

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 1012001, ANDREW J.

MANUFACTURER'S SPECIFICATIONS

GENERAL

Channels:	40
Frequency Coverage:	26.965 MHz to 27.405 MHz
Frequency Control:	Phase Locked Loop (PLL) Synthesized Circuitry.
Frequency Tolerance:	±0.005%
Operating Temperature Range:	-30°C to +50°C.
Microphone:	Plug-in type, dynamic.
Input Voltage:	13.8V·DC nominal. (positive or negative ground)
Current Drain:	Transmit: AM full mod. 1.5 A. Receive: Squelched, 0.3 A. Full audio output: 1.2 A.
Size:	6-5/16"(W) x 8-39/64"(D) x 2-11/64"(H)
Weight:	4 Pounds
Antenna Connector:	UHF SO-239
Meter:	Illuminated, Indicates relative RF power and received signal strength.

TRANSMITTER

Power Output:	4 watts.
Modulation:	High and low level Class B amplitude modulation.
Frequency Response:	300 to 3000 Hz.
Output Impedance:	50 ohms, unbalanced.

RECEIVER

Sensitivity:	1 μV or less for 10 dB (S+N) /N.
Selectivity:	6 dB @7 KHz, 60 dB @10 KHz.
Image Rejection:	80 dB
I.F. Frequencies:	Double conversion; 1st : 10.695 MHz. 2nd: 455 KHz.
Automatic Gain Control:	Less than 10 dB change in audio output for inputs from 1.5 to 50,000 microvolts.
Squelch:	Adjustable; threshold less than 1 μV.
Audio Output Power:	5 watts (maximum)

Courtesy of the Manufacturer

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

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PRESIDENT MODEL 1012001, ANDREW J.

ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period.
Adjustments made with 13.8-volt DC input.
Connect low sides of test equipment to ground unless specified otherwise.
Connect 50-ohm dummy load or antenna before keying transmitter.
Connect Microphone
Suggested Alignment Tools: GC ELECTRONICS
L1 thru L4, L14 thru L18 9440
VC1 8276, 5000
L10 9091, 8728-A, 8728
L5, L6, L7 5009, 8728-A, 8728

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP10 (Junction VC1, C110 and C111)	Ch. 19	VC1	Adjust for 10.240MHz.
Input of DC meter to TP2	Ch. 40	L15	Adjust for 3.00 volts.
	Ch. 40, XMT		Check for 5.00 volts.
Input of oscilloscope to TP3	Ch. 19	L16	Adjust for maximum.
Input of frequency counter to TP3.	Ch. 1		Check for 16.270MHz. Check all channels. (See Truth Chart for correct frequencies)
	Ch. 1, XMT		Check for 16.725MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to antenna jack.	Ch. 1, XMT		Check for 26.965MHz. If necessary readjust VC1 for 26.965MHz.

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.
ANL Off, NB Off, RF Gain Maximum, Squelch MINIMUM

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP11 (FET2, gate). 455kHz, 100Hz @ 30% modulation.	Ch. 19	L7, L6, L5	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	L4, L3, L2, L1	Adjust for maximum output.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output .4uV.	Ch. 19 VOLUME Maximum	VR2	IF GAIN Adjust for 2 volts audio.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 SQUELCH Maximum	VR4	SQUELCH RANGE Adjust so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation Output 100uV.	Ch. 19	VR1	SIG METER Adjust for 9 on SIG scale of meter.

TRANSMITTER ALIGNMENT

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	L18, L17, L14, L10	Adjust for maximum.
	Ch. 19	L10	Adjust for 3.8 watts.

TRANSMITTER ADJUSTMENTS

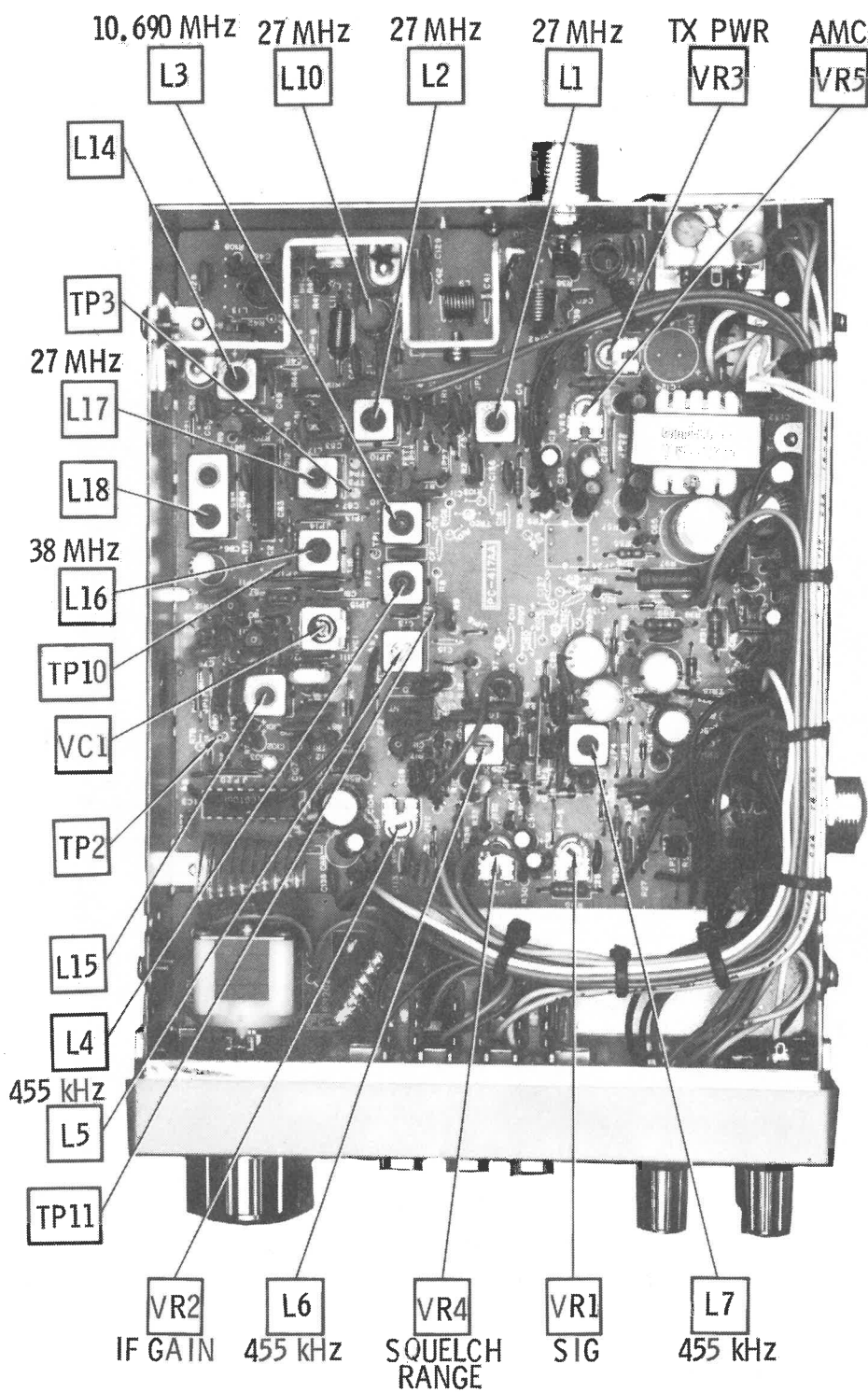
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or harmonic meter to antenna jack. Inject a 1000Hz, 100mV signal at MIC input.	Ch. 19	VR5	AMC Adjust for 95% modulation
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.	Ch. 19	VR3	TX PWR METER Adjust so that TX PWR meter agrees with RF wattmeter.

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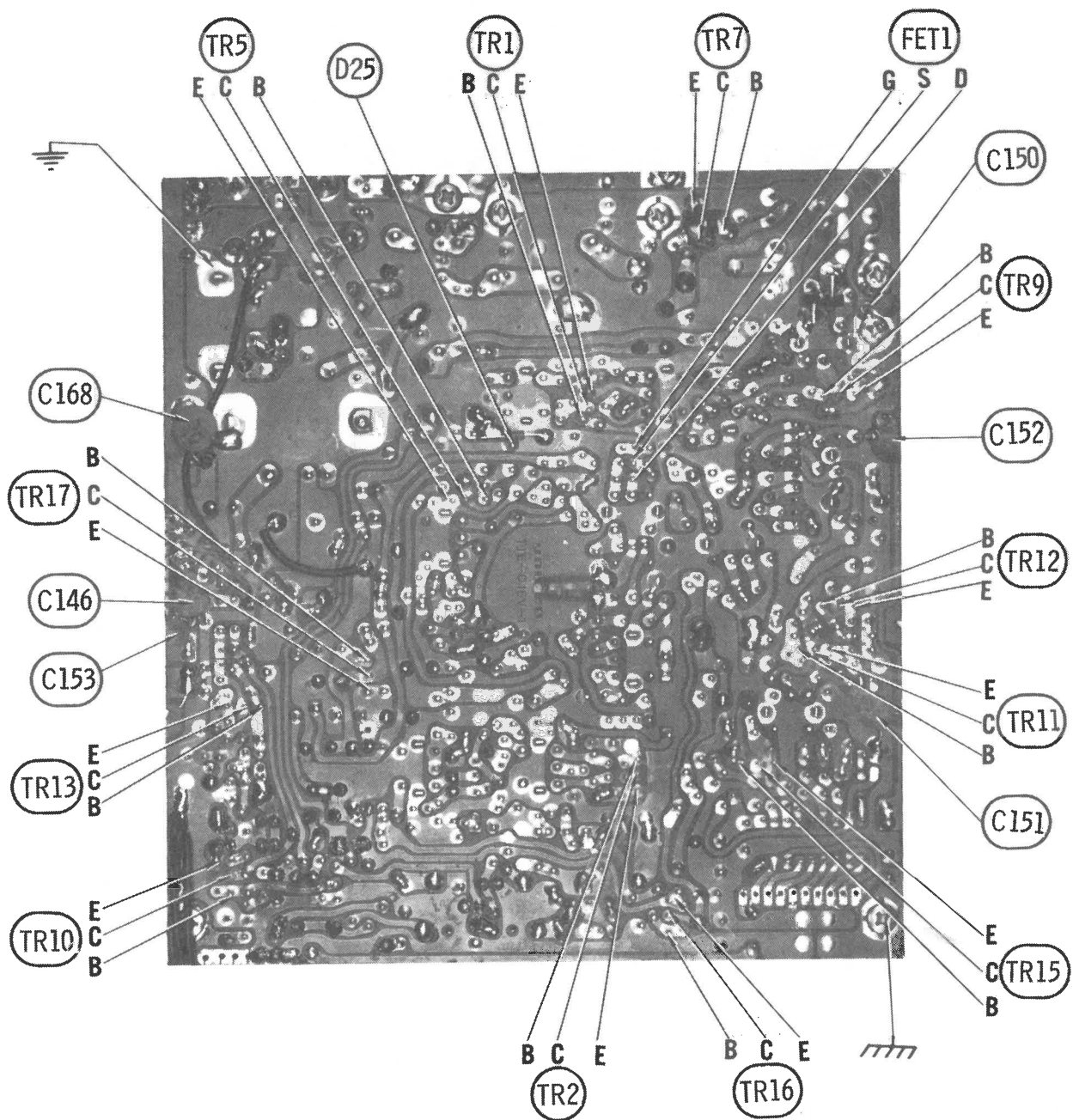
TRUTH CHART

C H A N N E L	1 = 7.00 Volts 0 = 0 Volts IC3 PROGRAM DIVIDER								REC SYNTHESIZER OUTPUT IN MHz AT TP3	XMT SYNTHESIZER OUTPUT IN MHz AT TP3	
	PINS										
	17	16	15	14	13	12	11	10			
1	1	1	1	1	1	1	1	1	16.270	16.725	
2	1	1	1	0	0	0	0	1	16.280	16.735	
3	1	1	1	0	1	0	0	1	16.290	16.745	
4	1	1	1	1	1	0	1	0	16.310	16.765	
5	1	1	1	0	1	0	0	0	16.320	16.775	
6	1	1	1	0	0	0	1	0	16.330	16.785	
7	1	1	1	1	1	1	0	1	16.340	16.795	
8	1	1	1	0	0	0	0	0	16.360	16.815	
9	1	1	1	1	1	0	0	0	16.370	16.825	
10	1	1	0	0	0	1	0	0	16.380	16.835	
11	1	1	0	1	1	1	1	1	16.390	16.845	
12	1	1	0	0	0	0	0	1	16.410	16.865	
13	1	1	0	0	1	0	0	1	16.420	16.875	
14	1	1	0	1	1	0	1	0	16.430	16.885	
15	1	1	0	0	1	0	0	0	16.440	16.895	
16	1	1	0	0	0	0	1	0	16.460	16.915	
17	1	1	0	1	1	1	0	1	16.470	16.925	
18	1	1	0	0	0	0	0	0	16.480	16.935	
19	1	1	0	1	1	0	0	0	16.490	16.945	
20	1	0	1	0	0	1	0	0	16.510	16.965	
21	1	0	1	1	1	1	1	1	16.520	16.975	
22	1	0	1	0	0	0	0	1	16.530	16.985	
23	1	0	1	0	1	0	0	1	16.560	17.105	
24	1	0	1	1	1	0	1	0	16.540	16.995	
25	1	0	1	0	1	0	0	0	16.550	17.005	
26	1	0	1	0	0	0	1	0	16.570	17.025	
27	1	0	1	1	1	1	0	1	16.580	17.035	
28	1	0	1	0	0	0	0	0	16.590	17.045	
29	1	0	1	1	1	0	0	0	16.600	17.055	
30	1	0	0	0	0	1	0	0	16.610	17.065	
31	1	0	0	1	1	1	1	1	16.620	17.075	
32	1	0	0	0	0	0	0	1	16.630	17.085	
33	1	0	0	0	1	0	0	1	16.640	17.095	
34	1	0	0	1	1	0	1	0	16.650	17.105	
35	1	0	0	0	1	0	0	0	16.660	17.115	
36	1	0	0	0	0	0	1	0	16.670	17.125	
37	1	0	0	1	1	1	0	1	16.680	17.135	
38	1	0	0	0	0	0	0	0	16.690	17.145	
39	1	0	0	1	1	0	0	0	16.700	17.155	
40	0	1	0	0	0	1	0	0	16.710	17.165	

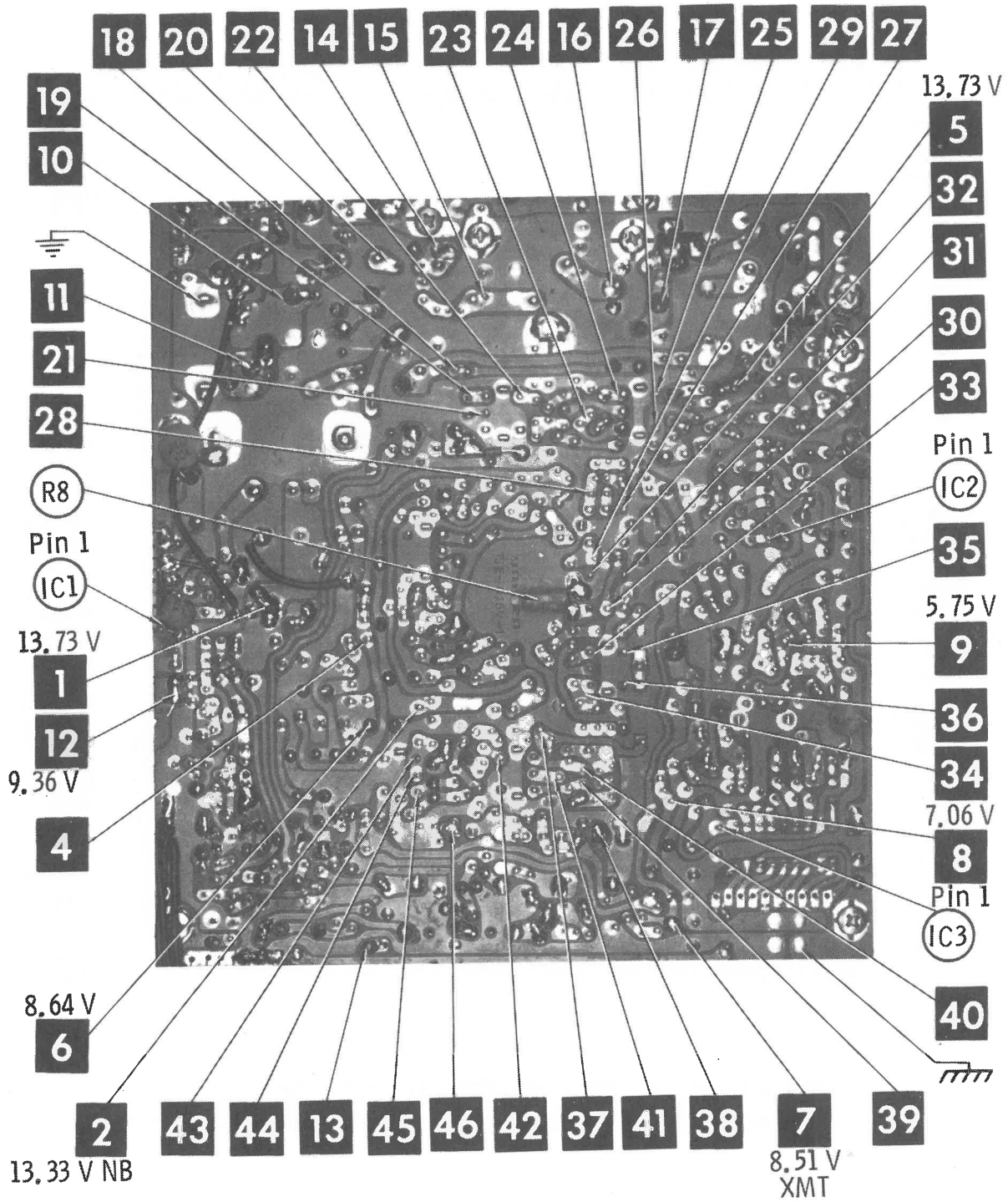


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CHASSIS - BOTTOM

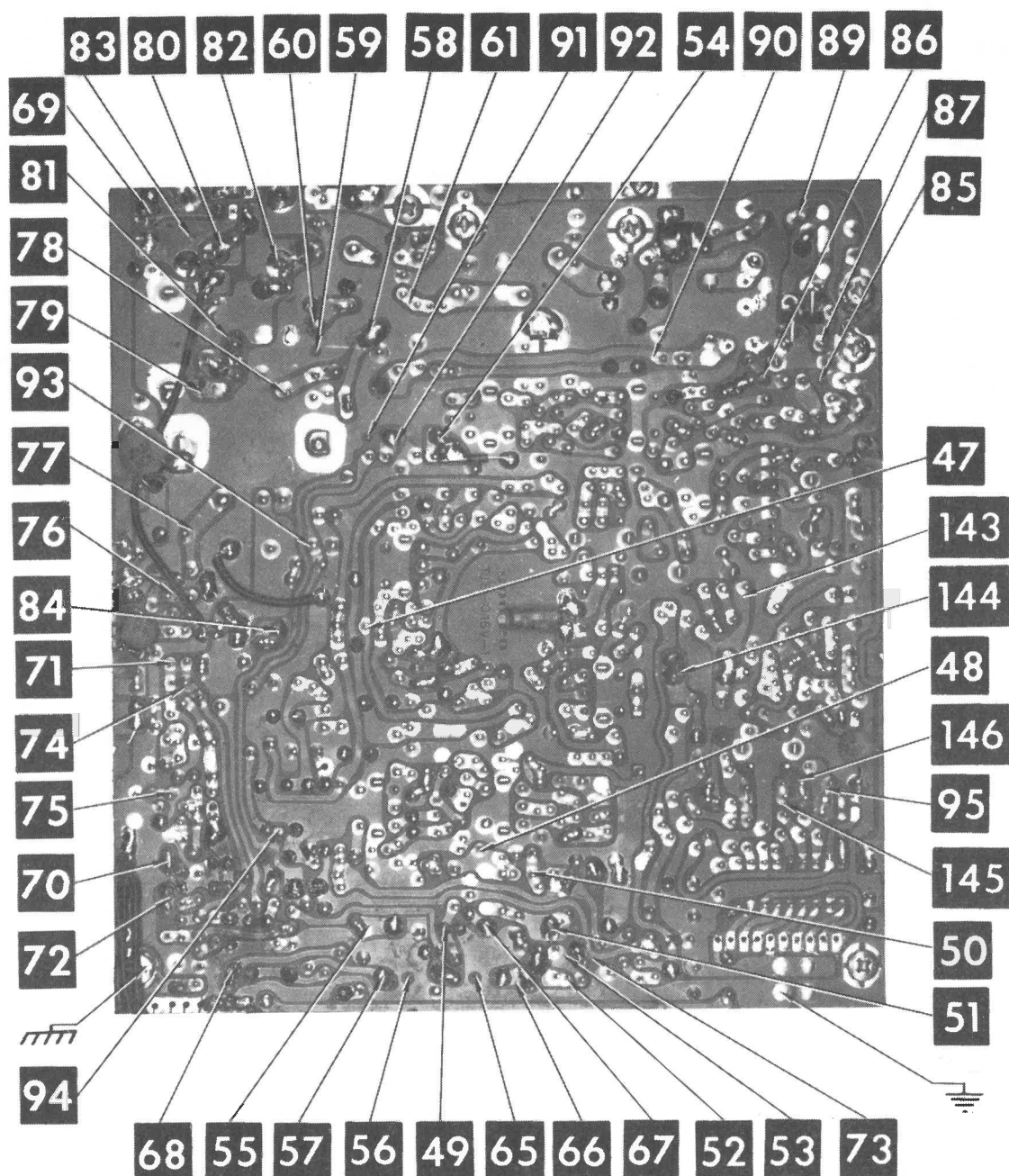


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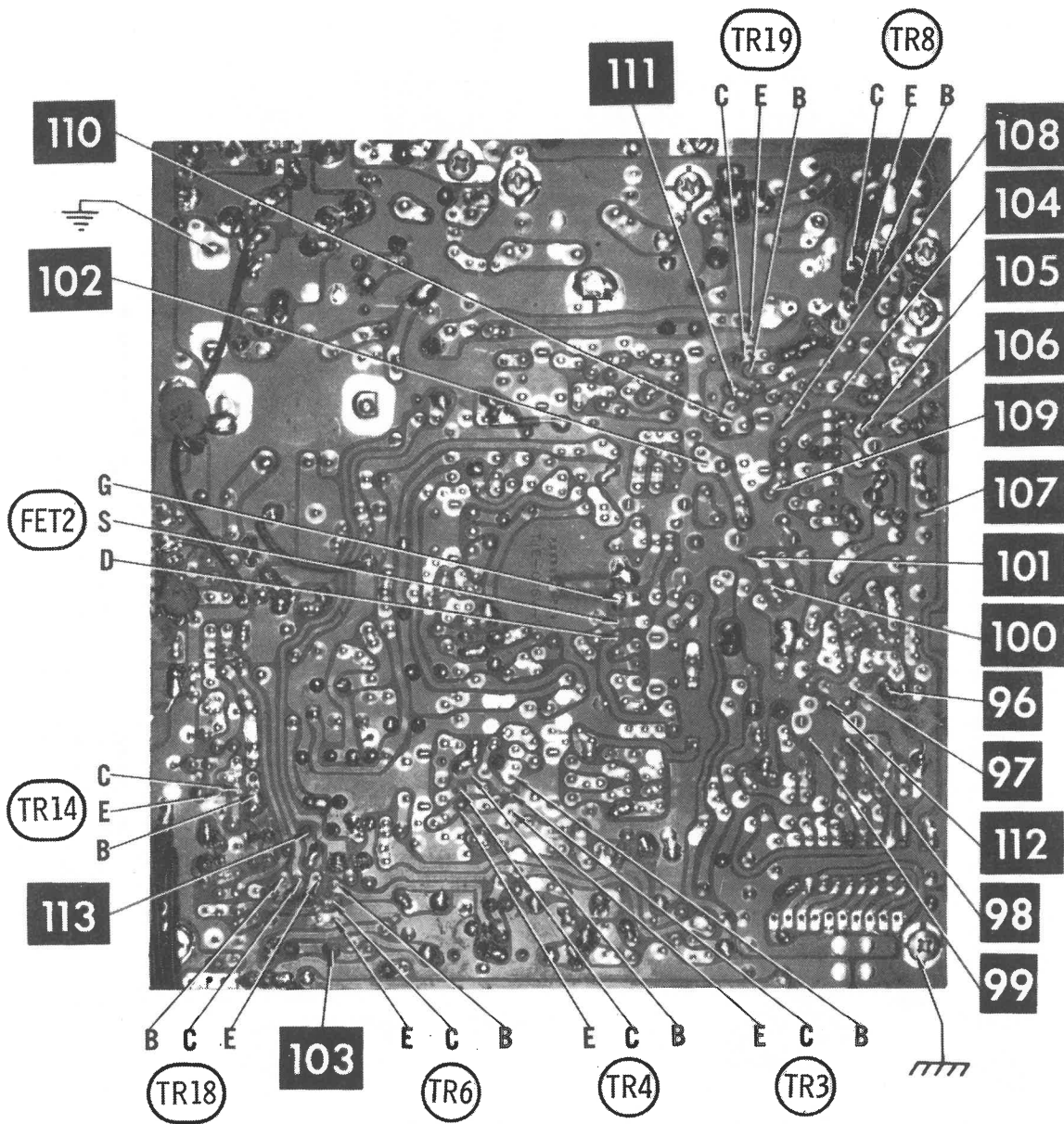


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MAIN BOARD

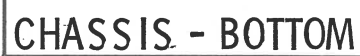


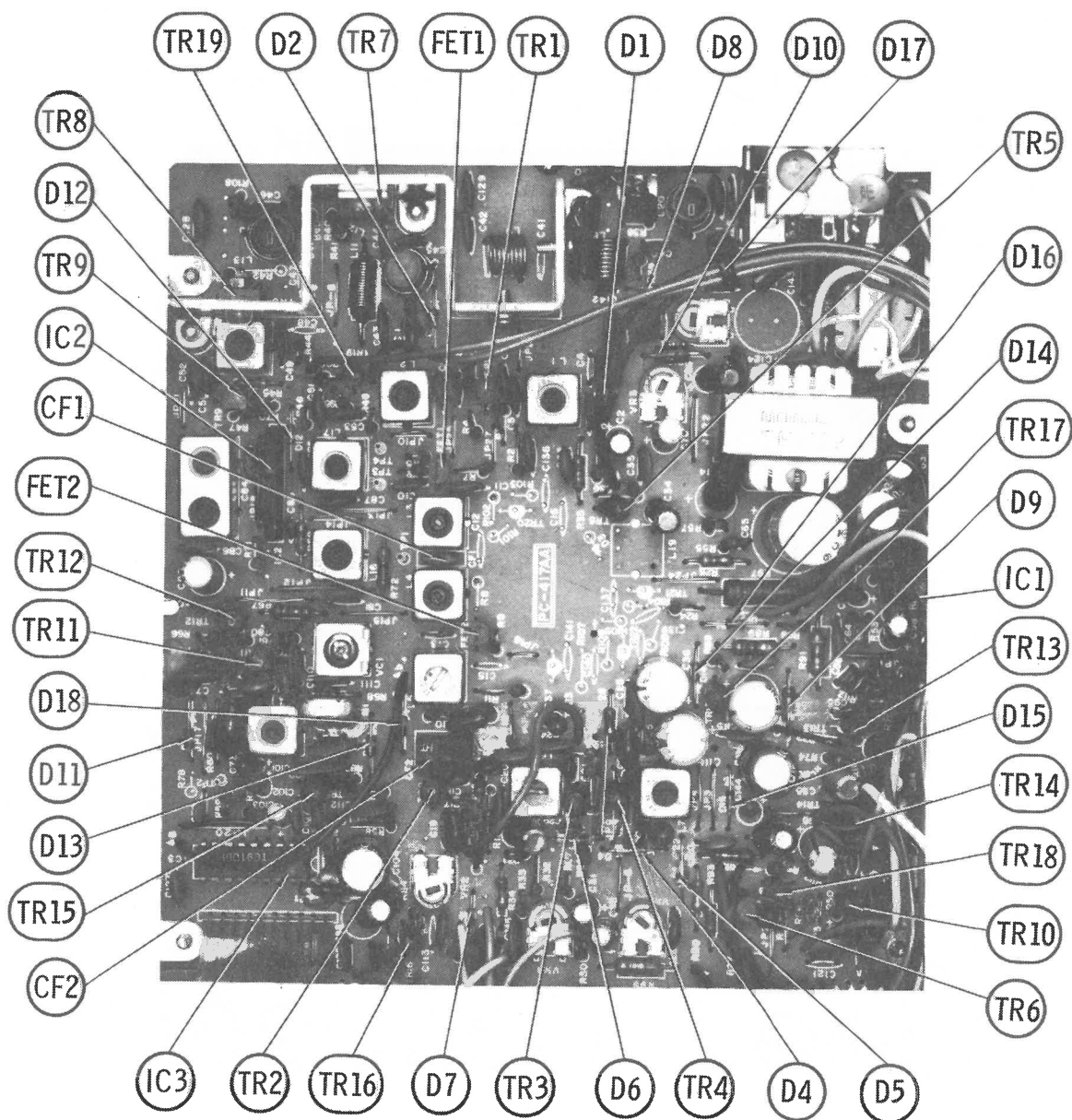
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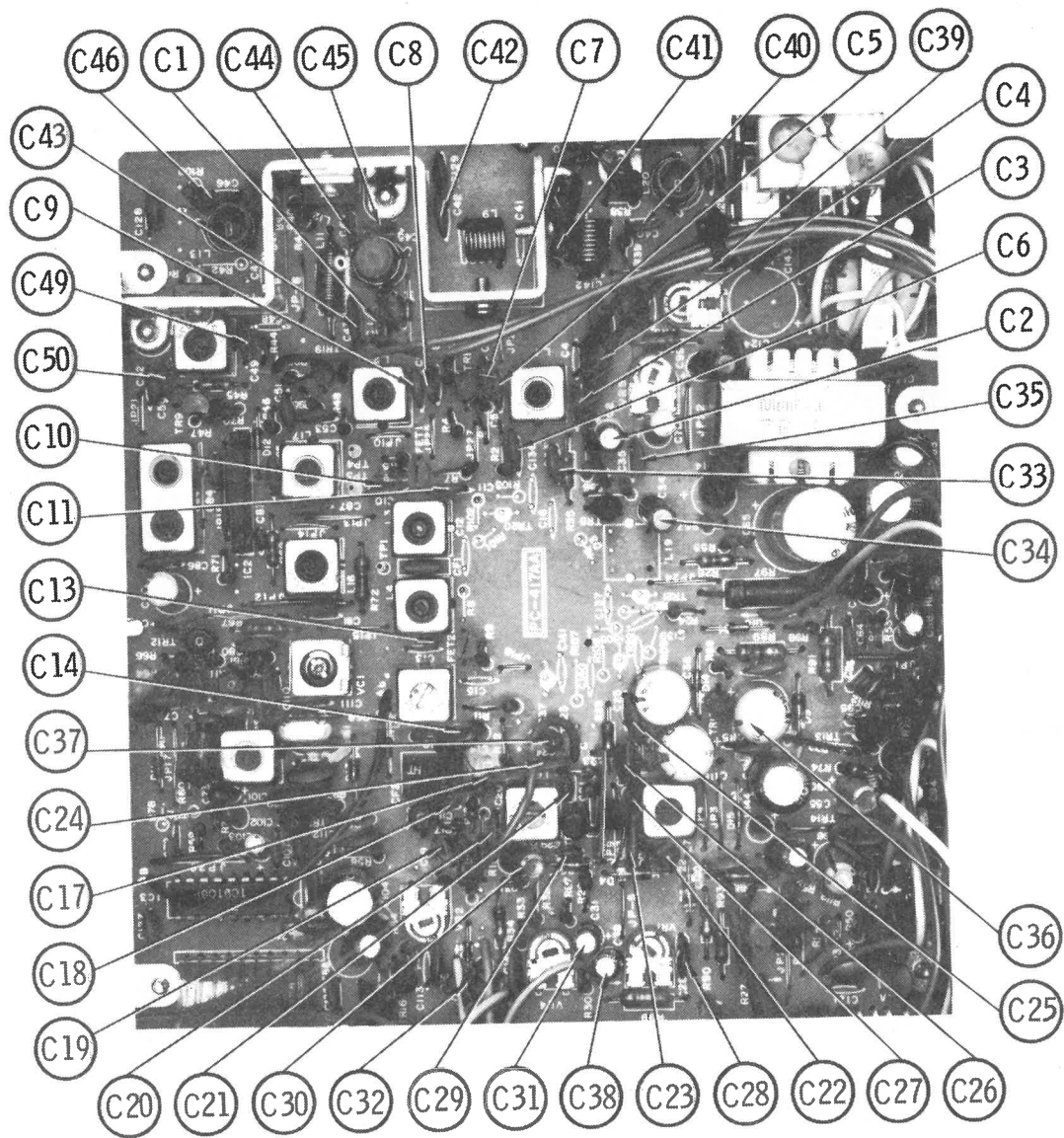
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MAIN BOARD

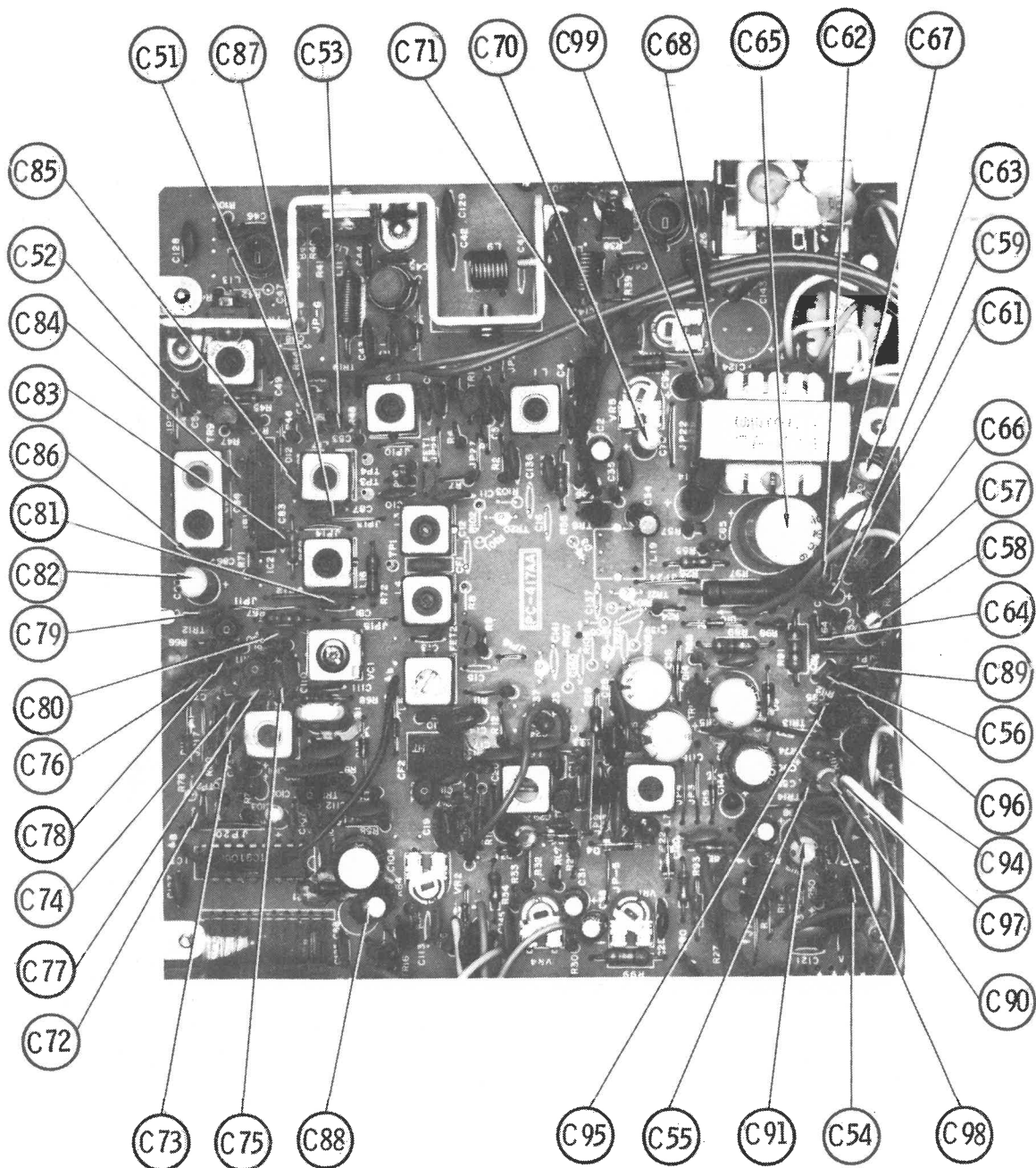




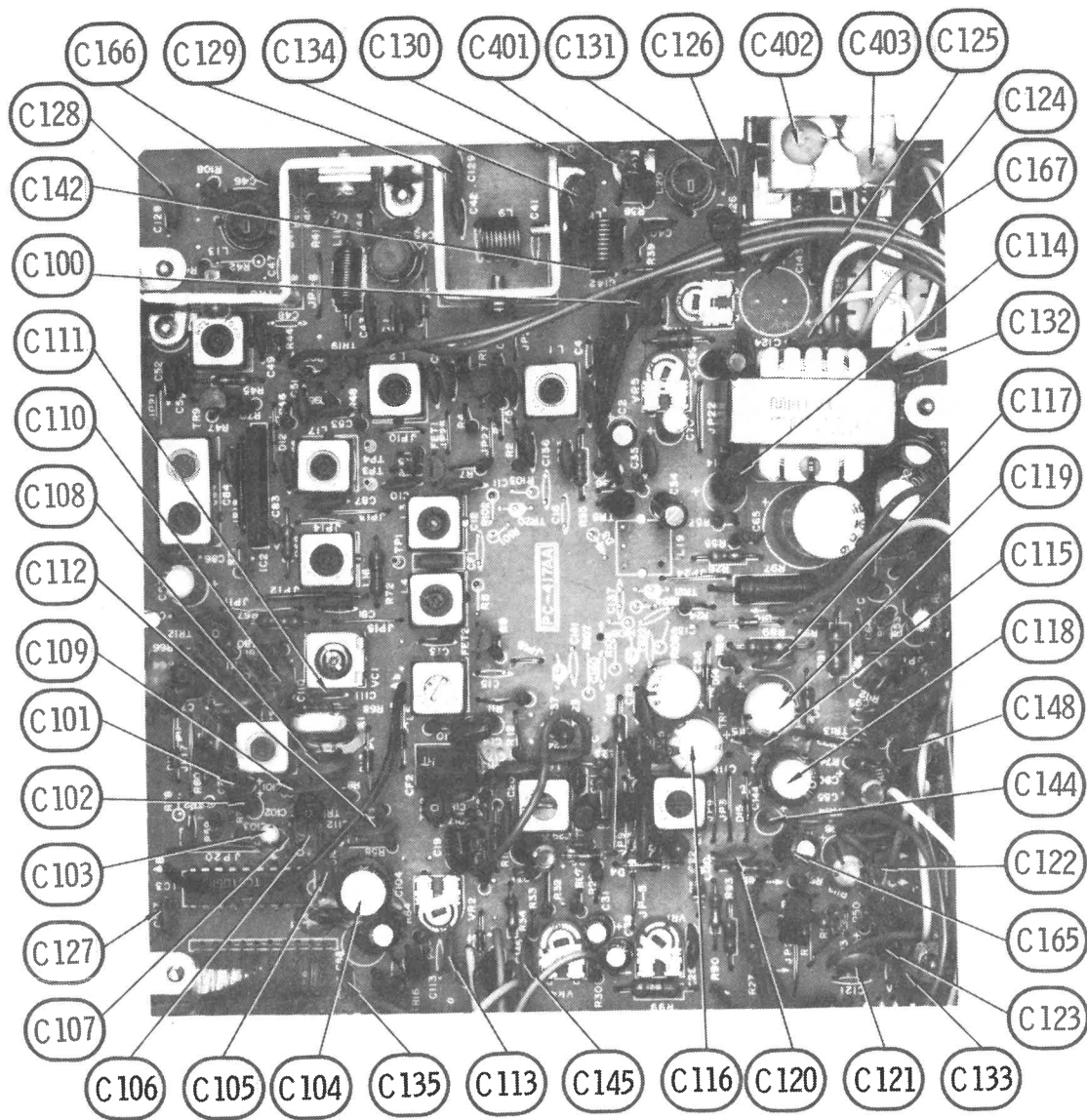
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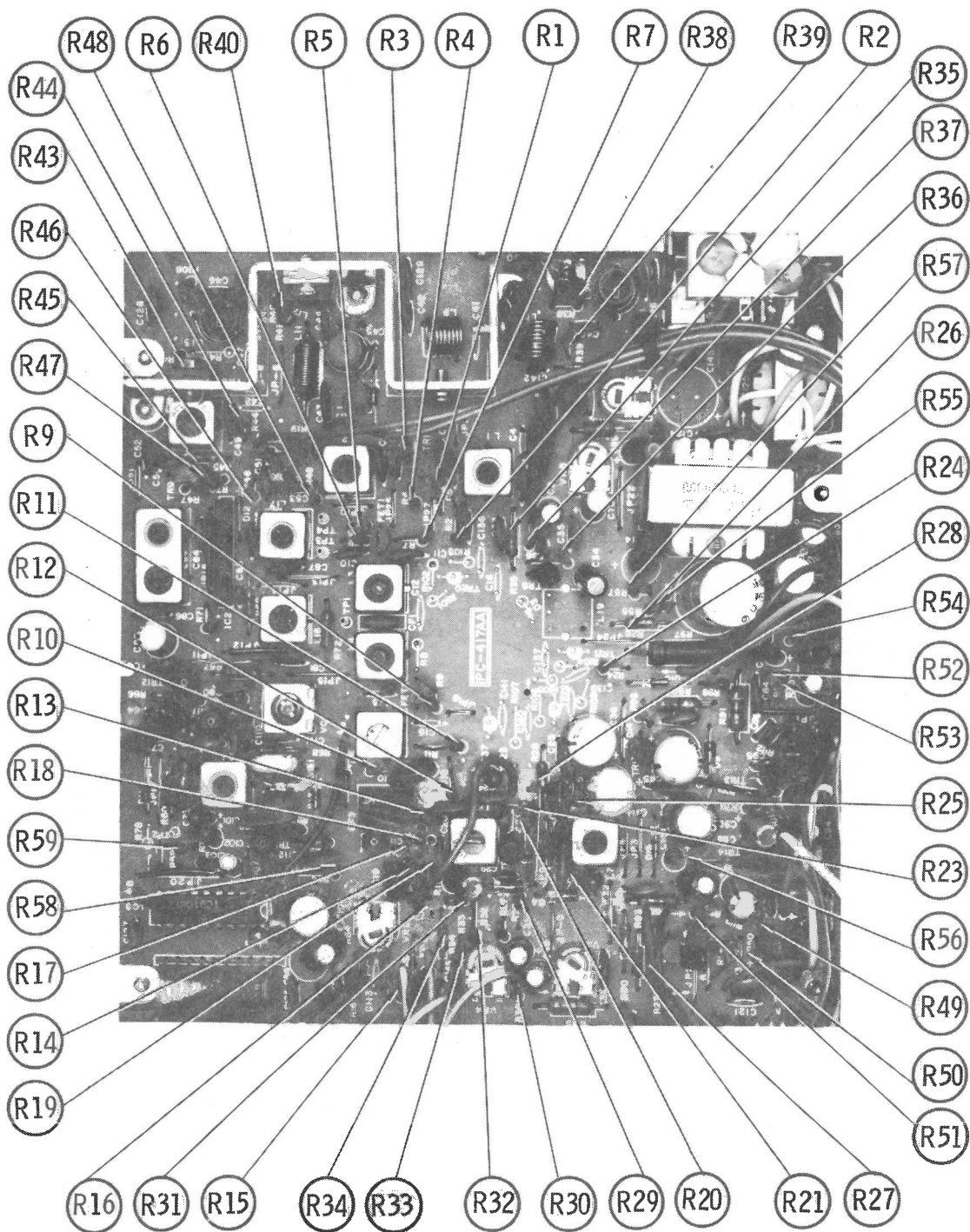
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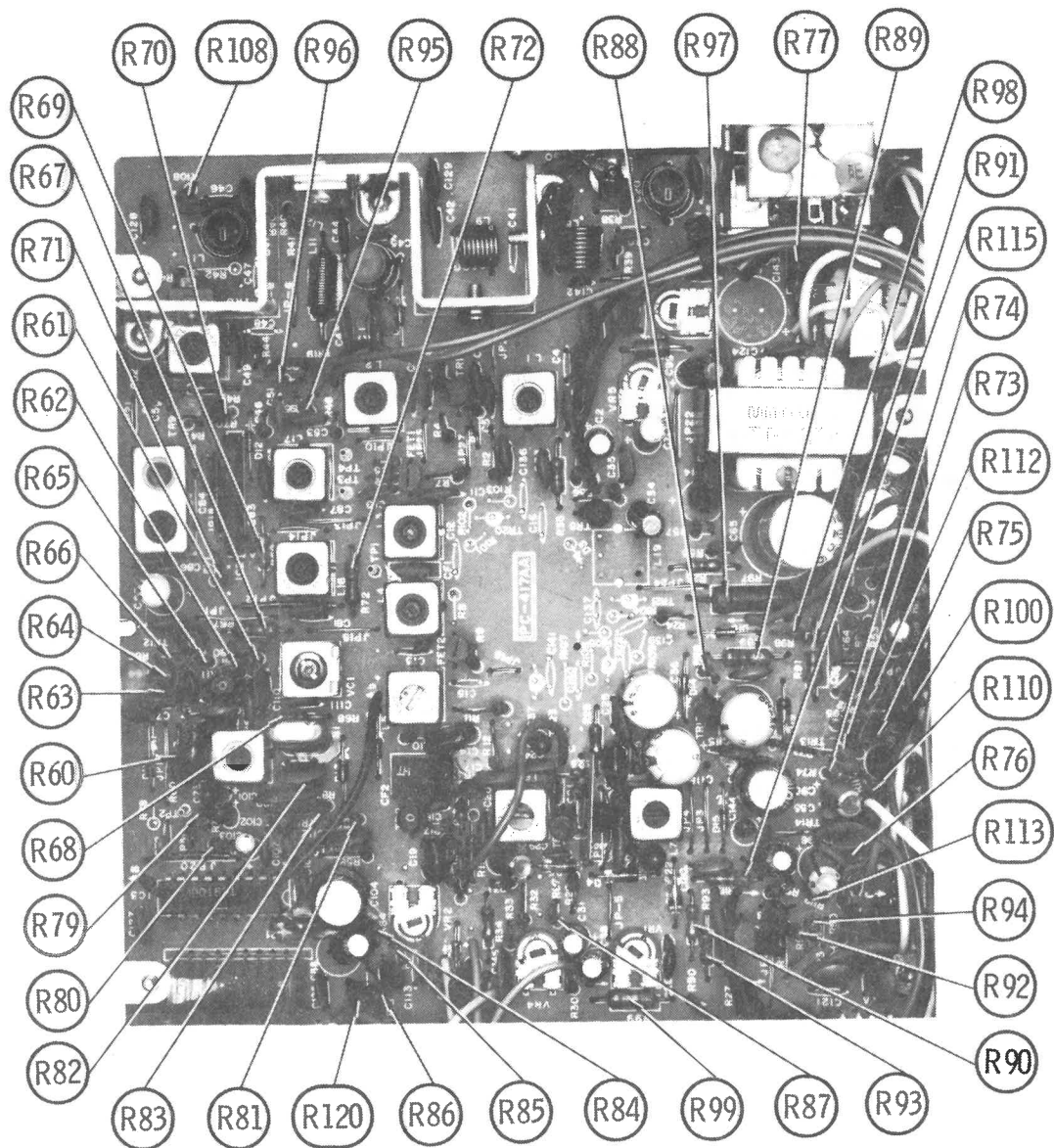
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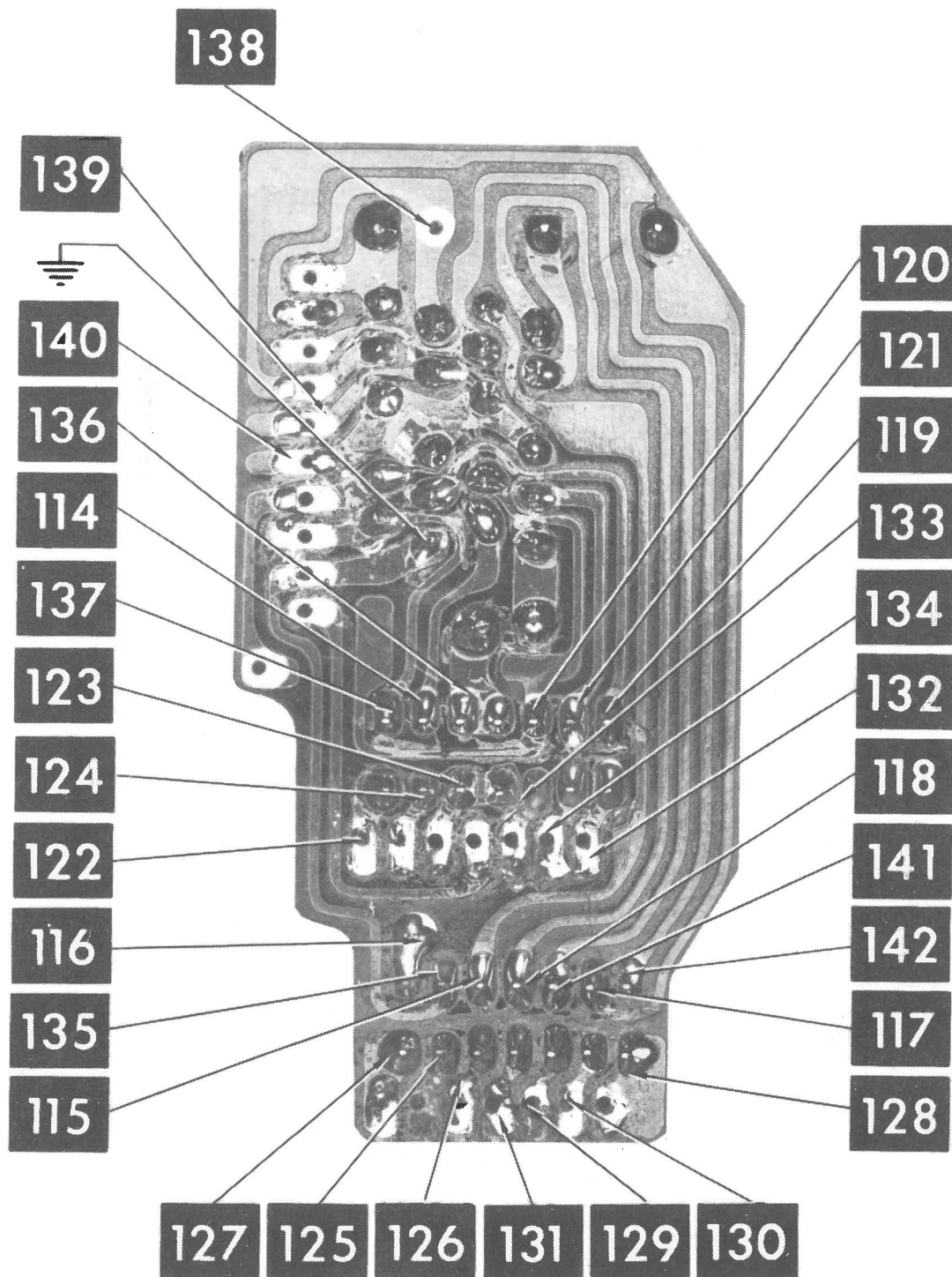
MAIN BOARD



MAIN BOARD

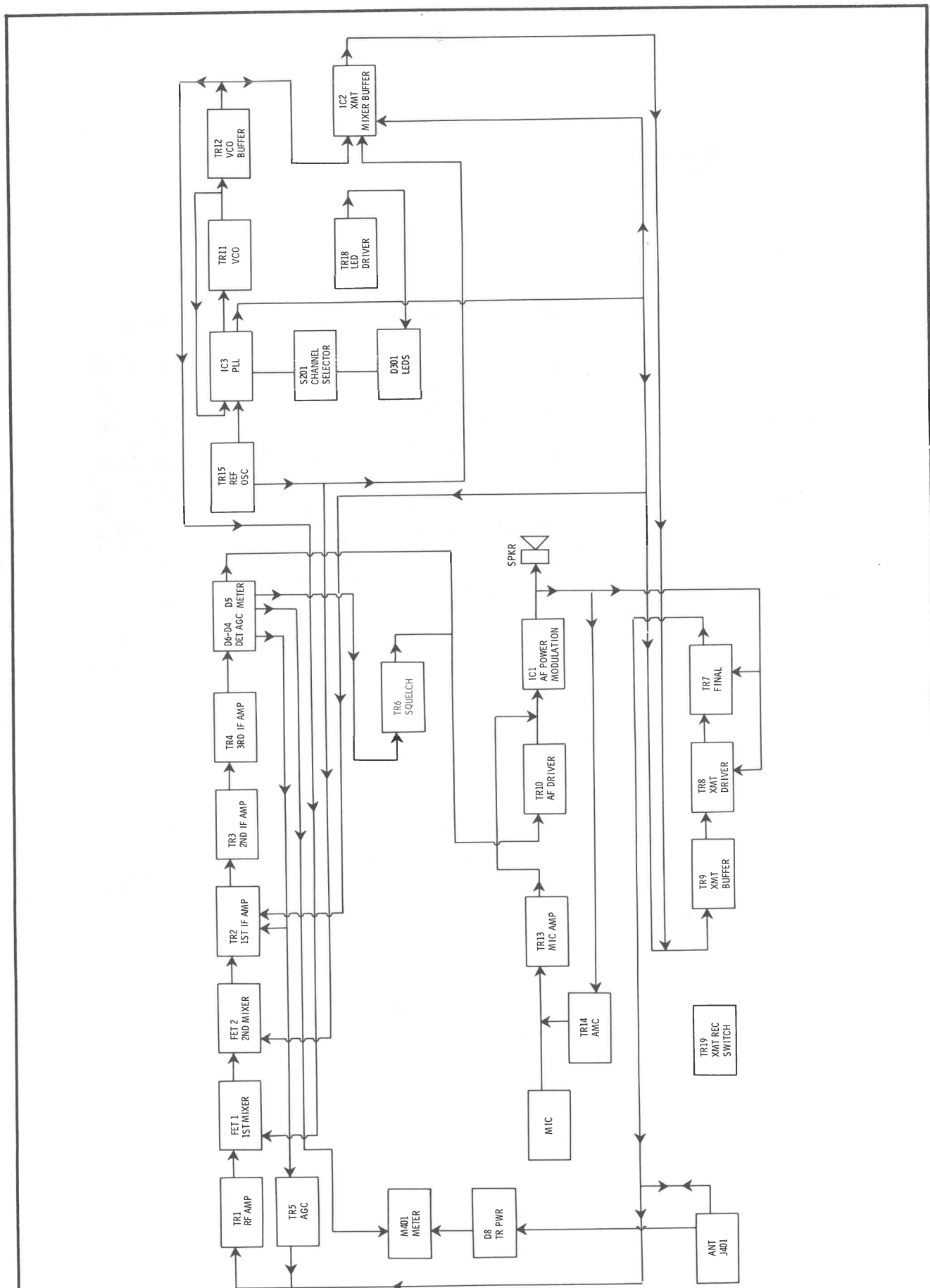


MAIN BOARD



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SWITCH BOARD



BLOCK DIAGRAM

PARTS LIST AND DESCRIPTION

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

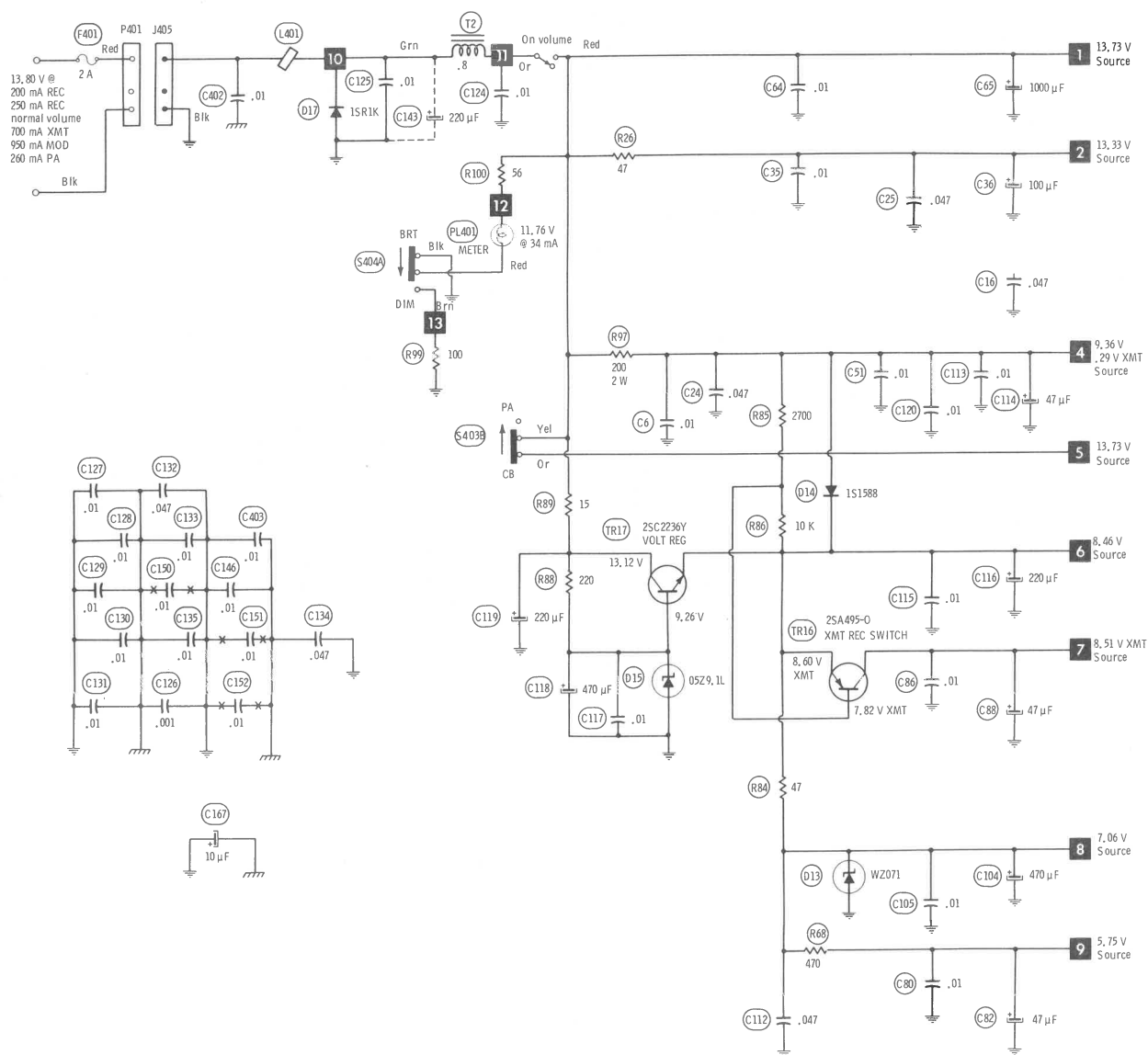
WIRING DATA

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	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')

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.
D1	1S1588 1S2076 1S2473 1N4448 WG713	2000-332	GE-514 GE-514 GE-514 GE-514 GE-300	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG519 ECG519 ECG177	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP925 WEP925 WEP1062	
D2	1S1588 1S2076 WG713 1N4448 1S2473	2000-332	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D4	1N60 1N60AM 1N60	2000-318	1N60 1N60 1N60	PTC206 PTC206 PTC206	HEPR9135 HEPR9135 HEPR9135	REN 109 REN 109 REN 109	SK3088 SK3088 SK3088	RT-263 RT-263 RT-263	ECG109 ECG109 ECG109	1N60 1N60 1N60	WEP134 WEP134 WEP134	ZEN-430 ZEN-430 ZEN-430
D5	1N60AM 1N60	2000-318	1N60 1N60	PTC206 PTC206	HEPR9135 HEPR9135	REN 109 REN 109	SK3088 SK3088	RT-263 RT-263	ECG109 ECG109	1N60 1N60	WEP134 WEP134	ZEN-430 ZEN-430
D6	1N60 1N60AM 1S2075K 1S2076 1S2473	2000-318	1N60 1N60 GE-300 GE-514 GE-514	PTC206 PTC206 PTC214 PTC214 PTC214	HEPR9135 HEPR9135 HEPRO602 HEPRO602 HEPRO602	REN 109 REN 109 REN 177 REN 177 REN 177	SK3088 SK3088 SK3100 SK3100 SK3100	RT-263 RT-263 RT-218 RT-218 RT-218	ECG109 ECG109 ECG177 ECG519 ECG519	1N60 1N60 1N4148 1N4148 1N4148	WEP134 WEP134 WEP1062 WEP925 WEP925	ZEN-430 ZEN-430 ZEN-430 ZEN-430 ZEN-430
D7	1S2076 1S2473 1S1588 1S2076 WG713	2000-303	GE-300 GE-514 GE-514 GE-300 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG177 ECG519 ECG519 ECG519 ECG177	1N4148 1N4148 1N4148 1N4148 1N4148	WEP1062 WEP925 WEP925 WEP925 WEP1062	
D8	1S2076 WG713 1S2473 1N4448	2000-332	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D9	1N60 1N60AM SRIK1 SRIK1 SRIK-1	2000-318	1N60 1N60 GE-504A GE-504A GE-504A	PTC206 PTC206 PTC201 PTC201 PTC201	HEPR9135 HEPR9135 HEPRO052 HEPRO052 HEPRO052	REN 109 REN 109 REN 116 REN 116 REN 116	SK3088 SK3088 SK3030 SK3030 SK3030	RT-263 RT-263 RT-213 RT-213 RT-213	ECG109 ECG109 ECG116 ECG116 ECG116	1N60 1N60 1N4004 1N4004 1N4004	WEP134 WEP134 WEP156 WEP156 WEP156	ZEN-430 ZEN-430 212-76-02 212-76-02 212-76-02
D10	1S2688EA 1S1588 1S2076 WG713 1S2473 1N4448	2000-344	GE-90 GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214 PTC214	HEPR2503 HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 614 REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100 SK3100	RT-262 RT-218 RT-218 RT-218 RT-218 RT-218	ECG614 ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148 1N4148	WEP200 WEP925 WEP925 WEP1062 WEP925 WEP925	ZEN-453
D11	1S2076 WG713 1S2473 1N4448	2000-332	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D12	1S2076 WG713 1S2473 1N4448	2000-332	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D13	1S2076 WG713 1S2473 1N4448	2000-325	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D14	1S2076 WG713 1S2473 1N4448	2000-332	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D15	1S2076 WG713 1S2473 1N4448	2000-305	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D16	1S2076 WG713 1S2473 1N4448	2000-332	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D17	1S2076 WG713 1S2473 1N4448	2000-309	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D18	1S2076 WG713 1S2473 1N4448	2000-332	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
D25	1S2076 WG713 1S2473 1N4448	2000-332	GE-514 GE-514 GE-300 GE-514 GE-514	PTC214 PTC214 PTC214 PTC214 PTC214	HEPRO602 HEPRO602 HEPRO602 HEPRO602 HEPRO602	REN 177 REN 177 REN 177 REN 177 REN 177	SK3100 SK3100 SK3100 SK3100 SK3100	RT-218 RT-218 RT-218 RT-218 RT-218	ECG519 ECG519 ECG177 ECG519 ECG519	1N4148 1N4148 1N4148 1N4148 1N4148	WEP925 WEP925 WEP1062 WEP925 WEP925	
FET1	2SK104H 2SK104 2SK19	2000-107	GE-FET-2 GE-FET-2 GE-FET-2	PTC161 PTC161 PTC161	HEPF0021 HEPF0021 HEPF0021	REN 132 REN 132 REN 132	SK3448 SK3448 SK3448	RT-175 RT-175 RT-175	ECG312 ECG312 ECG312	1N4148 1N4148 1N4148	WEP956 WEP956 WEP956	ZEN-123 ZEN-123 ZEN-123
FET2	2SK104H 2SK104 2SK19	2000-107	GE-FET-2 GE-FET-2 GE-FET-2	PTC161 PTC161 PTC161	HEPF0021 HEPF0021 HEPF0021	REN 132 REN 132 REN 132	SK3448 SK3448 SK3448	RT-175 RT-175 RT-175	ECG312 ECG312 ECG312	1N4148 1N4148 1N4148	WEP956 WEP956 WEP956	ZEN-123 ZEN-123 ZEN-123
IC1	TA7222P TA7310P AN103	2000-032				REN 1192 REN 1192	SK3445 SK3445		ECG1192 ECG1192			
IC2	TC9106P 2SC1923BN 2SC1923	2000-035										
TR1	2SC1342 2SC930 2SC763 2SC380-0 2SC380 2SC460 2SC1684 2SC930 2SC1675	2000-243	GE-61 GE-61 GE-61* GE-60* GE-61* GE-61* GE-61* GE-62* GE-60* GE-213	PTC132 PTC132 PTC132* PTC1315 PTC136* PTC136* PTC136* PTC139* PTC132* PTC132*	HEPS0016 HEPS0016* HEPS0016* HEPS0020* HEPS0016* HEPS0016* HEPS0014* HEPS0024* HEPS0016* HEPS0025*	REN 107 REN 107 REN 229* REN 229* REN 107 REN 107 REN 107 REN 199* REN 229 REN 123A*	SK3018 SK3018 SK3018* SK3018* SK3018* SK3018* SK3122* SK3122* SK3018 SK3246	RT-107 RT-107 RT-108A* RT-308 RT-309 RT-107A RT-107A RT-134 RT-108A* RT-308 RT-308	ECG229 ECG229 ECG229* ECG229* ECG229* ECG107 ECG107 ECG107 ECG199* ECG229* ECG229*	2SC535 2SC535 2SC930 2SC684* 2SC380 2SC380 2SC460 2SC735* 2SC930	WEP956 WEP956 WEP956* WEP956* WEP380 WEP380 WEP460 WEP66* WEP956* WEP956*	ZEN-127 ZEN-127 ZEN-127 ZEN-127 ZEN-127 ZEN-127 ZEN-127 ZEN-127 ZEN-127 ZEN-127

PRESIDENT MODEL 1012001, ANDREW J.



—*— 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.

Terminal Guides



TR1, TR5, TR6
TR9, TR10, TR13
TR14, TR16, TR17
Bottom view



FET, FET2
Bottom view



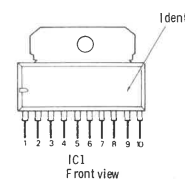
TR2, TR3, TR4
Bottom view



TR8
Front view



TR7
Front view

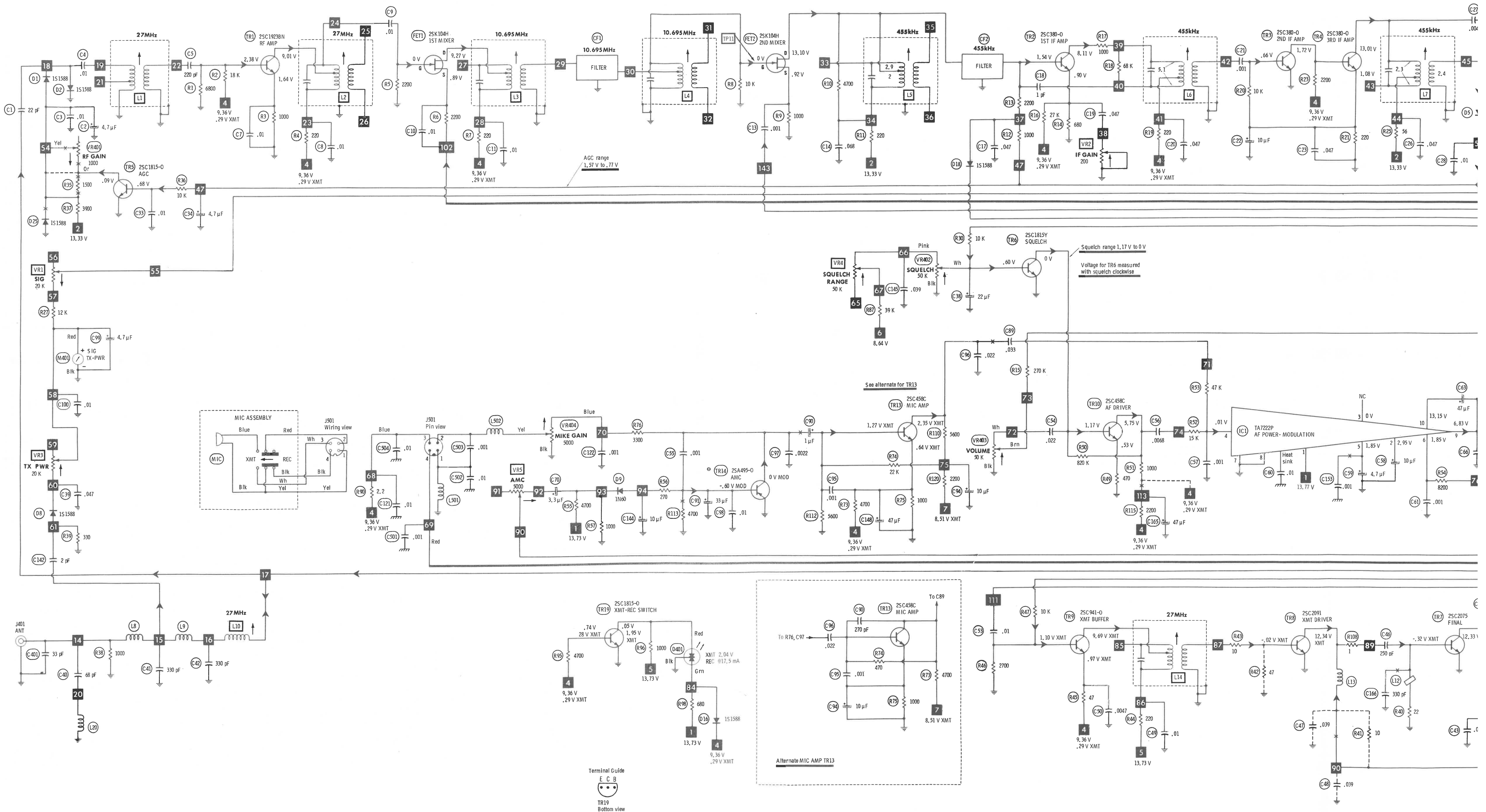


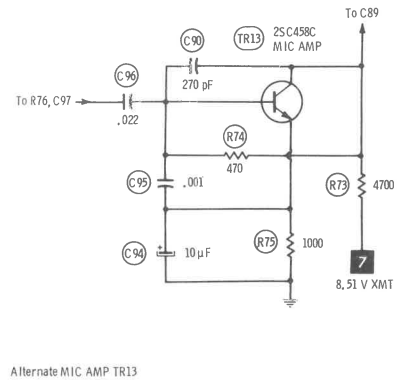
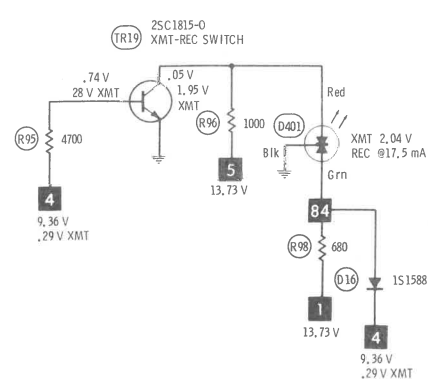
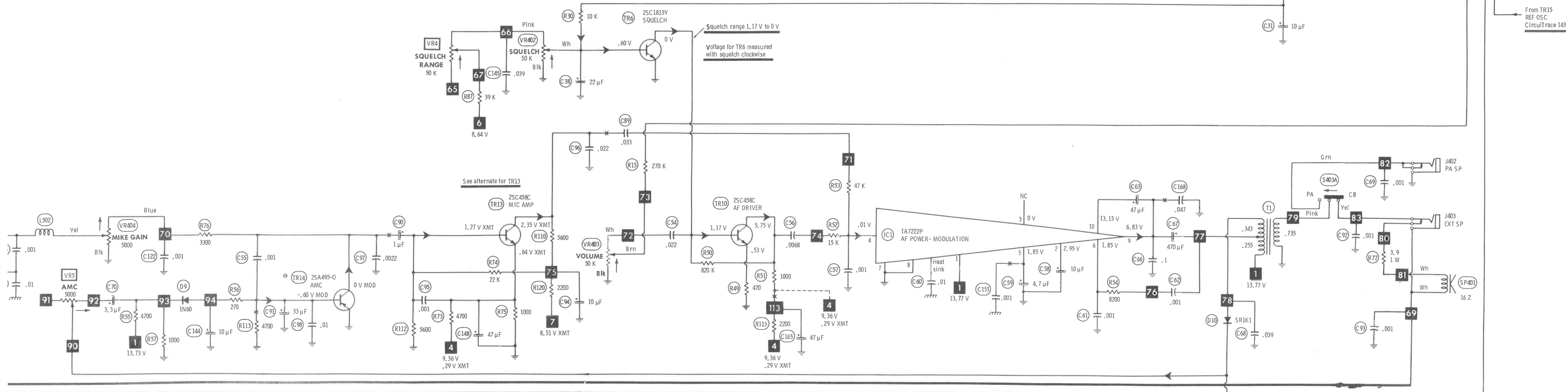
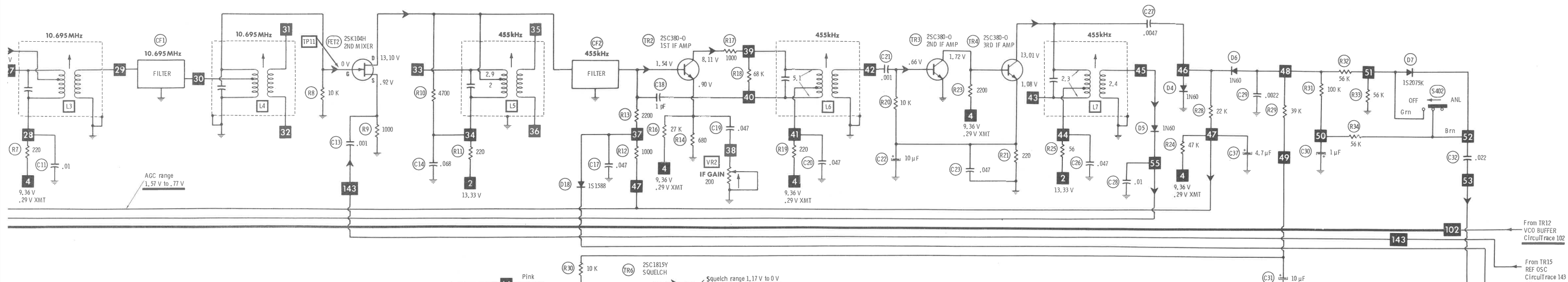
IC1
Front view

A PHOTOFACIT STANDARD NOTATION SCHEMATIC

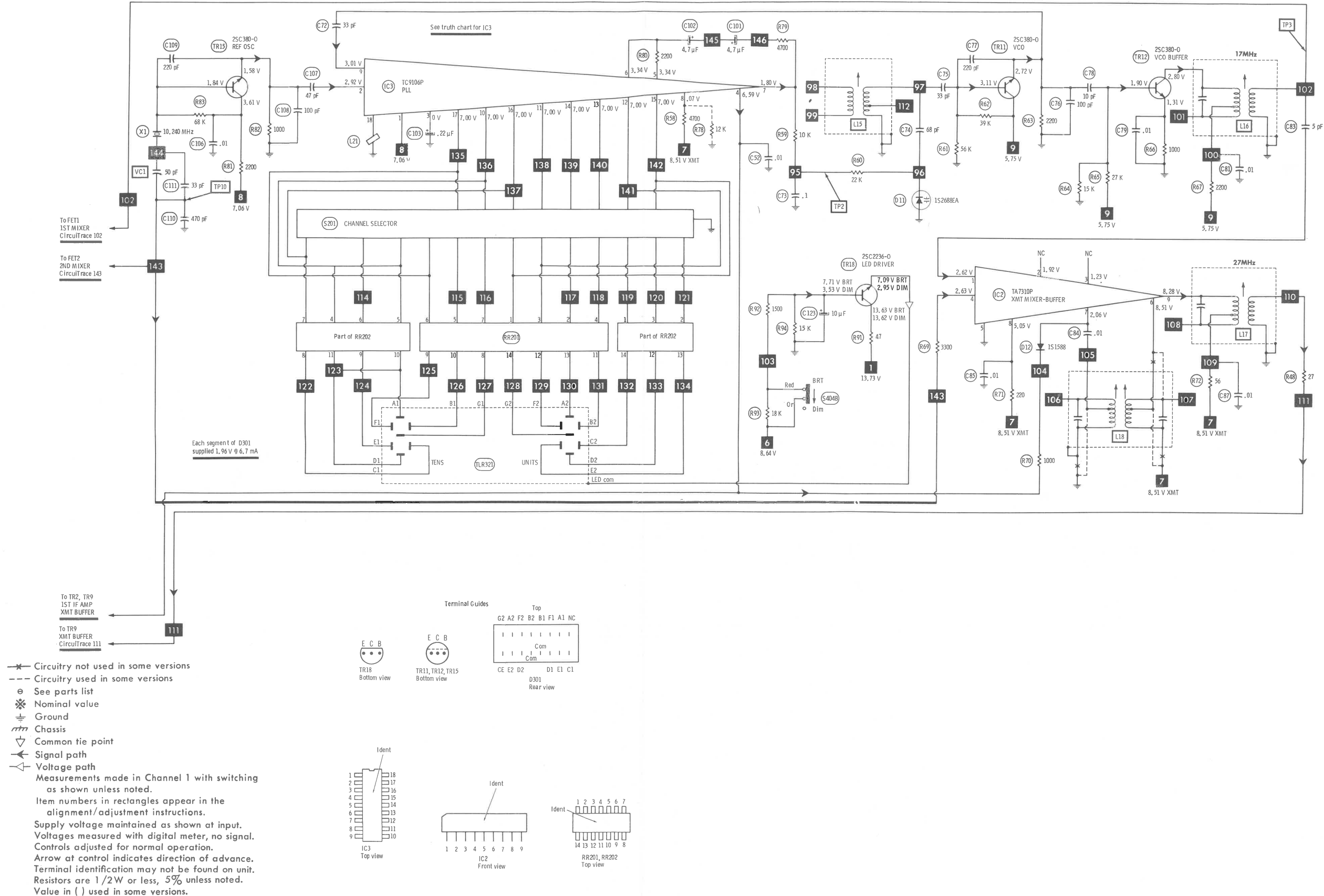
WITH **CIRCUITRACE®**

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Terminal Guide
E C B
TR19
Bottom view



PRESIDENT MODEL 1012001, ANDREW J.

SEMICONDUCTORS (Sel

ITEM No.	TYPE No.	MFG. PART No.
TR3	25C380-0 25C380 25C460 25C1684 25C930 25C1675	2000-228
TR4	25C380-0 25C380 25C460 25C1684 25C930 25C1675	2000-228
TR5	25C1815-0 25C1815 25C458 25C945 25C828 25C536 25C1359 25C1815V 25C1815 25C458 25C945 25C828 25C536 25C1359	2000-244
TR6	25C2075 25C2029 25C2092 25C1909 25C2091 25C2028 25C1957 25C495T 25C1846 25C1760 25C941-0 25C941TM-0 25C941TM 25C2076	2000-245
TR7	25C2075 25C2029 25C2092 25C1909 25C2091 25C2028 25C1957 25C495T 25C1846 25C1760	2000-249
TR8	25C2091 25C2028 25C1957 25C495T 25C1846 25C1760	2000-207
TR9	25C941-0 25C941TM-0 25C941TM 25C2076	2000-246
TR10	25C1364 25C933 25C2000 25C458C 25C458 25C945 25C545 25C828 25C536	2000-203
TR11	25C380-0 25C380 25C460 25C1684 25C930 25C1675	2000-228
TR12	25C380-0 25C380 25C460 25C1684 25C930 25C1675	2000-228
TR13	25C458C 25C458 25C945 25C545 25C828 25C536	2000-203
TR14	25A495-0 25A495TM-0 25A495TM 25A844 25A564 25A659 25A733	2000-250
TR15	25C380-0 25C380 25C1684 25C930 25C1675	2000-228

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.
TR16	2SA495-0	2000-250	GE-221*	PTC103*	HEPS0013*	REN 159*	SK3466	RT-303	ECG159*	2SA495	WEP495	ZEN-106
	2SA495TM-0		GE-221*	PTC103*	HEPS0013*	REN 159*	SK3466	RT-303	ECG159*	2SA495	WEP495	ZEN-106
	2SA495TM		GE-221*	PTC103*	HEPS0013*	REN 159*	SK3466	RT-303	ECG159*	2SA495	WEP495	ZEN-106
	2SA844		GE-244*	PTC103*	HEPS0019*	REN 129*	SK3114	RT-126A*	ECG129*		WEP60*	
	2SA564		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	2SA564	WEP564	121-879
TR17	2SA659	2000-248	GE-89	PTC103	HEPS0029	REN 159	SK3466	RT-103A	ECG159		WEP62	
	2SA733		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933
	2SC2236Y		GE-270	PTC180	HEPS3044	REN 295	SK3253		ECG295	2SC1018*	WEP913	200-767
	2SC2236		GE-270	PTC180	HEPS3044	REN 295	SK3253		ECG295	2SC1018*	WEP913	200-767
	2SC2028		GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295	2SC1018*	WEP913	200-767
TR18	2SC1957	2000-247	GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295	2SC496	WEP913	800-767
	2SC1846		GE-336	PTC904		REN 295	SK3253		ECG295	2SC1306	WEP785	
	2SC1974		GE-337	PTC186		REN 235	SK3197	RT-146	ECG235		WEP771	
	2SC1760		GE-276	PTC180		REN 306	SK3197	RT-310	ECG306		WEP913	
	2SC2091		GE-270	PTC180		REN 295	SK3253		ECG295		WEP913	
TR19	2SC2236-0	2000-244	GE-270	PTC180	HEPS3044	REN 295	SK3253		ECG295	2SC1018*	WEP913	200-767
	2SC2028		GE-270	PTC180	HEPS3044	REN 295	SK3253		ECG295	2SC1018*	WEP913	200-767
	2SC2091		GE-270	PTC180	HEPS3044	REN 295	SK3253		ECG295	2SC1018*	WEP913	200-767
	2SC1957		GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295	2SC496	WEP913	800-767
	2SC1846		GE-336	PTC904		REN 295	SK3253	RT-146	ECG235	2SC1306	WEP785	
TR19	2SC1974	2000-244	GE-337	PTC186		REN 235	SK3197	RT-310	ECG306		WEP771	
	2SC1760		GE-276	PTC180		REN 306	SK3197	RT-304	ECG199		WEP66	121-Z9000
	2SC1815-0		GE-62	PTC136*	HEPS0015*	REN 199	SK3245	RT-304	ECG199		WEP66	121-Z9000
	2SC1815		GE-62	PTC136*	HEPS0015*	REN 199	SK3245	RT-304	ECG199		WEP66	121-Z9000
	2SC458		GE-210*	PTC121*	HEPS0009*	REN 123A*	SK3122	RT-187	ECG289	2SC458	WEP458	121-Z9000*
TR19	2SC945	2000-244	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	2SC536		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP536	121-972
	2SC1359		GE-212	PTC121*	HEPS0014*	REN 199	SK3122	RT-308	ECG229*	2SC930	WEP66	121-Z9000
	2SC1684		GE-62*	PTC139*	HEPS0024*	REN 199*	SK3122*	RT-108A*	ECG199*	2SC735*	WEP66*	121-972
TR19	2SC903	2000-244	GE-220	PTC123	HEPS0014	REN 123A	SK3244	RT-102A	ECG287		WEP735A	ZEN-119

* Lead configuration may vary from original.

PRESIDENT MODEL 1012001, ANDREW J.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C2	4.7 25V	1800-304	PC5-50	VTT4R7B50	QV1-27	EV-1319
C22	10 25V	1800-605		TDC106M025FL	QDT1-64	SD25-109
C30	1 50V	1800-302	PC1-50	VTT1A50	QV1-11	EV-1615
C31	10 16V	1800-306	PC10-25	VTT10B25	QV1-41	EV-1222
C34	4.7 25V	1800-304	PC5-50	VTT4R7B50	QV1-27	EV-1319
C36	100 16V	1800-312	PC100-16	VTT100F16	QV1-95	EV-1230
C37	4.7 25V	1800-607		TDC475M010EL	QDT1-48	SD10-4R79
C38	22 10V	1800-331	PC25-25	VTT22B16	QV1-55	EV-1224
C58	10 16V	1800-306	PC10-25	VTT10B25	QV1-41	EV-1222
C59	4.7 25V	1800-607		TDC475M010EL	QDT1-48	SD10-4R79
C63	47 16V	1800-316	PC50-16	VTT47D16	QV1-73	EV-1226
C65	1000 16V	1800-328	PC1000-16	VTT1000L16	QV1-183	EV-1260
C67	470 16V	1800-309	PC500-16	VTT470K16	QV1-151	EV-1250
C70	3.3 25V	1800-334	PC5-50	VTT3R3A50	QV1-23	EV-1318
C82	47 10V	1800-324	PC50-16	VTT47D16	QV1-73	EV-1226
C88	47 10V	1800-324	PC50-16	VTT47D16	QV1-73	EV-1226
C90	1 50V	1800-302	PC1-50	VTT1A50	QV1-11	EV-1615
C91	33 16V	1800-307	PC30-25	VTT33D25	QV1-63	EV-1325
C94	10 16V	1800-306	PC10-25	VTT10B25	QV1-41	EV-1222
C99	4.7 25V	1800-304	PC5-50	VTT4R7B50	QV1-27	EV-1319
C101	4.7 25V	1800-607		TDC475M010EL	QDT1-48	SD10-4R79
C102	4.7 25V	1800-607		TDC475M010EL	QDT1-48	SD10-4R79
C103	.22 16V	1800-502		TDC224M050EL	QDT1-10	SD50-R229
C104	470 10V	1800-327	PC500-16	VTT470K16	QV1-149	EV-1150
C114	47 10V	1800-324	PC50-16	VTT47D16	QV1-73	EV-1226
C116	220 10V	1800-325	PC250-10	VTT220F10	QV1-115	EV-1140
C118	470 10V	1800-327	PC500-16	VTT470K16	QV1-149	EV-1150
C119	220 16V	1800-308	PC250-25	VTT220H16	QV1-117	EV-1240
C123	10 16V	1800-306	PC10-25	VTT10B25	QV1-41	EV-1222
C143	220 16V	1800-308	PC250-25	VTT220H16	QV1-117	EV-1240
C144	10 16V	1800-306	PC10-25	VTT10B25	QV1-41	EV-1222
C148	47 10V	1800-324	PC50-16	VTT47D16	QV1-73	EV-1226
C165	47 10V	1800-324	PC50-16	VTT47D16	QV1-73	EV-1226
C167	47 10V	1800-324	PC50-16	VTT47D16	QV1-73	EV-1226

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE:	GENERAL LINE
C1	22 N220 50V	1800-062			*		10TCR-Q22
C3	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C4	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C5	220 50V		DD-221		GP322		10TS-T22
C6	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C7	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C8	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C9	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C10	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C11	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C13	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C14	.068 50V			WMF1S68	EWFA168	QF1-195	1PB-S68
C17	.047 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C18	1 NPO 50V				CN0510		10TCC-V10
C19	.047 50V			DPMS2S47	EWFA1A47	QF1-171	1PB-S47
C20	.047 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C21	.001 50V			DPMS6D1	EWFA210	QF1-1	1PB-D10
C23	.047 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C24	.047 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C25	.047 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C26	.047 50V			DPMS2S47	EWFA1A47	QF1-171	1PB-S47
C27	.0047 50V			WMF1D47	EWFA247	QF1-57	1PB-D47
C28	.01 50V			WMF1S1	EWFA110	QF1-91	1PB-S10
C29	.0022 50V			DPMS6D22	EWFA222		6PS-D22
C32	.022 50V			DPMS2S22	EWFA1A22	QF1-127	1PB-S22
C33	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C35	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C39	.047 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C40	68 N220 50V	1800-060			*		10TCR-Q68
C41	330 50V		DD-331	GP330	GP333		10TS-T33
C42	330 50V		DD-331	GP330	GP333		10TS-T33
C43	.039 50V				GP140		5GA-S40
C44	.0047 50V			GP4700	GP247		5GA-D47
C45	56 50V		DD-560		GP456		10TS-Q56
C46	250 50V		DD-271	GP270	GP327		10TS-T27
C47	.039 50V				GP140		5GA-S40
C48	.039 50V				GP140		5GA-S40
C49	.01 50V			MGP01	TA110	QC2-141	TG-S10
C50	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C51	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C52	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C53	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C54	.022 50V			DPMS2S22	EWFA1A22	QF1-127	1PB-S22
C55	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C56	.0068 50V			WMF1D68	EWFA268	QF1-73	1PB-D68
C57	.001 50V			DPMS6D1	EWFA210	QF1-1	1PB-D10
C60	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C61	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C62	.001 50V			DPMS6D1	EWFA210	QF1-1	1PB-D10
C64	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C66	.1 25V			UK25-104	MAG2501	HY-750	
C68	.039 50V				GP140		5GA-S40
C69	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C71	.04 50V				GP140		5GA-S40
C72	33 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C73	.1 50V			DPMS2P1	EWFA010	QF1-215	1PB-P10
C74	68 N750 50V		DTN-68	N68	CN7468		10TCU-Q68
C75	33 N220 50V	1800-125			*		10TCR-Q33
C76	100 N750 50V		DTN-100	N100	CN7310		10TCU-T10
C77	220 N750 50V		DTN-220	N220	CN7322		10TCU-T22
C78	10 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C79	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C80	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C81	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C83	5 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C84	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C85	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C86	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C87	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C89	.033 50V			DPMS6S33	EWFA133		6PS-S33
C92	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C93	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C95	.001 50V			DPMS6D1	EWFA210	QF1-1	1PB-D10
C96	.022 50V			DPMS2S22	EWFA1A22	QF1-127	1PB-S22
C97	.0022 25V		DD-222		GP222	QC2-97	5GA-D22
C98	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C100	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C105	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C106	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C107	48 50V		DTZ-47	NP047	CN0447		TG-S10
C108	100 N220 50V	1800-009			*		10TCC-Q47
C109	220 N220 50V	1800-098			*		10TCR-T10
C110	470 50V		DD-471	GP470	GP347		10TCR-T22
C111	33 NPO 50V		DTZ-33	NP033	CN0433		10TS-T47
C112	.047 50V		DC-503	MGP05	TA150	QC2-207	10TCC-Q33
C113	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S50
C115	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C117	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C120	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C121	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C122	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C124	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C125	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C126	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10

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
C127	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C128	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C129	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C130	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C131	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C132	.047 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C133	.01 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C134	.047 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C135	.01 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C142	2 NPO 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C145	.039 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C146	.01 50V				GP140		5GA-S40
C150	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C151	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C152	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C153	.001 50V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C166	330 50V		DD-331	GP330	GP333		10TS-T33
C168	.047 50V		DC-503	MGP05	TA150	QC2-207	TG-S50
C401	33 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C402	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C403	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C501	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C502	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C503	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C504	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
VC1	50 50V	1800-205					

*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.
VR1	Sig	20K	1900-204			U260R253B
VR2	IF Gain	200	1900-226			
VR3	TX Power	20K	1900-204			U260R253B
VR4	Squelch Range	50K	1900-202			U260R503B
VR5	AMC	5000	1900-201			U260R502B
VR401	RF Gain	1000	1900-130			
VR402	Squelch	50K	1900-129			
VR403	Volume/Power Switch	50K	1900-128			
VR404	Mic Gain	5000	1900-131			

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.
RR201	Resistor Network		1900-402(1)	R202	Resistor Network		1900-402(1)

(1) Consists of seven 680 resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Rec. Ant (27MHz)	2200-001	LA029	CBS740-T	
L2	Rec. RF (27MHz)	2200-082	LA138		
L3	IF (10.695MHz)	2200-004	LA181		
L4	IF (10.695MHz)	2200-004	LA181		
L5	IF (455kHz)	2200-081	LA106	8517	
L6	IF (455kHz)	2200-048	LA204		
L7	IF (455kHz)	2200-086	LA276		
L8	RF Choke	2200-087	LE089		
L9	RF Choke	2200-088	LE088		
L10	Final (27MHz)	2200-034	LC019		
L11	RF Choke	2200-017	LD012	CB305	
L13	RF Choke	2200-020	LC018	4588	
L14	XMT Buffer (27MHz)	2200-085	LA208	CB304	
L15	VCO (17MHz)	2200-083	LA165		
L16	VCO Buffer (17MHz)	2200-047	LA201		
L17	XMT Buffer (27MHz)	2200-084	LA088	CBS717-TC	
L18	XMT Mixer (27MHz)	2200-045	LA198		
L20	RF Choke	2200-020	LC018	CB304	
L501	RF Choke	2200-019	LD083		
L502	RF Choke	2200-019	LD083		

PRESIDENT MODEL 1012001, ANDREW J.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	950mA	.8	.86mH	2300-001 TF-083(1)	TR507		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	8	8	2600-008 TF-129(1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP401	4" PM 16 ohms	3100-008 10P03G(1)	4A1Z16	(1) Number on unit.

FUSE DEVICES

FUSE DEVICES		REPLACEMENT DATA						
ITEM No.	DESCRIPTION	PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F401	2Amp		2700-001	AGC2	HDJ	312002	150145	FG2-2

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFR. 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	3200-005	18-032	18-034	18-010	18-092	2	1	3	4	NC	1

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Ceramic Filter	2200-301	10.695MHz
CF2	Ceramic Filter	2200-307	455kHz
D301	LED	2000-306	Channel Display (TLR321)
D401	LED	2000-343	TX/RX (TLRG101)
J401	Jack	1100-002	Antenna
J402	Jack	1100-021	PA
J403	Jack	1100-021	EXT SP
J405	Jack	1100-003	Power
J501	Jack	1100-004	Microphone
L12	Ferrite Bead	2200-052	LC018
L21	Ferrite Bead	2200-103	LD077
L401	Ferrite Bead	2200-101	LD088
M401	Meter	2900-001	S/Rf
PL401	Lamp		Meter (11.76V @ 34mA)
S201	Switch	3000-112	Channel Selector
S402	Switch	3000-009	ANL
S403	Switch	3000-009	CB/PA
S404	Switch	3000-009	Dim
X1	Crystal	2100-013	10.240MHz
	PC Board	3500-030	Channel Switch
	PC Board	3500-031	LED
	PC Board	3500-032	MIC

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Top	3300-118	Knob, Control	1300-002
Cabinet, Bottom	3300-119	Knob, Pushswitch	1300-003
Mounting Bracket	3300-210	Escutcheon	3300-512
Microphone Hanger	3300-401	Display Window	3400-109
Knob, Channel Selector	1300-001		