

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 MARK IX

MANUFACTURER'S SPECIFICATIONS

TRANSMITTER SECTION

CIRCUIT TYPE	Phase-lock loop
POWER OUTPUT	4Watt max.
EMISSION	6A3
SPURIOUS RESPONSE REJECTION	All harmonic and spurious suppression, greater than FCC and D.O.C. requirements
OCCUPIED BANDWIDTH	6 KHz
MODULATION	AM 90%-100% Typical
R.F. POWER AMPLIFIER	6DG6 Beam Power pentode

RECEIVER SECTION

CIRCUIT TYPE	Dual conversion superheterodyne with R.F. stage and 455 KHz ceramic filter
FREQUENCY	40 channel phase lock system 26,965-27.405 MHz.
SENSITIVITY	0.5 μ V for 10dB S/N
SQUELCH RANGE	0-1mV
SELECTIVITY	70-dB down at $\pm$ 10 KHz
IF FREQUENCY	1st IF: 10.695 MHz 2nd IF: 455 KHz
IMAGE REJECTION	55 dB
AUDIO OUTPUT	6w maximum at 8-ohm load
ANTENNA INPUT IMPEDANCE	Nominal 50-ohms impedance
POWER SOURCE	Operates from 117V 60Hz A.C.
DIMENSIONS (OVERALL)	19"w x 9"h x 12"d
WEIGHT:	30 lbs.

DAK MODEL MARK IX

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 R407 for 13.8 volts at TP16 (P507). 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 thru L104, L301 thru L306, L401 thru L404..... 9440
 L105, L106, L107..... 5000, 5009, 8276, 8728, 9089
 L307, L308..... 8728, 9304, 9089
 L703..... 8282, 8606, 9302, 9440
 C402, C427, C714, C715..... 5000, 8276, 9089

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope to TP3 (P401).	Ch. 19	L401	Adjust for maximum RF (120mV p-p typical). (See Figure 2.)
Input of frequency counter to TP3 (P401).	Ch. 19 Delta Tune Midrange	C402 RV402A	Adjust for 10.240MHz.
Input of DC meter to TP1 (Junction of R410 and R411).	Ch. 40 XMT Stand By	L403	Adjust for 7.00 volts. Check for approx. 3.30 volts on channel 1.
Input of frequency counter to TP11 (IC401 Pin 5).	Ch. 19 Delta Tune Midrange		Check for 5.120MHz.
Input of frequency counter to TP12 (Q406 Base).	Ch. 19 XMT Stand By		Check for 5.211MHz.
Input of oscilloscope to TP13 (IC401 Pin 2).	Ch. 19	L404	Adjust for maximum RF (5.5V p-p typical). (See Figure 3.)
Input of frequency counter to TP13 (IC401 Pin 2).	Ch. 1 Delta Tune Midrange		Check for .910MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP14 (Junction of L301 and R301).	Ch. 19	L301	Adjust for maximum RF (300mV p-p typical). (See Figure 4.)
Input of frequency counter to TP2 (P408).	Ch. 1 Delta Tune Midrange		Check for 16.270MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP15 (Q402 Emitter).	Ch. 19 XMT Stand By	C427A	Adjust for 10.422MHz.
Input of frequency counter to TP2 (P408).	Ch. 1 XMT Stand By		Check for 16.543MHz. If necessary readjust C427 for correct frequency. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to antenna input.	Ch. 1 XMT	RV402B	Adjust for 26.965MHz. If necessary readjust C427 for correct frequency. Check all channels. See page 4 for channel frequencies.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Set generator output low enough to prevent AGC limiting. Preset controls as follows, unless otherwise noted: RF Gain Maximum, Delta Tune Midrange, Squelch MINIMUM, Noise Blanker Off, ANL Off

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP16 (Q105 Source). 455kHz,1000Hz @ 30% modulation.	Ch. 19	L107,L106, L105	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz,1000Hz @ 30% modulation.	Ch. 19	L104,L103, L102,L101	Adjust for maximum output. Readjust L105, L106 and L107 for maximum.

DAK MODEL MARK IX

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Preset controls as follows, unless otherwise noted:
RF Gain Maximum, Delta Tune Midrange, Squelch MINIMUM, Noise Blanker Off, ANL Off

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.185MHz,1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 Squelch Maximum	RV101	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna input. 27.185MHz,1000Hz @ 30% modulation. Output 100uV.	Ch. 19	RV102	SIGNAL STRENGTH METER Adjust for 9 on Signal Strength Meter.

TRANSMITTER ALIGNMENT

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input.	Ch. 19, XMT	L402,L302, L303,L304, L305,L306 L307,L308	Adjust for maximum RF output.
Input of RF wattmeter to antenna input.	Ch. 19 XMT	C714	Adjust for 4.0 watts RF output.
Input of RF wattmeter to antenna input.	Ch. 19 XMT	C715,L703	Adjust for maximum RF output. Readjust C714 for 4.0 watts RF output maximum.

TRANSMITTER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input.	Ch. 19 XMT Meter Switch Plate Current Stand By Transmit	RV602	PLATE CURRENT METER At 4.0 watts RF output, adjust for 80mA on Plate Current scale of meter.
Input of RF wattmeter to antenna input.	Ch. 19 XMT Meter Switch RF Power	RV603	RF OUTPUT POWER METER At 4.0 watts RF output, adjust so RF power meter agrees with RF wattmeter.
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz audio signal at Mic input.	Ch. 19 XMT Mic Gain Maximum Stand By Transmit	RV701	% MODULATION METER Set generator output level to produce 100% modulation. Adjust RV701 for 100 on % modulation meter.
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz, 100mV audio signal at Mic input.	Ch. 19 XMT Mic Gain Maximum	RV202	ALC Adjust for 100% modulation maximum. (See Figure 1.)

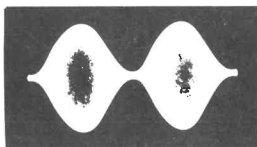


FIG. 1

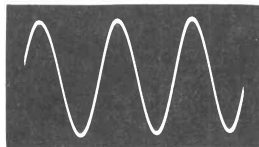


FIG. 2

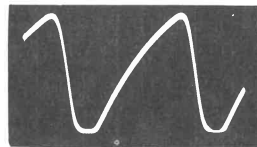


FIG. 3

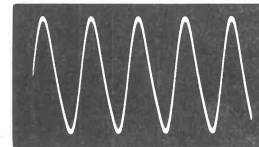


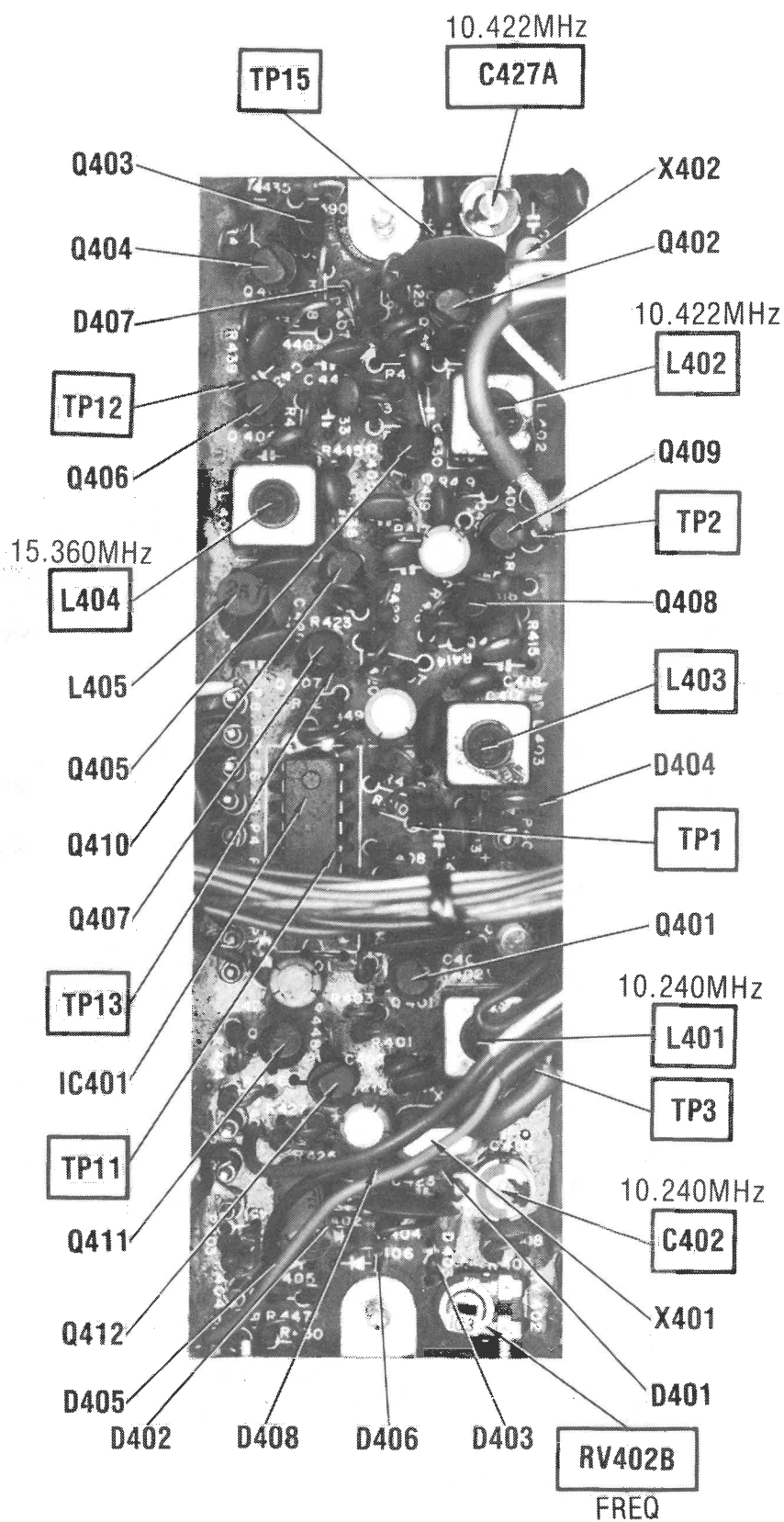
FIG. 4

TRUTH CHART

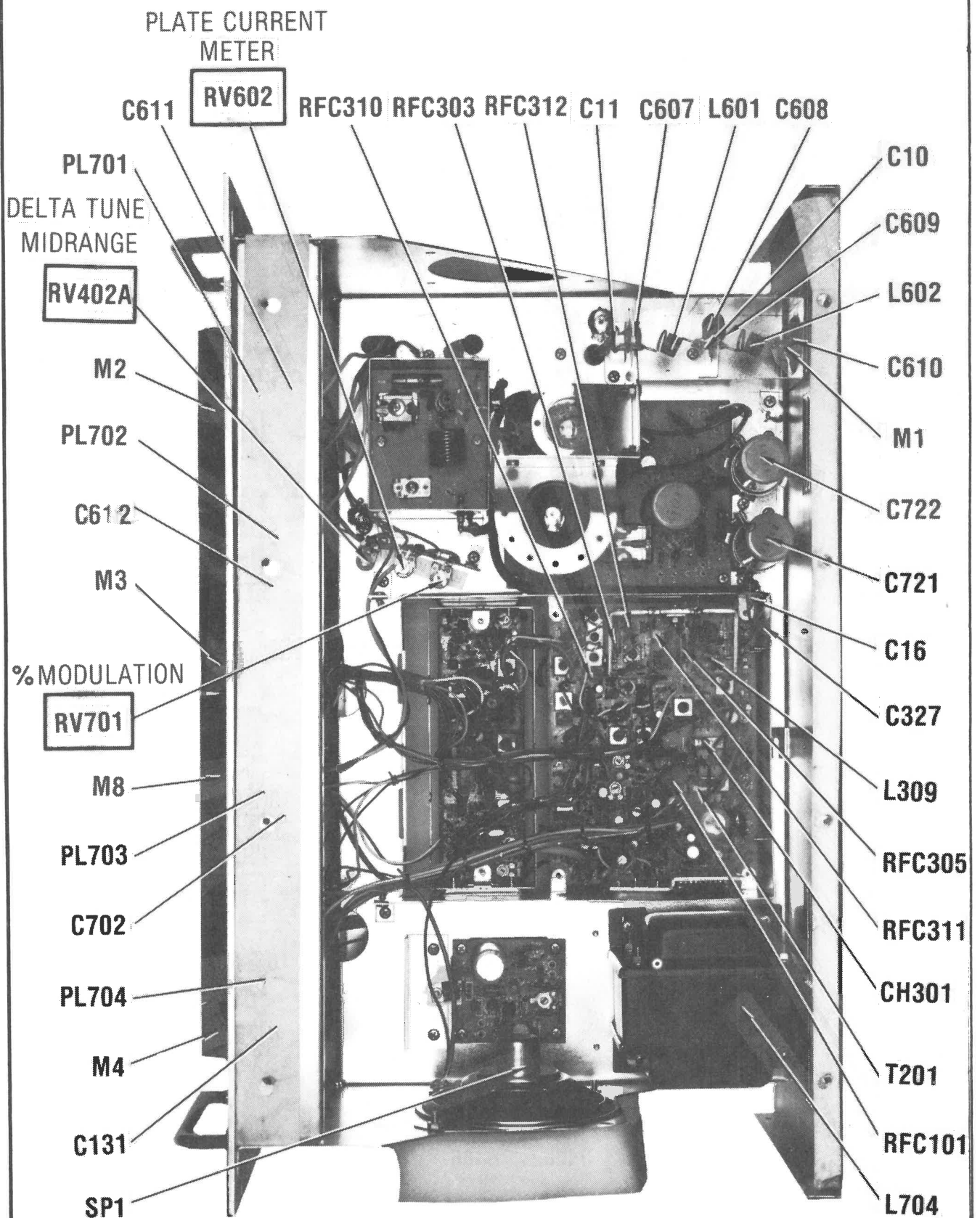
C H A N N E L	1 = 8.15 Volts 0 = 0 Volts								Rec/XMT DIVIDER INPUT IN MHz AT TP13	Rec VCO OUTPUT IN MHz AT TP2	XMT VCO OUTPUT IN MHz AT TP2
	CHANNEL INPUT CODES										
	IC401										
	PINS										
	10	11	12	13	14	15	16	17			
1	0	1	0	1	1	0	1	1	.910	16.270	16.543
2	0	1	0	1	1	1	0	0	.920	16.280	16.553
3	0	1	0	1	1	1	0	1	.930	16.290	16.563
4	0	1	0	1	1	1	1	1	.950	16.310	16.583
5	0	1	1	0	0	0	0	0	.960	16.320	16.593
6	0	1	1	0	0	0	0	1	.970	16.330	16.603
7	0	1	1	0	0	0	1	0	.980	16.340	16.613
8	0	1	1	0	0	1	0	0	1.000	16.360	16.633
9	0	1	1	0	0	1	0	1	1.010	16.370	16.643
10	0	1	1	0	0	1	1	0	1.020	16.380	16.653
11	0	1	1	0	0	1	1	1	1.030	16.390	16.663
12	0	1	1	0	1	0	0	1	1.050	16.410	16.683
13	0	1	1	0	1	0	1	0	1.060	16.420	16.693
14	0	1	1	0	1	0	1	1	1.070	16.430	16.703
15	0	1	1	0	1	1	0	0	1.080	16.440	16.713
16	0	1	1	0	1	1	1	0	1.100	16.460	16.733
17	0	1	1	0	1	1	1	1	1.110	16.470	16.743
18	0	1	1	1	0	0	0	0	1.120	16.480	16.753
19	0	1	1	1	0	0	0	1	1.130	16.490	16.763
20	0	1	1	1	0	0	1	1	1.150	16.510	16.783
21	0	1	1	1	0	1	0	0	1.160	16.520	16.793
22	0	1	1	1	0	1	0	1	1.170	16.530	16.803
23	0	1	1	1	1	0	0	0	1.200	16.560	16.833
24	0	1	1	1	0	1	1	0	1.180	16.540	16.813
25	0	1	1	1	0	1	1	1	1.190	16.550	16.823
26	0	1	1	1	1	0	0	1	1.210	16.570	16.843
27	0	1	1	1	1	0	1	0	1.220	16.580	16.853
28	0	1	1	1	1	0	1	1	1.230	16.590	16.863
29	0	1	1	1	1	1	0	0	1.240	16.600	16.873
30	0	1	1	1	1	1	0	1	1.250	16.610	16.883
31	0	1	1	1	1	1	1	0	1.260	16.620	16.893
32	0	1	1	1	1	1	1	1	1.270	16.630	16.903
33	1	0	0	0	0	0	0	0	1.280	16.640	16.913
34	1	0	0	0	0	0	0	1	1.290	16.650	16.923
35	1	0	0	0	0	0	1	0	1.300	16.660	16.933
36	1	0	0	0	0	0	1	1	1.310	16.670	16.943
37	1	0	0	0	0	1	0	0	1.320	16.680	16.953
38	1	0	0	0	0	1	0	1	1.330	16.690	16.963
39	1	0	0	0	0	1	1	0	1.340	16.700	16.973
40	1	0	0	0	0	1	1	1	1.350	16.710	16.983

DAK MODEL MARK IX

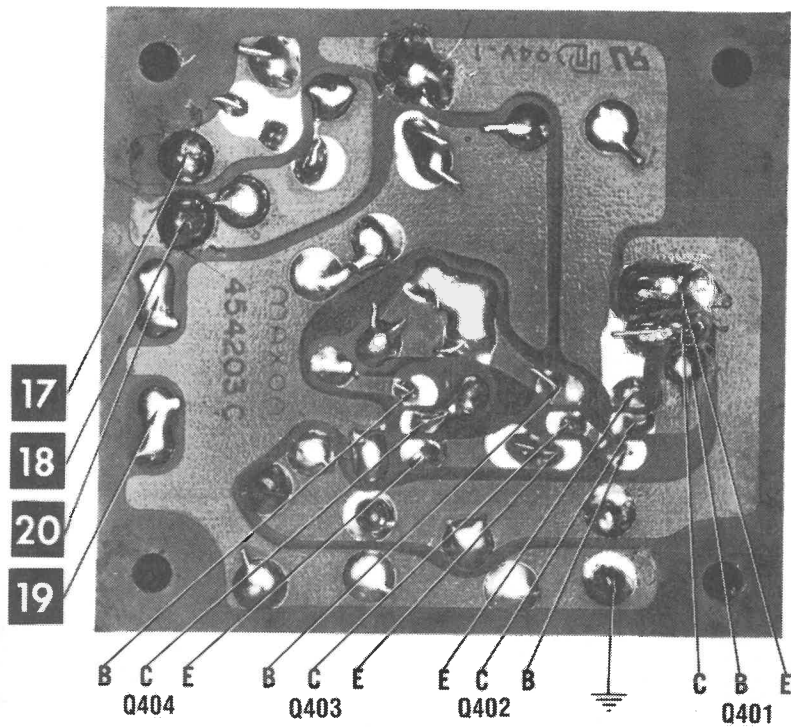




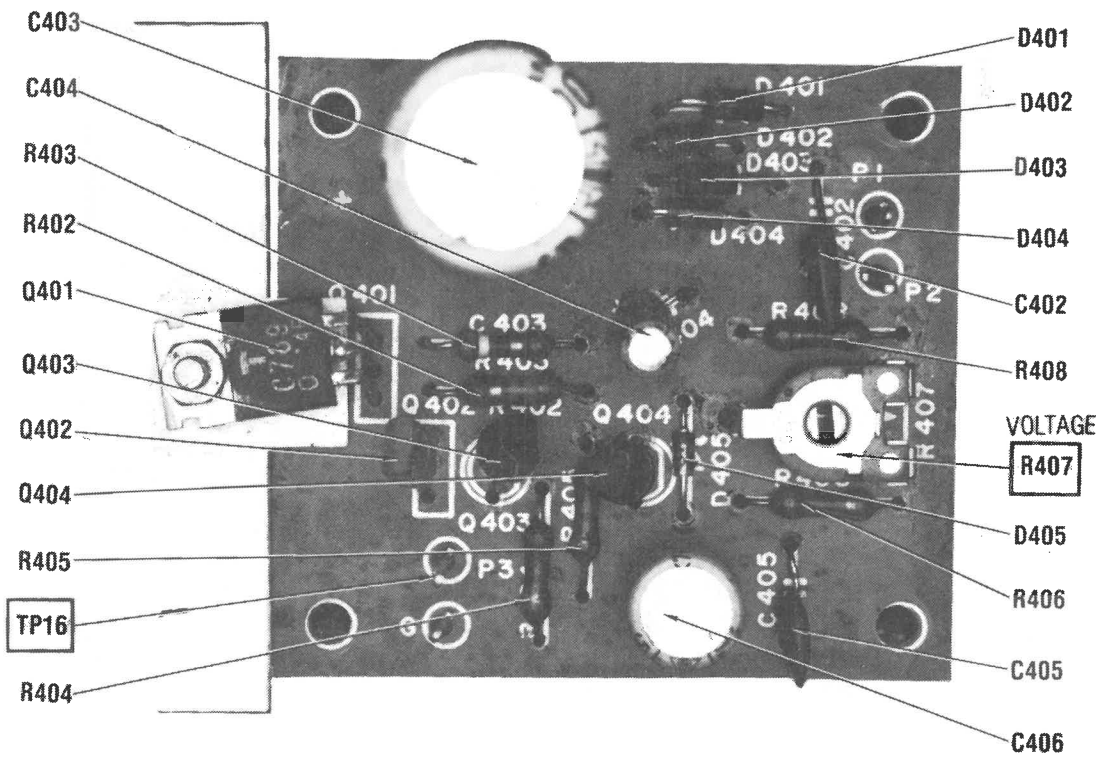
PLL BOARD



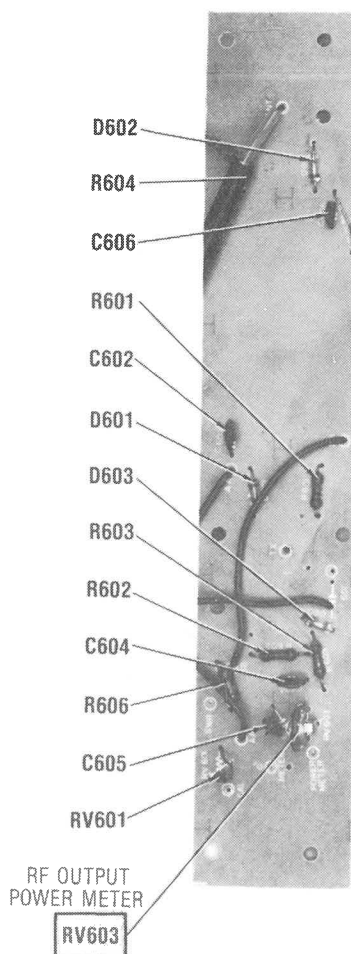
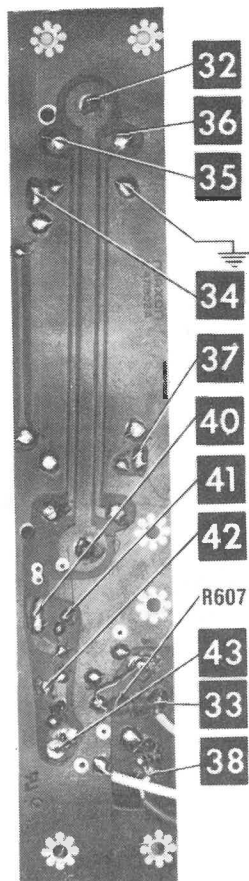
CHASSIS-TOP



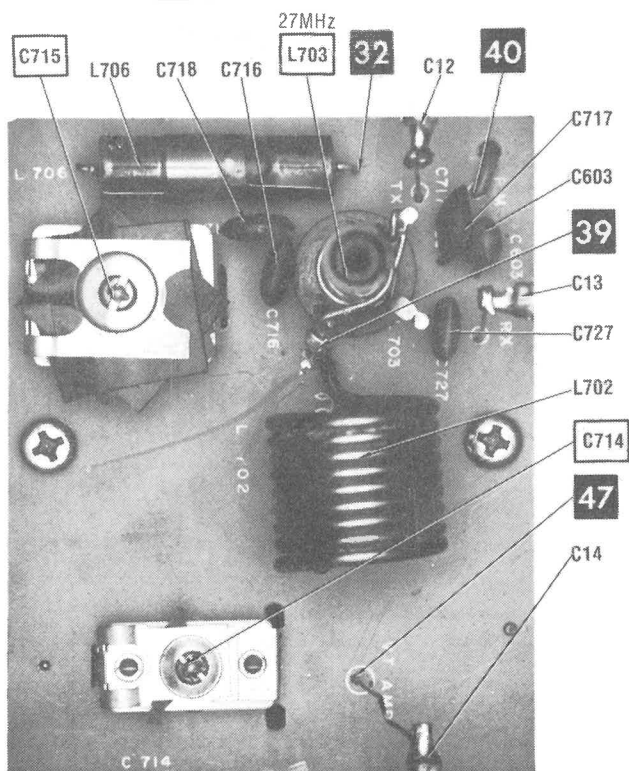
DAK MODEL MARK IX



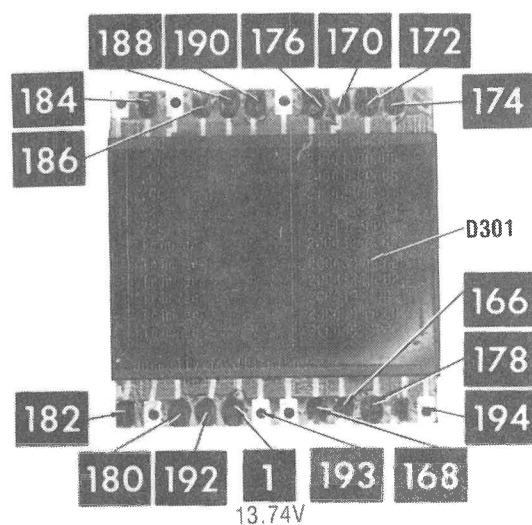
POWER SUPPLY BOARD



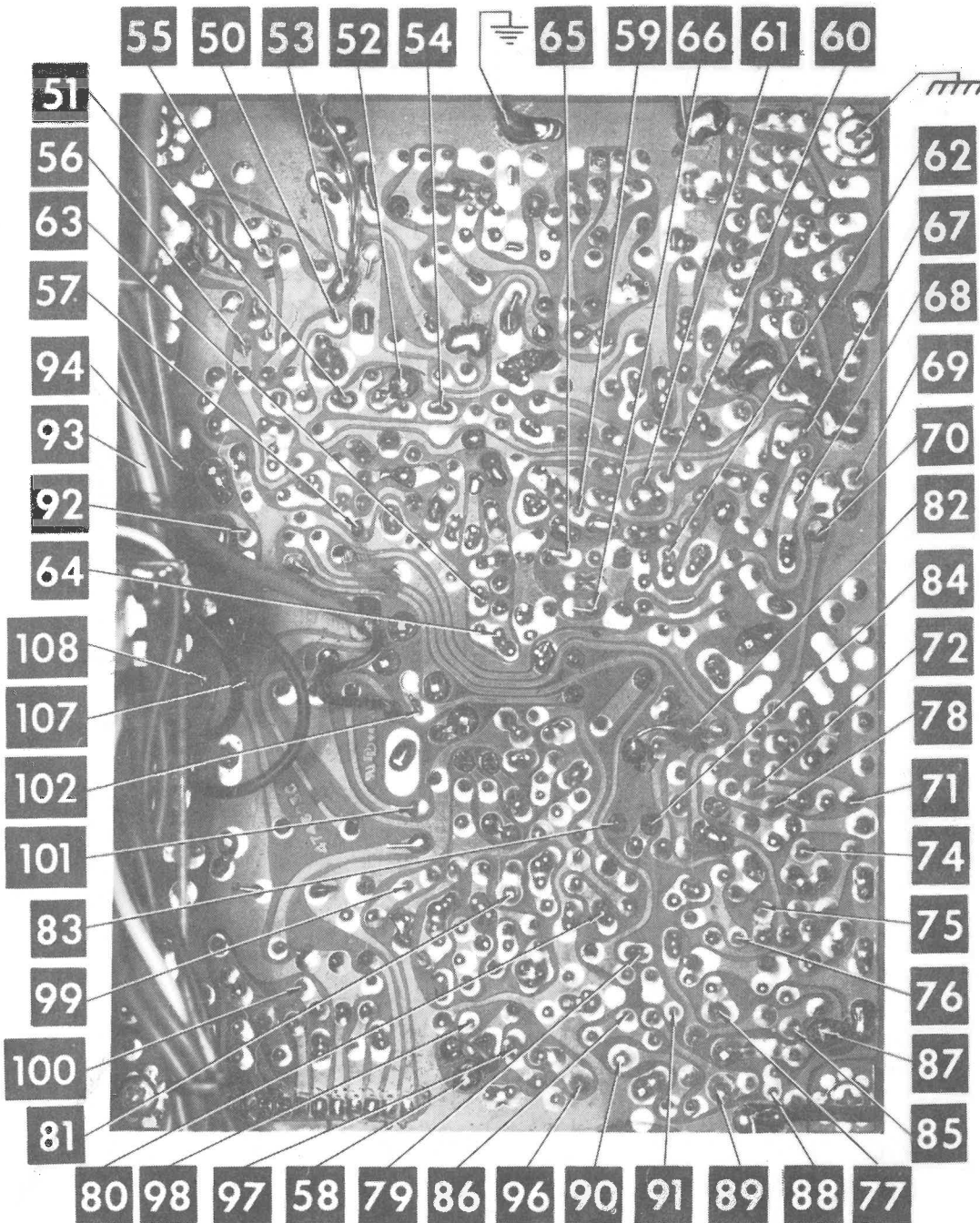
SWR BOARD



FILTER BOARD

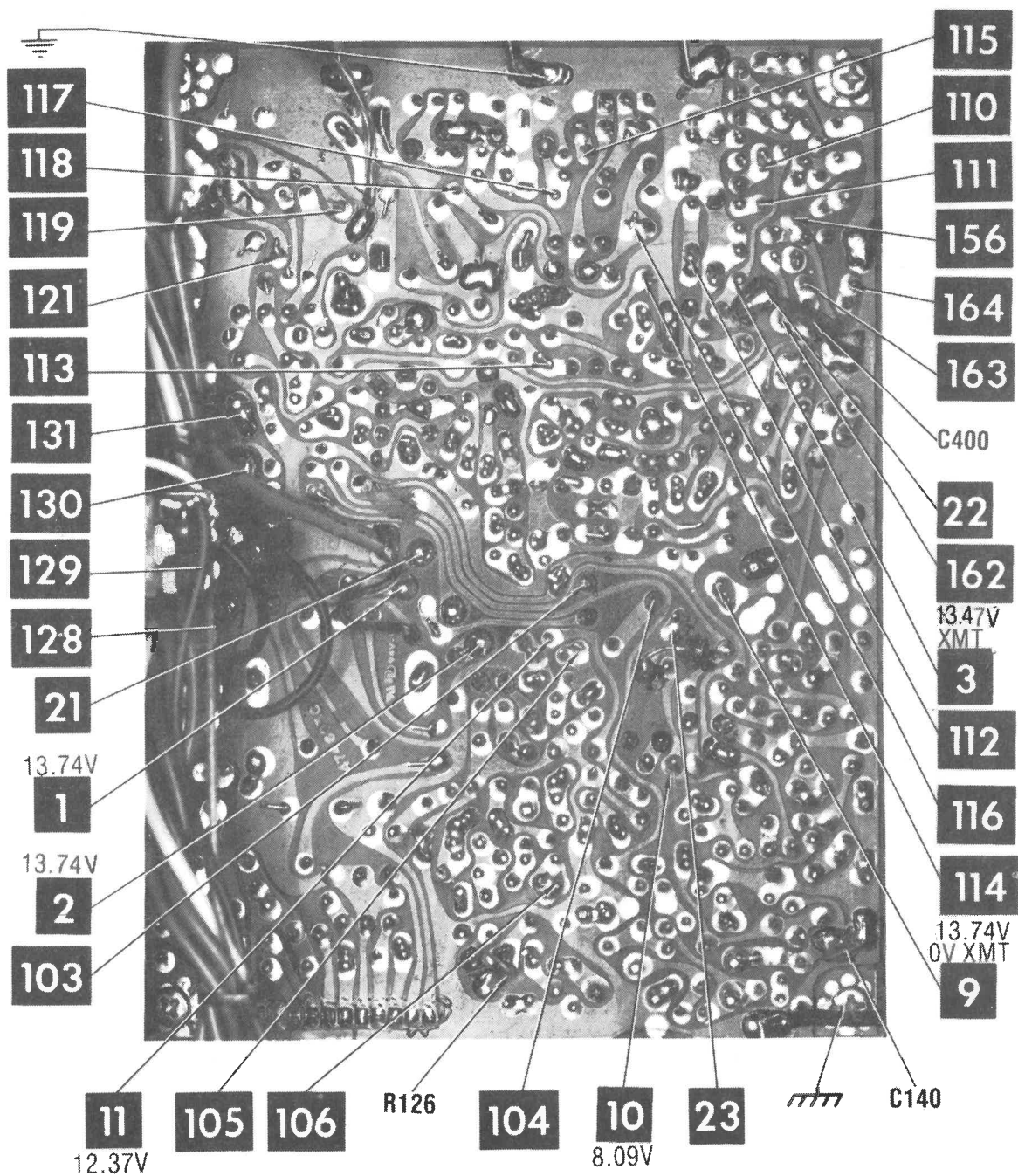


LED BOARD



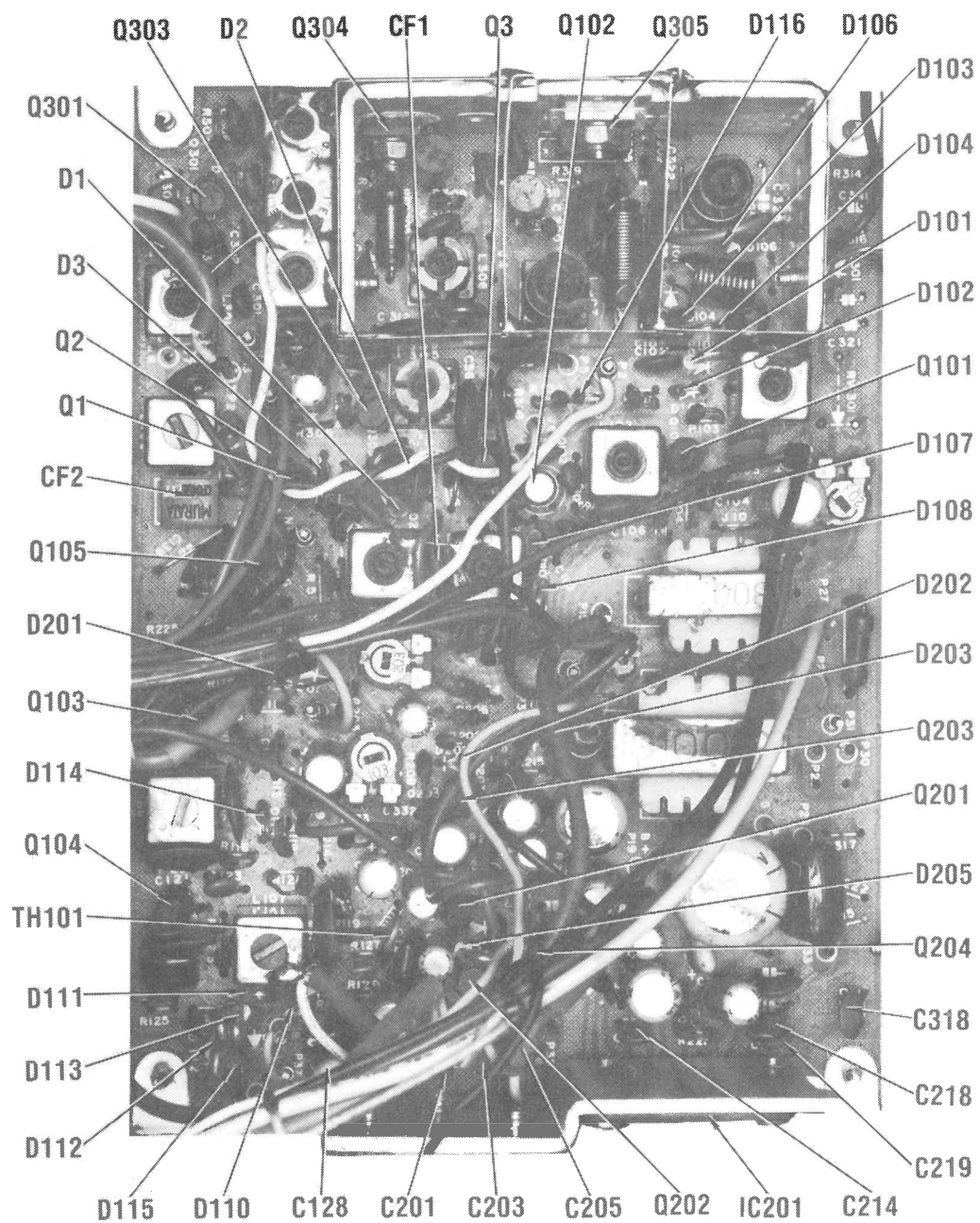
DAK MODEL MARK IX

MAIN BOARD

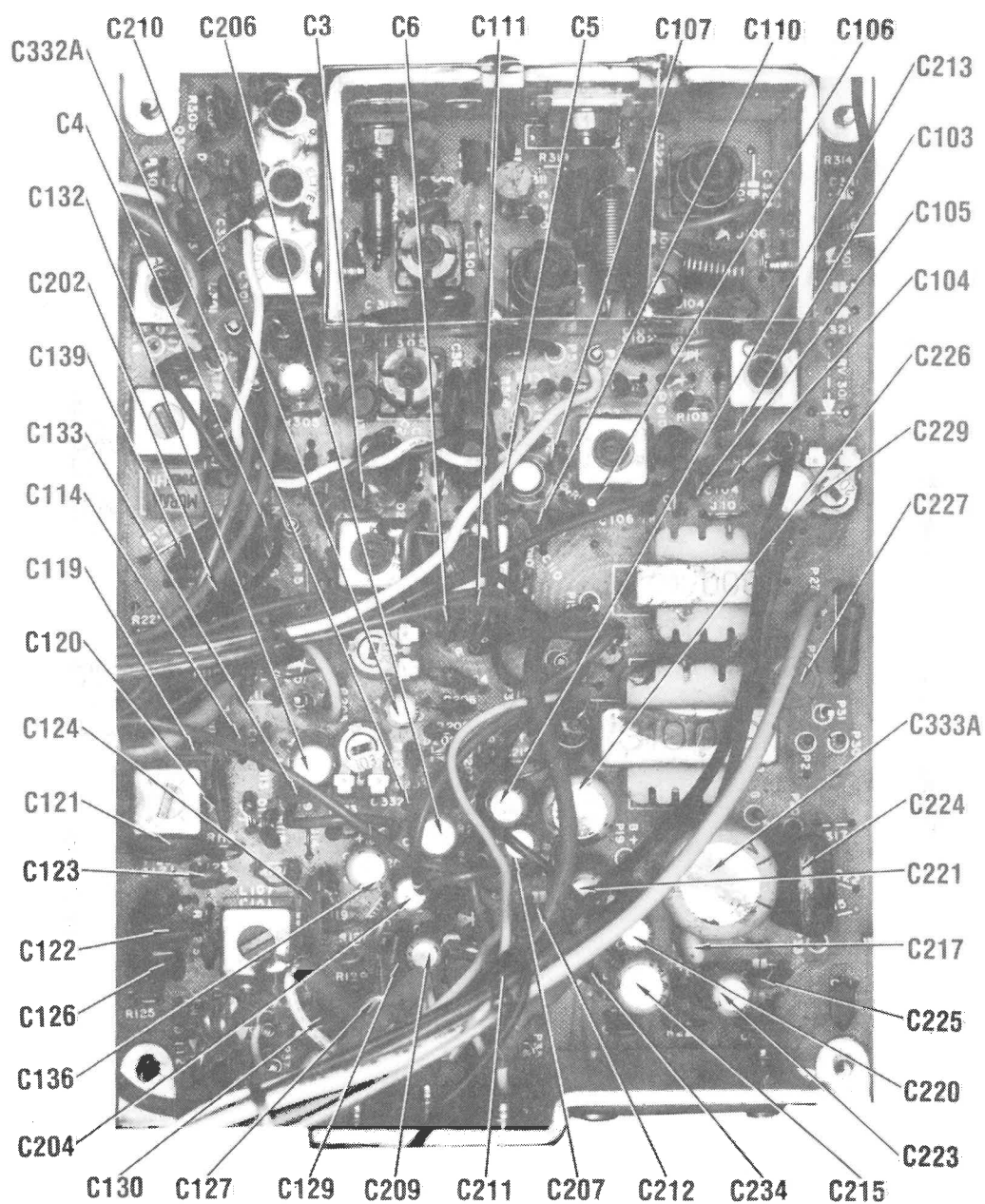


MAIN BOARD

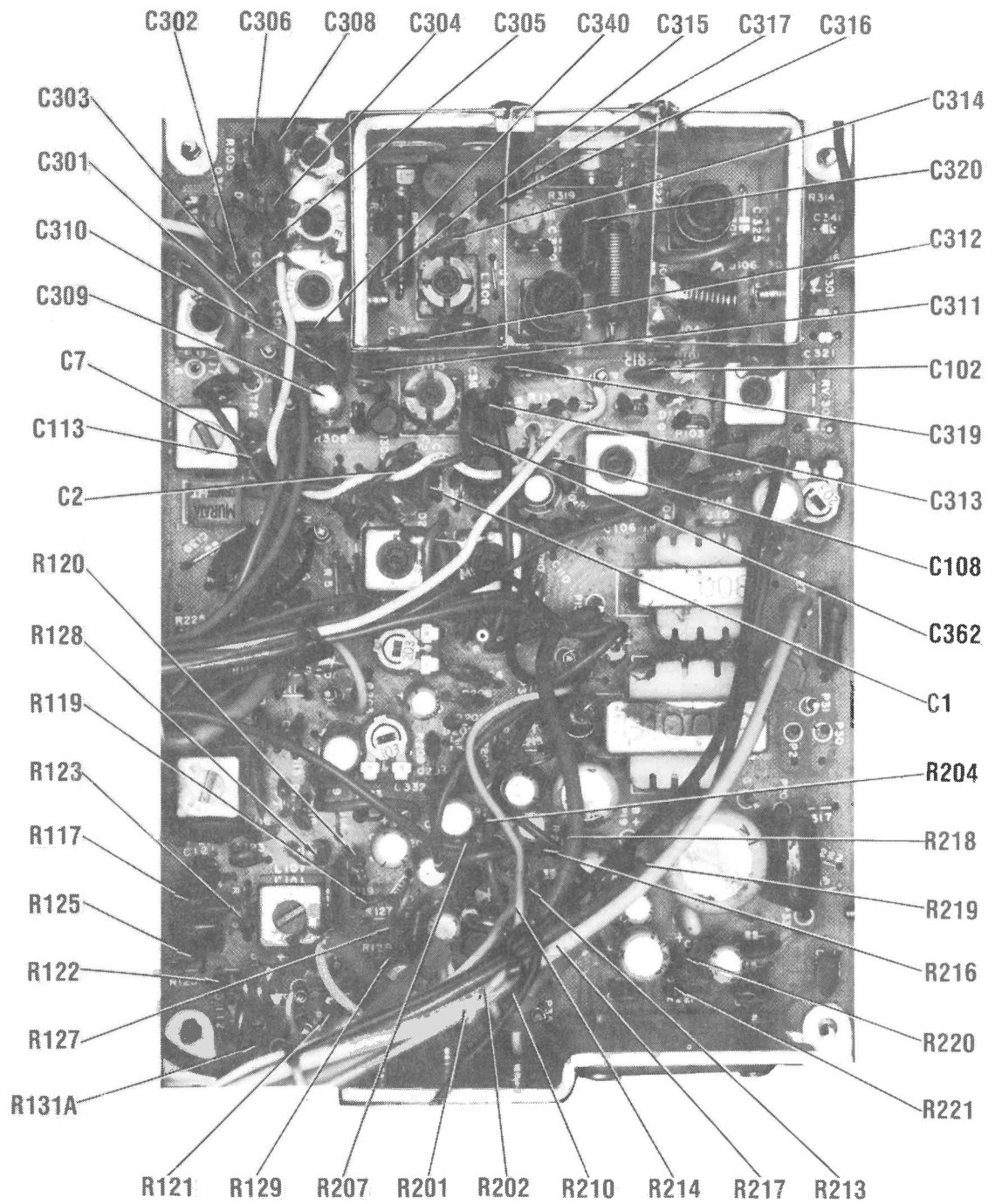




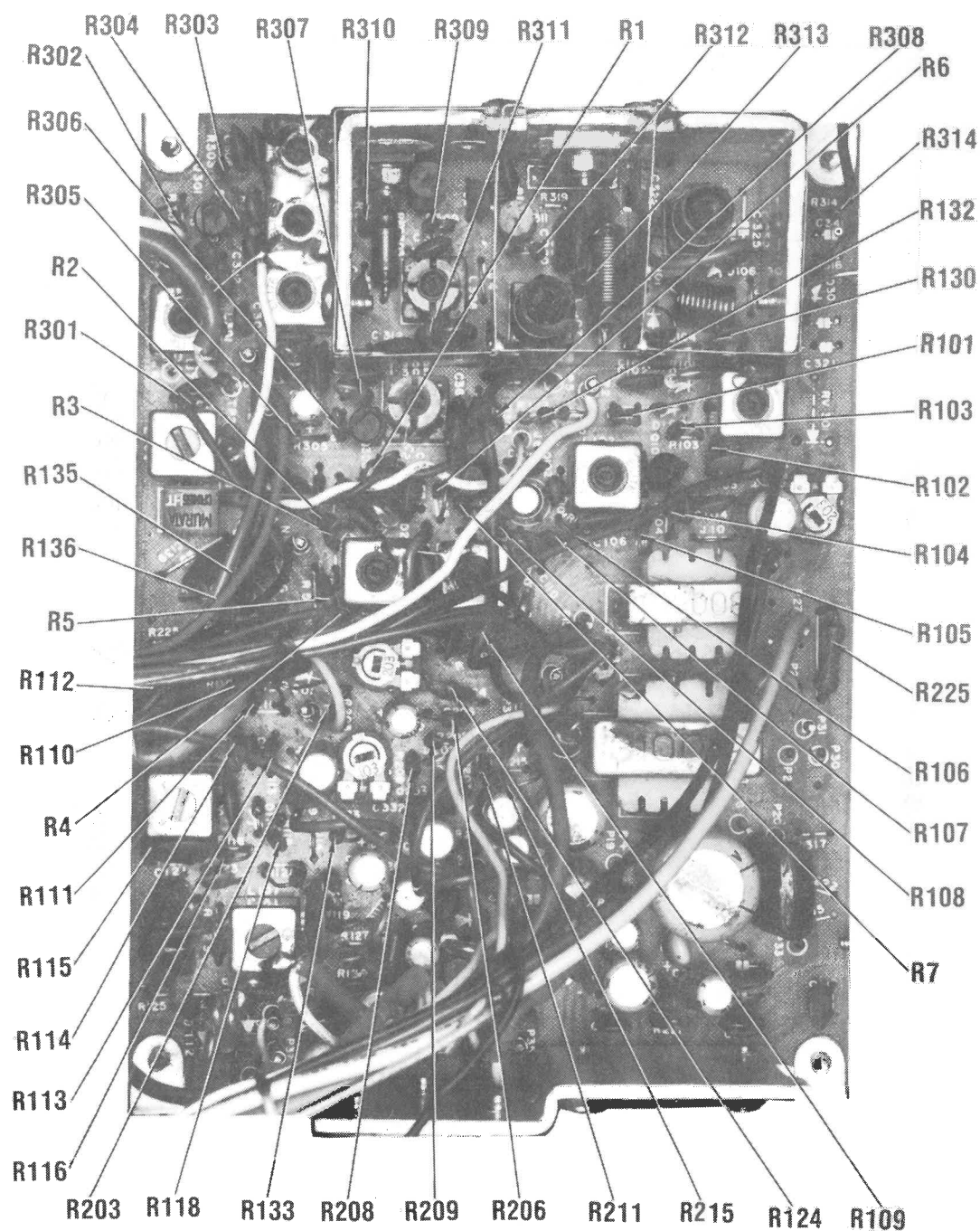
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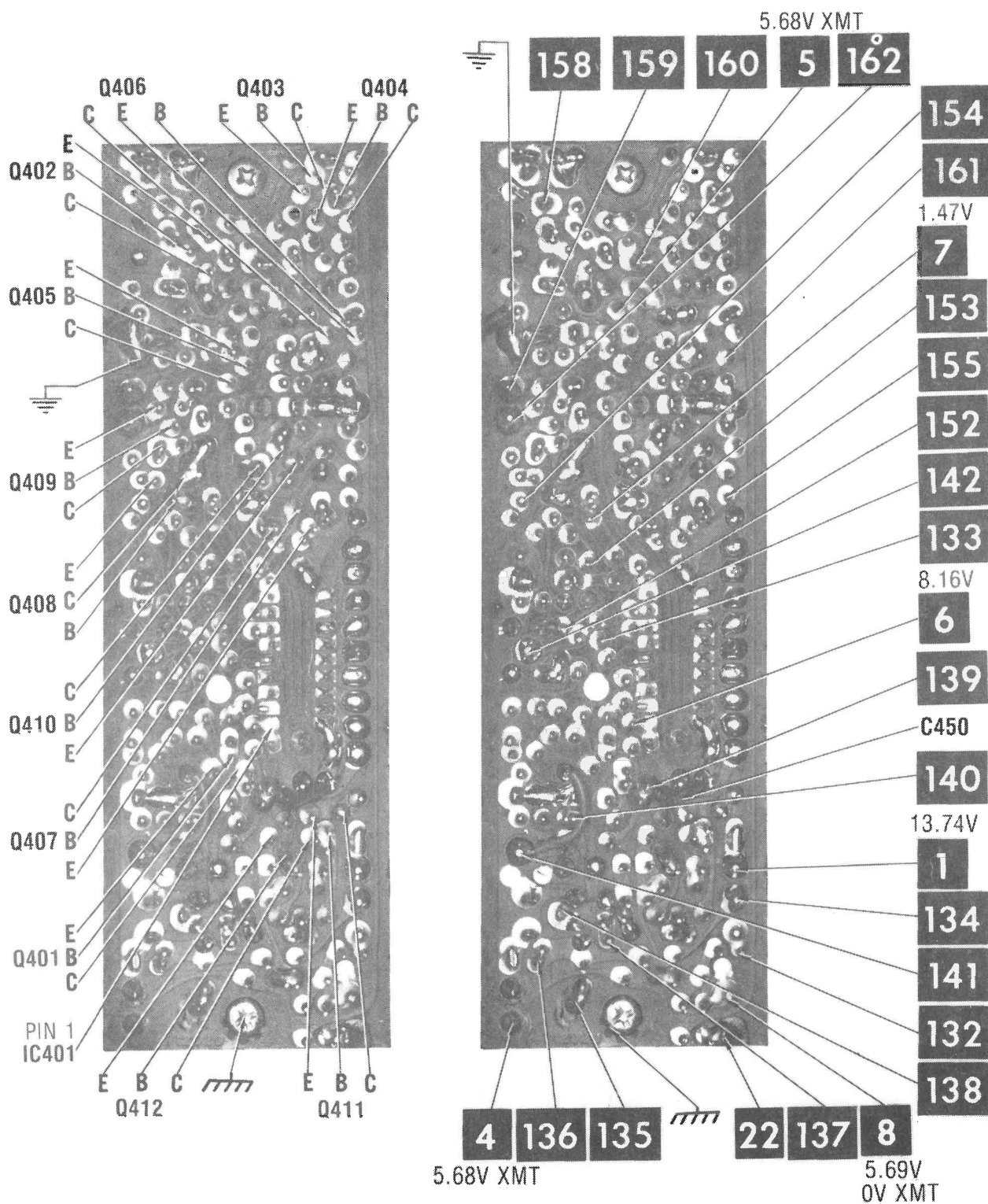
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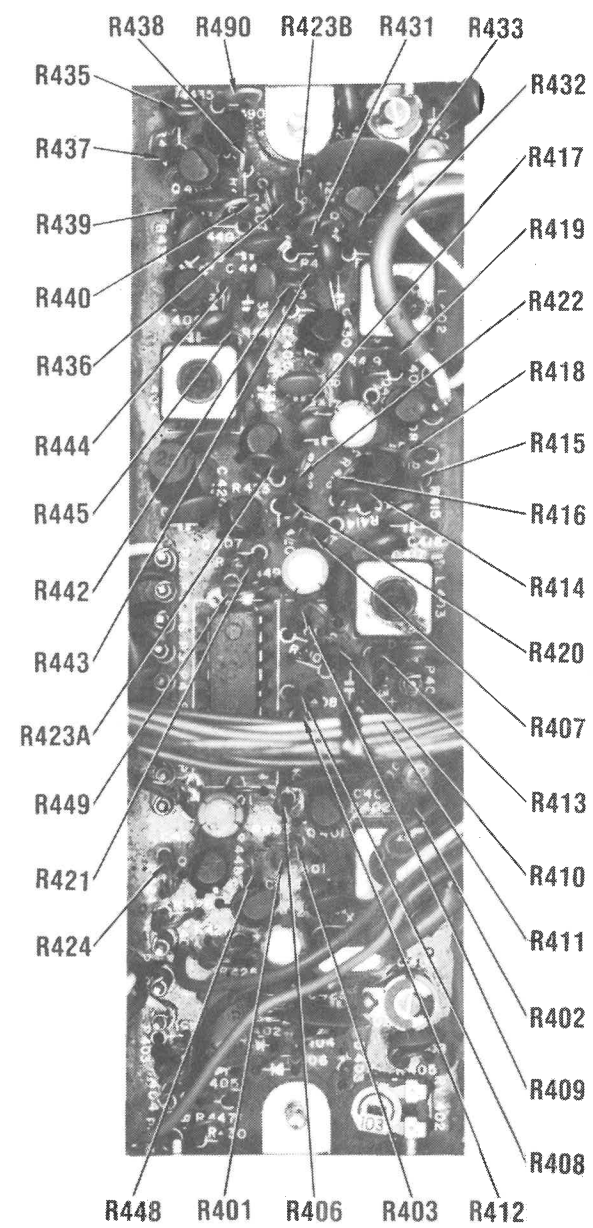
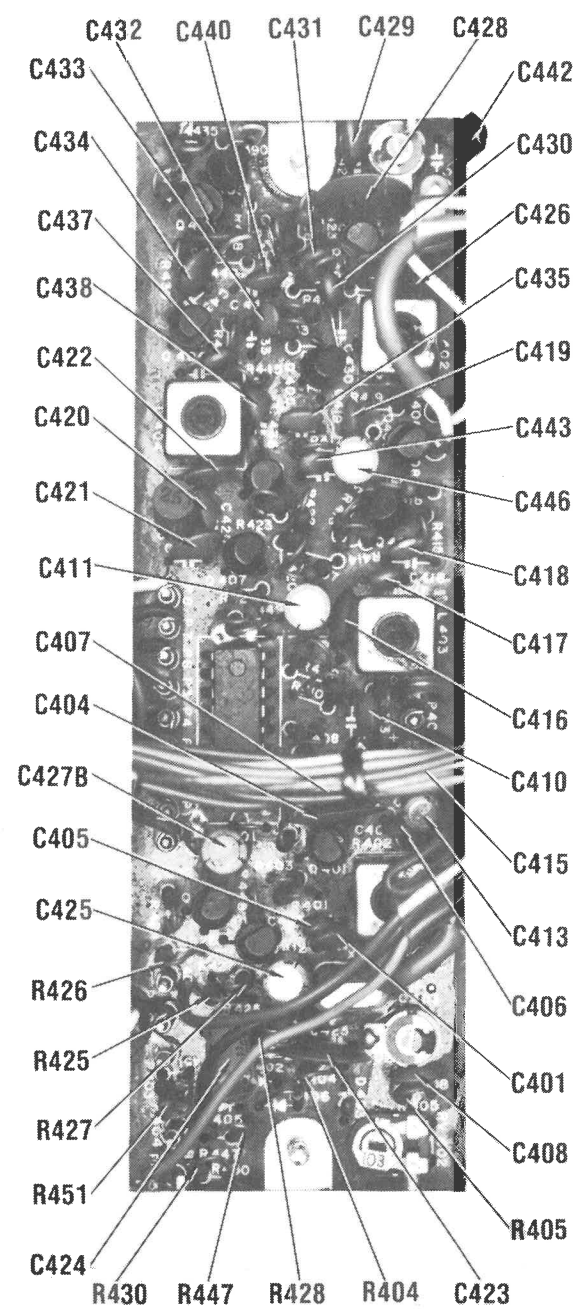
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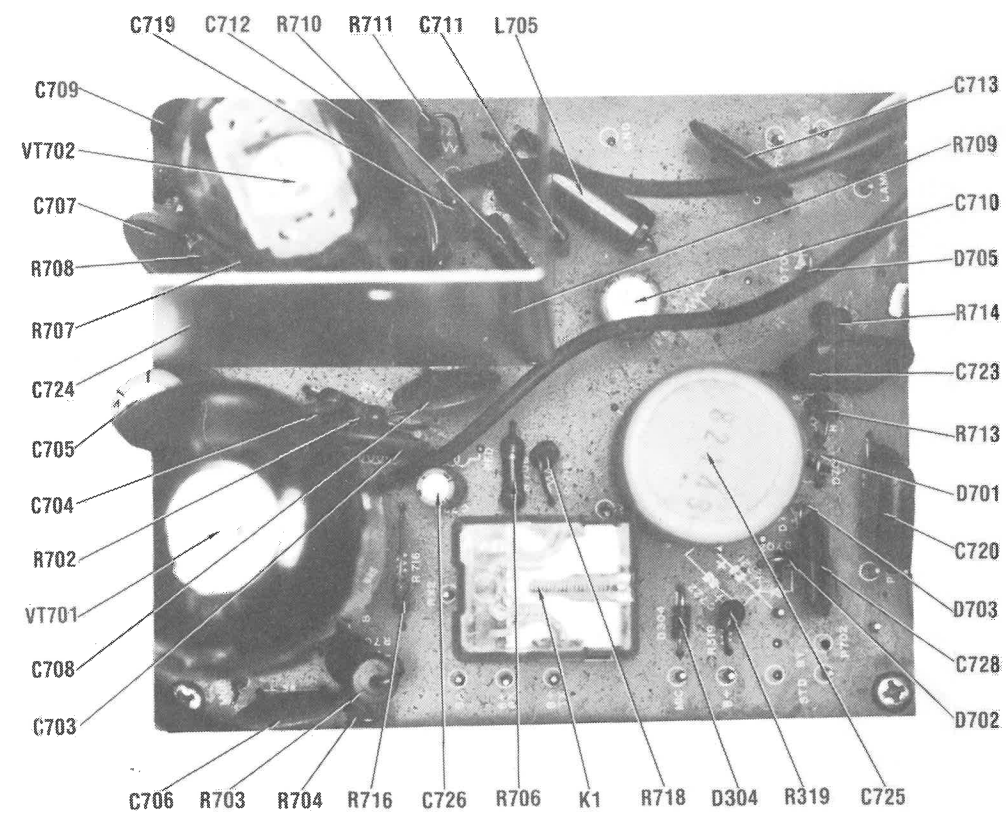
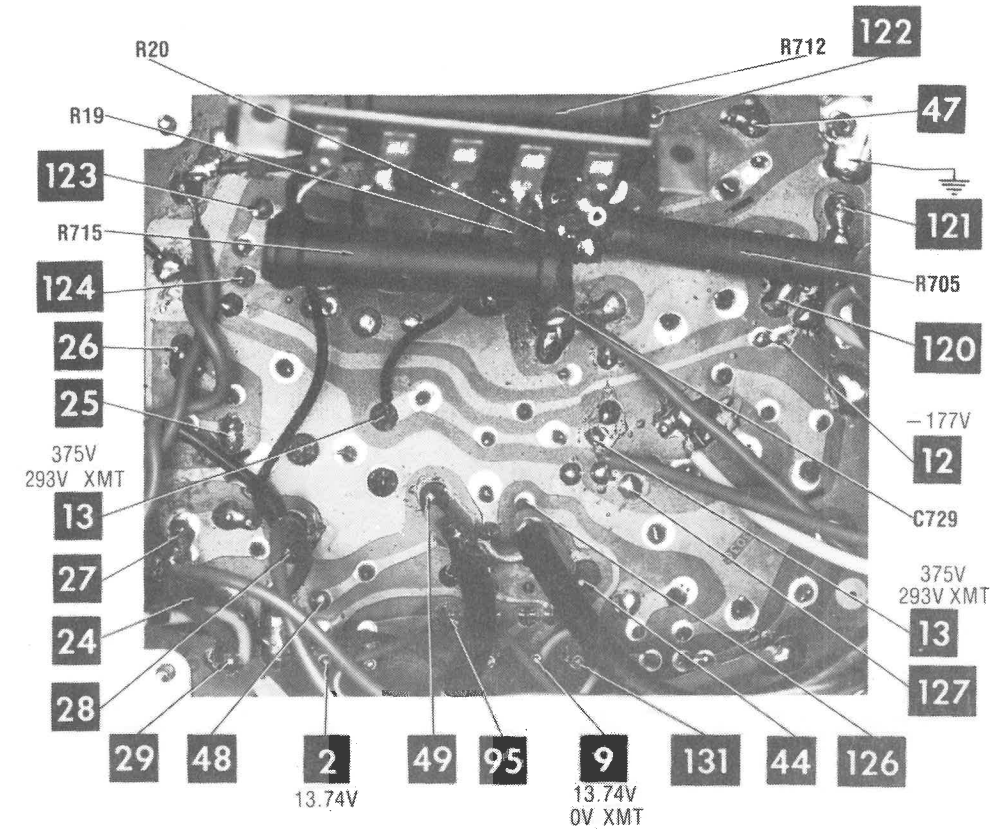
MAIN BOARD



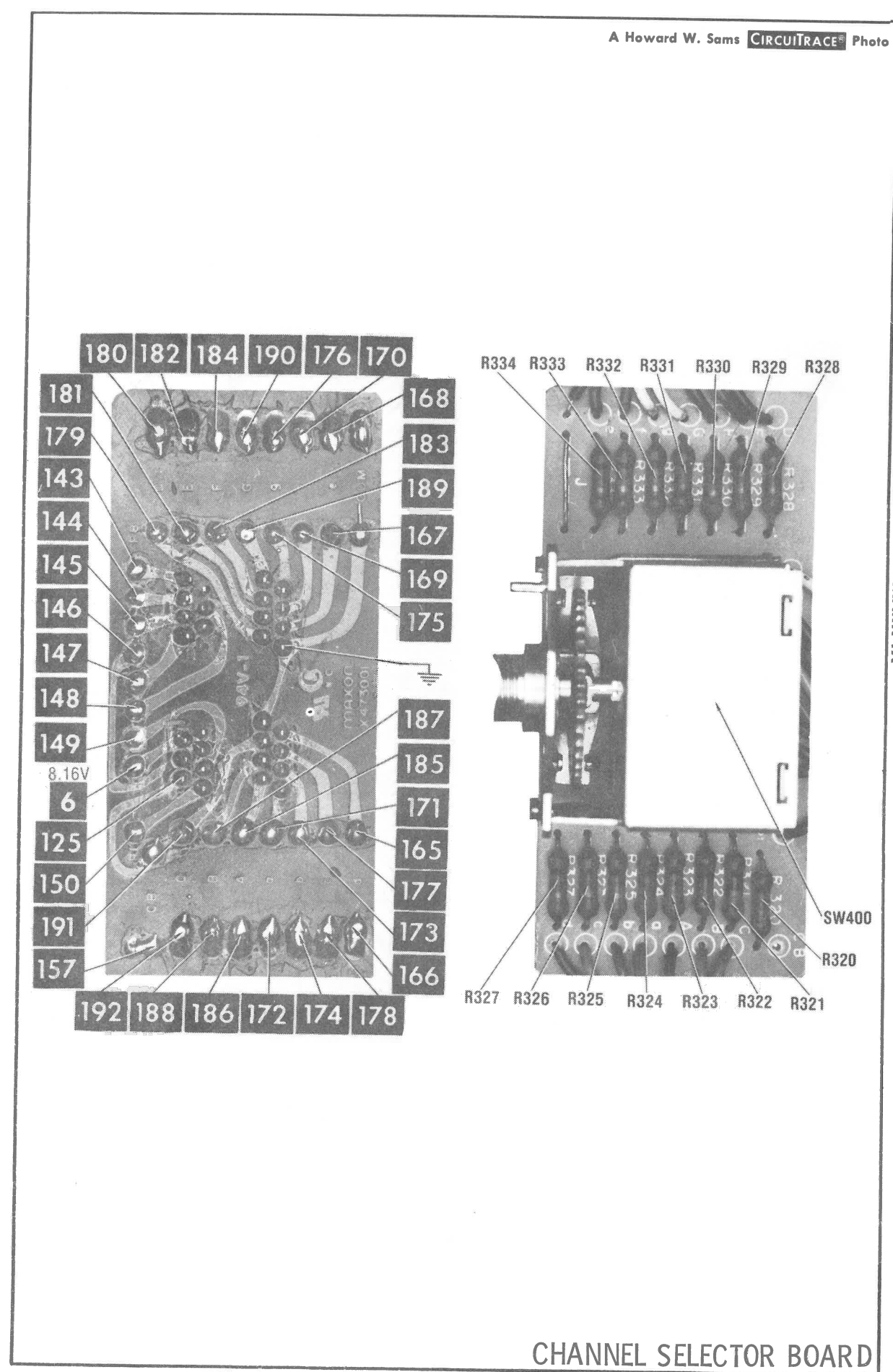
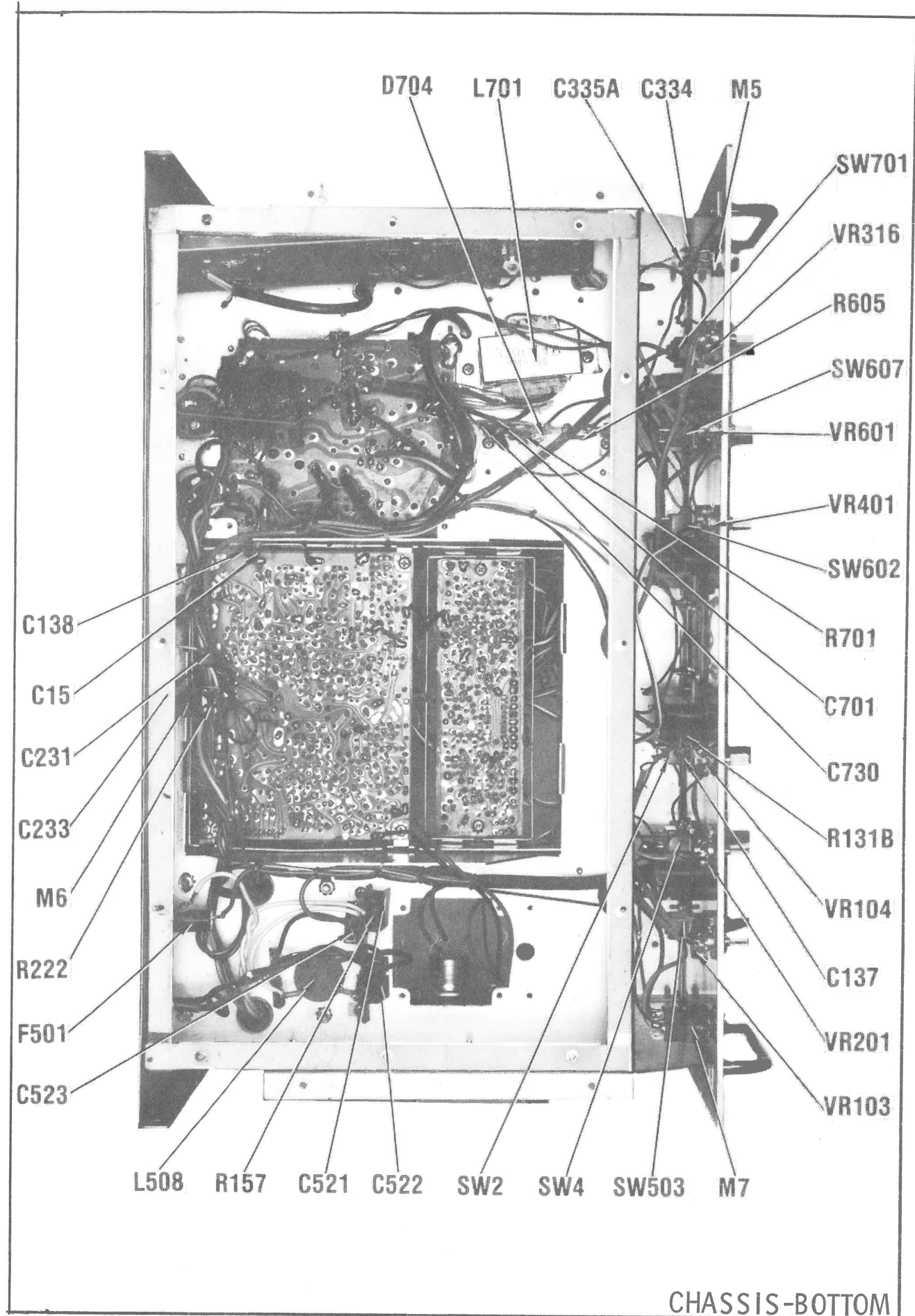
PLL BOARD

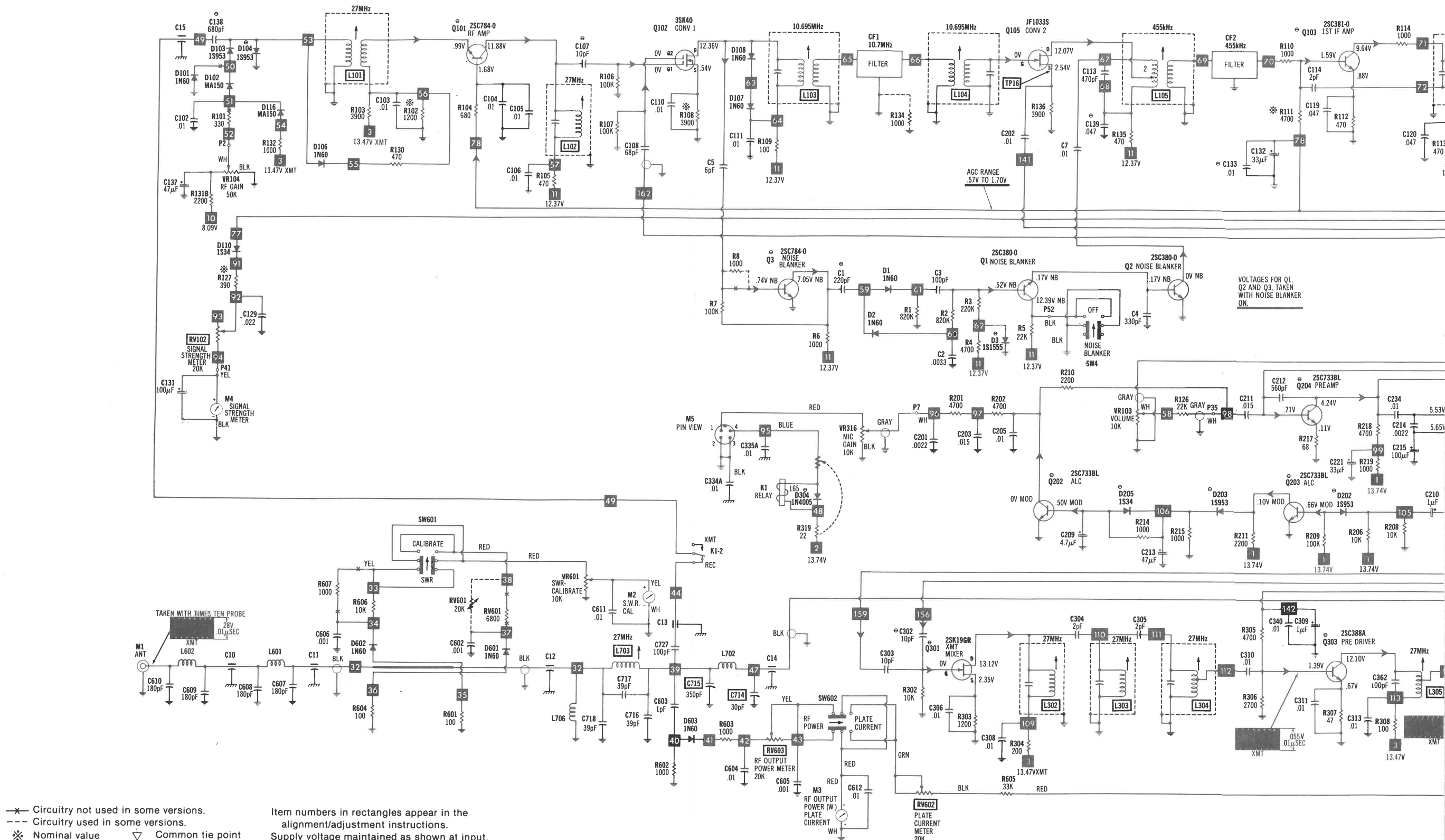


PLL BOARD



XMT-MOD BOARD

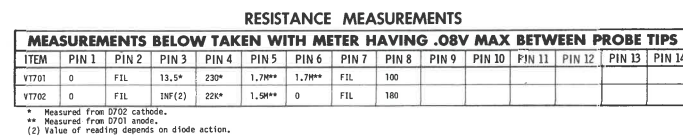


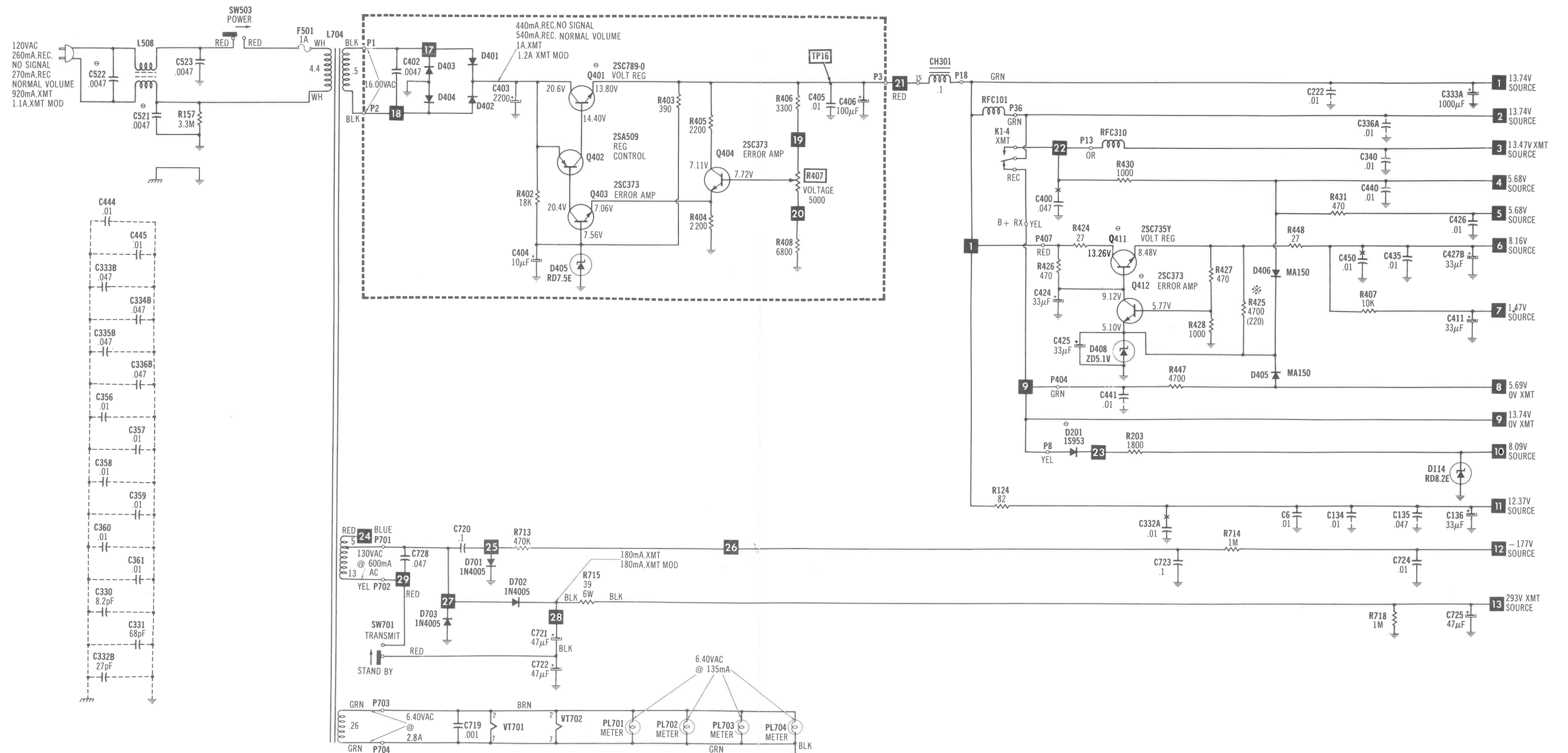


* Circuitry not used in some versions.
 --- Circuitry used in some versions.
 ✖ Nominal value ▽ Common tie point
 ⊥ Ground
 ~ Chassis
 Ⓢ See parts list
 Waveforms and Voltages taken in Channel 19
 with switching in receive unless noted.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**
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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.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.
 Arrow head(s) at coils and transformers
 indicates accessibility of tuning slug(s).





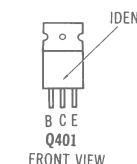
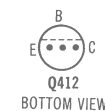
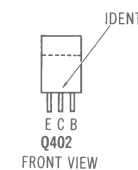
✕ Circuitry not used in some versions.
 --- Circuitry used in some versions.
 ✱ Nominal value ▽ Common tie point
 ⊥ Ground
 CH Chassis
 e See parts list
 Waveforms and Voltages taken in Channel 19 with switching in receive unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. Supply voltage maintained as shown at input. Voltages measured with digital meter, no signal. Controls adjusted for normal operation. Terminal identification may not be found on unit. Resistors are 1/2W or less, 5% unless noted. Value in () used in some versions. Arrow head(s) at coils and transformers indicates accessibility of tuning slug(s).

A PHOTOFACT STANDARD NOTATION SCHEMATIC

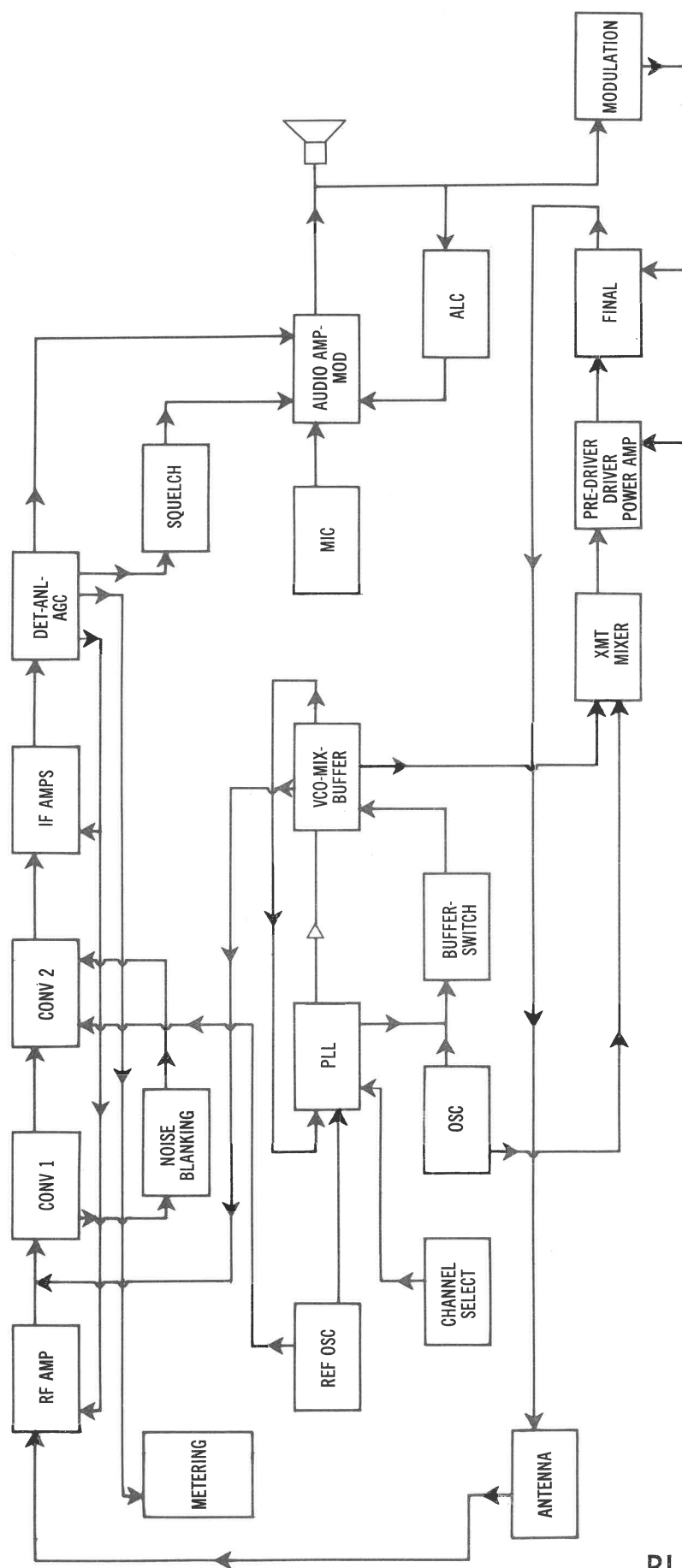
WITH **CIRCUITRACE**

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TERMINAL GUIDES



POWER SUPPLY SCHEMATIC



BLOCK DIAGRAM

PARTS LIST AND DESCRIPTION

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

TUBES

AMPEREX			GENERAL ELECTRIC		RCA		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
VT701	Modulation	6L6GC	VT702	Final	6W6GT/6DG6GT			

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D2	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D3	1S1555		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D101	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D102	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D103	1S953		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D104	1S953		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D106	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D107	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D108	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D110	1S34		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D111	1S34		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D112	1S34		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D113	1S34		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D114	RD8, 2E		GEZD-8.2	ZB8, 2B	REN 5072	SK3136	ECG5072A	TM5072/**	WEP1108	103-Z9001
D115	1S34		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D116	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D201	1S953		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D202	1S953		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D203	1S953		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D205	1S34		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D304	1N4005		GE-504A	PTC202	REN 116	SK3313	ECG116	TM116	WEP158	212-76-02
D401	1S1658		GE-90		REN 614		ECG614		WEP200	103-219
	HV2209		GE-90		REN 614		ECG614		WEP200	103-219
D402	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D403	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D404	1S1658		GE-90		REN 614		ECG614		WEP200	103-219
	HV2209		GE-90		REN 614		ECG614		WEP200	103-219
D405	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D406	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D407	MA150		GE-300	PTC214	REN 177	SK3100	ECG177	TM177	WEP1062	103-131
D408	ZD5, 1V		GEZD-5.1			SK3056		1N4733A	WEP1103	103-290
D601	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D602	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D603	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D701	1N4005		GE-504A	PTC202	REN 116	SK3313	ECG116	TM116	WEP158	212-76-02
D702	1N4005		GE-504A	PTC202	REN 116	SK3313	ECG116	TM116	WEP158	212-76-02
D703	1N4005		GE-504A	PTC202	REN 116	SK3313	ECG116	TM116	WEP158	212-76-02
D704	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-Z9001
D705	1N4005		GE-504A	PTC202	REN 116	SK3313	ECG116	TM116	WEP158	212-76-02
1C201	AN315						ECG1240			
	AN7150									
1C401	1M55116N									
	1M145106									
Q1	2SC380-0		GE-61*	PTC136*	REN 107	SK3018*	ECG107	TM107	WEP380	121-Z9001*
Q2	2SC380-0		GE-61*	PTC136*	REN 107	SK3018*	ECG107	TM107	WEP380	121-Z9001*
Q3	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP784	121-Z9021*
Q101	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP784	121-Z9021*
	MPS9426		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP394*	121-Z9021*
Q102	3SK40		GE-FET-4	PTC182	REN 221	SK3065	ECG221	TM221	WEP905	121-826
Q103	2SC381-0		GE-61*	PTC132*	REN 107	SK3122	ECG107	TM107	WEP535	121-Z9001*
	MPS96230		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-Z9000A
Q104	2SC380Y		GE-61*	PTC136*	REN 107	SK3018*	ECG107	TM107	WEP380	121-Z9001*
	2SC380-0		GE-61*	PTC136*	REN 107	SK3018*	ECG107	TM107	WEP380	121-Z9001*
	MPS9623		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-Z9000A
Q105	JF1033S		GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
Q201	2SC373		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199/**	WEP373	121-972
	MPS9631T		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-Z9000A
	MPS9631		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-Z9000A
Q202	2SC7338L		GE-62	PTC139*	REN 199	SK3122	ECG199	TM199/**	WEP66	121-972
	MPS9634C		GE-62	PTC136	REN 199	SK3124	ECG199	TM199	WEP66*	121-972
	MPS9634D		GE-62	PTC136	REN 199	SK3124	ECG199	TM199	WEP66*	121-972
Q203	2SC7338L		GE-62	PTC139*	REN 199	SK3122	ECG199	TM199/**	WEP66	121-972
	MPS9634C		GE-62	PTC136	REN 199	SK3124	ECG199	TM199	WEP66*	121-972
	MPS9634D		GE-62	PTC136	REN 199	SK3124	ECG199	TM199	WEP66*	121-972
Q204	2SC7338L		GE-62	PTC139*	REN 199	SK3122	ECG199	TM199/**	WEP66	121-972
	MPS9634C		GE-62	PTC136	REN 199	SK3124	ECG199	TM199	WEP66*	121-972
	MPS9634D		GE-62	PTC136	REN 199	SK3124	ECG199	TM199	WEP66*	121-972
Q301	2SK196R		GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
	2SK19		GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
	JF1033S		GE-FET-2	PTC161	REN 132	SK3448	ECG312	TM312	WEP920	121-756
Q303	2SC388A		GE-61*	PTC101*	REN 233	SK3246*	ECG233*	TM233*	WEP535	121-722
	MPS9426B		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP394*	121-Z9021*
	MPS9426C		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP394*	121-Z9021*
Q304	2SC495		GE-270	PTC180	REN 295	SK3253	ECG295	TM295	WEP913	121-880
	2SC1846		GE-336	PTC904	REN 295	SK3253	ECG295	TM295	WEP913	121-880
	2SC1847		GE-270	PTC180	REN 295	SK3253	ECG295	TM295	WEP913	121-880
	2SC1957		GE-270	PTC180	REN 295	SK3197	ECG295	TM295	WEP913	121-880

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.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.	
Q305	2SC1306		GE-215	PTC186	REN 235	SK3197	ECG235	TM235/**	WEP785	121-29039	
	2SC1678		GE-322	PTC186	REN 235	SK3197	ECG235	TM235	WEP840	121-29039	
	2SC2075		GE-215	PTC186	REN 235	SK3197	ECG235	TM235	WEP785	121-29039	
	2SC1974		GE-337	PTC186	REN 235	SK3197	ECG235	TM235	WEP785	121-29040	
	2SC1975		GE-338	PTC186	REN 235	SK3197	ECG235	TM235		121-29039	
	MPSU31		GE-275		REN322	SK3252	ECG322	TM322	WEP59	121-777	
	MRF472		GE-270		REN295	SK3253	ECG295	TM295	WEP913	121-29002	
	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP956	121-29021	
	MPS9426B,C		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP956	121-29021*	
	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP956	121-29021	
Q402	MPS9426		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP956	121-29021*	
	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP956	121-29021	
Q403	MPS9426		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP956	121-29021	
	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP956	121-29021*	
Q404	MPS9426		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP956	121-29021	
	2SC784-0		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP956	121-29021*	
Q405	2SC373		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199/**	WEP373	121-972	
	MPS9600		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-29000A	
Q406	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP956	121-29021	
	MPS9426		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP956	121-29021*	
Q407	2SC373		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199/**	WEP373	121-972	
	MPS9600		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-29000A	
Q408	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP956	121-29021	
	MPS9426		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP956	121-29021*	
Q409	2SC784-0		GE-60*	PTC132*	REN 229*	SK3246*	ECG229*	TM229/**	WEP956	121-29021	
	MPS9426B,C		GE-61	PTC121	REN 229	SK3018	ECG229	TM229	WEP956	121-29021*	
Q410	2SC373		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199/**	WEP373	121-972	
	MPS9600		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-29000A	
Q411	2SC735Y		GE-210	PTC123*	REN 289	SK3122	ECG289	TM289/**	WEP735A	121-29000A*	
	MPS9631		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-29000A	
Q412	2SC373		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199/**	WEP373	121-972	
	MPS9631		GE-20	PTC136	REN 123A	SK3444	ECG123A	TM123A	WEP736	121-29000A	
POWER REGULATOR BOARD											
D401	RD7.5E		GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02	
D402			GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02	
D403			GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02	
D404			GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02	
D405			GEZD-7.5	ZB7.5B	REN 138	SK3059	ECG138A	TM138/**	WEP1107	103-29002	
Q401			2SC789-0	GE-66	PTC154	REN 152	SK3054	ECG152	TM152	WEP745	121-987-02
			2SD234	GE-66		REN 152	SK3054	ECG152	TM152	WEP745	121-987-02
Q402			2SA509	GE-269	PTC103*	REN 290	SK3114	ECG290	TM290	WEP911	121-1019
Q403			2SC373	GE-212	PTC121*	REN 199	SK3122	ECG199	TM199/**	WEP373	121-972
Q404			2SC373	GE-212	PTC121*	REN 199	SK3122	ECG199	TM199/**	WEP373	121-972

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

DAK MODEL MARK IX

ELECTROLYTIC CAPACITORS

REPLACEMENT DATA						
ITEM No.	RATING	MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
POWER SUPPLY						
C403	2200 25V		PC10-25	VTT10B25	QV1-41	EV-1222
C404	10 16V		PC100-16	VTT100F16	QV1-95	EV-1231
C406	100 16V					
MAIN						
C127	33 10V		PC30-25	VTT33B10		EV-1225
C128	1 16V			TDC105M035EL		SD35-19
C131	100 6.3V		PC100-10	VTT100E10	QV1-93	EV-1131
C132	33 10V		PC30-25	VTT33B10		EV-1225
C136	33 10V		PC30-25	VTT33B10		EV-1225
C137	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C204	10 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C206	33 10V		PC30-25	VTT33B10		EV-1225
C207	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C209	4.7 25V		PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C210	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C213	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C215	100 10V		PC100-10	VTT100E10	QV1-93	EV-1131
C217	2.2 10V			TDC225M035FL		SD35-2R29
C220	10 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C221	33 10V		PC30-25	VTT33B10		EV-1225
C223	22 16V		PC25-25	VTT22B16	QV1-55	EV-1224
C226	220 16V		PC250-25	VTT220H16	QV1-117	EV-1240
C227	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C229	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C309	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C333A	1000 16V		PC1000-16	VTT1000L16	QV1-183	EV-1261
C411	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C413	3.3 50V		PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C415	.68			TDC684M050EL	QDT1-22	SD50-R689
C424	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325

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
C425	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C427B	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C446	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C705	4.7 450V					
C710	1 350V					
C721	47 450V					
C722	47 450V					
C725	47 450V					
C726	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C729	1 50V		WBR1-50	TT50X1	QE1-11	TVA-1300

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
C402	POWER SUPPLY BOARD						
C405	.0047 10%		UK50-103	DPMS6D47	EW6247		6PS-D47
	.01				MAG5011		
	MAIN BOARD						
C1	220 10%		DTZ-220				10TCC-T22
C2	.0033		DD-332				5GA-D33
C3	100 5%		DTZ-100	GP3300	GP233	QC2-107	10TCC-T10
C4	330 10%		DD-331	NP0100	CN0310		10TS-T33
C5	6			GP330	GP333		
C6	.01		UK50-103				
C7	.01		UK50-103		MAG5011		
C10					MAG5011		
C11							
C12							
C13							
C14							
C15							
C16							
C102	.01		UK50-103		MAG5011		
C103	.01		UK50-103		MAG5011		
C104	.01		UK50-103		MAG5011		
C105	.01		UK50-103		MAG5011		
C106	.01		UK50-103		MAG5011		
C107	10		DTZ-10	NP010	CN0410		10TCC-Q10
C108	68 5%		DTZ-68	NP068	CN0468		10TCC-Q68
C110	.01		UK50-103		MAG5011		
C111	.01		UK50-103		MAG5011		
C113	470 5%			CD15FD471J03	SX347	OW1-42	MWA-471
C114	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C119	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C120	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C121	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C122	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C123	1.8		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C124	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C126	.022 10%				M192P2239R8		192P2239R8
C129	.022 10%				M192P2239R8		192P2239R8
C130	.047 10%			DPMS2S47	EW1A147	QF1-171	1PB-S47
C133	.01		UK50-103		MAG5011		
C134	.01		UK50-103		MAG5011		
C135	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C138	680 50V 10%			CD19FD681J03	SX368		MWC-681
C139	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C140	.01				MAG5011		
C201	.0022 5%		UK50-103	CD19FD222J03	SX222		MWC-222
C202	.01		UK50-103		MAG5011		
C203	.015 10%				M192P1539R8		192P1539R8
C205	.01 10%			WMF1S1	EW1A110	QF1-91	1PB-S10
C211	.015 10%				M192P1839R8		192P1839R8

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
C212	560		DD-561		GP356		10TS-T56
C214	.0022 10%				M192P2229R8		192P2229R8
C216	.047			DPMS2S47	EW1A147	QF1-171	1PR-S47
C218	.0022 10%				M192P2229R8		192P2229R8
C219	680 10%		DD-681	GP680	GP368		10TS-T68
C222	.01		UK50-103		MAG5011		
C224	.22 10%			DPMS2P22	EW1A022	QF1-253	1PR-P22
C225	.01		UK50-103		MAG5011		
C231	100 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C233	82 10%		DTZ-82	NP082	CN0482		10TCC-Q82
C234	.01 10%			WMF1S1	EW1A110	QF1-91	1PB-S10
C301	10		DTZ-10	NP010	CN0410		10TCC-Q10
C302	10		DTZ-10	NP010	CN0410		10TCC-Q10
C303	10		DTZ-10	NP010	CN0410		10TCC-Q10
C304	2		DTZ-2R2	NP02P2	CN0522		10TCC-Q10
C305	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C306	.01		UK50-103		MAG5011		10TCC-V22
C308	.01		UK50-103		MAG5011		
C310	.01		UK50-103		MAG5011		
C311	.01		UK50-103		MAG5011		
C312	330 10%		DD-331	GP330	GP333		10TS-T33
C313	.01		UK50-103		MAG5011		
C314	82 5%		DTZ-82	NP082	CN0482		10TCC-Q82
C315	.01		UK50-103		MAG5011		
C316	330 10%		DD-331	GP330	GP333		10TS-T33
C317	220 10%		DTZ-220				10TCC-T22
C318	.01		UK50-103		MAG5011		
C319	.01		UK50-103		MAG5011		
C320	100 5%		UK50-103		MAG5011		
C323	68		DTZ-68	CD15FD101J03	SX310	QW1-27	MMA-101
C327	47			NP068	CN0468		10TCC-Q68
C330	8.2			CD15ED470J03	SX447	QW1-19	MMA-470
C331	68			CD15CD080D03		QW1-5	MMA-080
C332A	.01		DTZ-68	NP068	CN0468		10TCC-Q68
C332B	27		UK50-103		MAG5011		
C333B	.047			DPMS2S47	CN0427	QF1-171	10TCC-Q27
C334A	.01		UK50-103		EW1A147		1PB-S47
C334B	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C335A	.01 500V		DD-1032	GP10000	GP110		56A-S10
C335B	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C340	.01		UK50-103		MAG5011		
C356	.01		UK50-103		MAG5011		
C357	.01		UK50-103		MAG5011		
C358	.01		UK50-103		MAG5011		
C359	.01		UK50-103		MAG5011		
C360	.01		UK50-103		MAG5011		
C361	.01		UK50-103		MAG5011		
C400	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47
C401	.01		UK50-103		MAG5011		
C402	20						
C403	10		DTZ-10	NP010	CN0410		10TCC-Q10
C404	560 10%		DD-561		GP356		10TS-T56
C405	10		DTZ-10	NP010	CN0410		10TCC-Q10
C406	100 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C407	150 10%		DTZ-150		CN0315		10TCC-T15
C408	.01		UK50-103		MAG5011		
C410	.01		UK50-103		MAG5011		
C416	680 10%			CD19FD681J03	SX368		MWC-681
C417	10		DTZ-10	NP010	CN0410		10TCC-Q10
C418	5 N220				*		10TCR-V50
C419	.01		UK50-103		MAG5011		
C420	.01		UK50-103		MAG5011		
C421	220 10%		DTZ-220				10TCC-T22
C422	220 10%		DTZ-220				10TCC-T22
C423	560 10%		DD-561		GP356		10TS-T56
C426	.01		UK50-103		MAG5011		
C427A	20						
C428	560 10%		DD-561		GP356		10TS-T56
C429	100 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C430	10		DTZ-10	NP010	CN0410		10TCC-Q10
C431	10		DTZ-10	NP010	CN0410		10TCC-Q10
C432	220 10%		DTZ-220				10TCC-T22
C433	27				CN0427		10TCC-Q27
C434	100 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C435	.01		UK50-103		MAG5011		
C437	10		DTZ-10	NP010	CN0410		10TCC-Q10
C438	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C440	.01		UK50-103		MAG5011		
C441	.01		UK50-103		MAG5011		
C442	33			CD15ED330J03	SX433	QW1-15	MMA-330
C443	10		DTZ-10	NP010	CN0410		10TCC-Q10
C444	.01		UK50-103		MAG5011		
C445	.01		UK50-103		MAG5011		
C450	.01		UK50-103		MAG5011		
C521	.0047 125V AC						125L-D47
C522	.0047 125V AC						125L-D47
C523	.0047 125V AC						125L-D47
C602	.001		CD-102		GP210		10TS-D10

DAK MODEL MARK IX

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
C603	1				CN0510		10TCC-V10
C604	.01		UK50-103		MAG5011		
C605	.001		DD-102		GP210		10TS-D10
C606	.001		DD-102		GP210		10TS-D10
C607	180 10%			CD15FD181J03	SX318	QW1-33	MWA-181
C608	180 10%			CD15FD181J03	SX318	QW1-33	MWA-181
C609	180 10%			CD15FD181J03	SX318	QW1-33	MWA-181
C610	180 10%			CD15FD181J03	SX318	QW1-33	MWA-181
C611	.01		UK50-103		MAG5011		
C612	.01		UK50-103		MAG5011		
C701	.01		UK50-103		MAG5011		
C702	.01		UK50-103		MAG5011		
C703	.0047 1KV		DD-472	GP4700	GP247		5GA-D47
C704	.0047 1KV		DD-472	GP4700	GP247		5GA-D47
C706	.01 500V		DD-1032	GP10000	GP110		5GA-S10
C707	.01		UK50-103		MAG5011		
C708	.01 500V		DD-1032	GP10000	GP110		5GA-S10
C709	.0047		DD-472	GP4700	GP247		5GA-D47
C711	.047 600V			DPMS6S47	FWF6147		6PS-S47
C712	.001 2KV		DD30-102	HV3-1000	3HV210		30GA-D10
C713	.0047 1KV		DD-472	GP4700	GP247		5GA-D47
C714	30						
C715	350						
C716	39 500V 10%			CD15ED390J03	SX439	QW1-17	MWA-390
C717	39 500V 10%			CD15ED390J03	SX439	QW1-17	MWA-390
C718	39 500V 10%			CD15ED390J03	SX439	QW1-17	MWA-390
C719	.001		DD-102		GP210		10TS-D10
C720	.1 600V			DPMS6P1	EW6010		6PS-P10
C723	.1 600V			DPMS6P1	EW6010		6PS-P10
C724	.01 500V		DD-1032	GP10000	GP110		5GA-S10
C727	100 500V 10%			CD15FD101J03	SX310	QW1-27	MWA-101
C728	.047 600V			DPMS6S47	EW6147		6PS-S47
C730	.047			DPMS2S47	EW1A147	QF1-171	1PB-S47

*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.
R407	POWER SUPPLY BOARD					
	Voltage	5000		T-5000 (3)	MTC53L4	U201R502B
	MAIN					
RV101	Squelch Range	10K				U260R103B
RV102	Signal Strength Meter	20K				U260R253B
RV202	ALC	10K				U260R103B
	ALC	20K				
RV402A	Delta Tune Midrange	20K				U260R253B
RV402B	Frequency	10K		T-10K	MTC14L1	X201R103B
RV602	Plate Current Meter	20K		T-20K	MTC24L1	X201R253B
RV701	RF Output Power Meter	20K		T-20K	MTC24L1	X201R253B
VR103	Volume	10K		F2-10K (1), SSK012	UA14A (1), SN1000	BU1 (1), CF61, SS1, DC1
VR104	RF Gain	50K		F1-50K (1), SSK012	UA54L (1), SN1000	BU1 (1), CF12, SS1, DC1
VR201	Squelch	10K		F5-10K (1), SSK012	UA14R (1), SN1000	BU1 (1), CF35, SS1, DC1
VR316	Mic Gain	10K		F2-10K (1), SSK012	UA14A (1), SN1000	BU1 (1), CF61, SS1, DC1
VR401	Delta Tune	50K				
VR601	SWR Calibrate	10K		F1-10K (1), SSK012	UA14L (1), SN1000	BU1 (1), CF9, SS1, DC1

(1) Enlarge mounting hole.

(3) For horizontal mounting, bend the two outside terminals to fit P.C. board. Use jumper to connect center terminal to P.C. board.

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	REC Antenna (27MHz)				
L102	RF Amp (27MHz)		340006		
L103	Converter (10.695MHz)		340007		
L104	Converter (10.695MHz)		340007		
L105	IF (455kHz)		340008		
L106	IF (455kHz)		340009		
L107	IF (455kHz)		340010		
L301	Buffer (16MHz)		340037		
L302	XMT Mixer (27MHz)		340012A		
L303	XMT Mixer (27MHz)		340012A		
L304	XMT Mixer (27MHz)		340013		
L305	Predriver (27MHz)				
L306	RF Driver Amp (27MHz)				
L307	RF Power Amp (27MHz)				
L308	RF Power Amp (27MHz)				
L309	RF Choke				
L401	Reference Oscillator (10.240MHz)		340007		
L402	Oscillator (10.422MHz)		340007		
L403	VCO		340035		
L404	Buffer (15.360MHz)		340034		
L405	RF Choke		25		
L508	RF Choke				
L601	Pi Filter				
L602	Pi Filter				
L702	Loading Final				
L703	Antenna Matching (27MHz)				
L705	RF Choke				
L706	RF Choke				
RFC101	RF Choke				
RFC303	RF Choke				
RFC305	RF Choke				
RFC310	RF Choke		6R8	70F686A1	
RFC311	RF Choke		2R2	70F226A1	
RFC312	RF Choke				

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RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.			MFGR. PART No.	WORKMAN PART No.
R705	100 5W			TH101	Thermistor NTC, Cold 237		

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH301	1.2A	.07	.52mH	310008 (1)			(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (MODULATION)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L701	25	1		310014B (1)			(1) Number on unit.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L704	120V AC @ 1.1A AC	16V AC @ 1.2A DC 2.2A AC	310021 (1)			(1) Number on unit.
	SEC. 2 6.4V AC @ 2.8A AC	SEC. 3 130V AC @ .6A AC				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	26	1 2 8 5	310019 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	4" PM 8 Ohms		4A1Z8	

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
F1	1A Quick Acting			AGC1	HKP	312001	342013AL	FG1-2

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

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter		(10.7MHz)
CF2	Filter		(455kHz)
D301	LED		Tens & Units (Each segment supplied 1.64 @ 12.2mA)
	Relay		165 Ohm XMT/Rec
M2	Meter		SWR CAL
M3	Meter		RF Output Power
M4	Meter		Signal Strength
M8	Meter		% Modulation
PL701	Lamp		Meter (6.40VAC @ 135mA)
PL702	Lamp		Meter (6.40VAC @ 135mA)
PL703	Lamp		Meter (6.40VAC @ 135mA)
PL704	Lamp		Meter (6.40VAC @ 135mA)
SW2	Switch		ANL/Off
SW4	Switch		Noise Blanking/Off
SW400	Switch		Channel Selector
SW503	Switch		Power/Off
SW601	Switch		Calibrate/SWR
SW602	Switch		RF Power/Plate Current
SW701			Transmit/Standby
X401	Crystal		(10.240MHz)
X402	Crystal		(10.422MHz)

WIRING DATA

Cable (Speaker)(Unshielded).....	Use BELDON No. 8782 (AWG24)(4 colors)
Shielding Strap.....	Use BELDON No. 8660 (3/16" width)
Hook-up Wire (General Use).....	Use BELDON No. 8524 (AWG22)(13 colors)
Hook-up Wire (Shielded).....	Use BELDON No. 8401 (Braided Shield)(1 conductor)(AWG25)
	Use BELDON No. 8421 (Spiral Shield)(1 conductor)(AWG25)
	Use BELDON No. 8737 (Spiral Shield)(2 conductor)(AWG22)
Coax(Transmission Line).....	Use BELDON No. 8259 (RG-58A/U, 50 ohms)
Coax(Transmission Line).....	Use BELDON No. 8219 (RG-58A/U, 50 ohms) (Low Loss)
AC Power Cord.....	Use BELDON No. 17109 (9 ft.)(2 conductors)

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