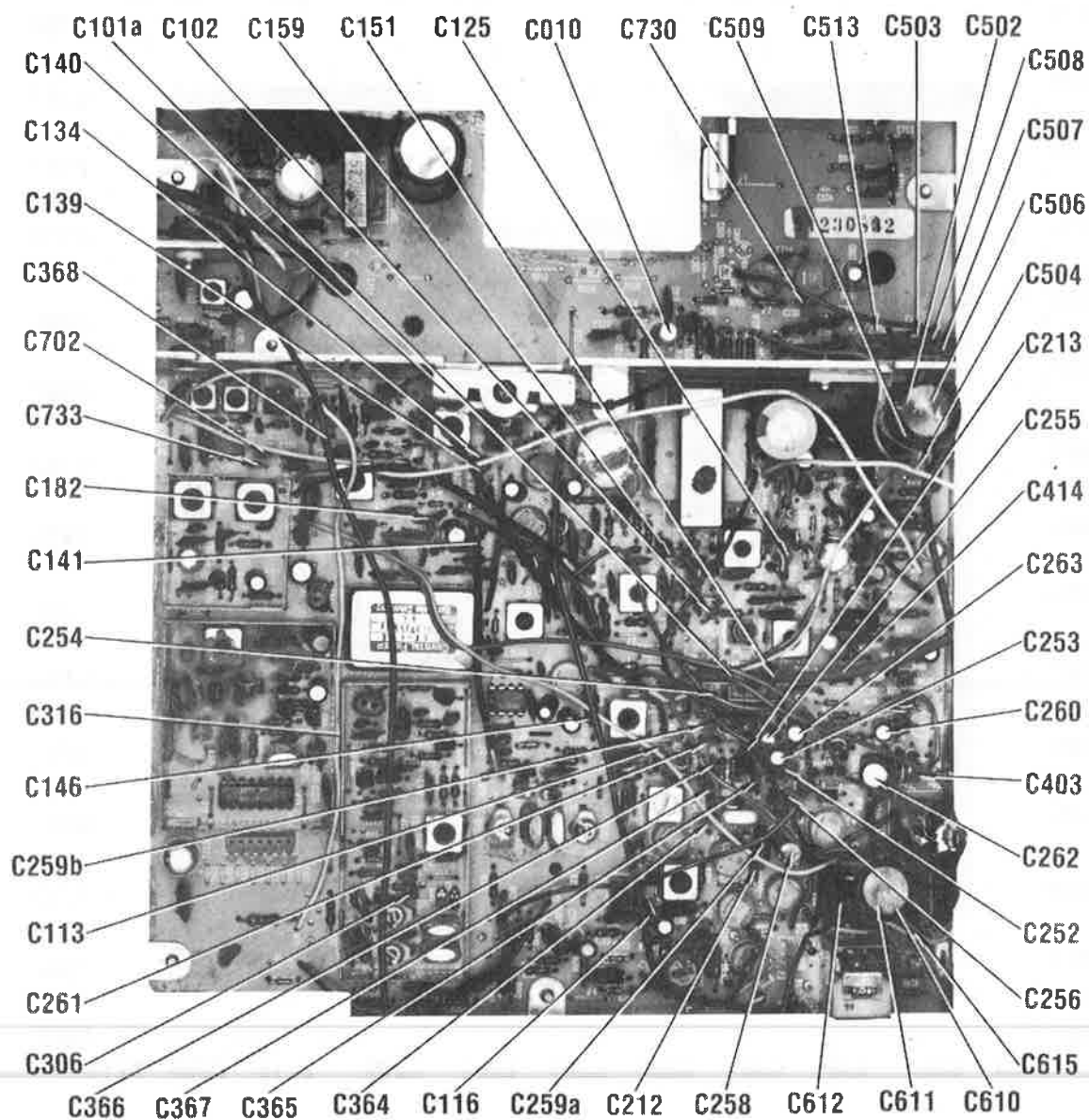
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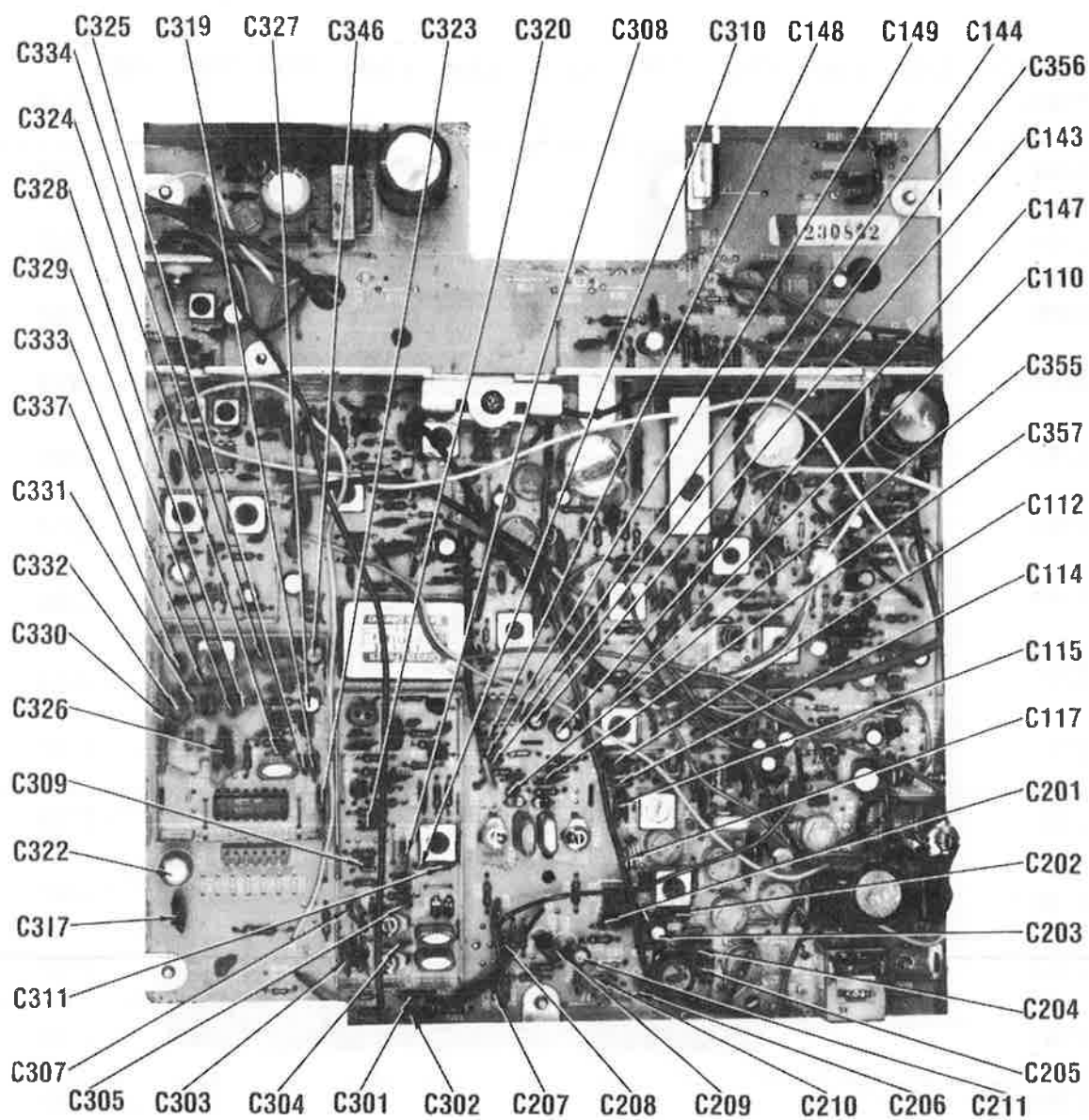
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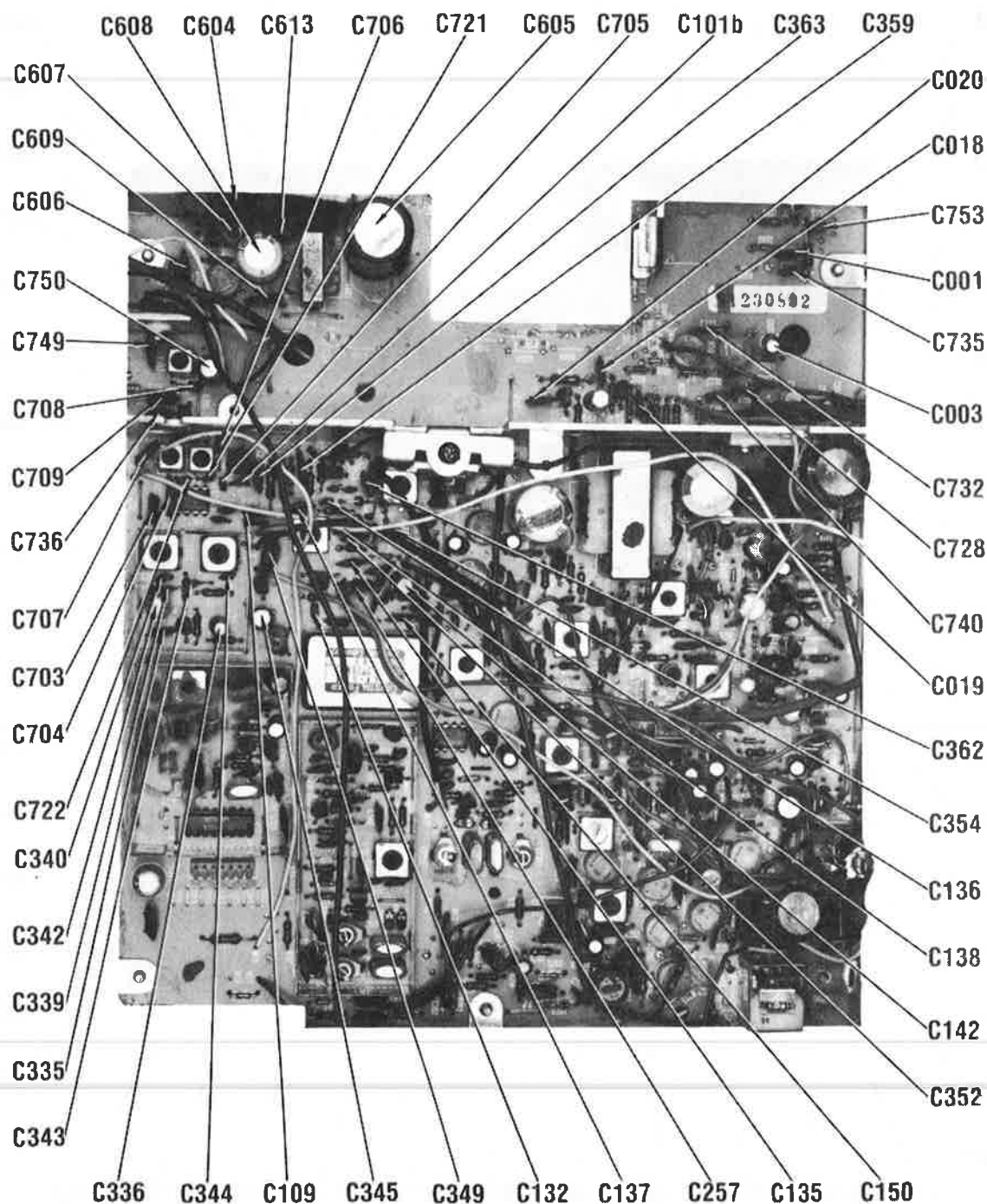
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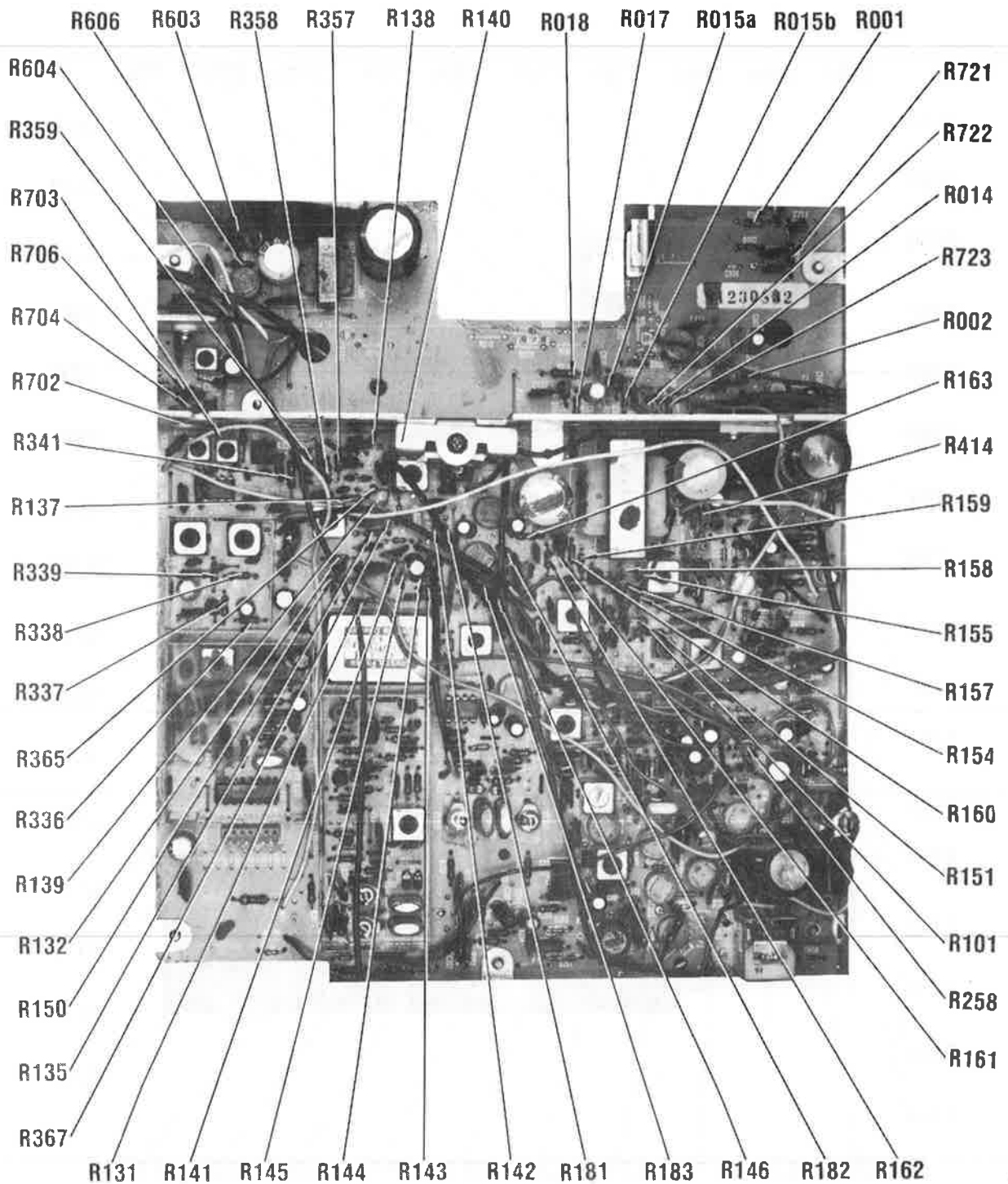
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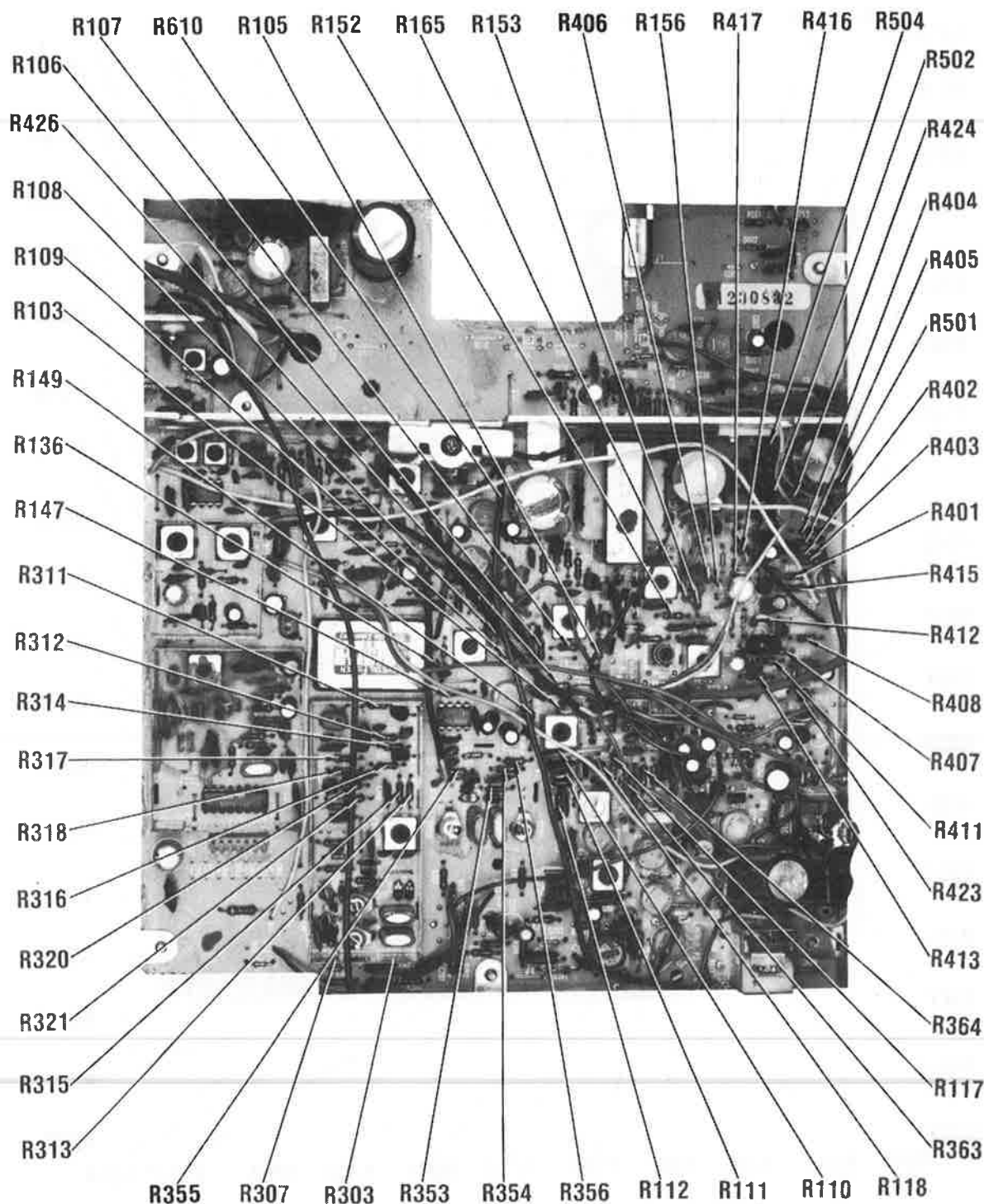
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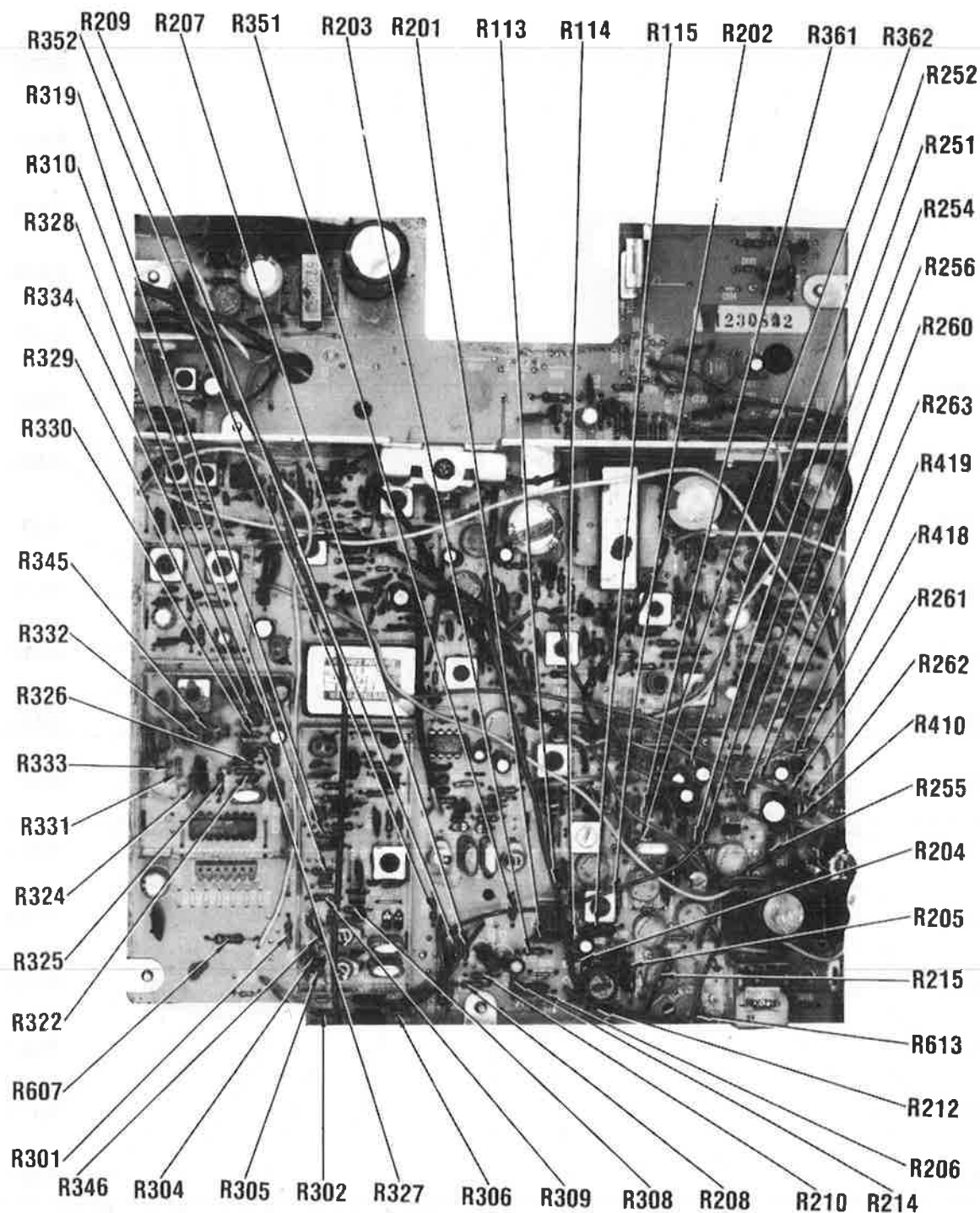
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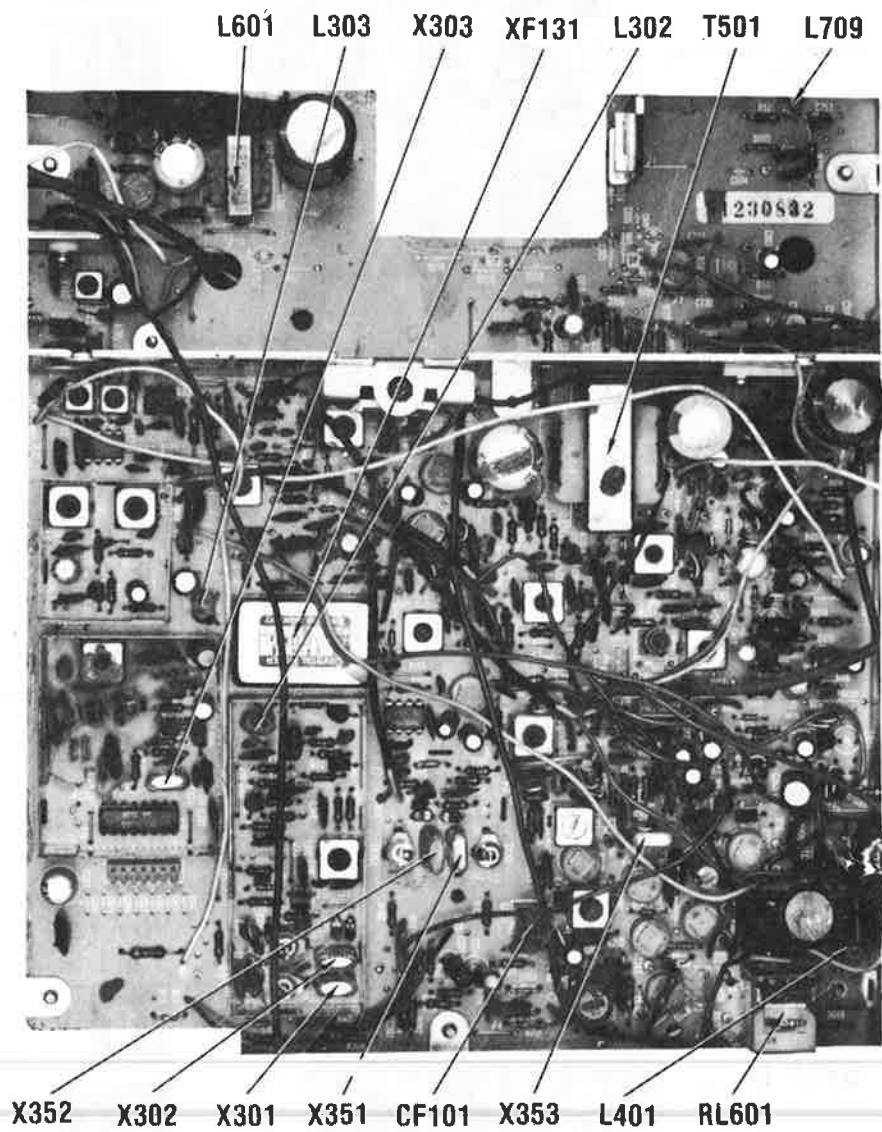
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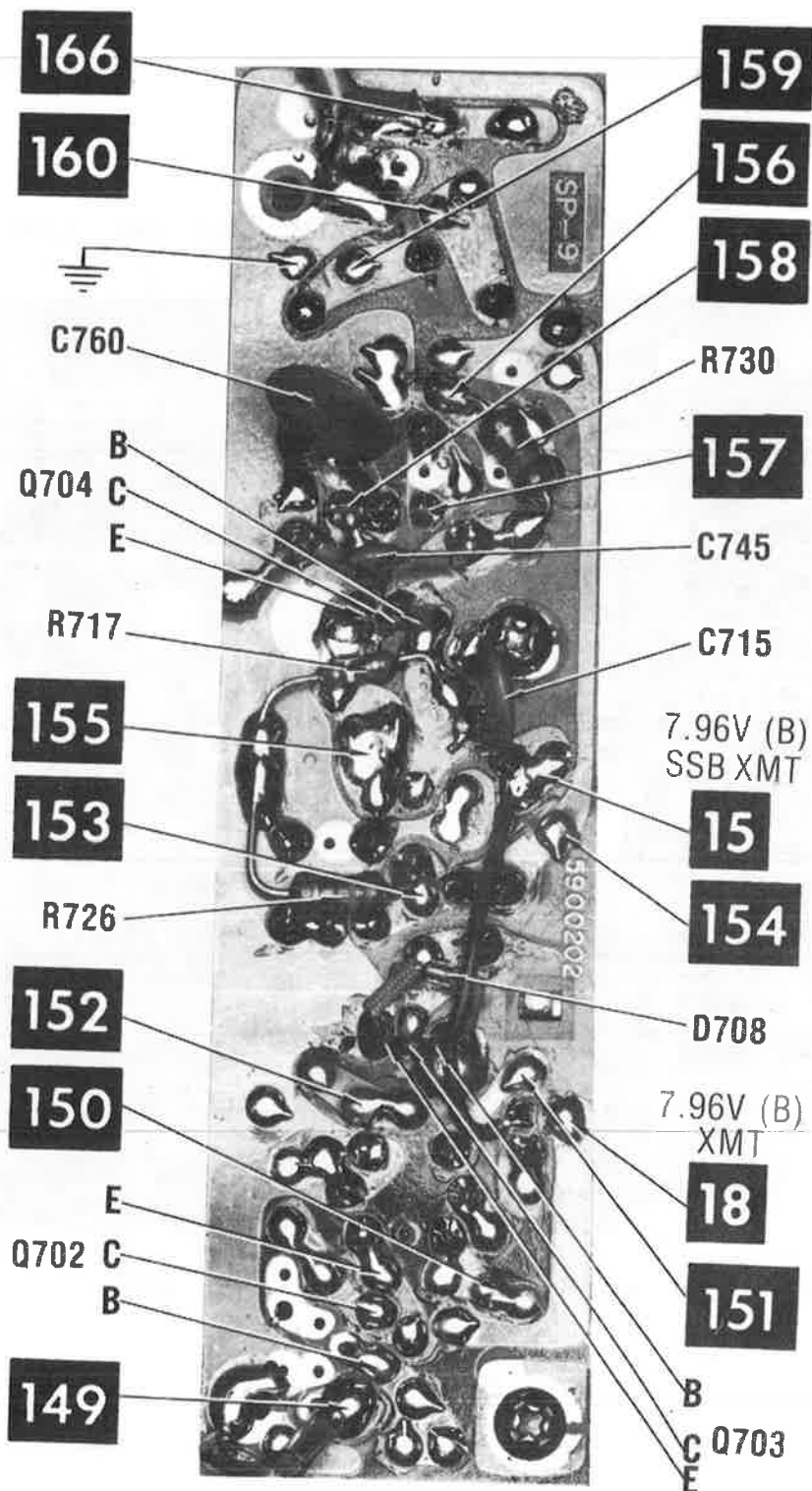
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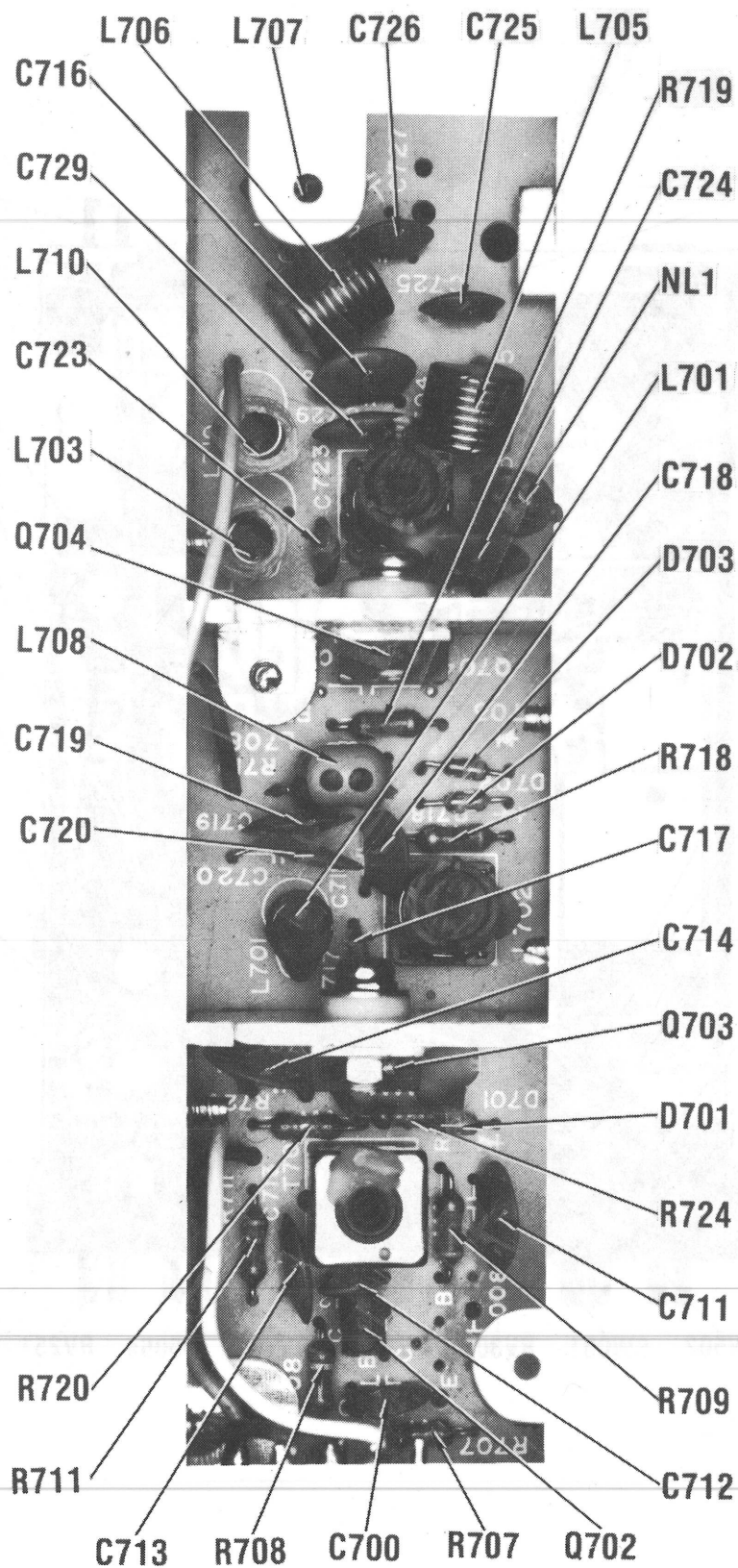
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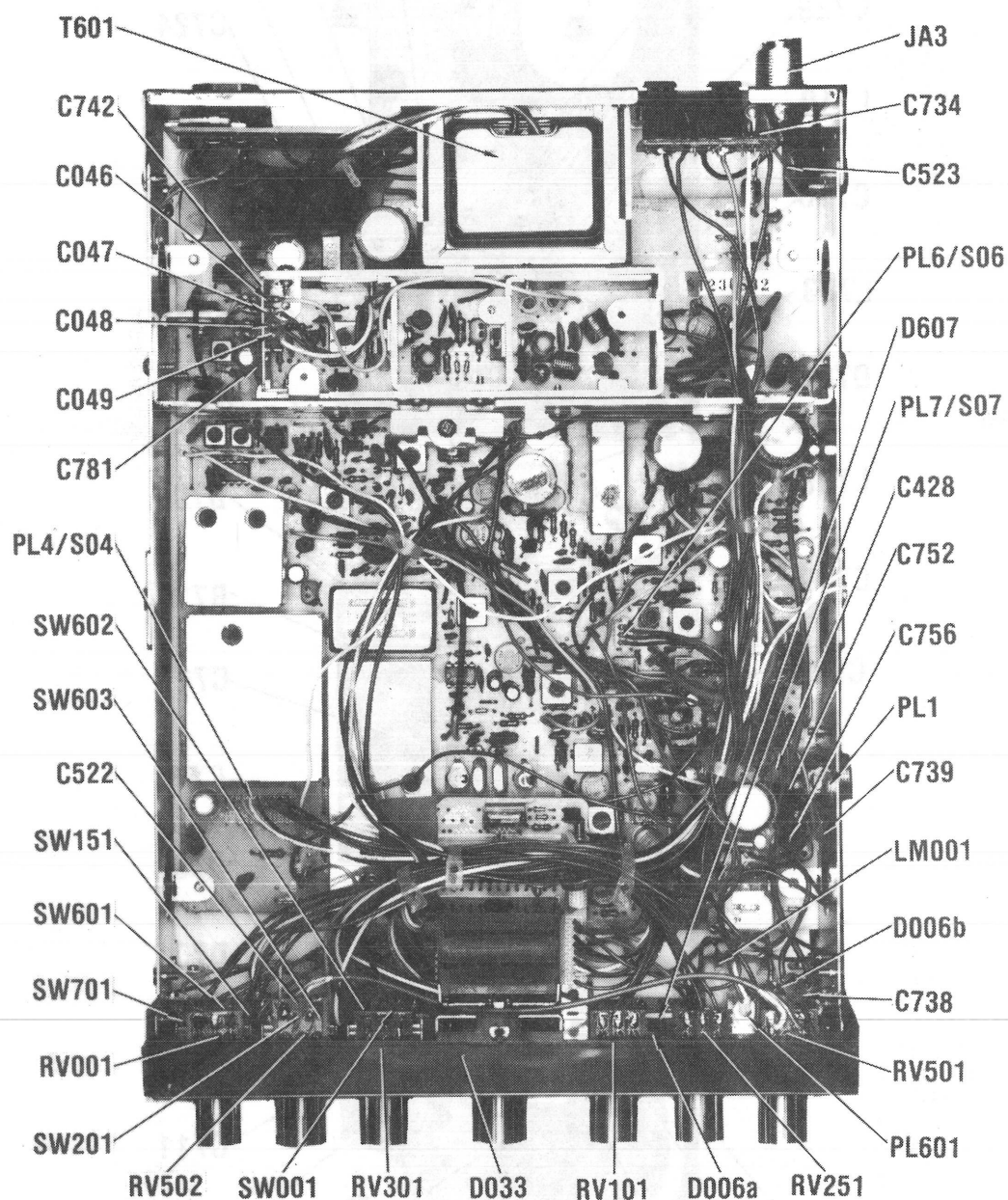
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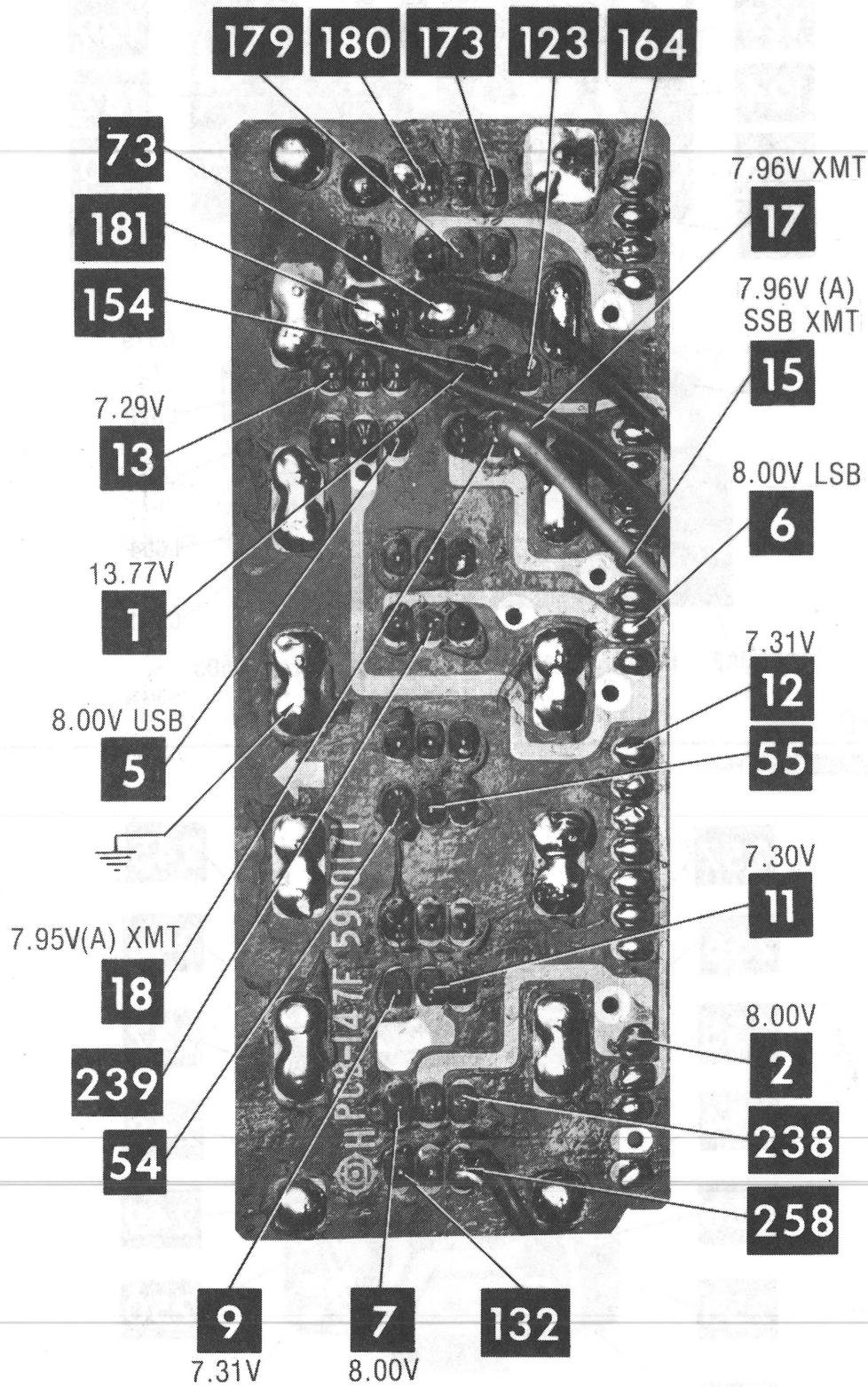
XMT BOARD



XMT BOARD

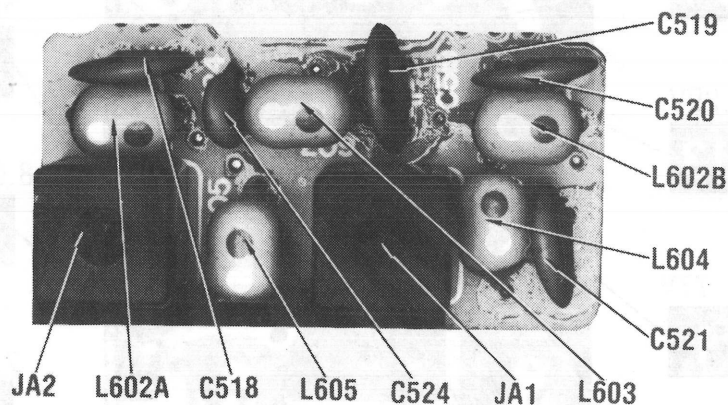
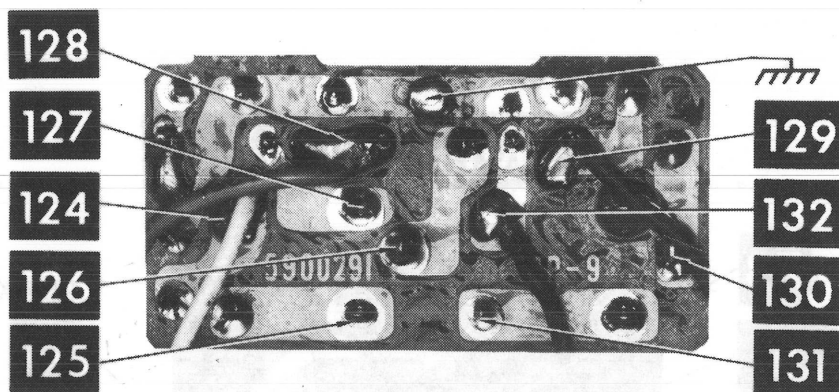


CHASSIS - BOTTOM

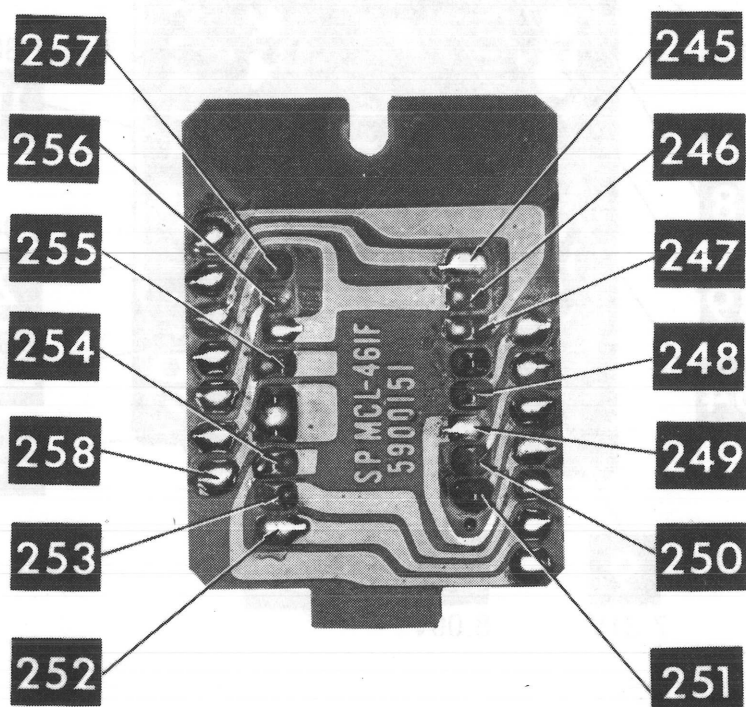


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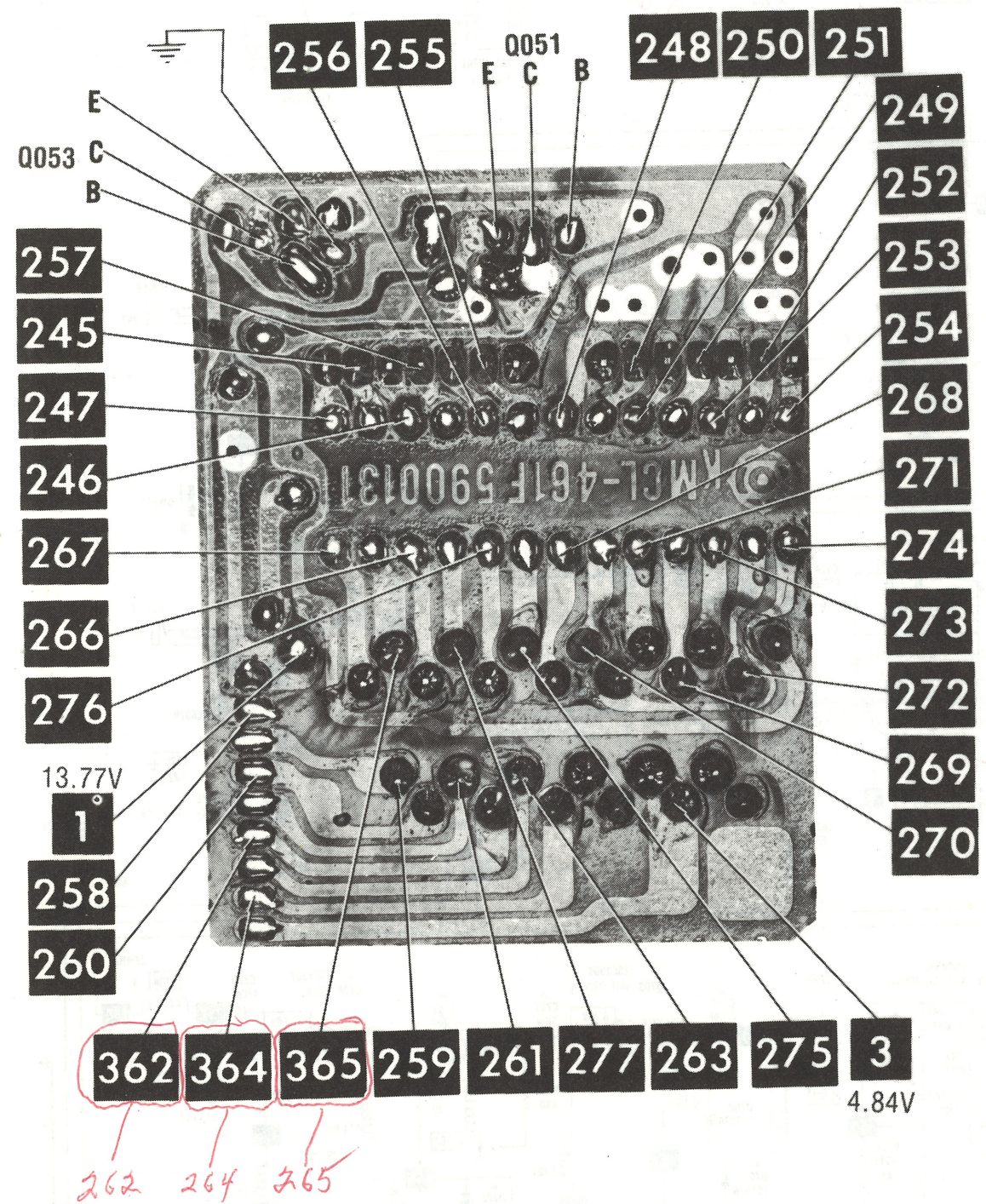
SWITCH BOARD



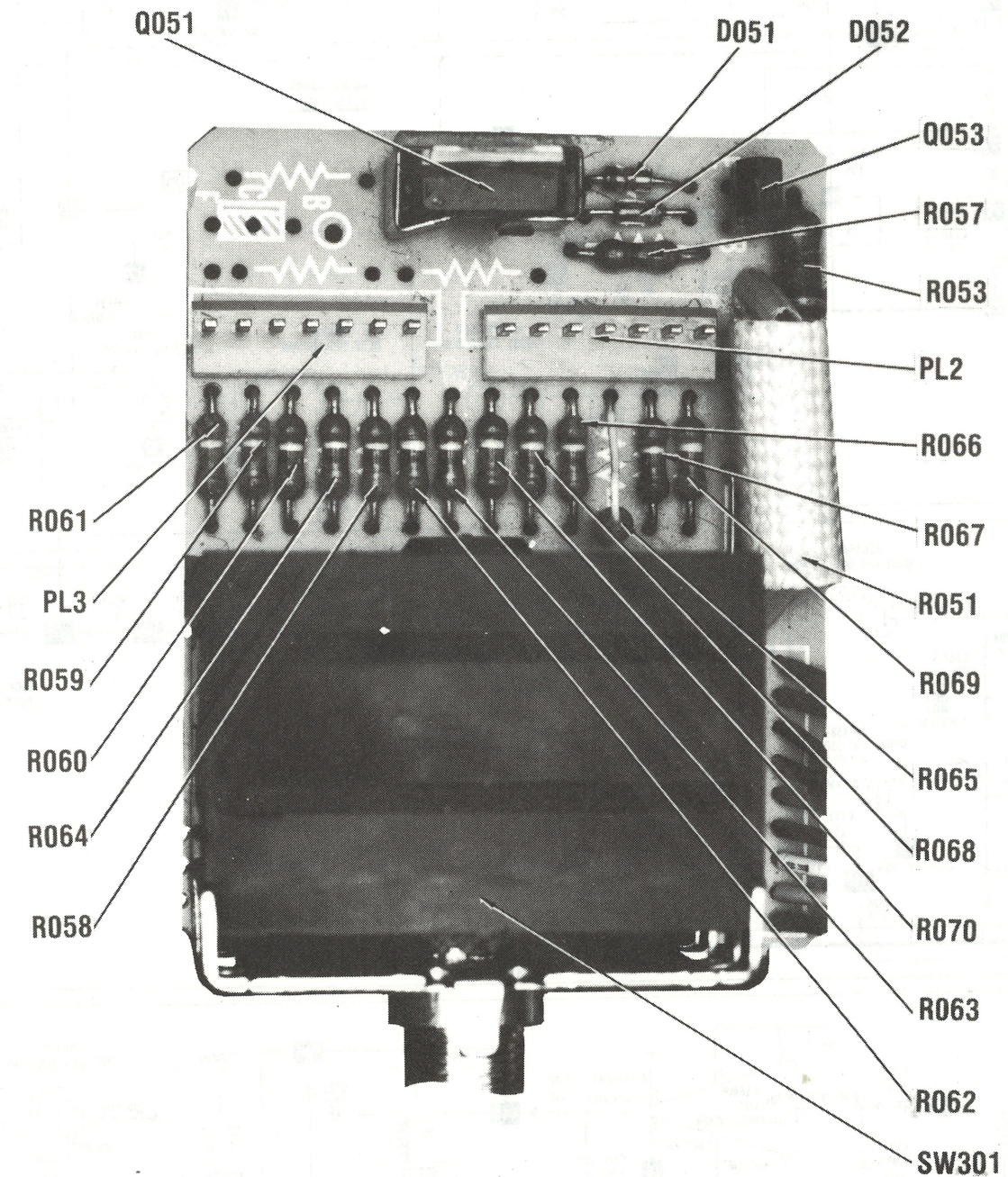
JACK BOARD



LED BOARD

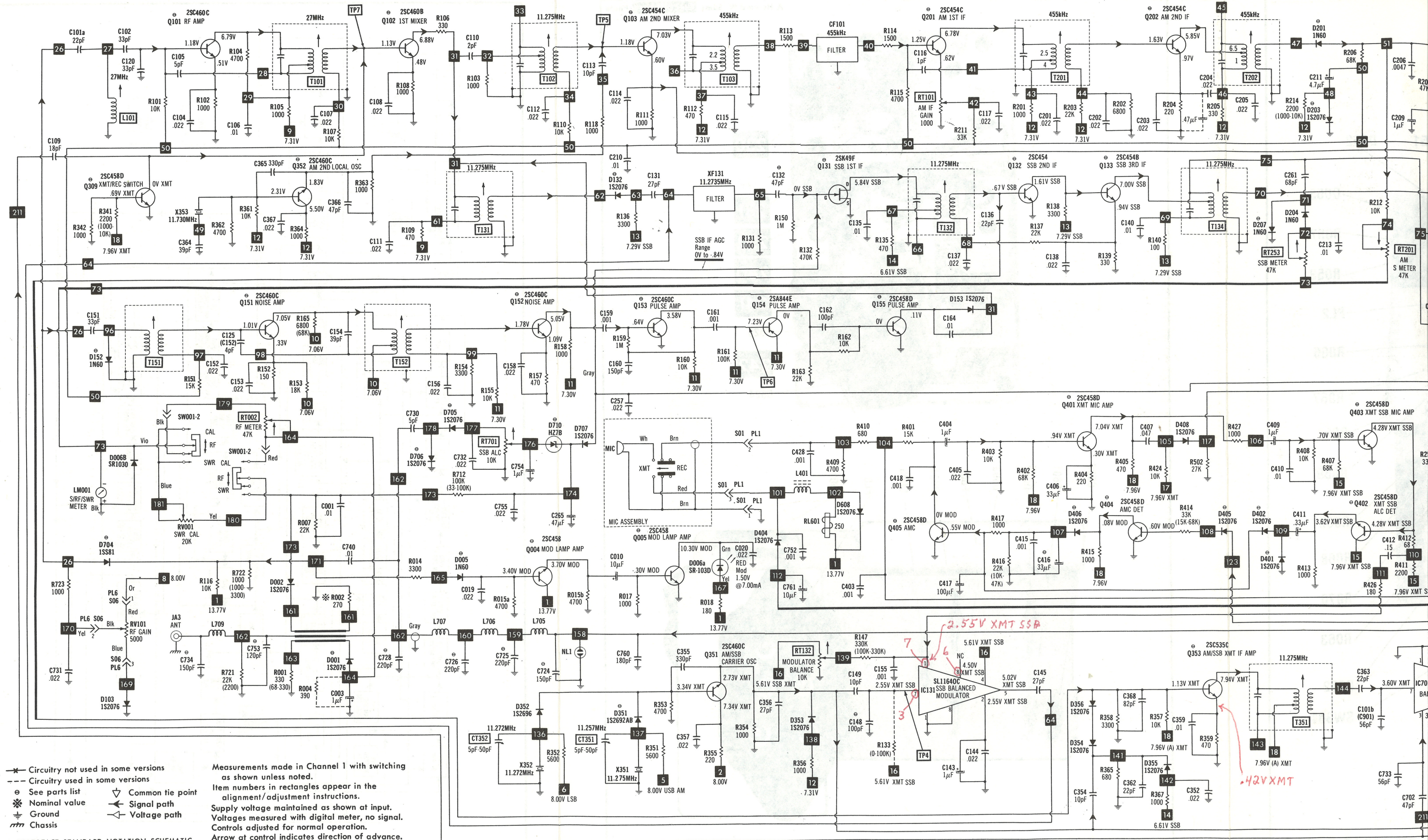


CH. SELECTOR BOARD



CH. SELECTOR BOARD



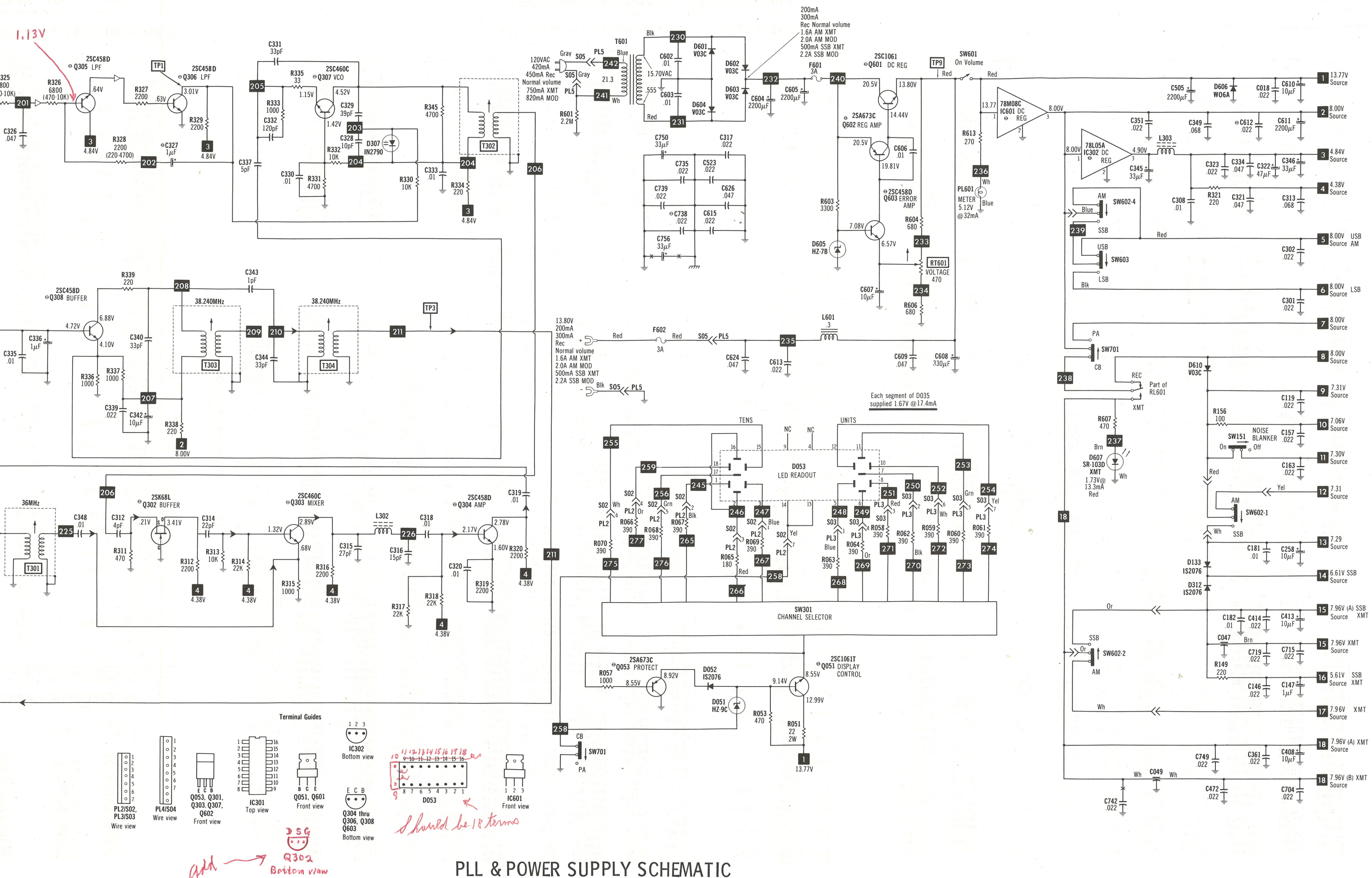


A PHOTOSTAT STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITACE**
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Measurements made in Channel 1 with switching
 as shown unless noted.
 Item numbers in rectangles appear in the
 alignment/adjustment instructions.
 Supply voltage maintained as shown at 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.







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

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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.
D620	1S2076-TF1	5330133	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D701	1S2076	5330131	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D702	1S2076-TF1	5330133	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D703	1S2076	5330133	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D704	1S2076-TF1	5330133	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D705	1S2076	5330131	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D706	1S2076-TF1	5330133	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D707	1S2076	5330133	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D708	1S2076-TF1	5330133	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D710	HZ7B	5330312	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
IC131	SL1640C	5351211	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
IC301	UPC1037H	5359251	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
IC302	SM5104	5359331	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
IC501	78L05A	5350491	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
IC601	HA1339A	5350572	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
IC701	UPC14308H	5351211	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
Q004	25C458D	5320064	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q005	25C458	5320064	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q501	25C1740	5320671	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q503	25C1740	5320593	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q101	25C1740	0573487	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q102	25C1740	0573486	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q103	25C1740	0573492	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q131	25C1740	5321422	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q132	25C1740	0573491	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q133	25C1740	0573491	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q134	25C1740	5320651	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q135	25C1740	5321253	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q151	25C1740	0573487	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q152	25C1740	0573487	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q153	25C1740	0573487	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q154	25C1740	5321253	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q155	25C1740	5320064	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q201	25C1740	0573492	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q202	25C1740	0573492	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q251	25C1740	5320064	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q252	25C1740	5320944	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q253	25C1740	5321253	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q254	25C1740	5320064	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q301	25C1740	0573487	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q302	25C1740	5321501	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773

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.
Q303	25C460C	0573487	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q304	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q305	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q306	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q307	25C460	0573487	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q308	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q309	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q351	25C460	0573487	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q352	25C460	0573487	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q353	25C460	0573511	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q401	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q402	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q403	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q404	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q405	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q406	25C460	5320064	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-522
Q601	25C1061T	5320671	GE-66	PTC167	HEPS3061	REN 152	SK3054	RT-197	ECG152	TM152/**	WEP745	121-987-02
Q602	25A673C	5320593	GE-269	PTC103*	HEPS0026*	REN 290	SK3114	RT-115*	ECG290	TM290	WEP911	121-1019
Q603	25C458D	5320064	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q604	25C1740	5320613	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q605	25C1740	5320671	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q606	25C1740	5320593	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q701	25C454C	0573492	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q702	25C454C	0573492	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q703	25C454C	5321321	GE-210	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	TM289/**	WEP458	121-773
Q704	25C1307I	5321491	GE-216	PTC186	HEPS3001*	REN 236	SK3239	RT-158	ECG236	TM236	WEP840	121-29040

* 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.	GENERAL LINE
C003	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C010	10 25V	0252621	PC10-25	VTT10B25	QV1-23	EV-1322
C133	4.7 25V	0252615	PC5-50	VTT4R7B50	QV1-27	EV-1319
C142	3.3 10V	025223	PC5-50	VTT3R3A50	QV1-23	EV-1318
C143	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C147	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C203	.47 50V	0256118	PC1-50	VTT4R7A63	QV1-3	EV-1610
C209	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C211	4.7 25V	0252615	PC5-50	VTT4R7B50	QV1-27	EV-1319
C253	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C255	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C258	10 25V	0252621	PC10-25	VTT10B25	QV1-23	EV-1322
C260	3.3 50V	0252613	PC5-50	VTT3R3A50	QV1-25	EV-1618
C262	100 10V	0252331	PC100-10	VTT100E10	QV1-93	EV-1130

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C263	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C265	.47 50V	0256118	PC1-50	VTT47A63	QV1-3	EV-1610
C322	47 10V	0252525	PC50-16	VTT47D16	QV1-73	EV-1226
C327	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C336	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C342	10 25V	0252621	PC10-25	VTT10B25	QV1-43	EV-1322
C345	33 6.3V	0252223	PC30-25	VTT33B10	QV1-61	EV-1125
C346	33 6.3	0252223	PC30-25	VTT33B10	QV1-61	EV-1125
C404	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C406	33 10V	0252323	PC30-25	VTT33B10	QV1-61	EV-1125
C408	10 25V	0252621	PC10-25	VTT10B25	QV1-43	EV-1322
C409	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C411	.33 25V	0256530		TDC334M050EL	QDT1-14	SD50-R339
C413	10 25V	0252621	PC10-25	VTT10B25	QV1-43	EV-1322
C416	33 6.3V	0252223	PC30-25	VTT33B10	QV1-61	EV-1125
C417	100 6.3V	0252231	PC100-10	VTT100E10	QV1-93	EV-1130
C420	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C501	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C502	.22 25V			TDC224M050EL	QDT1-10	SD50-R229
C503	47 10V	0256114	PC50-16	VTT47D16	QV1-73	EV-1226
C505	2200 25V	0256110	WBR2000-25	TC2520A	QE1-645	TVA-1213.5
C509	4.7 25V	0252615	PC5-50	VTT47B50	QV1-27	EV-1319
C513	47 16V	0252525	PC50-16	VTT47D16	QV1-73	EV-1226
C514	470 25V	0256008	WBR500-25*	VTT470M25	QV1-153	EV-1350
C517	1000 25V	0256074	WBR1000-25*	VTT1000M25	QV1-185	EV-1360
C604	2200 25V	0256110	WBR2000-25	TC2520A	QE1-645	TVA-1213.5
C605	2200 25V	0256110	WBR2000-25	TC2520A	QE1-645	TVA-1213.5
C607	10 25V	0252621	PC10-25	VTT10B25	QV1-43	EV-1322
C608	330 6.3V	0252533	WBR300-35*	VTT330G10	QV1-131	EV-1145
C610	10 25V	0252621	PC10-25	VTT10B25	QV1-43	EV-1322
C611	2200 10V	0256104	WBR2000-16*	VTT2200N10	QV1-201	EV-1180
C616	3.3 25V	0252613	PC5-50	VTT33A50	QV1-23	EV-1318
C623	22 10V	0252322	PC25-25	VTT22B16	QV1-55	EV-1224
C750	33 25V	0252623	PC30-25	VTT33D25	QV1-63	EV-1325
C754	1 50V	0252811	PC1-50	VTT1A50	QV1-11	EV-1615
C756	33 25V		PC30-25	VTT33D25	QV1-63	EV-1325
C761	10 25V	0252621	PC10-25	VTT10B25	QV1-43	EV-1322

JC Penney MODEL 681-6241

CAPACITORS

			REPLACEMENT DATA				
ITEM No.	RATING	MFR. PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C001	.01		UK50-103		MAG5011		HY-725
C018	.022		UK25-223				HY-725
C019	.022		UK25-223				HY-725
C020	.022		UK25-223				
C046							
C047							
C048							
C049							
C101A	22		DTZ-22	NP022	CN0422		10TCC-Q22
C101B	56				CN0456		10TCC-Q56
C102	33		DTZ-33	NP033	CN0433		10TCC-Q33
C104	.022		UK25-223				HY-725
C105	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C106	.01		UK50-103		MAG5011		
C107	.022		UK25-223				HY-725
C108	.022		UK25-223				HY-725
C109	18				CN0418		10TCC-Q18
C110	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C111	.022		UK25-223				HY-725
C112	.022		UK25-223				HY-725
C113	10		DTZ-10	NP010	CN0410		10TCC-Q10
C114	.022						
C115	.022		UK25-223				HY-725
C116	1				CN0510		10TCC-V10
C117	.022		UK25-223				HY-725
C119	.022		UK25-223				HY-725
C120	22		DTZ-22	NP022	CN0422		10TCC-Q22
C125	4		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C131	27				CN0427		10TCC-Q27
C132	47		DTZ-47	NP047	CN0447		10TCC-Q47
C134	100		DTZ-100	NP0100	CN0310		10TCC-T10
C135	.01		UK50-103		MAG5011		
C136	22		DTZ-22	NP022	CN0422		10TCC-Q22
C137	.022		UK25-223				HY-725
C138	.022		UK25-223				HY-725
C139	10		DTZ-10	NP010	CN0410		10TCC-Q10
C140	.01		UK50-103		MAG5011		
C141	12				CN0412		10TCC-Q12
C144	.022		UK25-223				HY-725
C145	27				CN0427		10TCC-Q27
C146	.022		UK25-223				HY-725
C148	100 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C149	10		DTZ-10	NP010	CN0410		10TCC-Q10
C150	.022		UK25-223				HY-725
C151	33		DTZ-33	NP033	CN0433		10TCC-Q33
C152	.022		UK25-223				HY-725
C153	.022		UK25-223				HY-725
C154	39				CN0439		10TCC-Q39
C155	.001		DD-102		GP210		10TS-D10
C156	.022		UK25-223				HY-725
C157	.022		UK25-223				HY-725
C158	.022		UK25-223				HY-725
C159	.001		DD-102		GP210		10TS-D10

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
C160	150		DTZ-150		CN0315		10TCC-T15
C161	.001		DD-102		GP210		10TS-D10
C162	100		DTZ-100	NP0100	CN0310		10TCC-T10
C163	.022		UK25-223				HY-725
C164	.01		UK50-103		MAG5011		
C181	.01						
C182	.01		UK50-103		MAG5011		
C201	.022		UK25-223				HY-725
C202	.022		UK25-223				HY-725
C203	.022		UK25-223				HY-725
C204	.022		UK25-223				HY-725
C205	.022		UK25-223				HY-725
C206	.0047 10%		DD-472	GP4700	GP247		5GA-D47
C207	.01			WMF1S1	M192P1039R8	QFT2-91	1FT-S10
C208	.022			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C210	.01		UK50-103		MAG5011		
C212	.022		UK50-103				HY-725
C213	.01				MAG5011		
C214	.01			WMF1S1	M192P1039R8	QFT2-91	1FT-S10
C215	.015			WMF1S1	M192P1039R8	QFT2-91	1FT-S10
C252	.01		UK50-103		MAG5011		
C254	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C256	.01		UK50-103		MAG5011		
C257	.022		UK25-223				HY-725
C259A	.01			WMF1S1	M192P1039R8	QFT2-91	1FT-S10
C259B	10		DTZ-10	NP010	CN0410		10TCC-Q10
C261	68		DTZ-68	NP068	CN0468		10TCC-068
C301	.022		UK25-223				HY-725
C302	.022		UK25-223				HY-725
C303	.022		UK25-223				HY-725
C304	6		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C305	6		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C306	470		DD-471	GP470	GP347		10TS-T47
C307	47		DTZ-47	NP047	CN0447		10TCC-Q47
C308	.01		UK50-103		MAG5011		
C309	12				CN0412		10TCC-Q12
C310	33		DTZ-33	NP033	CN0433		10TCC-Q33
C311	39 10%				CN0439		10TCC-Q39
C312	4		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C313	.068			WMF1S68	EWFA1A168	QF1-195	1PB-S68
C314	22		DTZ-22	NP022	CN0422		10TCC-Q22
C315	27				CN0427		10TCC-Q27
C316	15		DTZ-15	NP015	CN0415		10TCC-Q15
C317	.022		UK25-223				HY-725
C318	.01		UK50-103		MAG5011		
C319	.01		UK50-103		MAG5011		
C320	.01		UK50-103		MAG5011		
C321	.047		UK25-503		MAG2515		HY-735
C323	.022		UK25-223				HY-725
C324	47		DTZ-47	NP047	CN0447		10TCC-Q47
C325	47		DTZ-47	NP047	CN0447		10TCC-Q47
C326	.047		UK25-503		MAG2515		HY-735
C328	10 N220	0248020			*		10TCR-Q10
C329	39 N750				CN7439		10TCU-Q39
C330	.01		UK50-103		MAG5011		
C331	33 N750	0248056	DTN-33	N33	CN7433		10TCU-Q33
C332	120 N220 5%				*		10TCR-T12
C333	.01		UK50-103		MAG5011		
C334	.047		UK25-503		MAG2515		HY-735
C335	.01		UK50-103		MAG5011		
C337	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C339	.022		UK25-223				HY-725
C340	33		DTZ-33	NP033	CN0433		10TCC-Q33
C343	1				CN0510		10TCC-V10
C344	33		DTZ-33	NP033	CN0433		10TCC-Q33
C348	.01		UK50-103		MAG5011		
C349	.068			WMF1S68	EWFA1A168	QF1-195	1PB-S68
C351	.022		UK25-223				HY-725
C352	.022		UK25-223				HY-725
C354	10		DTZ-10	NP010	CN0410		10TCC-Q10
C355	.001		DD-102		GP210		10TS-D10
C356	27				CN0427		10TCC-Q27
C357	.022		UK25-223				HY-725
C359	.01		UK50-103		MAG5011		
C361	.022		UK25-223				HY-725
C362	22		DTZ-22	NP022	CN0422		10TCC-Q22
C363	22		DTZ-22	NP022	CN0422		10TCC-Q22
C364	39				CN0439		10TCC-Q39
C365	330		DD-331	GP330	GP333		10TS-T33
C366	47		DTZ-47	NP047	CN0447		10TCC-Q47
C367	.022		UK25-223				HY-725
C368	82		DTZ-82	NP082	CN0482		10TCC-Q82
C403	.001		DD-102		GP210		10TS-D10
C405	.022		UK25-223				HY-725
C407	.047			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C410	.01		UK50-103		MAG5011		
C412	.15			WMF05P15	EWFO5015		431P1549R5
C414	.022		UK25-223				HY-725
C415	.001		DD-102		GP210		10TS-D10
C418	.001		DD-102		GP210		10TS-D10
C428	.001		DD-102		GP210		10TS-D10
C429	.022		UK25-223				HY-725
C472	.022						
C502	.022		UK25-223				HY-725
C504	.0047						1FT-D47
C506	.01			WMF1D47	M192P4729R8	QFT2-63	1FT-S10
C507	68		DTZ-68	WMF1S1	M192P1039R8	QFT2-91	10TCC-Q68
C508	100		DTZ-100	NP068	CN0468		10TCC-T10
C510	.22			NP0100	CN0310		1FT-P22
				WMF05P22	M192P2249R8	QFT2-253	

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
C518	.022		UK25-223				HY-725
C519	.022		UK25-223				HY-725
C520	.022		UK25-223				HY-725
C521	.022		UK25-223				HY-725
C522	.047			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C523	.022		UK25-223				HY-725
C524	.001		DD-102		GP210		10TS-D10
C525	.0047			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C602	.01		UK50-103		MAG5011		
C603	.01		UK50-103		MAG5011		
C606	.01		UK50-103		MAG5011		
C609	.047		UK25-503		MAG2515		HY-735
C612	.022		UK25-223				HY-725
C613	.022		UK25-223				HY-725
C614	.022		UK25-223				HY-725
C615	.022		UK25-223				HY-725
C624	.047		UK25-503		MAG2515		HY-735
C626	.047		UK25-503		MAG2515		HY-735
C700	180 10%		DTZ-180				10TCC-T18
C702	47		DTZ-47	NP047	CN0447		10TCC-047
C703	.01		UK50-103		MAG5011		
C704	.022		UK25-223				HY-725
C705	22		DTZ-22	NP022	CN0422		10TCC-Q22
C706	47		DTZ-47	NP047	CN0447		10TCC-Q47
C707	.022		UK25-223				HY-725
C708	22		DTZ-47	NP047	CN0447		10TCC-047
C709	.022		UK25-223				HY-725
C711	.022		UK25-223				HY-725
C712	68		DTZ-68	NP068	CN0468		10TCC-068
C713	.022		UK25-223				HY-725
C714	270 5%		DTZ-270				10TCC-T27
C715	.022		UK25-223				HY-725
C716	.022		UK25-223				HY-725
C717	56				CN0456		10TCC-056
C718	150		DTZ-150		CN0315		10TCC-T15
C719	.022		UK25-223				HY-725
C720	.022		UK25-223				HY-725
C721	1				CN0510		10TCC-V10
C722	22		DTZ-22	NP022	CN0422		10TCC-Q22
C723	470		DD-471	GP470	GP347		10TS-T47
C724	150 NPO 5%		DTZ-150		CN0315		10TCC-T15
C725	220		DTZ-220				10TCC-T22
C726	220		DTZ-220				10TCC-T22
C728	220 10%		DTZ-220				10TCC-T22
C729	.022		UK25-223				HY-725
C730	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C731	.022		UK25-223				HY-725
C732	.022		UK25-223				HY-725
C733	56				CN0456		10TCC-056
C734	150		DTZ-150		CN0315		10TCC-T15
C735	.022		UK25-223				HY-725
C736	.022		UK25-223				HY-725
C738	.022		UK25-223				HY-725
C739	.022		UK25-223				HY-725
C740	.01		UK50-103		MAG5011		
C742	.022		UK25-223				HY-725
C745	100 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C749	.022		UK25-223				HY-725
C751	.022		UK25-223				HY-725
C752	.001		DD-102		GP210		10TS-D10
C753	120 10%		DTZ-120		CN0312		10TCC-T12
C755	.022		UK25-223				HY-725
C760	180 N150 5%				*		10TCP-T18
C781	.022		UK25-223				HY-725
CT301	5-50	5058104					
CT302	5-50	5058104					
CT351	5-50	5058104					
CT352	5-50	5058104					

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
RT002	RF Meter	47K	0151888	T-50K(4)	MTC54L1(4)	U260R503B(4)
RT101	AM IF Gain	1000	0151883	T-1000(4)	MTC13L1(4)	U260R102B(4)
RT131	SSB IF Gain	4700	0151885	T-5000(4)	MTC53L1(4)	U260R502B(4)
RT132	Modulation Balance	10K	0151886	T-10K(4)	MTC14L1(4)	U260R103B(4)
RT201	AM S Meter	47K	0151888	T-50K(4)	MTC54L1(4)	U260R503B(4)
RT202	AM Squelch Range	10K	0151886	T-10K(4)	MTC14L1(4)	U260R103B(4)
RT251	AGC	10K	0151886	T-10K(4)	MTC14L1(4)	U260R103B(4)
RT252	SSB Squelch Range	47K	0151888	T-50K(4)	MTC54L1(4)	U260R503B(4)
RT253	SSB Meter	47K	0151888	T-50K(4)	MTC54L1(4)	U260R503B(4)
RT601	Voltage	470	0151882	T-500(4)	MTC52L1(4)	U260R102B(4)
RT602	AM Power	1000	0151883	T-1000(4)	MTC13L1(4)	U260R102B(4)
RT701	SSB ALC	10K	0151886	T-10K(4)	MTC14L1(4)	U260R103B(4)
RV001	SWR CAL	20K	5000307			
RV101	RF Gain	5000	5000309			
RV251	Squelch	10K	5000432			
RV301	Fine Tune	10K	5000306			
RV501	Volume/Power Switch	100K	5003142			
RV502	Tone	20K	5000307			

(4) Modify terminals to fit PC board.

JCPenney MODEL 681-6241

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.	
L101	RF (27MHz)	5126372			
L302	Mixer (120uH)	5152088			
L303	RF Choke (820uH)	5152099			
L401	RF Choke (150uH)	5152089			
L602A	RF Choke (3.9uH)	5152068			
L602B	RF Choke (3.9uH)	5152068			
L603	RF Choke (3.9uH)	5152068			
L604	RF Choke (3.9uH)	5152068			
L605	RF Choke (3.9uH)	5152068			
L701	RF Choke (1uH)	5150783			
L702	XMT Driver (27MHz)	5126292	6292		
L703	Trap	5123271			
L704	Final (27MHz)	5126292	6292		
L705	Loading Final (.35uH)	5126551			
L706	Pi Filter (.40uH)	5126552			
L707	Pi Filter (.40uH)	5126552			
L708	RF Choke (1uH)	5152061			
L709	Antenna Matching (.33uH)	5150073			
L710	Trap	5123271			
T101	RF Amp (27MHz)	5120099	20099		
T102	AM IF (11.275MHz)	0322341			
T103	AM Mixer (445kHz)	0322116	22116	CBS510-1TC	
T131	FM IF (11.275MHz)	5142026	42026	8517	
T132	SSB IF (11.275MHz)	0322341	22341		
T134	SSB IF (11.275MHz)	0322341		CBS510-1TC	
T151	SSB AGC Amp (27MHz)	5123266	23266	CBS510-1TC	
T152	Noise Amp (27MHz)	5123266	23266		
T201	AM IF (455kHz)	0322146			
T202	AM IF (455kHz)	5132031	320316735	CBS503-4TC	
T301	Local Oscillator (36MHz)	5123261	23261		
T302	VCO	5123269			
T303	Buffer (38.240MHz)	5123261			
T304	Buffer (38.240MHz)	5123261			
T351	XMT IF (11.275MHz)	5123445	23445		
T701	XMT Balanced Mixer (27MHz)	5123432	23432		
T702	XMT Band (27MHz)	5123432	23432		
T703	XMT Predriver (27MHz)	5123261	23261		
T704	XMT Balanced Mixer (27MHz)	5123432	23432		

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (O CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L601	2.2A	.3	1.5mH	5220002			

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
PT	120V AC @ 820mA AC	15.70V AC @ 3.6A AC	5212033			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T501	8	8	5230193			

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3 1/4" X 4 1/2" PM 8 Ohms	5415001		

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	3A Quick Acting	5721131		GJV(3A)		318003		
F602	3A Quick Acting	5720243		AGC(3A)	HRK	312003	150145	FG3-2

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	5421227	18-032	18-034	18-010	18-092	2	1	3	NC	NC	1

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF101	Filter	5160011	455k Ω
D006A	LED	5380182	Modulation (LRD302)(SR-103D)(1.50V @ 7.00mA)
D053	LED	5310101	Channel Readout, Tens & Units (Each Segment Supplied 1.67V @ 17.4mA)
D607	LED	5380182	XMT (1.73V @ 13.3mA) (LR0302)
JA1	Jack	5673111	External Speaker
JA2	Jack	5673111	PA Speaker
JA3	Jack	5675152	Antenna
LM001	Meter	5554207	S/Rf/SWR
NL1	Lamp	0594094	Neon
PL601	Lamp	5760821	Meter (5.72V @ 32mA)
RL601	Relay	5640062	
SW001	Switch	5604205	SWR/CAL/Rf
SW151	Switch	5639241	Noise Blanker
SW201	Switch	5639241	ANL
SW301	Switch	5612221	Channel Selector
SW601	Switch		Power (Part of Volume Control)
SW602	Switch	5604203	AM/SSB
SW603	Switch	5639241	USB/LSB
SW701	Switch	5639241	PA/CB
X301	Crystal	5780284	12.320MHz
X302	Crystal	5780283	12.319MHz
X303	Crystal	5780281	10.240MHz
X351	Crystal	5780169	11.275MHz
X352	Crystal	5780168	11.272MHz
X353	Crystal	5780167	11.730MHz
XF131	Filter	5161011	11.2735MHz
	Cord	0593477	AC Power
	Cord	5740705	DC Power
	Holder	6575561	LED
	Jack	5663132	Microphone (4 Pin Connector)

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

ITEM	PART No.	ITEM	PART No.
Bottom, Cover	6147001	Rubber Plate	6576181
Escutcheon Assembly	6242223	Speaker, Panel	6738641
Knob Assembly (Channel)	6285361	Stand	7666311
Knob Assembly	6285362	Stand Bracket	6718253
Rubber Base	7666071	Stand Bracket	6718254
Rubber Base	7666161	Upper, Cover	6146991

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')

JCPenney MODEL 681-6241

INDEX

Listing all models/chassis covered in
PHOTOFACT CB (Citizens Band) Series volumes

KEY —————→ (EP) Early Production (LP) Late Production (Rev) Revised (SN) Serial Number (PCB) Production Change Bulletin

AIMOR	CADRE (CONT.)	COLT (CONT.)	EVERSONIC	GENERAL MOTORS (CONT.)	HY-GAIN
CB7000 CB-109	510A 15 CB-6 520 25 CB-7	800 CB-166 1000 CB-184	HA23C (Sim. to Pg. 5) CB-107	4120 CB-194 4145 CB-195 4175 CB-196 4230 CB-214 994856 CB-95 995432 CB-95 7898220 CB-149 7898340 CB-201 7898426 436 CB-149 7898470 CB-201 7898530 CB-112 7898540 CB-111 7898570 99443 CB-149 16000440 43 456 466 CB-164 16000570 810 866 876 CB-215 16001111 CB-184 16001691 CB-201	Hy Range I CB-63 Hy Range II CB-63 Hy Range III CB-65 Hy Range IV CB-64 Hy Range V CB-70 Hy Range VI CB-64 Hy Range (674) CB-70 Hy Range (674A) (See Page 5) CB-70 Hy Range (674B) CB-129 VIII (3078) CB-136 623 CB-71 623A (See Page 5) CB-71 670A (See Page 5) CB-63 670A (Hy Range I) CB-63 670B (Hy Range I) CB-115 670B PR CB-115 671 CB-63 671A (See Page 5) CB-63 671B (Hy Range II) CB-118 672 CB-65 672A (See Page 5) CB-65 672B (Hy Range III) CB-114 673 CB-64 673A (See Page 5) CB-64 674 CB-70 674A (See Page 5) CB-70 674B CB-129 675 CB-64 675A (See Page 27) CB-64 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119
AIRCATTLE JE321 CB-15 23 02 CB-38	CALTRON CB 7500 CB-143	COMMANDER 80 (See Page 31) CB-22 750 (See Page 19) CB-22 777 (See Page 15) CB-18	FANON CCT3 CB-37 CB4 CB-37 ID40 CB-224 LC89 CB-4 Fanfare100 CB-54 Fanfare100F1 CB-131 Fanfare120 CB-97 Fanfare125F1 CB-189 Fanfare182F CB-204 Fanfare184DF CB-193 Fanfare185DF CB-169 Fanfare185DF L CB-174 Fanfare190DF CB-184 Fanfare200 (See Pg. 5) CB-46 Fanfare350F CB-192 Fanfare700 CB-53 Fanfare80DF CB-157 IC3000 CB-24 IC5000 CB-25 LC89 CB-18 L2000 CB-17 SFT1400 500 CB-35 SFT1600 CB-31 SFT1800A CB-93 SFT1900/Guardsman CB-37 T600 CB-36 T606 CB-35 T700 CB-29 T707 CB-27 T800 CB-27 T808 CB-38 T900 CB-46 T1000 CB-38 T1000C CB-150	GENERAL RADIO MC6 CB-7 Super MC8 CB-13 Super MC9 CB-16 Super MC11A CB-12 VS6 7 CB-11	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119
AIRLINE (See Wards)	CAPITOL ND 309 CB-3	COMMANDO 2310 CB-123 2320 25 CB-119 2340 CB-121	FANON CCT3 CB-37 CB4 CB-37 ID40 CB-224 LC89 CB-4 Fanfare100 CB-54 Fanfare100F1 CB-131 Fanfare120 CB-97 Fanfare125F1 CB-189 Fanfare182F CB-204 Fanfare184DF CB-193 Fanfare185DF CB-169 Fanfare185DF L CB-174 Fanfare190DF CB-184 Fanfare200 (See Pg. 5) CB-46 Fanfare350F CB-192 Fanfare700 CB-53 Fanfare80DF CB-157 IC3000 CB-24 IC5000 CB-25 LC89 CB-18 L2000 CB-17 SFT1400 500 CB-35 SFT1600 CB-31 SFT1800A CB-93 SFT1900/Guardsman CB-37 T600 CB-36 T606 CB-35 T700 CB-29 T707 CB-27 T800 CB-27 T808 CB-38 T900 CB-46 T1000 CB-38 T1000C CB-150	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119
ALARON B1025 CB-105 B1050 CB-106 B1100 CB-108 B1150 CB-107 B5050A CB-195 B5200 CB-206 HA23C CB-10 13 4075 CB-190 13 4900 CB-187	CHANNEL MASTER CB6830 CB-126 CB6832 CB-158 6423 CB-40 6553 CB-9 6554 CB-13	CONCORD TG132B CB-12	FANON CCT3 CB-37 CB4 CB-37 ID40 CB-224 LC89 CB-4 Fanfare100 CB-54 Fanfare100F1 CB-131 Fanfare120 CB-97 Fanfare125F1 CB-189 Fanfare182F CB-204 Fanfare184DF CB-193 Fanfare185DF CB-169 Fanfare185DF L CB-174 Fanfare190DF CB-184 Fanfare200 (See Pg. 5) CB-46 Fanfare350F CB-192 Fanfare700 CB-53 Fanfare80DF CB-157 IC3000 CB-24 IC5000 CB-25 LC89 CB-18 L2000 CB-17 SFT1400 500 CB-35 SFT1600 CB-31 SFT1800A CB-93 SFT1900/Guardsman CB-37 T600 CB-36 T606 CB-35 T700 CB-29 T707 CB-27 T800 CB-27 T808 CB-38 T900 CB-46 T1000 CB-38 T1000C CB-150	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119
ALLIED A 2507 CB-20 A 2530 CB-19 A 2533 CB-22 A 2543 CB-21 A 2545 CB-18 A 2559 CB-34 A 2561 CB-34 A 2564 2568 CB-34 A 2569 CB-34 A2544 CB-23 A2567 CB-23 KN2567 CB-23 17A6965U/66L CB-29 17B6435X/440X CB-22 17B6790X CB-22 17B6825X CB-19 17B9801S CB-21 17B9802S CB-23 17B9803S CB-23 17C469U CB-34 21B5559U CB-34 21B5561 CB-35	CHRYSLER 4048076 4048077 CB-225 4094173 CB-200 4094176 CB-198 4094177 CB-199 4094178 CB-202	CONVOY CON430 CB-146 CON440 CB-183 CON450 CB-164	FANON CCT3 CB-37 CB4 CB-37 ID40 CB-224 LC89 CB-4 Fanfare100 CB-54 Fanfare100F1 CB-131 Fanfare120 CB-97 Fanfare125F1 CB-189 Fanfare182F CB-204 Fanfare184DF CB-193 Fanfare185DF CB-169 Fanfare185DF L CB-174 Fanfare190DF CB-184 Fanfare200 (See Pg. 5) CB-46 Fanfare350F CB-192 Fanfare700 CB-53 Fanfare80DF CB-157 IC3000 CB-24 IC5000 CB-25 LC89 CB-18 L2000 CB-17 SFT1400 500 CB-35 SFT1600 CB-31 SFT1800A CB-93 SFT1900/Guardsman CB-37 T600 CB-36 T606 CB-35 T700 CB-29 T707 CB-27 T800 CB-27 T808 CB-38 T900 CB-46 T1000 CB-38 T1000C CB-150	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119
ALLSTATE 832 62270 CB-7 893 62910/11 921 931 941 CB-6	CITIFONE CD5A 12 /6 CB-9 CD5 6 CB-1 CD6 6 CB-3 CD11 6 CB-3 CD6 12 CB-3 CD11 12 CB-12 CD11 12 CB-12 SS II(1103 01) CB-15 SS CB-9 991 12 CB-26 991 6 CB-12 1103 1 CB-15	COURIER Bayer 40D CB-185 CCT2 CB-35 CCT3 CB-37 CCT4 CB-36 CHB3 CB-35 CHB4 CB-35 CWT3 CB-29 CWT40 CB-27 CWT50 CB-36 CWT50 CB-36 Caravelle CB-38 Caravelle 40D CB-157 Caravelle CB-52 Centurion CB-52 CenturionPlus CB-35 Chief23 CB-35 Citation CB-38 Classic CB-25 ClassicPII40 CB-186 ClassicII CB-30 ClassicII CB-30 Clapper23 CB-48 Comet23 CB-48 Conqueror CB-73 Conqueror CB-73 Conqueror 40D CB-157 Cruiser CB-49 Gladiator CB-49 Night Rider 40D CB-197 Ranger23 CB-33 Rang er 40D CB-183 Rebel23 CB-131 Rebel40A CB-131 Rebel PLL CB-150 Redball CB-72 Revegate 40 CB-189 Rogue 40 CB-26 SpartanPlus SSB CB-54 Traveler CB-31 Traveler II CB-18	FANON CCT3 CB-37 CB4 CB-37 ID40 CB-224 LC89 CB-4 Fanfare100 CB-54 Fanfare100F1 CB-131 Fanfare120 CB-97 Fanfare125F1 CB-189 Fanfare182F CB-204 Fanfare184DF CB-193 Fanfare185DF CB-169 Fanfare185DF L CB-174 Fanfare190DF CB-184 Fanfare200 (See Pg. 5) CB-46 Fanfare350F CB-192 Fanfare700 CB-53 Fanfare80DF CB-157 IC3000 CB-24 IC5000 CB-25 LC89 CB-18 L2000 CB-17 SFT1400 500 CB-35 SFT1600 CB-31 SFT1800A CB-93 SFT1900/Guardsman CB-37 T600 CB-36 T606 CB-35 T700 CB-29 T707 CB-27 T800 CB-27 T808 CB-38 T900 CB-46 T1000 CB-38 T1000C CB-150	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119
AMERICAN ELECTRONIC 76 501 (Spirit) CB-95 76 551 (Buccaneer) CB-96 76 601 (Freedom) CB-95	CLARICOM Privateer CB-85 Privateer CB-85 15 200 CB-27 15 200 CB-27 15 410 CB-14 15 500 CB-23 15 600 CB-35 30200 (Intruder) CB-110 30400 CB-79 30500 (Raider) CB-117 30600 (Privateer) CB-85 30800 (Activator) CB-119	CRAIG L102 CB-232 4101 CB-97 4102 CB-100 4103 CB-98 4104 CB-105 4201 CB-99	FANON CCT3 CB-37 CB4 CB-37 ID40 CB-224 LC89 CB-4 Fanfare100 CB-54 Fanfare100F1 CB-131 Fanfare120 CB-97 Fanfare125F1 CB-189 Fanfare182F CB-204 Fanfare184DF CB-193 Fanfare185DF CB-169 Fanfare185DF L CB-174 Fanfare190DF CB-184 Fanfare200 (See Pg. 5) CB-46 Fanfare350F CB-192 Fanfare700 CB-53 Fanfare80DF CB-157 IC3000 CB-24 IC5000 CB-25 LC89 CB-18 L2000 CB-17 SFT1400 500 CB-35 SFT1600 CB-31 SFT1800A CB-93 SFT1900/Guardsman CB-37 T600 CB-36 T606 CB-35 T700 CB-29 T707 CB-27 T800 CB-27 T808 CB-38 T900 CB-46 T1000 CB-38 T1000C CB-150	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119	GLOBE CB100 CB-1 CB100A CB-1 CB200 CB-2 President VIII CB-137 X90 Pocketphone CB-135 18 9000 CB-110 18 9001 CB-119 65 220 (Globe Master) CB-6 65 228 (President VIII) CB-6 9001 (18 9001) CB-119 9001 (18 9001) CB-119
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