



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES AND REGULATIONS PART 95, SUBPARTS C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL 981-6240(981-3445)

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:	GC ELECTRONICS
T2, T3, T4, T9 thru T16	9440
T19 thru T27	9087, 9089
T5 thru T8	8728, 8290
C101 thru C136	5000, 8290

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
FREQUENCY COUNTER Audio Generator (Mod. 1000Hz)	1 LSB	C116,C105	26.96330MHz	Connect audio generator to microphone input. Connect frequency counter to antenna jack. Set fine tuning fully counterclockwise (C143). Key transmitter for each adjustment.
	2 LSB	C106	26.97330MHz	
	3 LSB	C107	26.98330MHz	
	4 LSB	C108	27.00330MHz	
FREQUENCY COUNTER	1 AM	C133	26.96430MHz	Same as above except NO MODULATION.
	2 AM	C134	26.97430MHz	
	3 AM	C135	26.98430MHz	
	4 AM	C136	26.00430MHz	
	5 AM	C117	27.01430MHz	
	9 AM	C118	27.06430MHz	
	13 AM	C119	27.11430MHz	
	17 AM	C120	27.16430MHz	
FREQUENCY COUNTER	21 AM	C121	27.21430MHz	
	AM	C101	11.7310MHz	

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

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JCPenney MODEL 981-6240

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 120-volt AC input to power supply.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to antenna jack, low side to ground.	27.075MHz, 1000Hz @ 30% modulation.	10	L25,L27,T2, T3,T4,T5, T6,T7,T8, T9,T10,T11, T12,T13, T14,T15, T16,R12	Set mode to AM. Set generator low enough to prevent overload. Adjust for maximum. Adjust R12 for desired sensitivity.
High side thru .01uF to antenna jack, low side to ground.	27.075MHz, no modulation.	10	T8,T9,T10, R67	Set mode to LSB. Adjust fine tuning for a 1000Hz beat note. Adjust for maximum. Adjust R67 for desired sensitivity.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
These adjustments made with 120-volt AC input to power supply.
Adjust volume control to obtain a suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
AGC High side thru .01uF to antenna jack, low side to ground.	27.075MHz, 1000Hz @ 30% modulation, output 50,000uV.	10	R77	Set mode switch to LSB. Adjust volume control to obtain 0 db. Decrease generator to 50uV. Adjust so that signal does not drop more than 6 db.
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.075MHz, 1000Hz @ 30% modulation, output 100uV.	10	R19 (AM) R221 (SSB)	Set squelch control fully clockwise. Adjust so that squelch just breaks.
"S" METER High side thru .01uF to antenna jack, low side to ground.	27.075MHz, 1000Hz @ 30% modulation, output 100uV.	10	R331 (AM) R332 (SSB)	Adjust each for "S"9 on panel meter.

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 120-volt AC input to power supply.

AM

INDICATOR	ADJUST	REMARKS
MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	T19,T20,T21, L22,L23,L24, L26	Inject a 1000Hz 1mV signal into microphone input. Mode switch to AM. Channel selector to 13. Key transmitter. Adjust for maximum.
OUTPUT POWER RF Wattmeter	T15,T16	Mode switch to AM. Key transmitter. Adjust for 3 watts output.
FINAL INPUT POWER Remove jumper at TP1 and connect 0-1000 DC milliammeter.	L26	Adjust for 5 watts (maximum).

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 120-volt AC input to power supply.

SSB

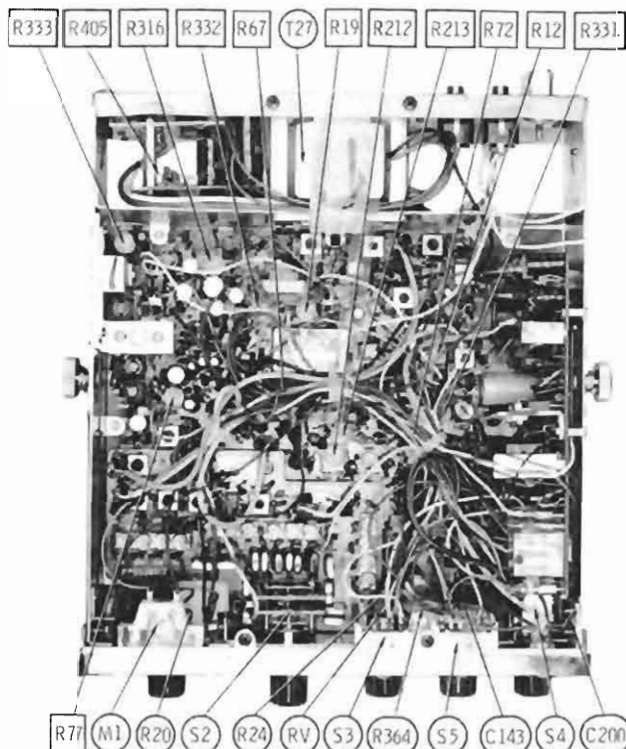
INDICATOR	ADJUST	REMARKS
USB CARRIER OSC. Connect frequency counter from wiper of R72 to ground.	C174	Set mode switch to USB. Adjust for 11.275MHz.
LSB CARRIER OSC. Connect frequency counter from wiper of R72 to ground.	C161	Set mode switch to LSB. Adjust for 11.272MHz.
CARRIER BALANCE Connect oscilloscope to antenna jack.	C71, R72	Short mic input. Set mode switch to LSB or USB. Key transmitter and adjust for MINIMUM on scope.

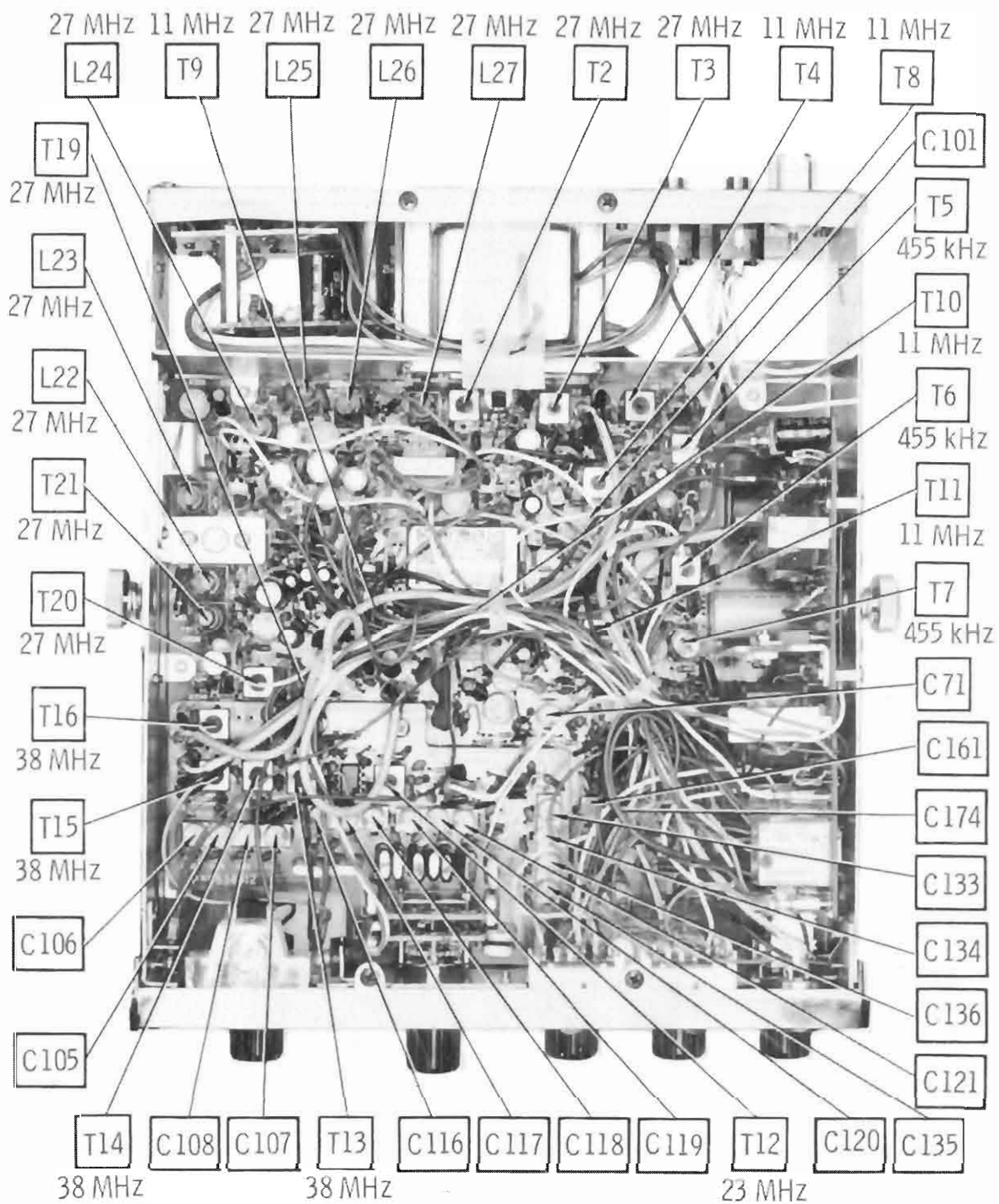
TRANSMITTER ADJUSTMENTS

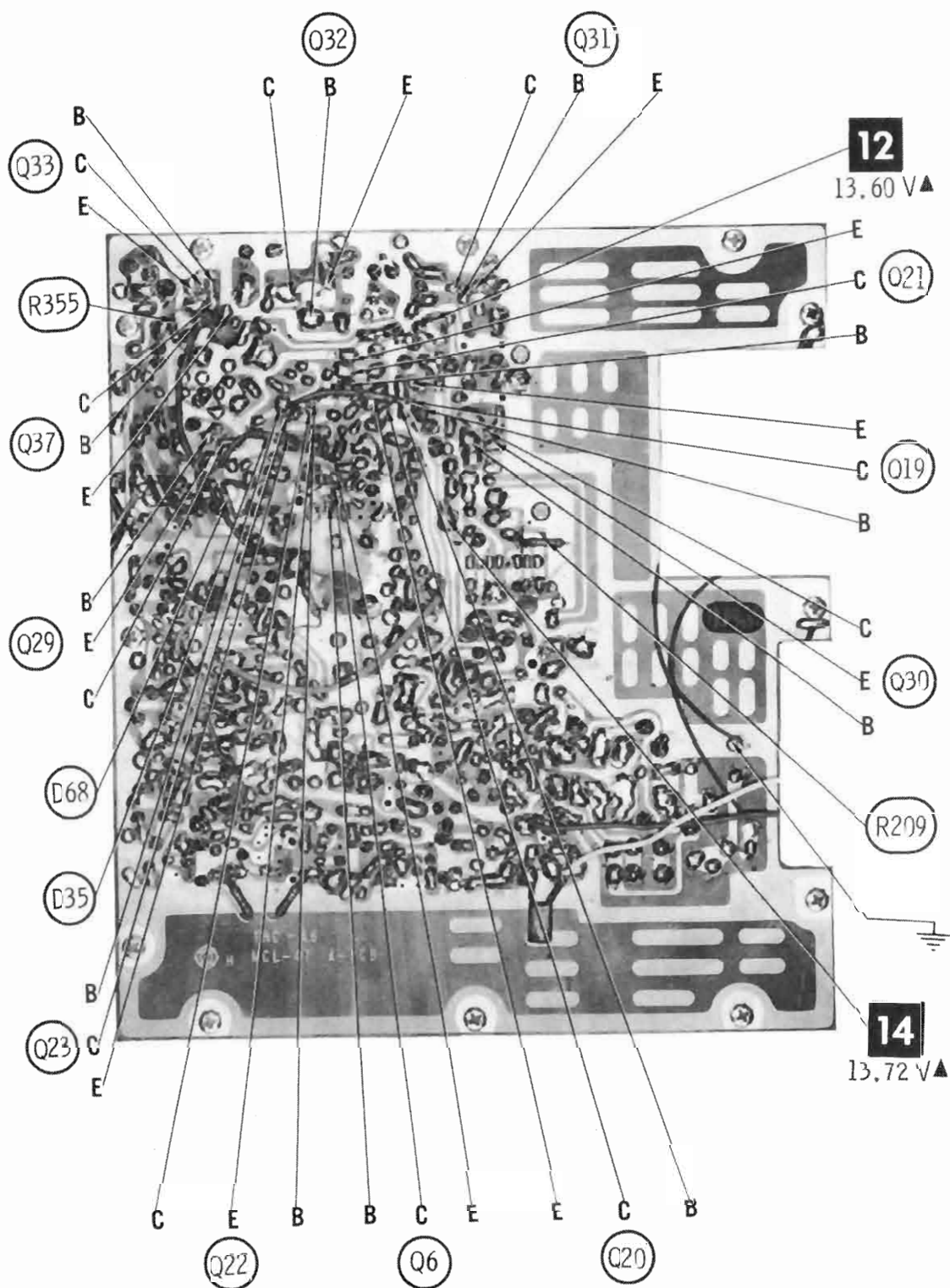
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 120-volt AC input to power supply.

INDICATOR	ADJUST	REMARKS
VOLTAGE REGULATOR DC Voltmeter connected to emitter of Q36.	R405	Adjust for 14V DC at emitter of Q36. Key transmitter. Voltage should not vary.
AM-SSB MIC GAIN RANGE Oscilloscope (Usable to 30MHz) connected to antenna jack.	R212 (AM) R213 (SSB)	Set panel mic gain control fully clockwise. Inject a 1000Hz 1mV audio signal at mic input. Key transmitter. Adjust AM for 100% modulation, SSB for 1.5 watts output.
ALC RF Wattmeter Oscilloscope connected to antenna jack.	R316	Set mode switch to LSB. Inject a 1000Hz 3mV audio signal at mic input. Key transmitter. Adjust for 3 watts.
RF PANEL METER RF Wattmeter	R333	Set mode switch to AM. Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.

JCPenney MODEL 981-6240





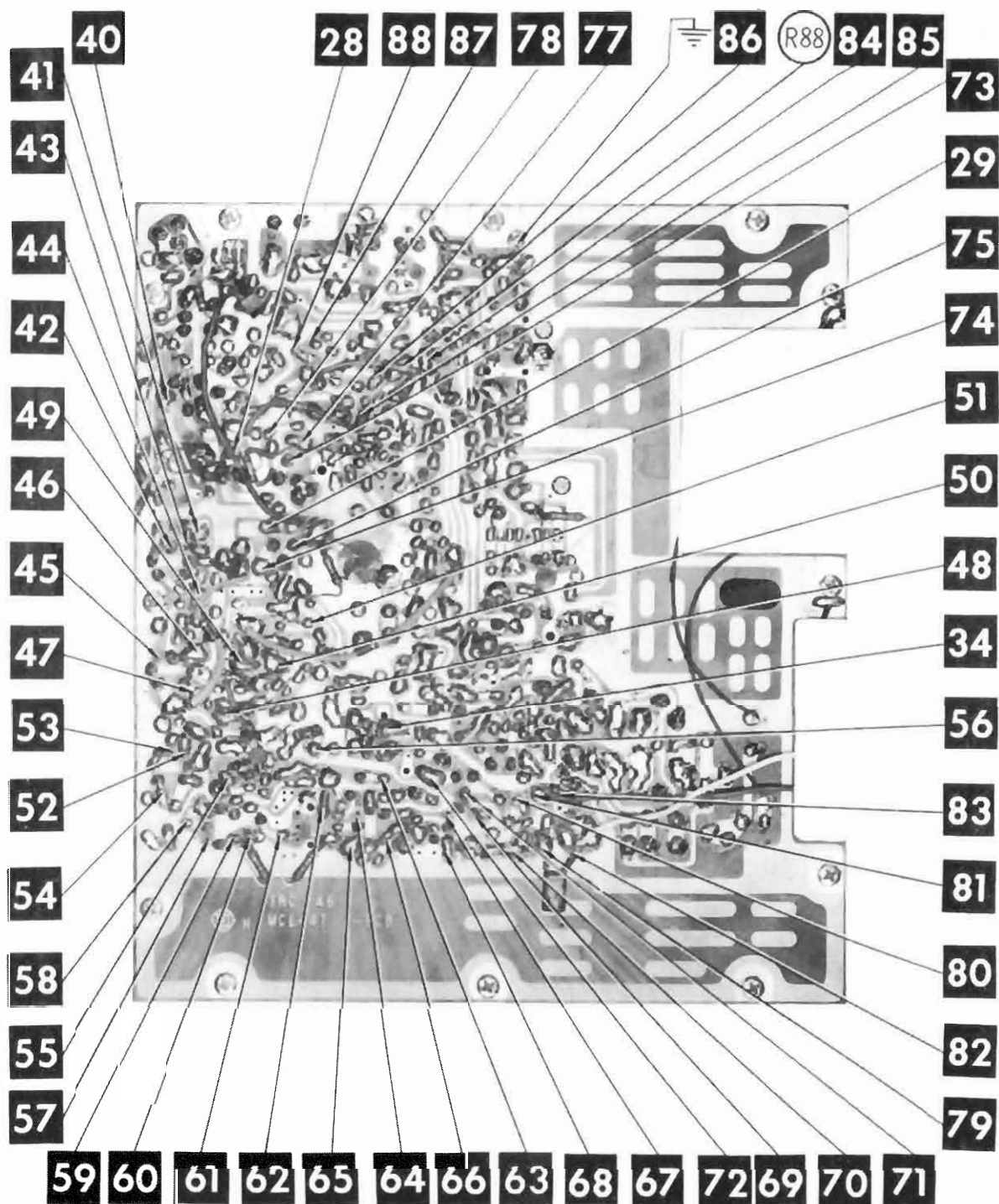


▲ Record

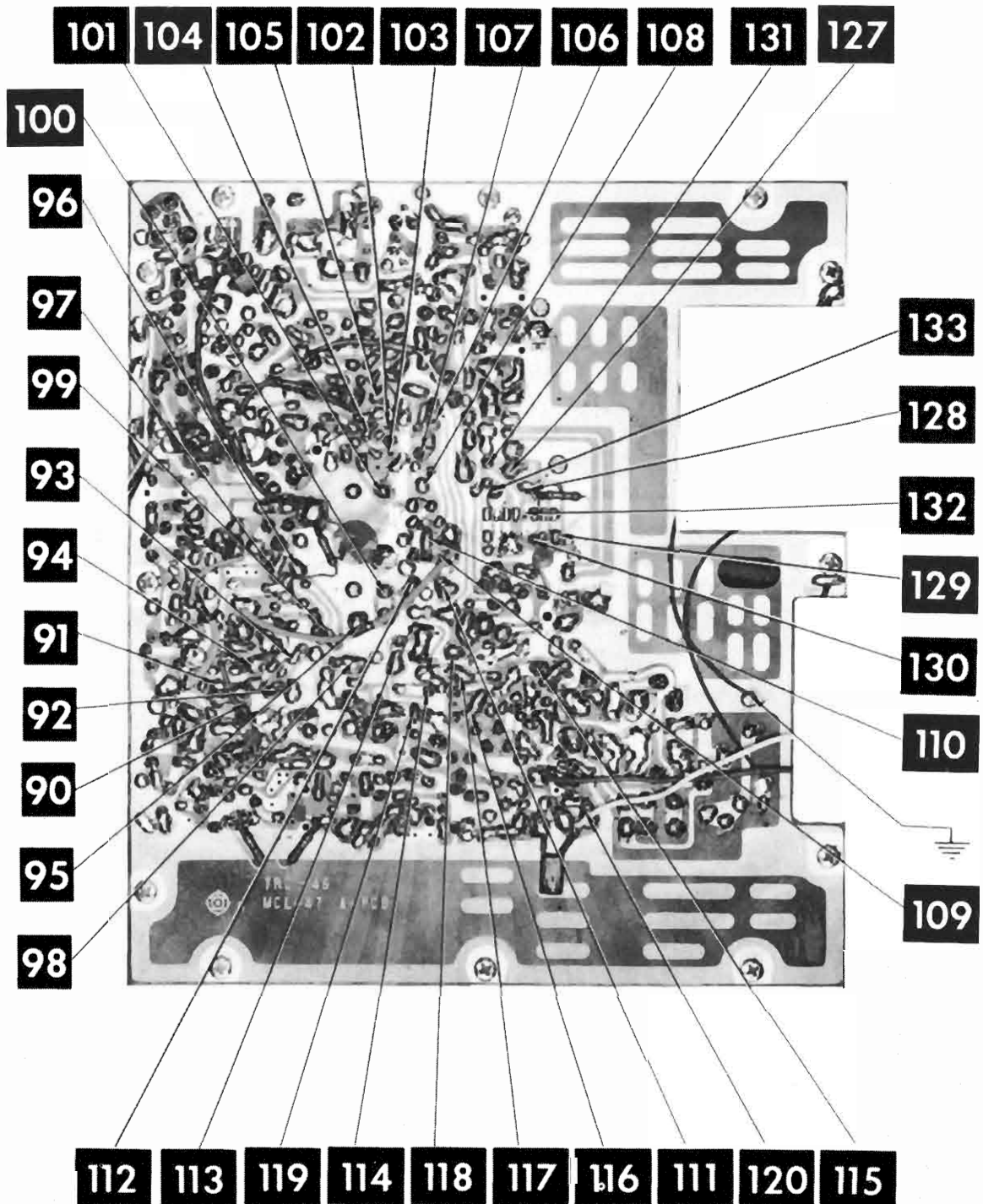
MAIN BOARD



11

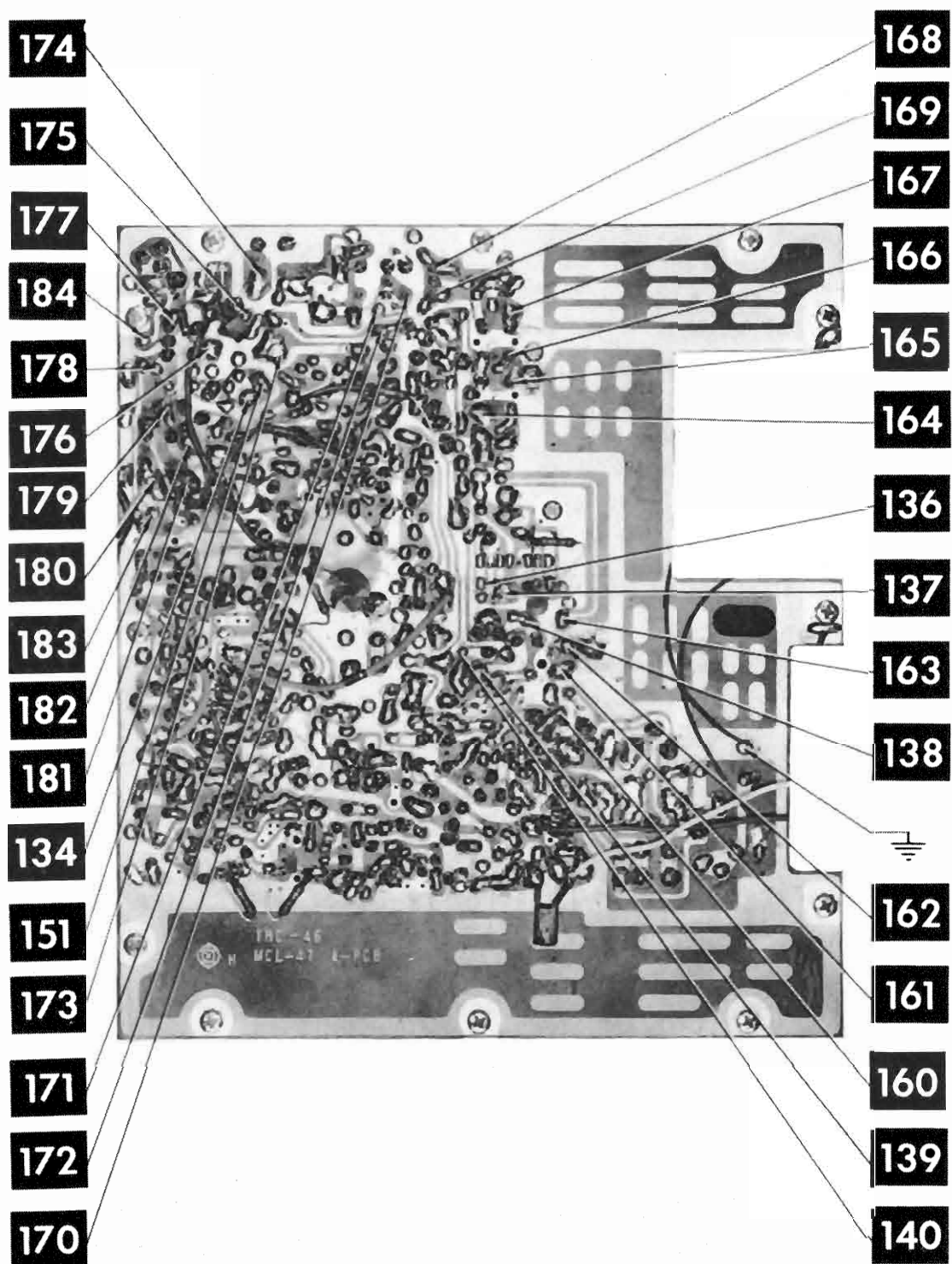


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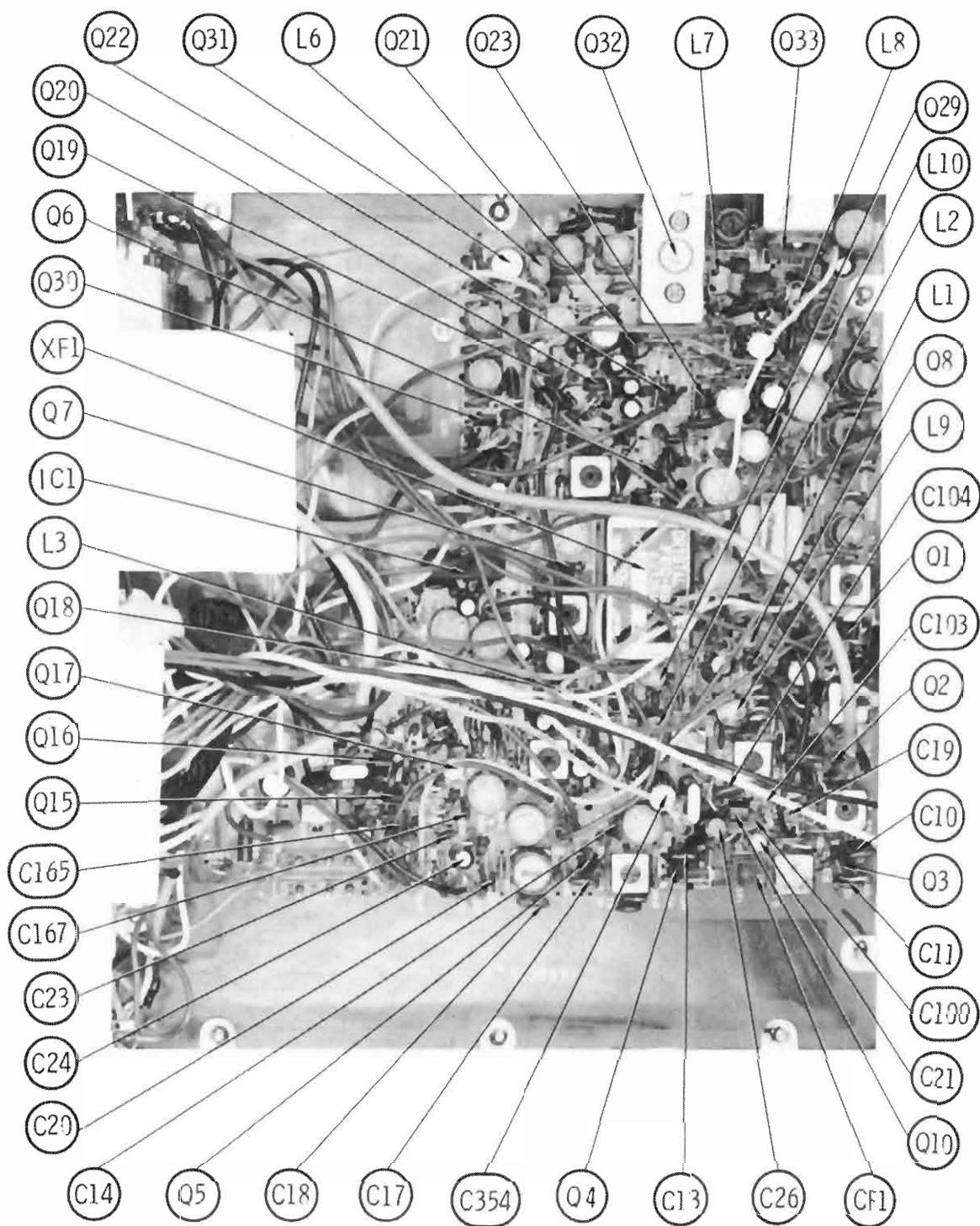


JCPenney MODEL 981-6240

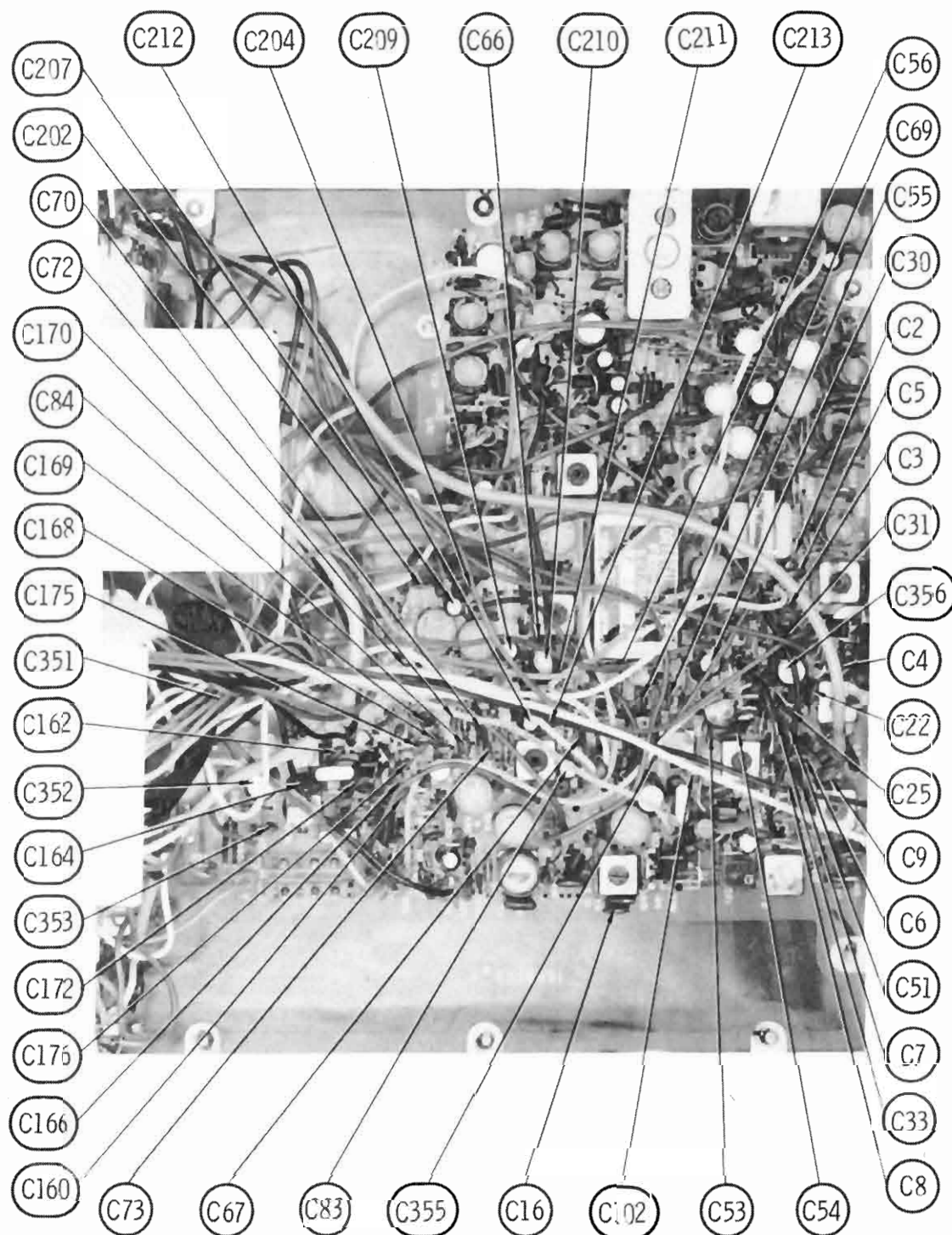
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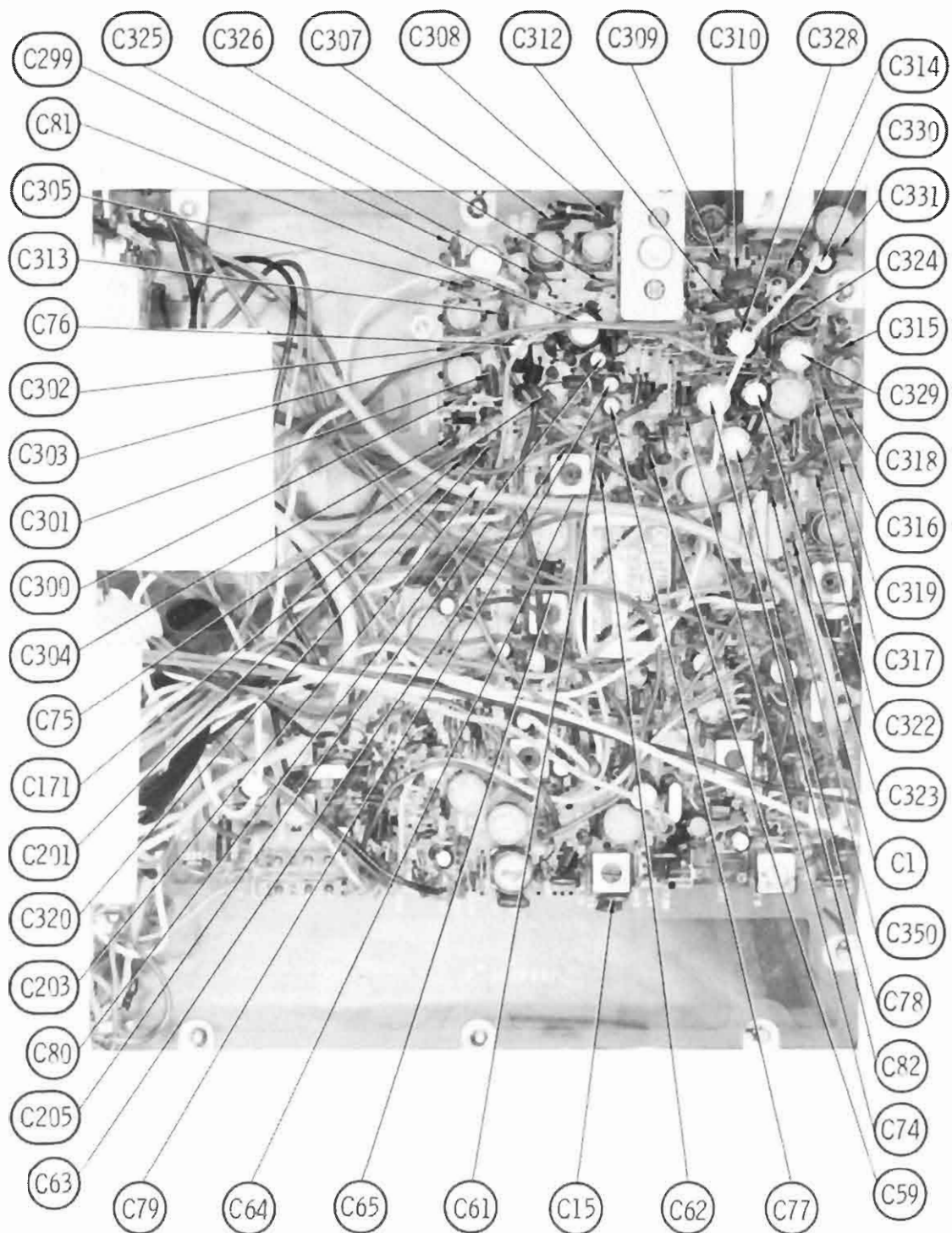
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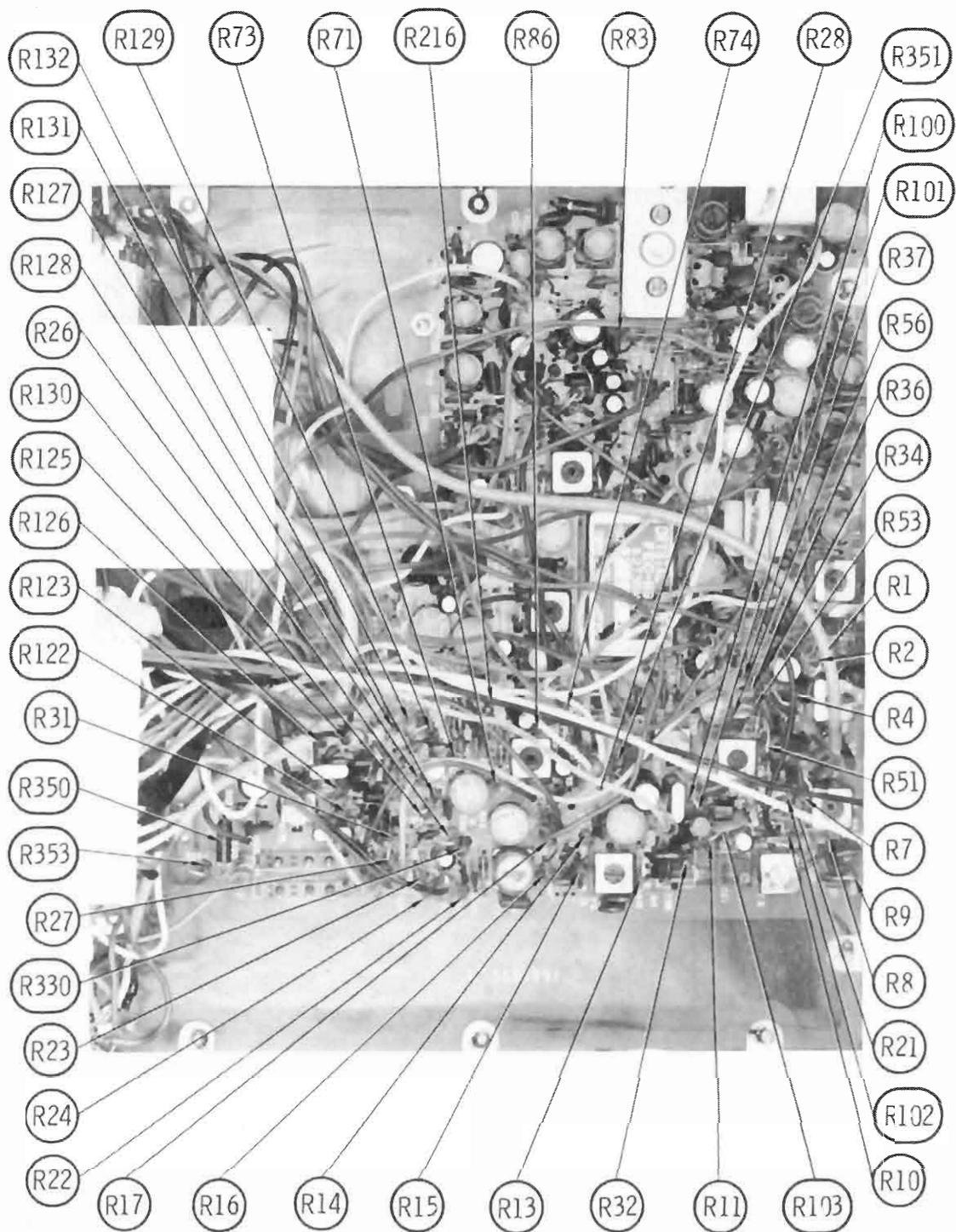
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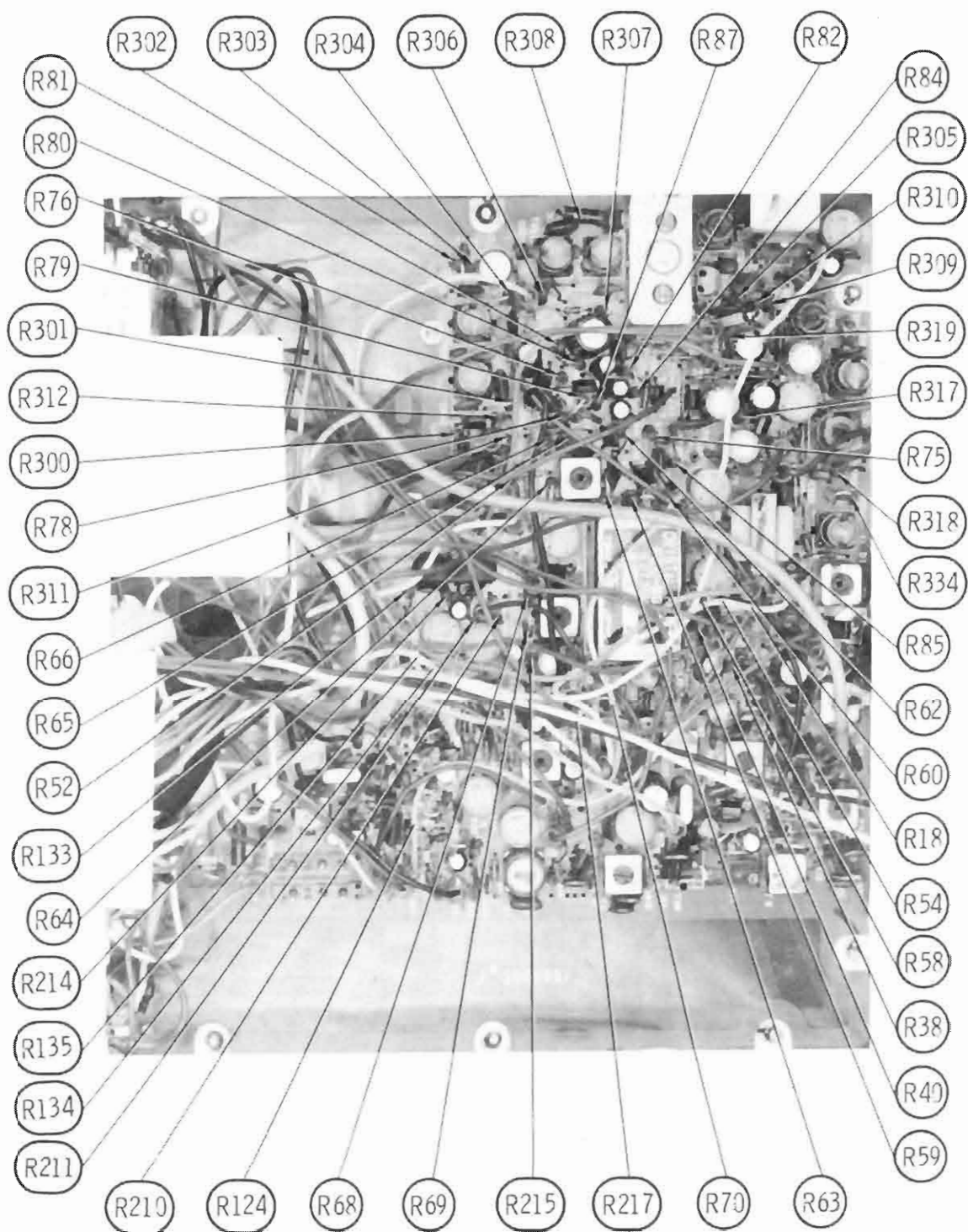
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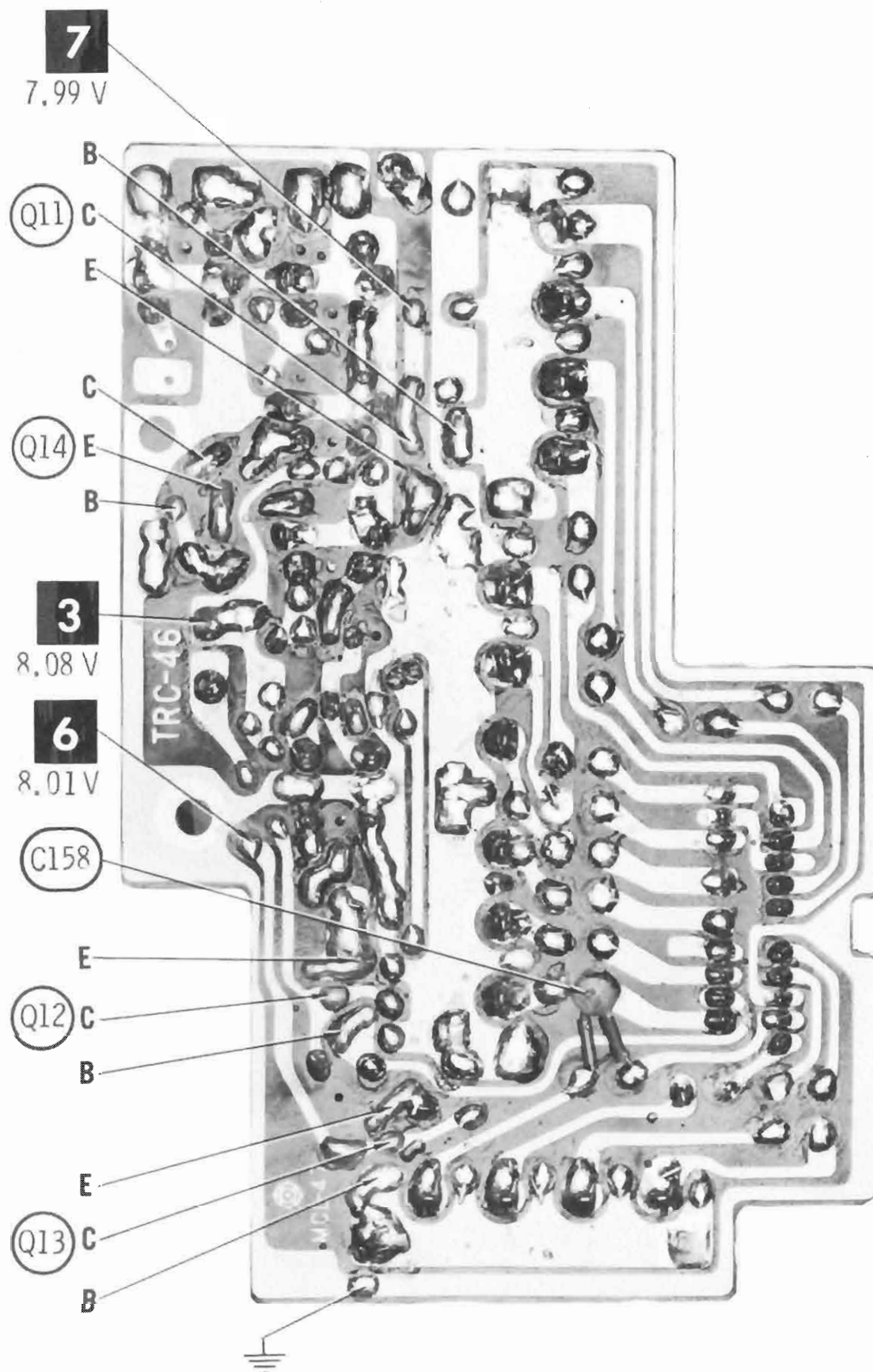
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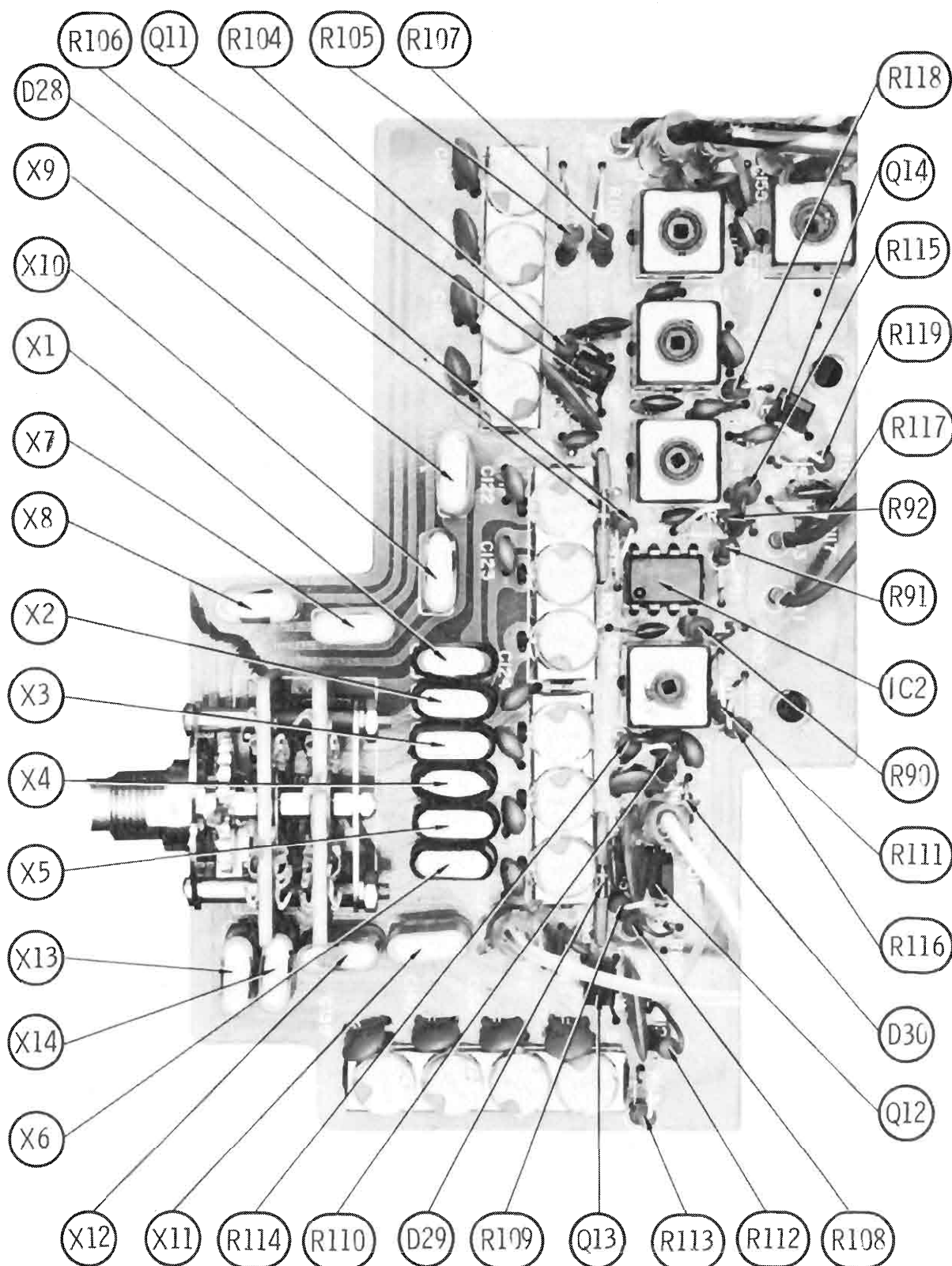
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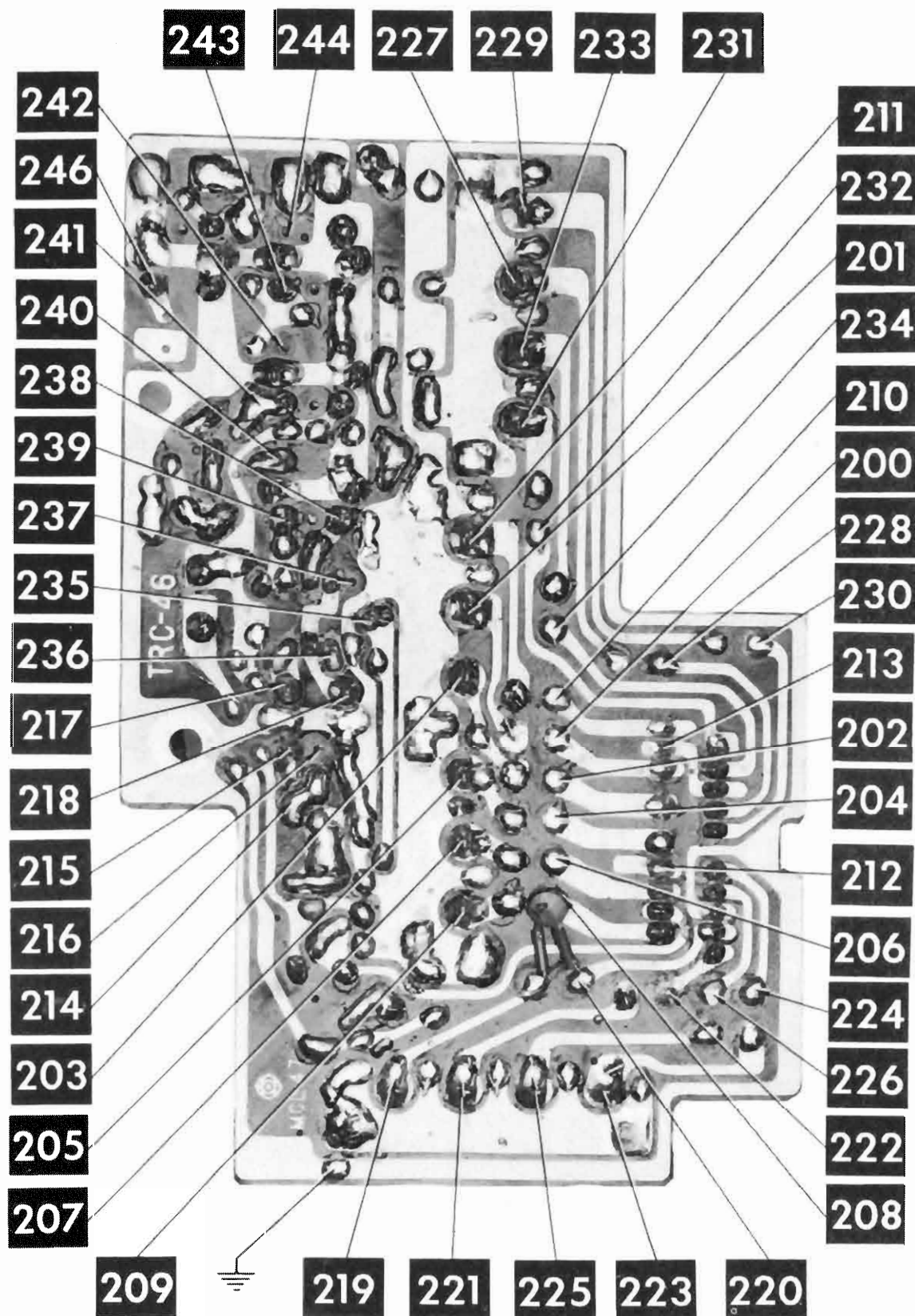
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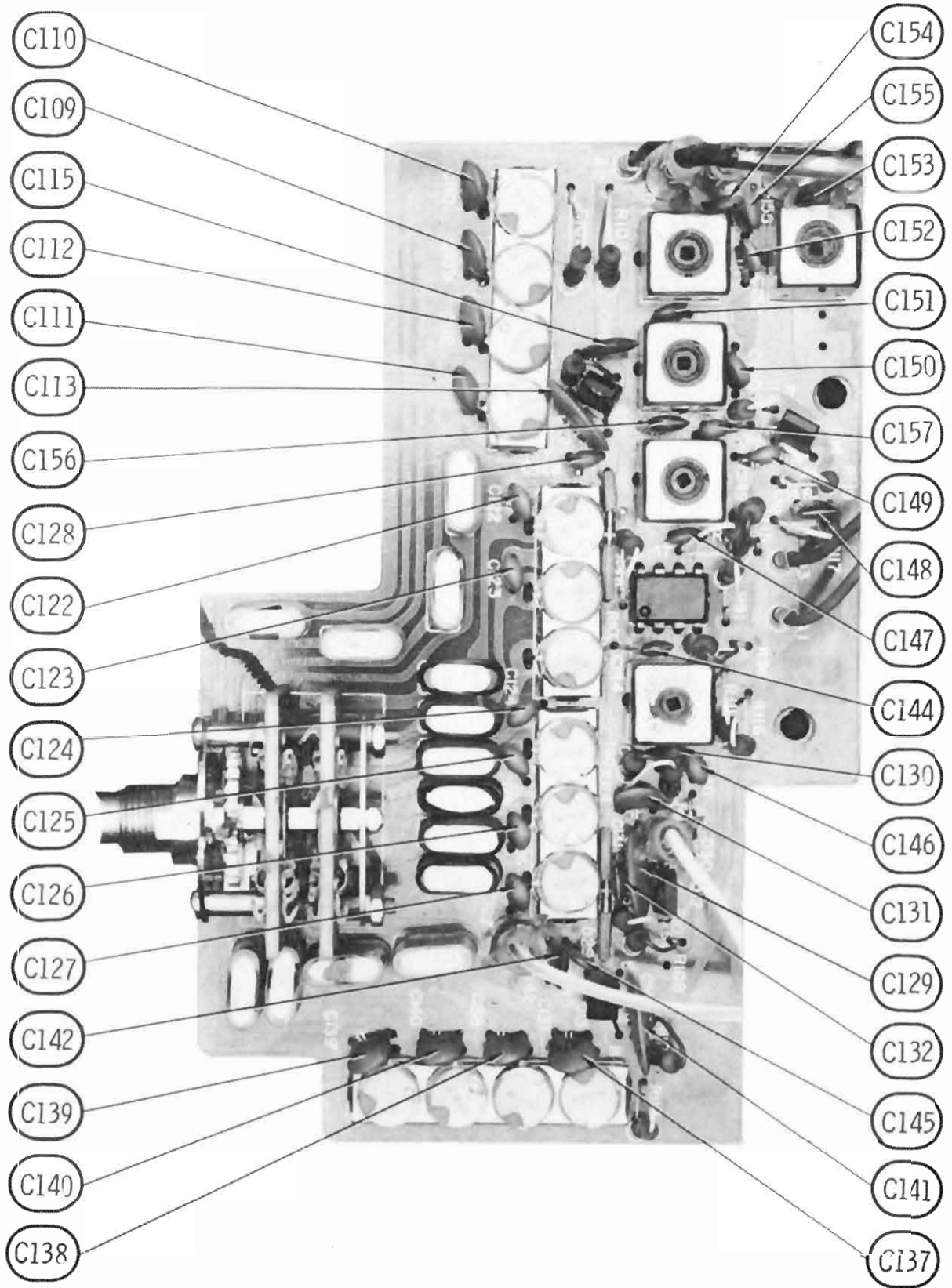
SWITCH-SYNTHESIZER BOARD



SWITCH-SYNTHESIZER BOARD

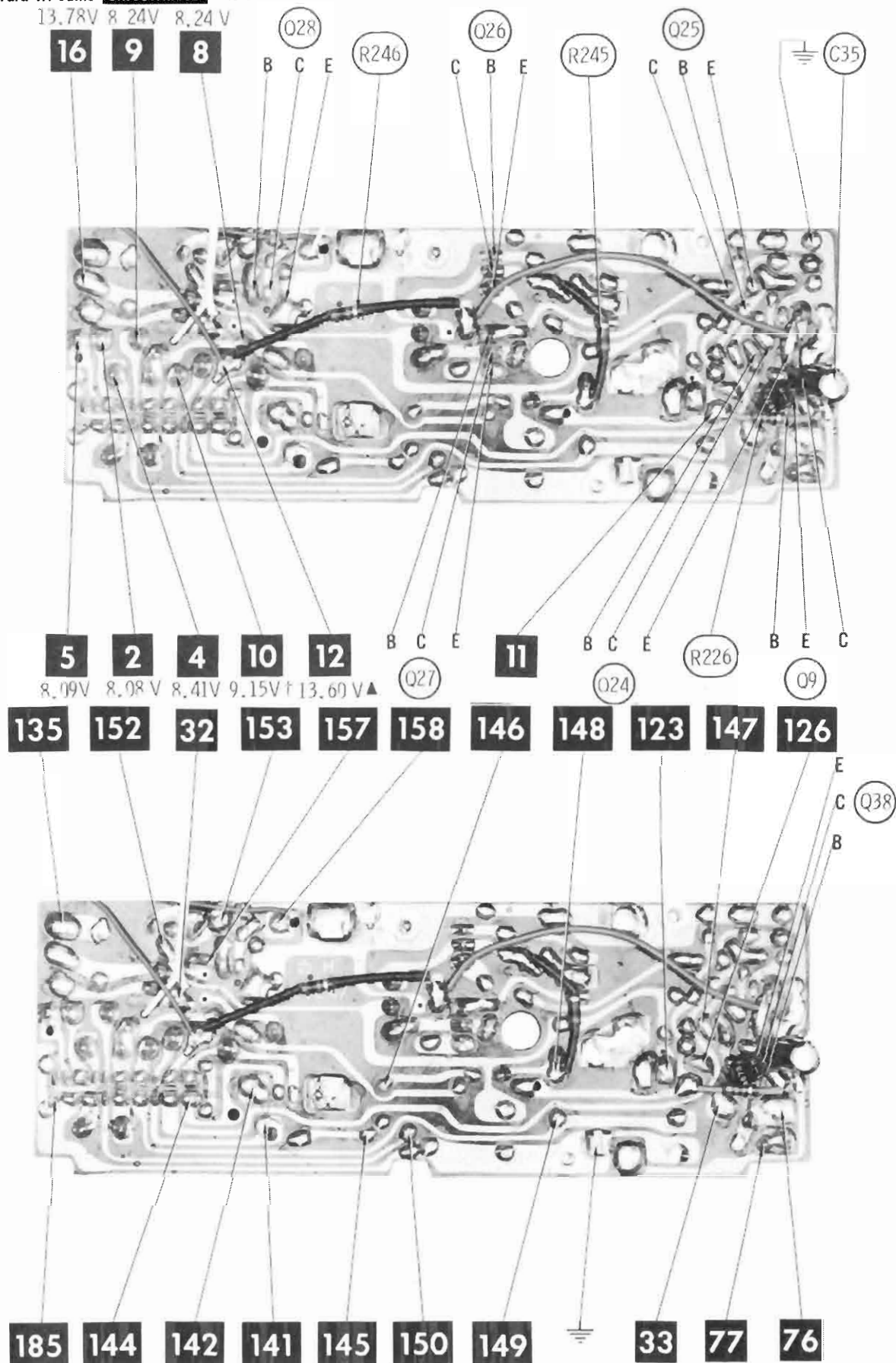


SWITCH-SYNTHESIZER BOARD

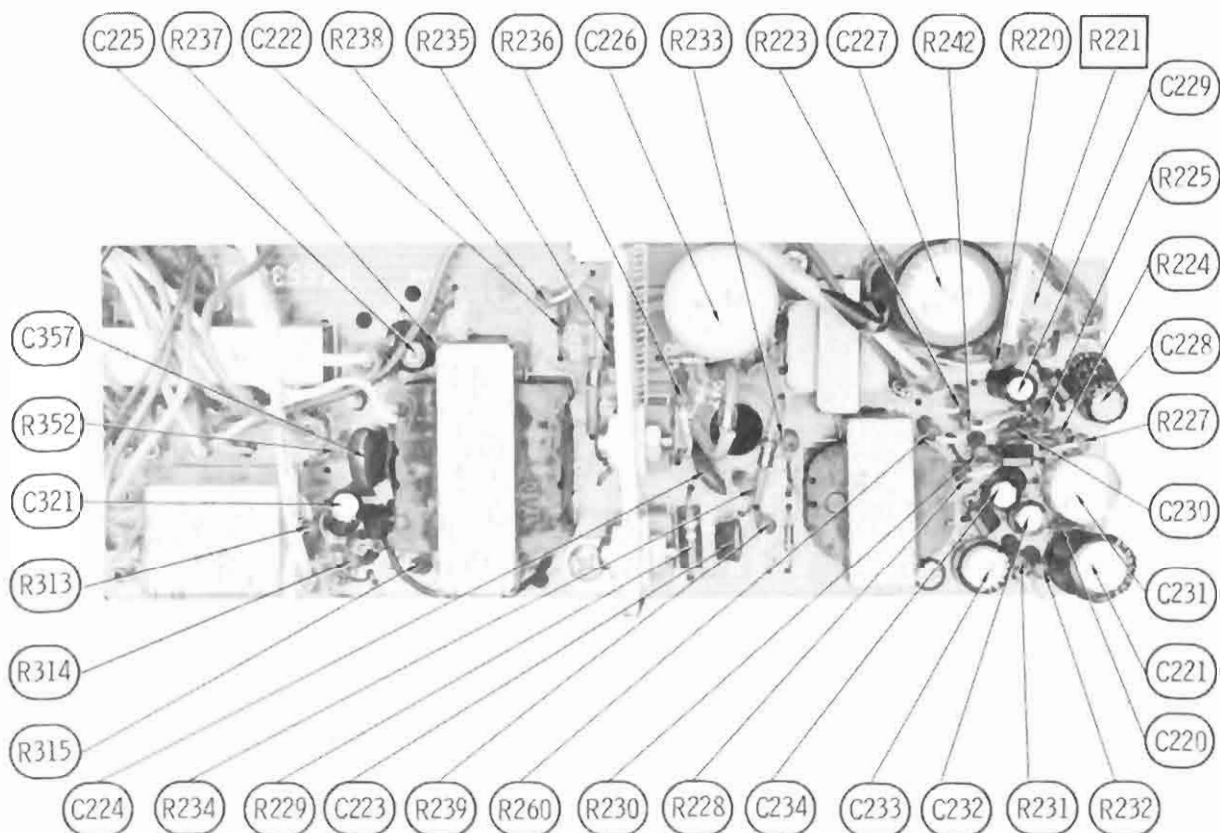
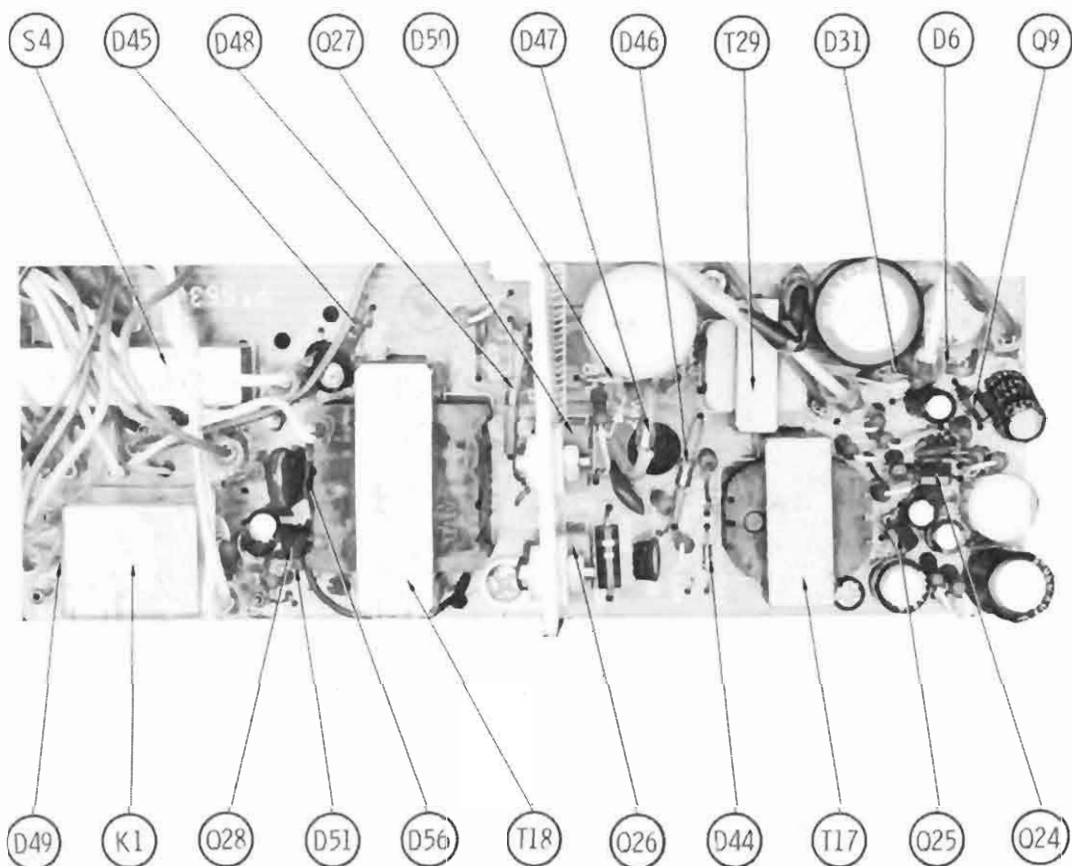


SWITCH-SYNTHESIZER BOARD

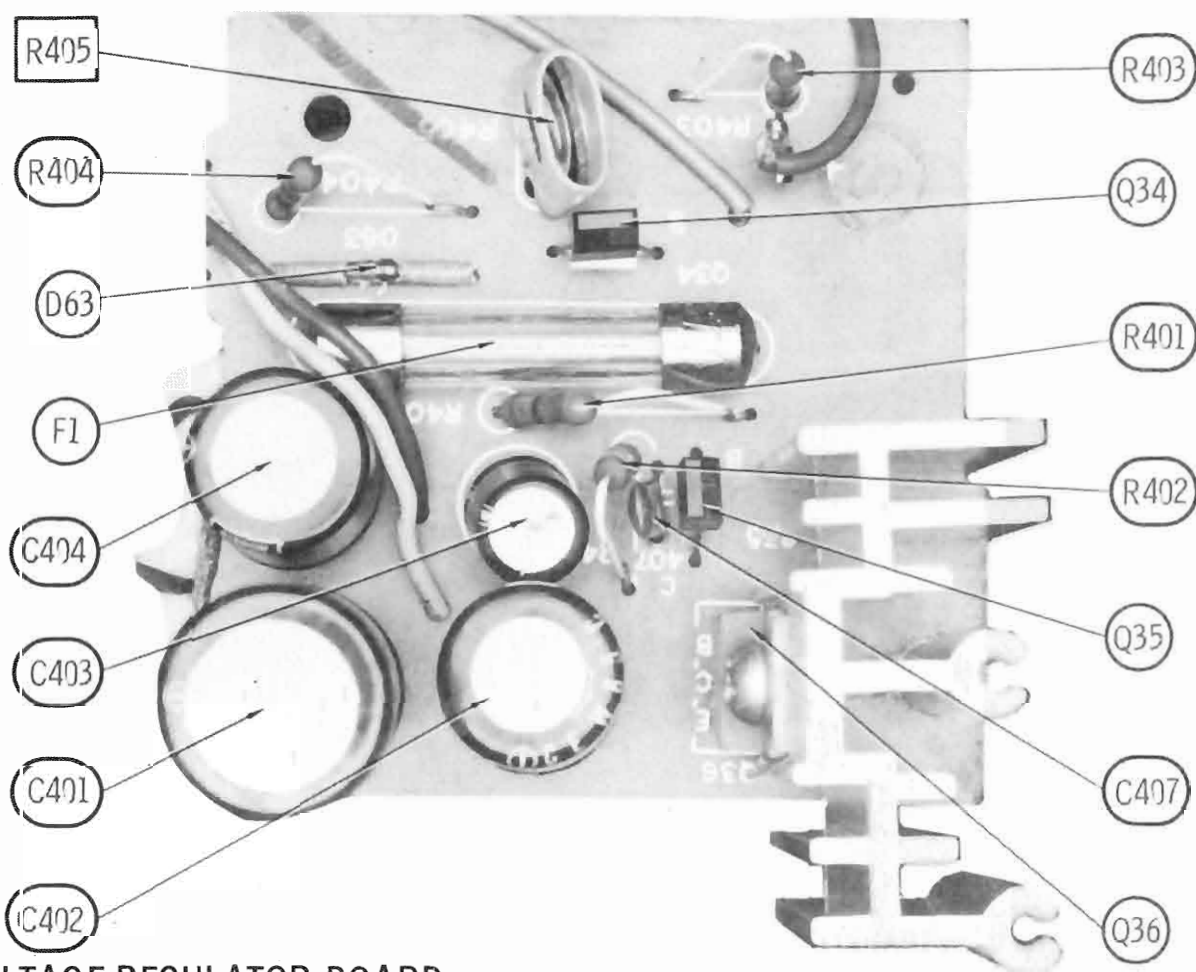
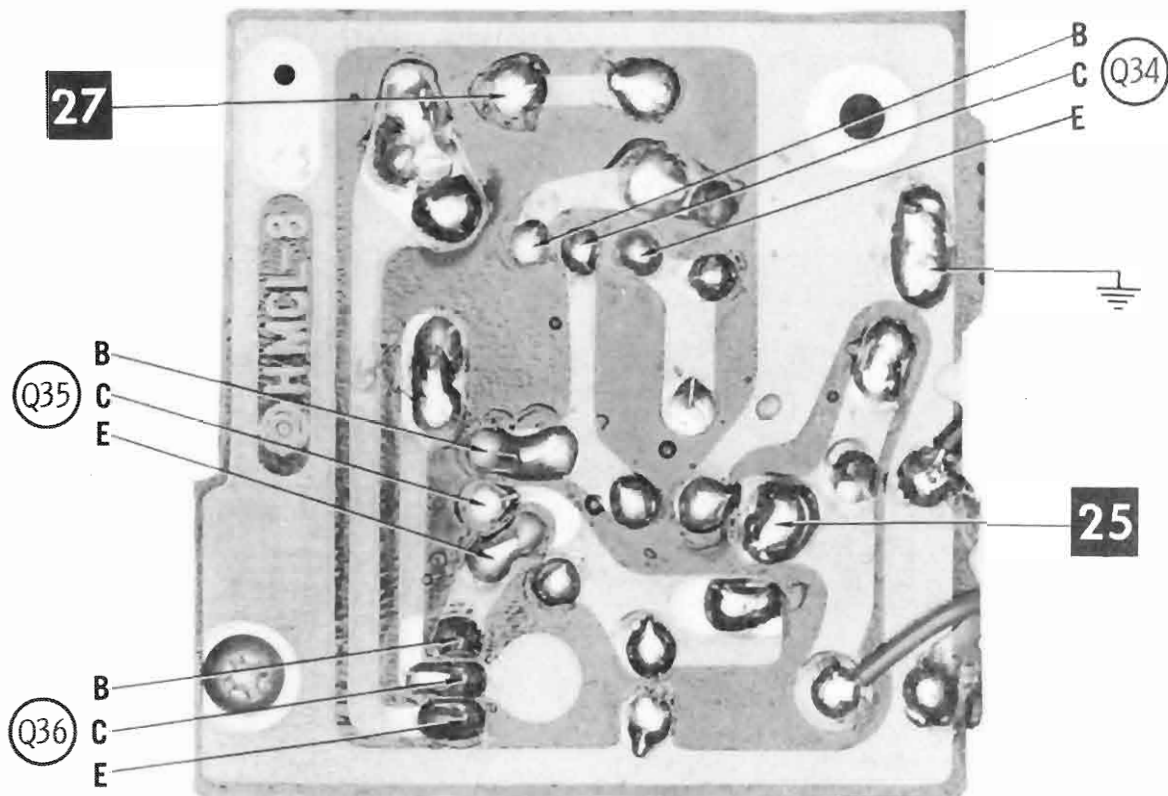
13.78V 8.24V 8.24V



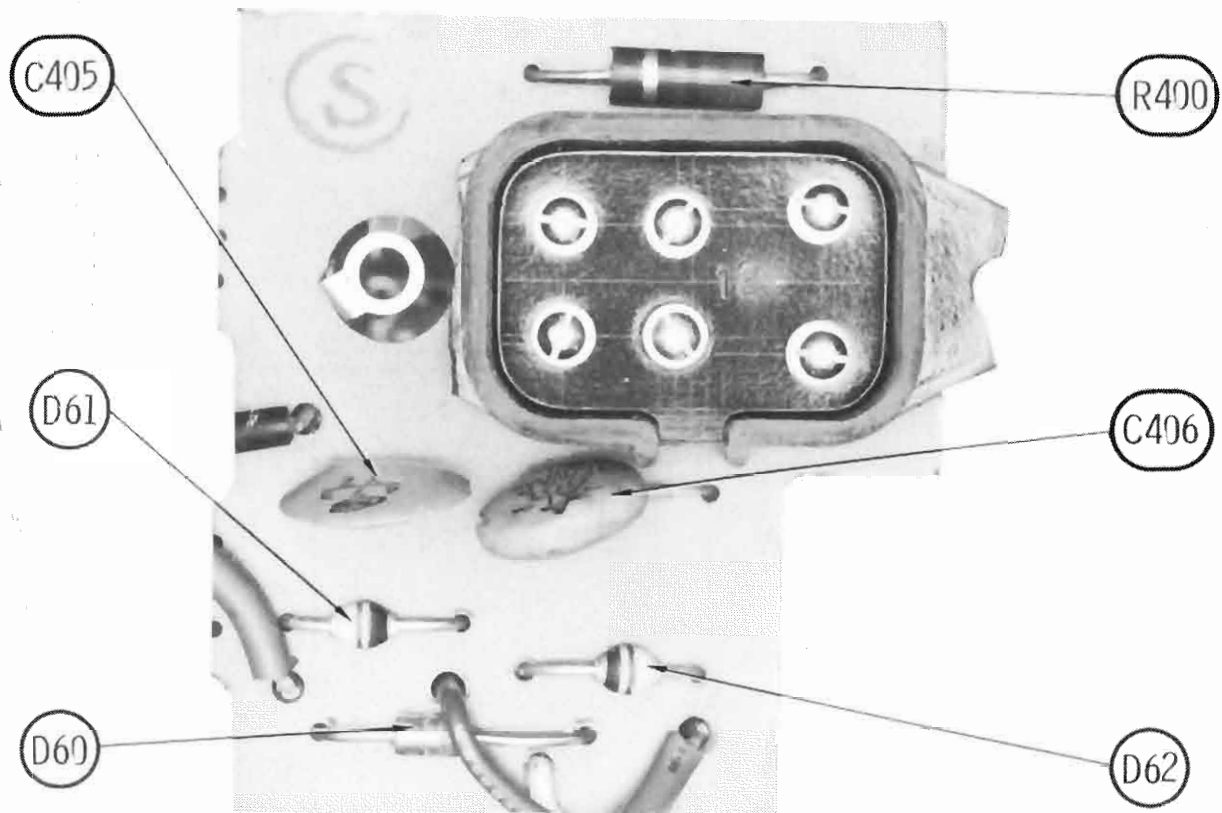
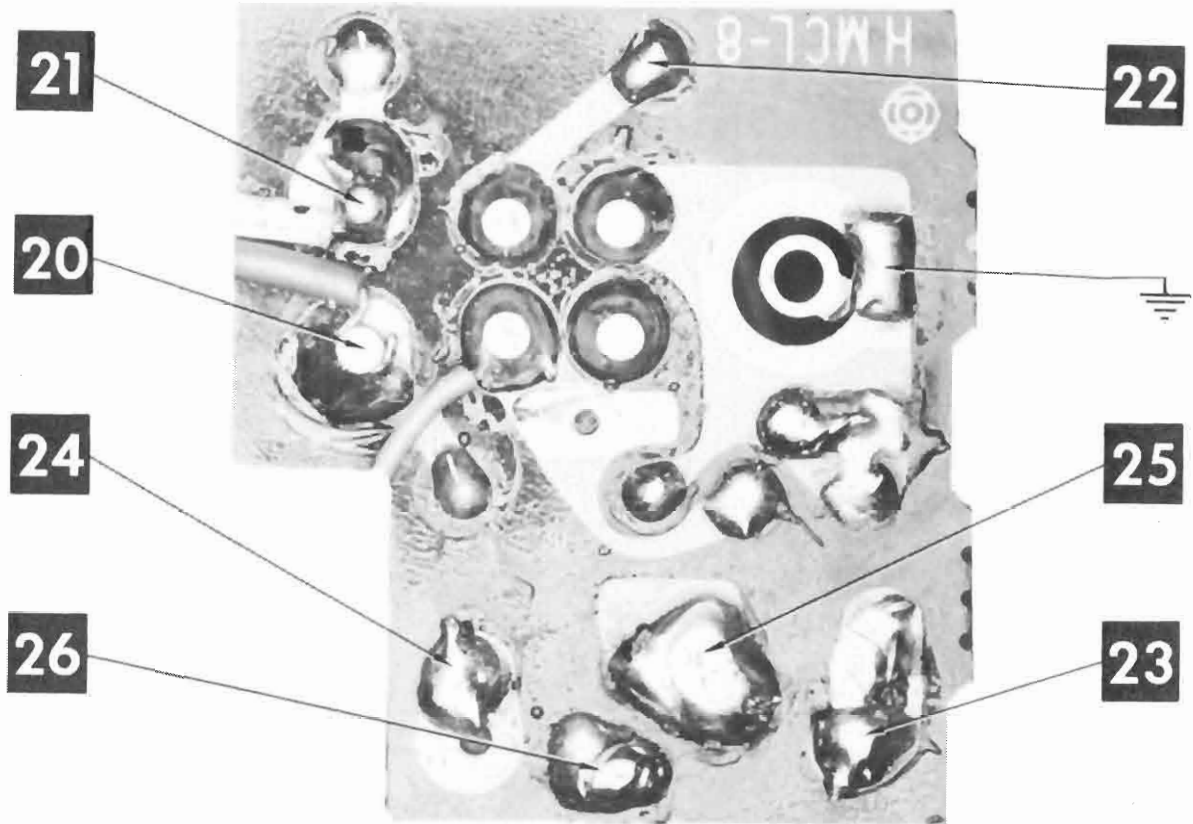
AUDIO BOARD



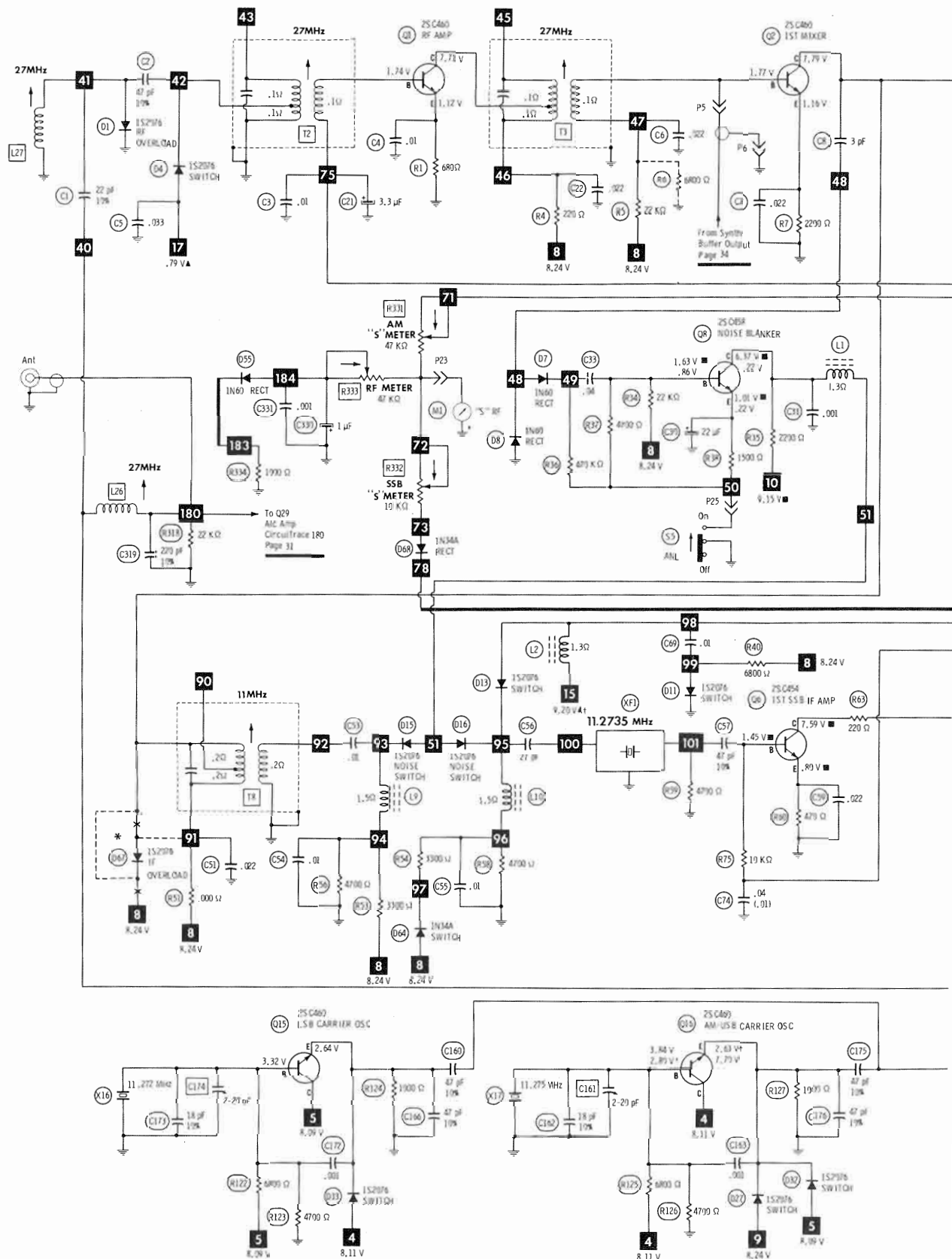
AUDIO BOARD



VOLTAGE REGULATOR BOARD



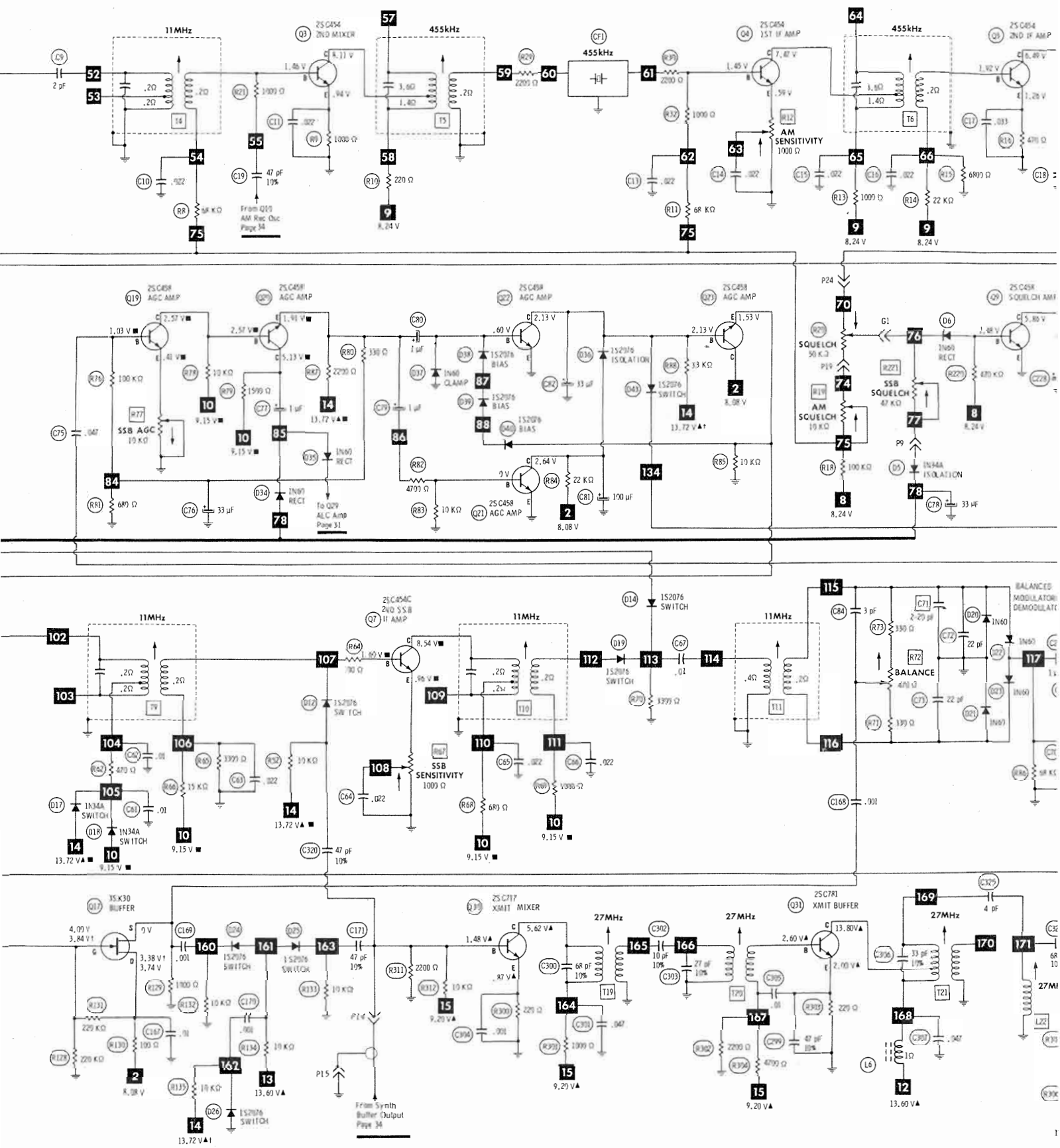
POWER SUPPLY BOARD



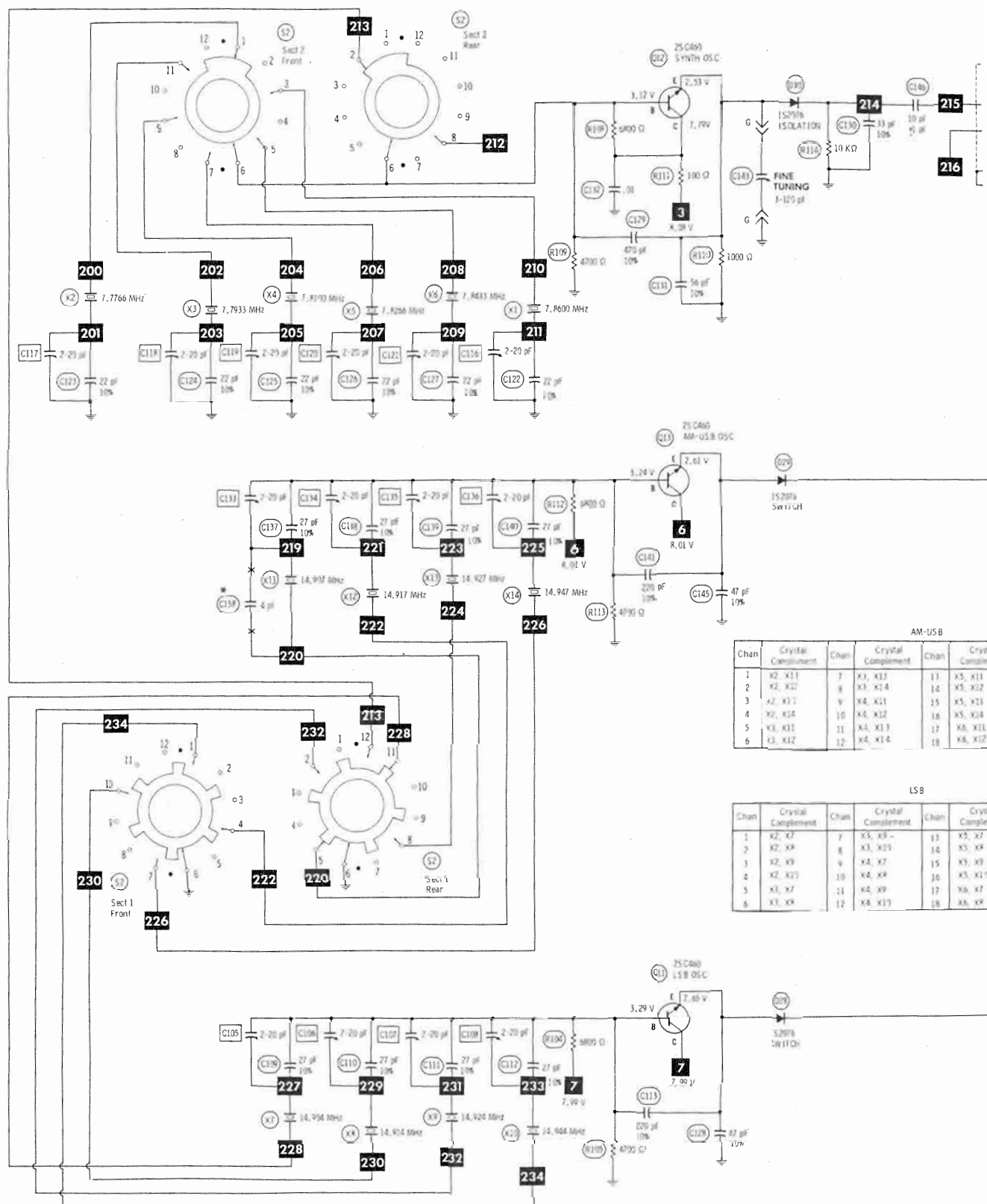
A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE

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SEE NOTES ON PAGE 33.



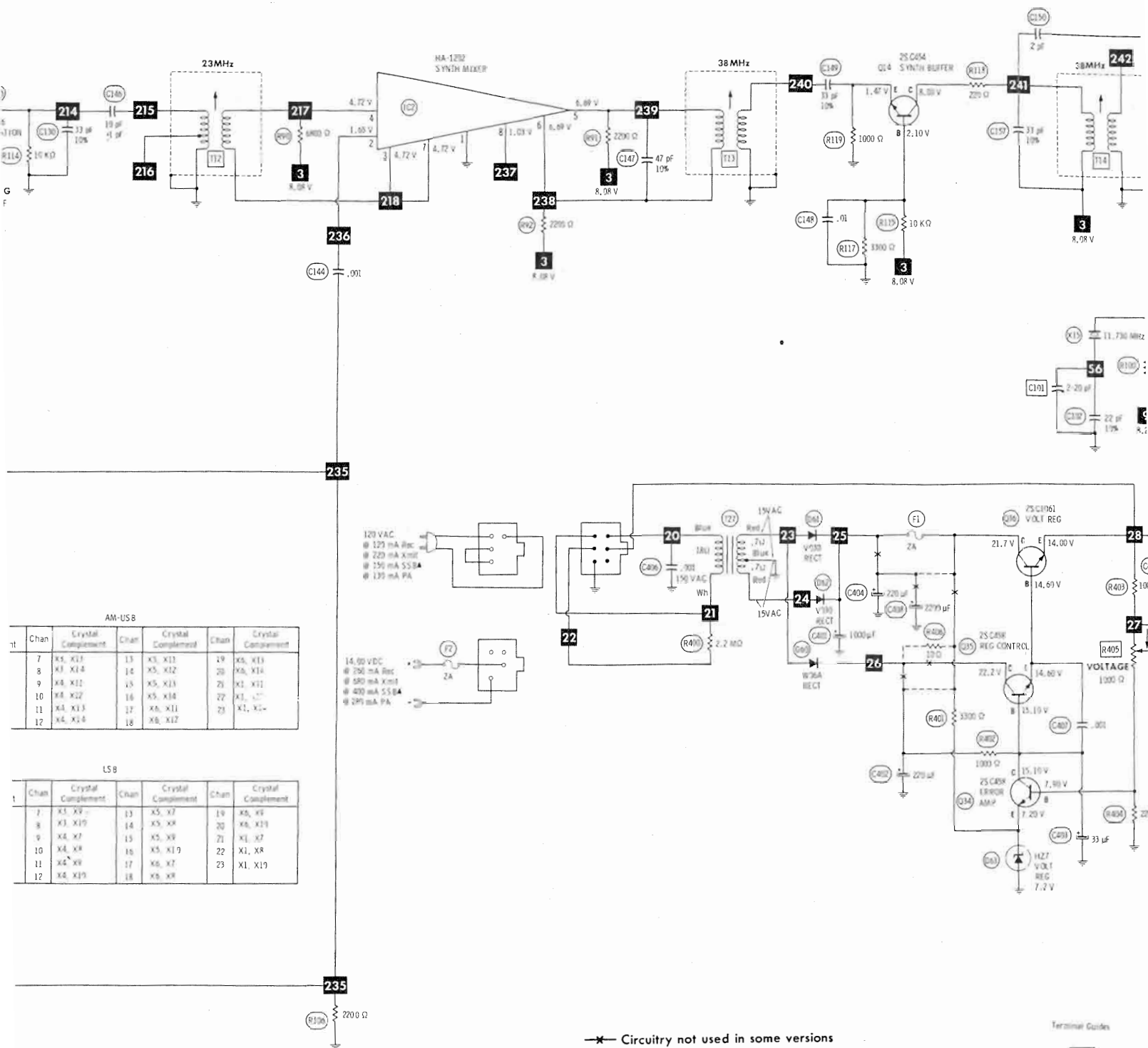




A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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AM-USB

LSB

Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
7	X5, X13	13	X3, X13	19	X5, X13
8	X3, X14	14	X5, X12	20	X6, X14
9	X6, X11	15	X5, X13	21	X1, X11
10	X6, X12	16	X5, X14	22	X1, X12
11	X4, X13	17	X6, X11	23	X1, X12
12	X4, X14	18	X6, X12		

Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
7	X5, X13	13	X5, X13	19	X5, X13
8	X3, X14	14	X5, X12	20	X6, X14
9	X6, X11	15	X5, X13	21	X1, X11
10	X6, X12	16	X5, X14	22	X1, X12
11	X4, X13	17	X6, X11	23	X1, X12
12	X4, X14	18	X6, X12		

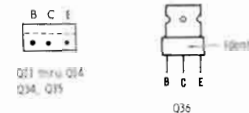
- Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊗ Nominal value
- ⊕ Ground
- Chassis
- SSB

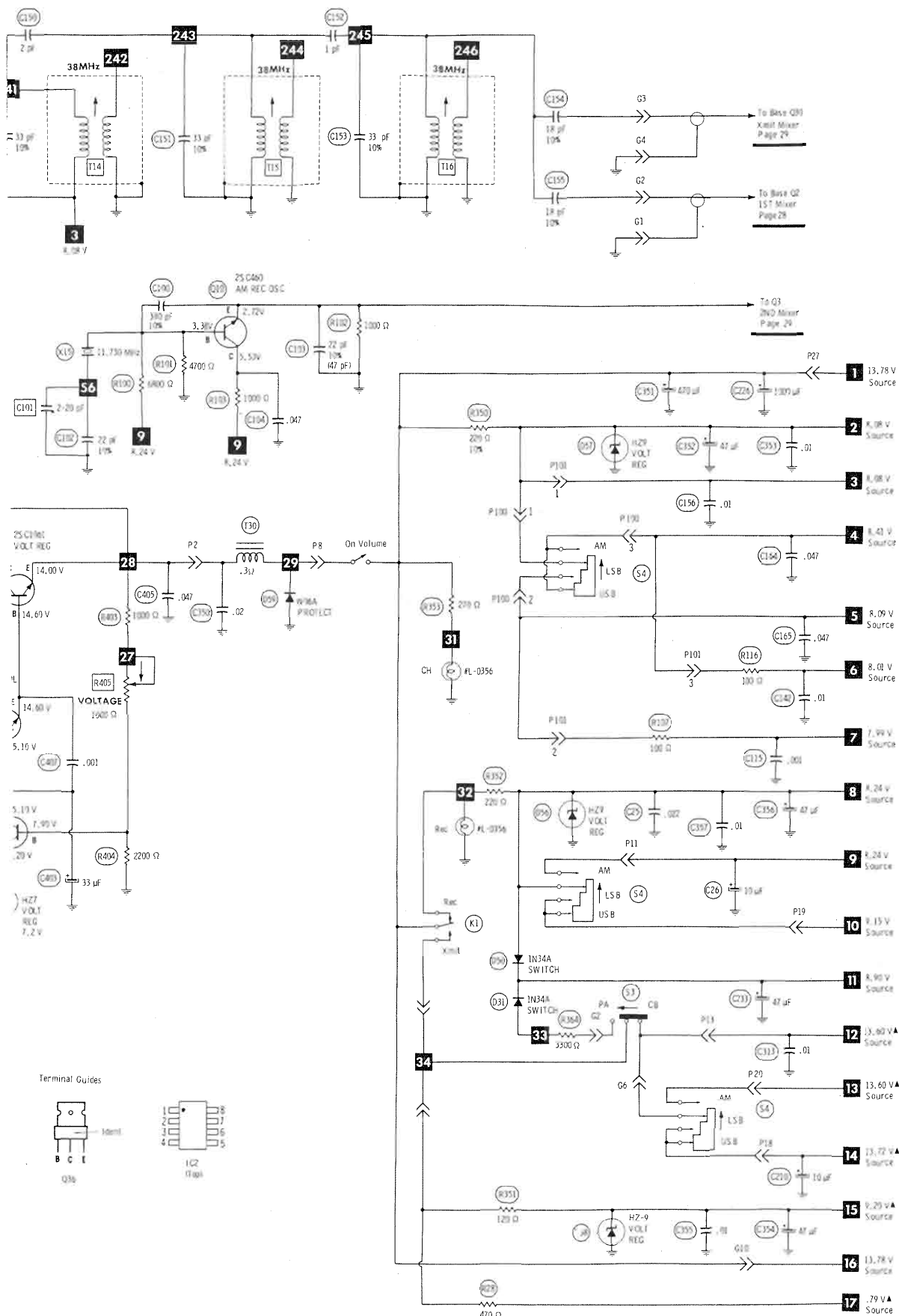
Measurements with switching as shown unless noted:

- ⊙ Squelch fully clockwise
- ▲ Transmit

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.

Terminal Guides





PARTS LIST AND DESCRIPTION

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

WIRING DATA

General-use Hook-up Wire	Use BELDEN No.	8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	Use BELDEN No.	8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No.	8497 3-Conductor, 1 Shielded, for Press-to-Talk (Neoprene) 8496 3-Conductor, 1 Shielded, for Press-to-Talk (Vinyl)
Ignition Noise Suppression	Use BELDEN No.	7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No.	8661 (3/8 In.)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D5	1N34A	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D6	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D8	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D11	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D14	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D15	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D16	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D17	1N34A	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D18	1N34A	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D19	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D20	1N60P	0575019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D21	1N60P	0575019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D22	1N60P	0575019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D23	1N60P	0575019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D24	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D25	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D26	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D27	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D28	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D29	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D30	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D31	1N34A	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D32	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D33	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D34	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D35	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D36	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D37	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D38	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D39	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D40	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D41	1N34A	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D42	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D43	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D44	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D45	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D46	W06A	5330341	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D47	W06A	5330341	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D48	W06A	5330341	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D49	W06A	5330341	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D50	1N34A	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D51	1N34A	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D52	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D53	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D54	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D55	1N60	0575005	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D56	HZ-98	5330322	GEZD-9.1	Z1210	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D57	9V Zener	5330322	GEZD-9.1	Z1210	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D58	9V Zener	5330322	GEZD-9.1	Z1210	PTC505	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D59	W06A	5330341	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D60	W06A	5330341	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D61	V03C	5330001	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D62	V03C	5330001	GE-504A	804	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D63	HZ-7B	5330312	GEZD-6.8	Z1206	ZB6.8	HEPZ0409	RE 110	SK3058	RT-238	ECG5071
D64	7V Zener	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D67	1S2076	5330131	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D68	1N34A	0575001	1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
IC1	FA-600BT	5353031								
IC2	HA-1202	5351051								
Q1	ZSC460C	0573487	GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-108	ECG108
Q2	ZSC460C	0573487	GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-108	ECG108
Q3	ZSC454C	0573492	GE-20	TR-21	PTC132	HEPS0011	RE 9	SK3018	RT-108	ECG107
Q4	ZSC454C	0573492	GE-20	TR-21	PTC132	HEPS0011	RE 9	SK3018	RT-108	ECG107
Q5	ZSC454C	0573492	GE-20	TR-21	PTC132	HEPS0011	RE 9	SK3018	RT-108	ECG107

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

			REPLACEMENT DATA							
ITEM No.	TYPE No.	MFR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q6	2SC454C	0573492	GE-20	TR-21	PTC132	HEPS0011	RE 9	SK3018	RT-108	ECG107
Q7	2SC454C	0573492	GE-20	TR-21	PTC132	HEPS0011	RE 9	SK3018	RT-108	ECG107
Q8	2SC458D	5320064	GE-20	TR-51	PTC136	HEPS0015	RE 13	SK3124	RT-187	ECG123A
Q9	2SC458D	5320064	GE-20	TR-51	PTC136	HEPS0015	RE 13	SK3124	RT-187	ECG123A
Q10	2SC460C	0573487	GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-108	ECG108
Q11	2SC460C	0573487	GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-108	ECG108
Q12	2SC460C	0573487	GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-108	ECG108
Q13	2SC460C	0573487	GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-108	ECG108
Q14	2SC454C	0573492	GE-20	TR-21	PTC132	HEPS0011	RE 9	SK3018	RT-108	ECG107
Q15	2SC460C	0573487	GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-108	ECG108
Q16	2SC460C	0573487	GE-11	TR-51	PTC121	HEPS0014	RE 10	SK3018	RT-108	ECG108
Q17	3SK308	5320032	GE-FET-2	FE-100	PTC152	HEPF0021	RE 45	SK3116	RT-175	ECG132
Q18	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q19	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q20	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q21	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q22	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q23	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q24	2SC458L6, D	5320024	GE-20	TR-24	PTC136	HEPS0014	RE 13	SK3124	RT-102	ECG123A
Q25	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q26	2SC1061T, B	5320671(1)	GE-66	TR-92	PTC137		RE 21	SK3054	RT-154	ECG152
Q27	2SC1061T, B	5320671(1)	GE-66	TR-92	PTC137		RE 21	SK3054	RT-154	ECG152
Q28	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q29	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q30	2SC717C	5320051(2)	GE-17	(1R)25C717	PTC132	HEPS0020	RE 9	SK3018	RT-107	ECG107
Q31	2SC781	5320501(3)		TR-87		HEPS3048	RE 79	SK3048		ECG195
Q32	2SC799	5320511(4)			PTC158			SK3049		ECG237
Q33	2SC1306	5320791(5)	GE-66	TR-55	PTC110					ECG235
Q34	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q35	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q36	2SC1061	5320671(1)	GE-66	TR-92	PTC137		RE 21	SK3054	RT-154	ECG152
Q37	2SC458C	5320064	GE-20	TR-51	PTC121	HEPS0015	RE 13	SK3124	RT-102	ECG123A
Q38	2SA673B	5320592	GE-67	TR-88	PTC142	HEPS0013	RE 26	SK3114	RT-119	ECG159

(1) Rating 25 watts @ 3 amp.

(2) Rating 200 M.W. @ 50mA.

(3) Rating 800 M.W. @ 1 amp.

(4) Rating 10 watts @ 3 amp.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C21	2.2 25 V	0252613	RME-A-H-003	EP30-5	PC5-50	VTT3R3A50	EV-1618
C24	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C26	10 25 V	0252621	RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C30	22 10 V	0252322	ME-2-D-020	EP15-25	PC20-50	VTT22A16	EV-1224
C76	33 6.3 V	0252223	ME-2-B-035	EP6-25	PC30-25	VTT33A10	EV-1125
C77	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C78	33 25 V	0252623	ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C79	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C80	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C81	100 16 V	0252531	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C82	33 25 V	0252623	ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C83	3.3 25 V	0252613	RME-A-H-003	EP30-5	PC5-50	VTT3R3A50	EV-1618
C203	33 6.3 V	0252223	ME-2-B-035	EP6-25	PC30-25	VTT33A10	EV-1125
C207	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C209	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C210	10 25 V	0252621	RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C212	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C221	220 10 V	0252332	ME-6-D-200	EP15-250	PC200-10	MTV200DB10	EV-1140
C225	3.3 25 V	0252613	RME-A-H-003	EP30-5	PC5-50	VTT3R3A50	EV-1618
C226	1000 16 V	0256010	RME-P-G-1000	EP30-1000	WBR1000-25	MTA1000G25	EV-1360
C227	470 25 V	0256008	RME-N-G-500	EP30-500	WBR500-25	MTA500G25	EV-1350
C228	22 10 V	0252322	ME-2-D-020	EP15-25	PC20-50	VTT22A16	EV-1224
C229	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C231	33 16 V	0251080	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C232	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C233	47 16 V	0252525	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C234	3.3 25 V	0252613	RME-A-H-003	EP30-5	PC5-50	VTT3R3A50	EV-1618
C235	10 25 V	0252621	RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C321	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C323	100 6.3 V	0252231	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C328	47 16 V	0252525	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C329	33 6.3 V	0252623	ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C330	1 25 V	0252611	RME-A-G-001	EP30-1	PC1-50	MTV1CB50	EV-1315
C351	470 16 V	0252535	RME-L-E-500	EP15-500	PC500-16	MTV500DB15	EV-1250
C352	47 16 V	0252525	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C354	46 16 V	0252525	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C356	46 19 V	0252525	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C401	1000 25 V	0256074	RME-P-G-1000	EP30-1000	WBR1000-25	MTA1000G25	EV-1360
C402	220 25 V	0252632	ME-G200	EP30-250	PC200-35	MTY200DE25	EV-1340
C403	22 25 V	0252623	ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C404	220 25 V	0252632	ME-G200	EP30-250	PC200-35	MTY200DE25	EV-1340
C408	2200 16 V		ME-G2000	EA15-2000	WBR2000-16	TC1520C	TVA-1175.3

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C2	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C3	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C4	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C5	.033		CCD-203	CK-303	MGP02	GP130	TG-S30
C6	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C7	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C8	3						10TCC-V30
C9	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C10	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C11	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C12	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C13	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C14	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C15	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C16	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C17	.033		CCD-203	CK-303	MGP02	GP130	TG-S30
C18	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C19	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C20	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C22	.022		CCTO-180	CK-203	MGP02	TA120	TG-S20
C23	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C25	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C27	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C31	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C33	.04			DD-403		GP140	
C51	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C53	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C54	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C55	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C56	27		CCTO-270		NP027	CN0427	10TCC-Q27
C57	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C59	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C61	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C62	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C63	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C64	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C65	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C66	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C67	.01		CCD-103	CK-103	GP10000	MAG5011	2SS-S10
C69	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C70	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C71	2-20	0283100					
C72	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C73	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C74	.04			DD-403		GP140	
C75	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C84	3						10TCC-V30
C100	330		CCD-331	DD-331	GP330	GP333	10TS-T33
C101	2-20	0283100					
C102	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C103	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C104	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C105	2-20	0283094					
C106	2-20	0283094					
C107	2-20	0283094					
C108	2-20	0283094					
C109	27		CCTO-270		NP027	CN0427	10TCC-Q27
C110	27		CCTO-270		NP027	CN0427	10TCC-Q27
C111	27		CCTO-270		NP027	CN0427	10TCC-Q27
C112	27		CCTO-270		NP027	CN0427	10TCC-Q27
C113	220		CCD-201	DD-201	GP200	GP320	10TS-T20
C115	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C116	2-20	0283094					
C117	2-20	0283094					
C118	2-20	0283094					
C119	2-20	0283094					
C120	2-20	0283094					
C121	2-20	0283094					
C122	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C123	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C124	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C125	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C126	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C127	22		CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C128	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C129	470		CCD-471	DD-471	GP470	GP347	10TS-T47
C130	33		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C131	56					CN0456	10TCC-Q56
C132	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C133	2-20	0283107					
C134	2-20	0283107					
C135	2-20	0283107					
C136	2-20	0283107					
C137	27		CCTO-270		NP027	CN0427	10TCC-Q27
C138	27		CCTO-270		NP027	CN0427	10TCC-Q27
C139	27		CCTO-270		NP027	CN0427	10TCC-Q27
C140	27		CCTO-270		NP027	CN0427	10TCC-Q27
C141	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C142	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C143	3-120						
C144	.001		CCD-102	DD-102	GP1000	SM210	2SS-D10
C145	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C146	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10

JCPenney MODEL 981-6240

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C147	47	0283094	CCT0-470	DTZ-47	NP047	CN0447	10TCC-047
C148	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C149	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-033
C150	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C151	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-033
C152						CN0510	10TCC-V10
C153	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-033
C154	18		CCT0-180		NP018	CN0418	10TCC-018
C155	18		CCT0-180		NP018	CN0418	10TCC-018
C156	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C157	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-033
C158	4				NP03P9		10TCC-V39
C160	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-047
C161	2-20		CCT0-180			CN0418	10TCC-018
C162	18		CCT0-200	DTZ-20	NP020	CN0420	10TCC-020
C163	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C164	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C165	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C166	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-047
C167	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C168	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C169	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C170	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C171	47	0283094	CCT0-470	DTZ-47	NP047	CN0447	10TCC-047
C172	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C173	18		CCT0-180	DTZ-20	NP020	CN0418	10TCC-018
C174	2-20						
C175	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-047
C176	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-047
C200	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C201	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C202	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C204	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C205	330		CCD-331	DD-331	GP330	GP333	10TS-T33
C206	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C211	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C213	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C220	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C222	.022		CCD-682	DD-682	JF268		10TS-D68
C223	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C224	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C230	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C299	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-047
C300	58			DTZ-68		CN0468	10TCC-068
C301	.047	0283094	CCD-503	CK-503	MGP05	TA150	TG-S50
C302	10		CCT0-100	DTZ-10	NP010	CN0410	10TCC-010
C303	27		CCT0-270			CN0427	10TCC-027
C304	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C305	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C306	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-033
C307	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C308	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C309	39					CN0439	10TCC-039
C310	100		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C311	.0047		CCD-472	DD-472G	GP4700	JF247	10TS-D47
C312	.022		CCD-203	CK-203	MGP02	TA120	TG-S20
C313	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C314	150		CCD-151	DD-151	GP150	GP315	10TS-T15
C315	100		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C316	82		CCT0-820	DTZ-82	NP082	CN0482	10TCC-082
C317	82		CCT0-820	DTZ-82	NP082	CN0482	10TCC-082
C318	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C319	220		CCD-221	DD-221	GP220	GP322	10TS-T22
C320	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-047
C322	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C324	.033	0283094	CCD-203	CK-303		GP130	TG-S30
C325	4		CCT0-4R7	DTZ-4R7	NP04P7	CN0537	10TCC-V47
C326	68			DTZ-68		CN0468	10TCC-068
C327	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C331	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C350	.02		CCD-203	CK-203	MGP02	TA120	TG-S20
C353	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C355	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C357	.01		CCD-103	CK-103	MGP01	TA110	TG-S10
C405	.047		CCD-503	CK-503	MGP05	TA150	TG-S50
C406	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C407	.001		CCD-102	DD-102	GP1000	SM210	25S-D10
C501	68		CCT0-680	DTZ-68	NP068	CN0468	10TCC-068

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R12	AM Sensitivity	1000	0151883	TSV-1K (4) or T-1000 (4)	C-102 (4)	MTC13L1 (4)	X201R102B (4)
R19	AM Squelch	10K	0151886	TSV-10K (4) or T-10K (4)	C-103 (4)	MTC14L1 (4)	X201R103B (4)
R20	Squelch	50K		F2-50K (1), SSK014	A47-50K-Z (1), KSS-3 or [NP-C-400] JP-C-400	RU54A, SL36, SL1500 or UAS4A (1), SK1000 or U33 (1)	BU1 (1), CF63, SS1, DCT
R67	SSB Sensitivity	1000	0151883	TSV-1K (4) or T-1000 (4)	C-102 (4)	MTC13L1 (4)	X201R102B (4)
R72	Balance	470	0151882	TSV-500 (4) or T-500 (4)	C-501 (4)	MTC52L1 (4)	X201R501B (4)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R77	SSB AGC	10K	0151886	TSV-10K (4) or T-10K (4)	C-103 (4)	MTC14L1 (4)	X201R103B (4)
R212	AM Mic Gain	47K	0151888	TSV-50K (4) or T-50K (4)	C-503 (4)	MTC54L1 (4)	X201R503B (4)
R213	SSB Mic Gain	10K	0151886	TSV-10K (4) or T-10K (4)	C-103 (4)	MTC14L1 (4)	X201R103B (4)
R221	SSB Squelch	47K	0151888	TSV-50K (4) or T-50K (4)	C-503 (4)	MTC54L1 (4)	X201R503B (4)
R316	ALC	1000	0151883	TSV-1K (4) or T-1000 (4)	C-102 (4)	MTC13L1 (4)	X201R103B (4)
R331	AM "S" Meter	47K	0151888	TSV-50K (4) or T-50K (4)	C-503 (4)	MTC54L1 (4)	X201R503B (4)
R332	SSB "S" Meter	10K	0151886	TSV-10K (4) or T-10K (4)	C-103 (4)	MTC14L1 (4)	X201R103B (4)
R333	RF Meter	47K	0151888	TSV-50K (4) or T-50K (4)	C-503 (4)	MTC54L1 (4)	X201R503B (4)
R405	Voltage	1000	0151804	TSV-1K (2) or T-1000 (2)	C-102 (2)	MTC13L1 (2)	X201R102B (2)
RV1	Volume/Switch	10K					

(1) Enlarge mounting hole.

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

(4) Modify terminals to fit PC board.

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.
R229	2.2 (1/2W Carbon)			R235	2.2 (1/2W Carbon)		

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (22uH)	5152078		74F225AI	
L2	RF Choke (22uH)	5152078		74F225AI	
L3	RF Choke (220uH)	5152032			
L6	RF Choke (4.7uH)	5152121		5219	
L7	RF Choke (1.0uH)	5152122			
L8	RF Choke (1.0uH)	5152122			
L9	RF Choke (33uH)	5152021			
L10	RF Choke (33uH)	5152021			
L22	Xmit Buffer Output (27MHz)	0317196			
L23	Xmit Driver (27MHz)	5123007			
L24	Final Amp (27MHz)	0317196			
L25	Final Amp (27MHz)	5123007			
L26	Final Amp (27MHz)	5123007			
L27	Antenna Matching	0317196			
T2	RF Input (27MHz)	0317175			
T3	RF (27MHz)	5120099			
T4	1st Mixer (11MHz)	0322341			
T5	Input IF (455kHz)	0322116			
T6	Interstage IF (455kHz)	0322146			
T7	Output IF (455kHz)	5132031			
T8	SSB Input IF (11MHz)	0322203			
T9	SSB 1st IF (11MHz)	0322341			
T10	SSB 2nd IF (11MHz)	0322341			
T11	SSB Output IF (11MHz)	5123262			
T12	Synth Mxr. Input (23MHz)	5120099			
T13	Synth Mxr. Output (38MHz)	5123261			
T14	Buffer (38MHz)	5123261			
T15	Buffer (38MHz)	5123261			
T16	Buffer (38MHz)	5123261			
T19	Xmit Mxr. Input (27MHz)	0317192			
T20	Xmit Mxr. Interstage (27MHz)	0317164			
T21	Xmit Buffer (27MHz)	0317194			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (10 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T30	680 mA	.3	2.8 mH	5220001				

CHOKE (Audio Output)

ITEM No.	INDUCTANCE	REPLACEMENT DATA				NOTES
		MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T29	2.8 mH	5220001				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
T17	25	1 CT		0441114				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T18	32	8	0452047				

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T27	120 VAC @ 220 mA	30 VAC @ 310 mA	5211102				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3" X 5" PM, 8 Ohms	5410712	35A0528	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	2 Amp, Fast Acting			AGC2	HDJ	312002	145150

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X1	7.860000	5780166	AFA36W7.860000	21,22,23	X10	14.944	5780174	AFB40W14.944	4,8,12,16,20,23
X2	7.776666	5780161	AFA36W7.776666	1,2,3,4	X11	14.907	5780175	AFC40W14.907	1,5,9,13,17,21
X3	7.793333	5780162	AFA36W7.793333	5,6,7,8	X12	14.917	5780176	AFC40W14.917	2,6,10,14,18,22
X4	7.810000	5780163	AFA36W7.810000	9,10,11,12	X13	14.927	5780177	AFC40W14.927	3,7,11,15,19
X5	7.826666	5780164	AFA36W7.826666	13,14,15,16	X14	14.947	5780178	AFC40W14.947	4,8,12,16,20,23
X6	7.843333	5780165	AFA36W7.843333	17,18,19,20	X15	11.730	5780167	AFD32W11.730	Receive
X7	14.904	5780171	AFB40W14.904	1,5,9,13,17,21	X16	11.272	5780168	AFD32W11.272	Transmit (LSB)
X8	14.914	5780172	AFB40W14.914	2,6,10,14,18,22	X17	11.275	5780169	AFD32W11.275	Transmit (AM & USB)
X9	14.924	5780173	AFB40W14.924	3,7,11,15,19					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
GF	Ceramic Filter	5760011	IF, 455KHz Level
M	Meter	5551905	
RL	Relay	5640062	Channel Selector PA-CB AM/LSB/USB ANL
S2	Switch	5612031	
S3	Switch	0532179	
S4	Switch	5621341	
S5	Switch	0532179	

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

ITEM	PART No.	ITEM	PART No.
Case Top	6141291	Escutcheon Assembly	5240091
Case Bottom	6141301	Knob, AM, LSB, USB, Tuning, Volume,	5286011
Frame Assembly	6141271	Squelch	
Mounting Bracket	7221461	Knob, Channel	6286001

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	5420314	
AC Power Cord	0593477	
DC Power Cord	5740703	