

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 HB-940 (99-33599)

MANUFACTURER'S SPECIFICATIONS

GENERAL

CIRCUITRY	Digital Phase Lock Loop Synthesizer.
CHANNELS	40 Channels in 27 MHz CB Band.
MODE OF OPERATION	AM
POWER SOURCE	13.8V DC [negative or positive ground].

RECEIVER SECTION

CIRCUIT TYPE	Dual conversion superheterodyne with RF stage and 455 KHz ceramic-filter.
SENSITIVITY	0.7 μ V for 10 dB S/N.
SELECTIVITY	50 dB down at $\pm$ 10 KHz.
IMAGE REJECTION	40 dB.
SPURIOUS REJECTION	50 dB.
AGC RANGE [for 10 dB level change]	80 dB.
DELTA TUNE RANGE	Approximately $\pm$ 1.2 KHz.
SQUELCH RANGE	0.7 μ V to 500 μ V.
IF FREQUENCY	1st IF: 10.695 MHz 2nd IF: 455 KHz
AUDIO OUTPUT POWER	3 Watts into "EXT.SP" jack [at 8 ohms].
CURRENT DRAIN	300 mA on standby [no signal].

TRANSMITTER SECTION

RF POWER OUTPUT	Up to 4 Watts [FCC Maximum at 13.8V DC]
EMISSION	6 A 3

HARMONIC AND SPURIOUS

SUPPRESSION	Exceeds FCC requirements.
MODULATION	AM, 90% typical with Range Boost.
ANTENNA INPUT IMPEDANCE	Nominal 50 ohms.
CURRENT DRAIN	1.6 amp or less at 13.8V DC.

MISCELLANEOUS INFORMATION

DIMENSIONS [OVERALL]	7-1/8" W X 9-3/8" D X 2-1/2" H. 181 mm W X 238 mm D X 64 mm H.
NET WEIGHT	3.7 lbs./1.7 Kilograms.

Courtesy of the Manufacturer

LAFAYETTE MODEL HB-940

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.
 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:
L14, T7 thru T10	5009
L7, L11, L12	9304
L1, L2, L5, T1 thru T6	9440
CT1	5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP1.	Ch. 19 Delta Tune 0	CT1	Adjust for 10.240MHz $\pm$ 50Hz.
Input of RF VTVM to TP2.	Ch. 19	T1	Adjust for maximum.
Input of DC meter to TP8.	Ch. 1	L1	Adjust for 3.60V $\pm$.1V.
Input of frequency counter to TP3.	Ch. 19, Xmit		Check for 10.695MHz.
Input of RF VTVM to TP4.	Ch. 19	L2,T2	Adjust for maximum.
Input of frequency counter to TP4.	Ch. 1		Check for 37.660MHz. Check all channels (channel frequency + 10.695MHz = frequency on counter).

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.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP10. 455kHz, 1000Hz @ 30% modulation.	Ch. 19 RF Gain Max Delta Tune 0 Squelch MIN ANL/NB ANL	T10,T9,T8	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19 RF Gain Max Delta Tune 0 Squelch MIN ANL/NB ANL	T7,L14,T6, T5	Adjust for maximum output. If necessary, readjust T8, T9 and T10.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 RF Gain Max Delta Tune 0 ANL/NB ANL	RV1	SQUELCH RANGE Set squelch control VR2 fully clockwise. Adjust RV1 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19 RF Gain Max Delta Tune 0 ANL/NB ANL SWR/CAL/RF RF	RV3	S METER Adjust RV3 for 9 on S scale of meter.

TRANSMITTER ALIGNMENT

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

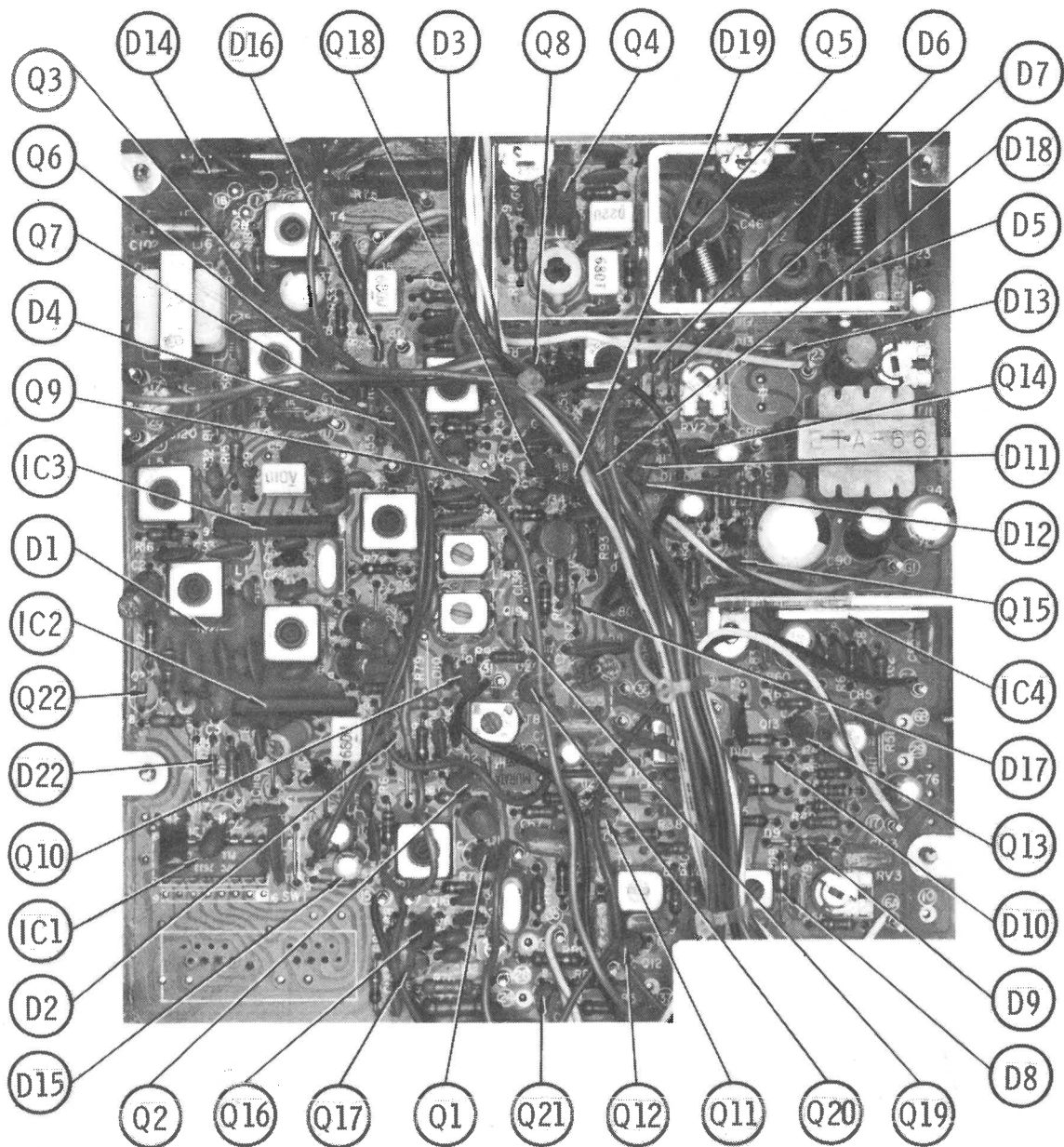
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	L5,T3,T4, L7,L11,L12	Adjust for maximum.
	Ch. 19	L7	Adjust for 3.8 watts maximum.

TRANSMITTER ADJUSTMENTS

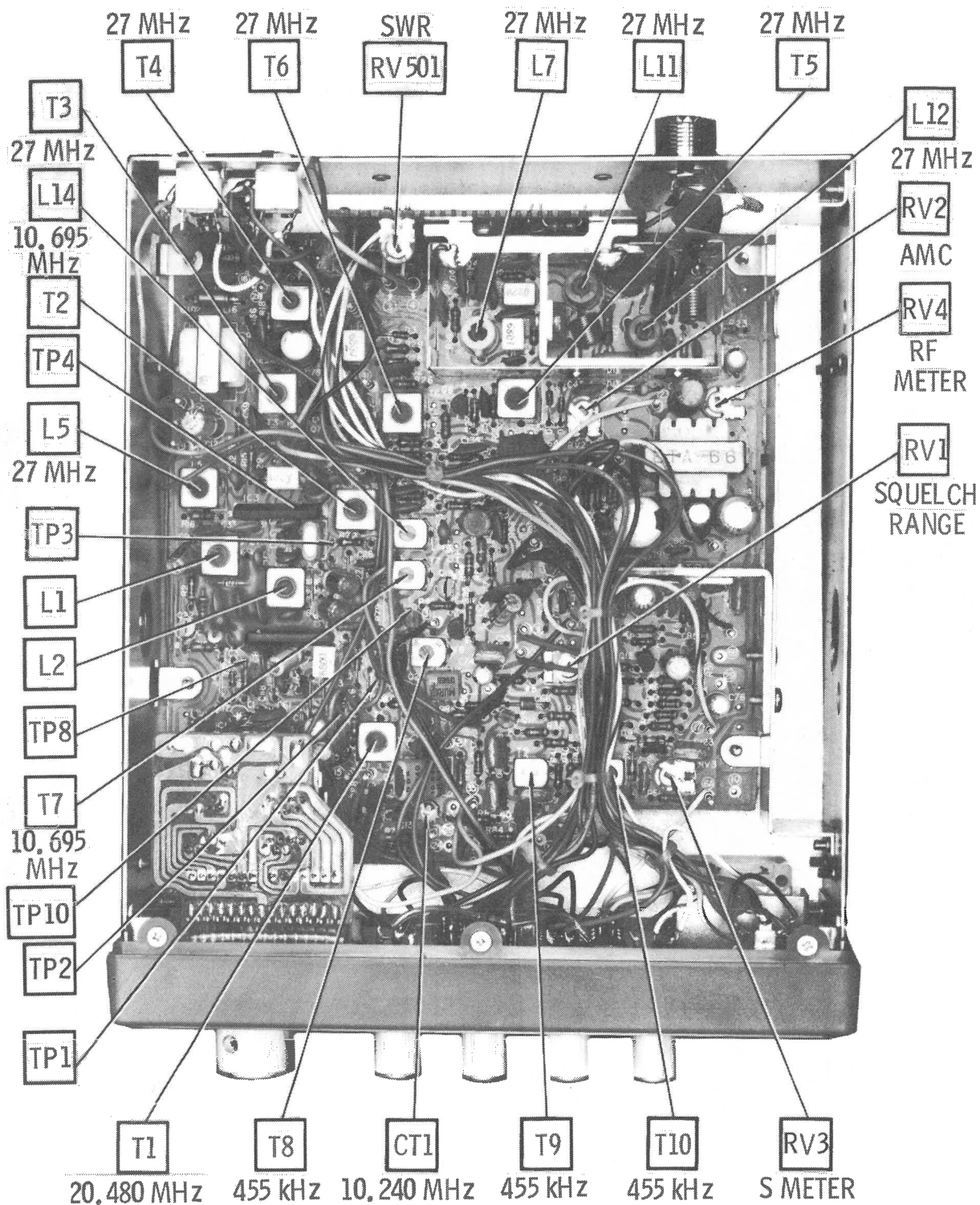
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 60mV, 1000Hz signal at mic input.	Ch. 19	RV2	AMC Adjust for 90% modulation.
	Ch. 19 SWR/CAL/RF RF	RV4	RF PANEL METER Adjust RV4 so that RF panel meter agrees with RF wattmeter.
Connect a 100-ohm non-inductive resistor to antenna jack.	Ch. 19	RV501	SWR Set SWR/CAL/RF switch to CAL. Adjust SWR-CAL Control (VR4) to the "Set" on SWR scale of meter. Place SWR/CAL/RF switch to SWR position. Adjust RV501 for 2 on SWR scale of meter.

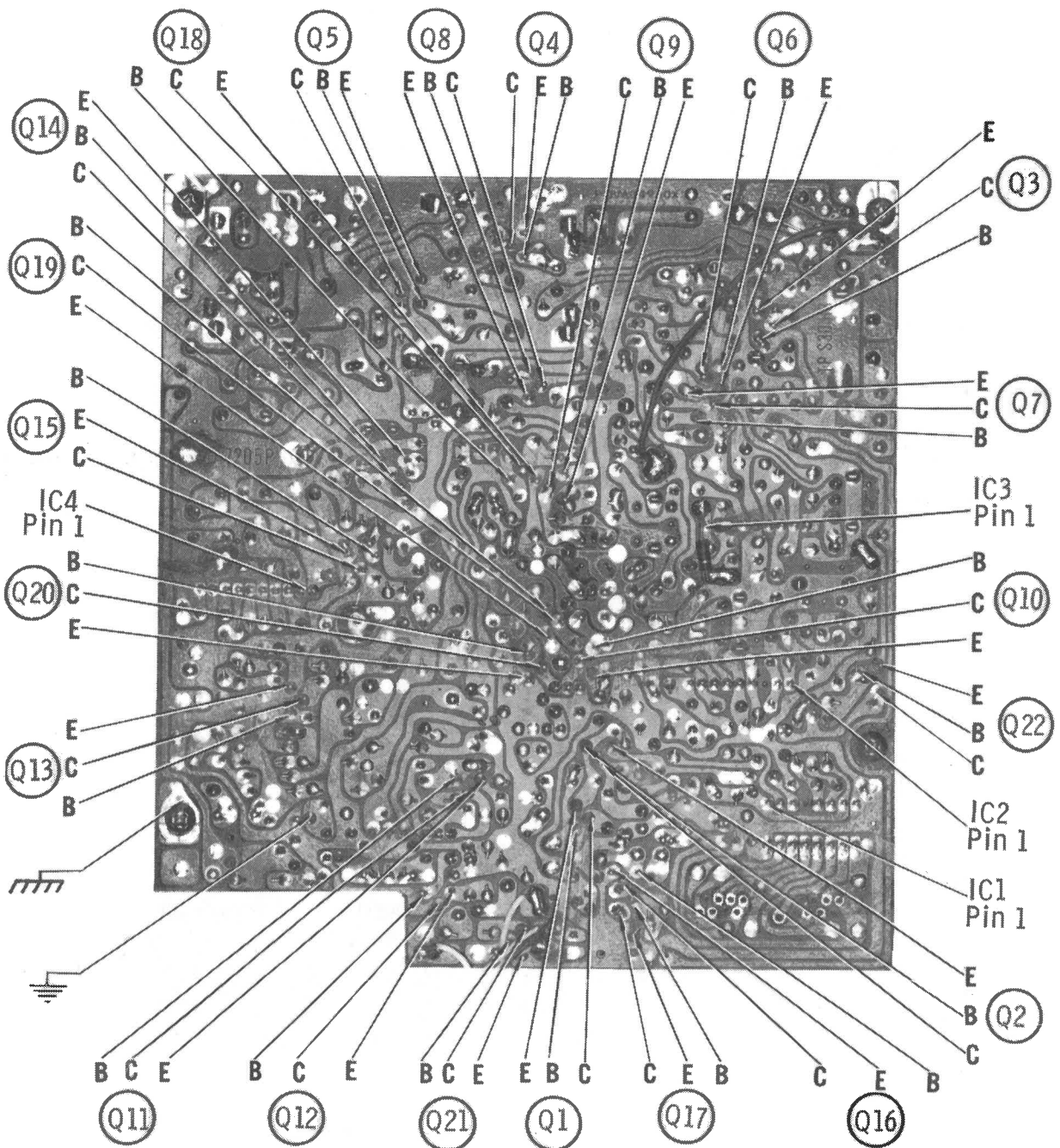
LAFAYETTE MODEL HB-940



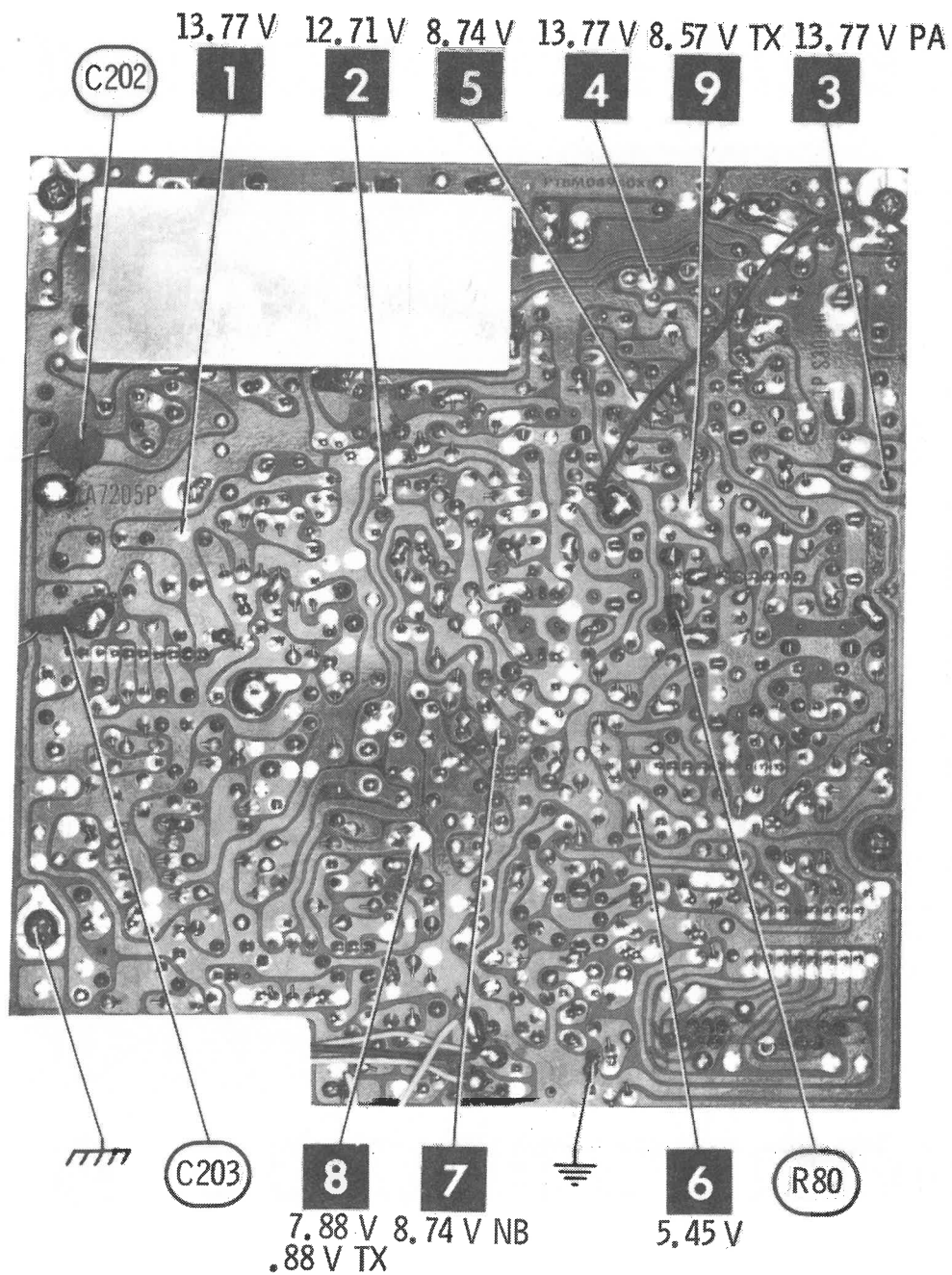
MAIN BOARD



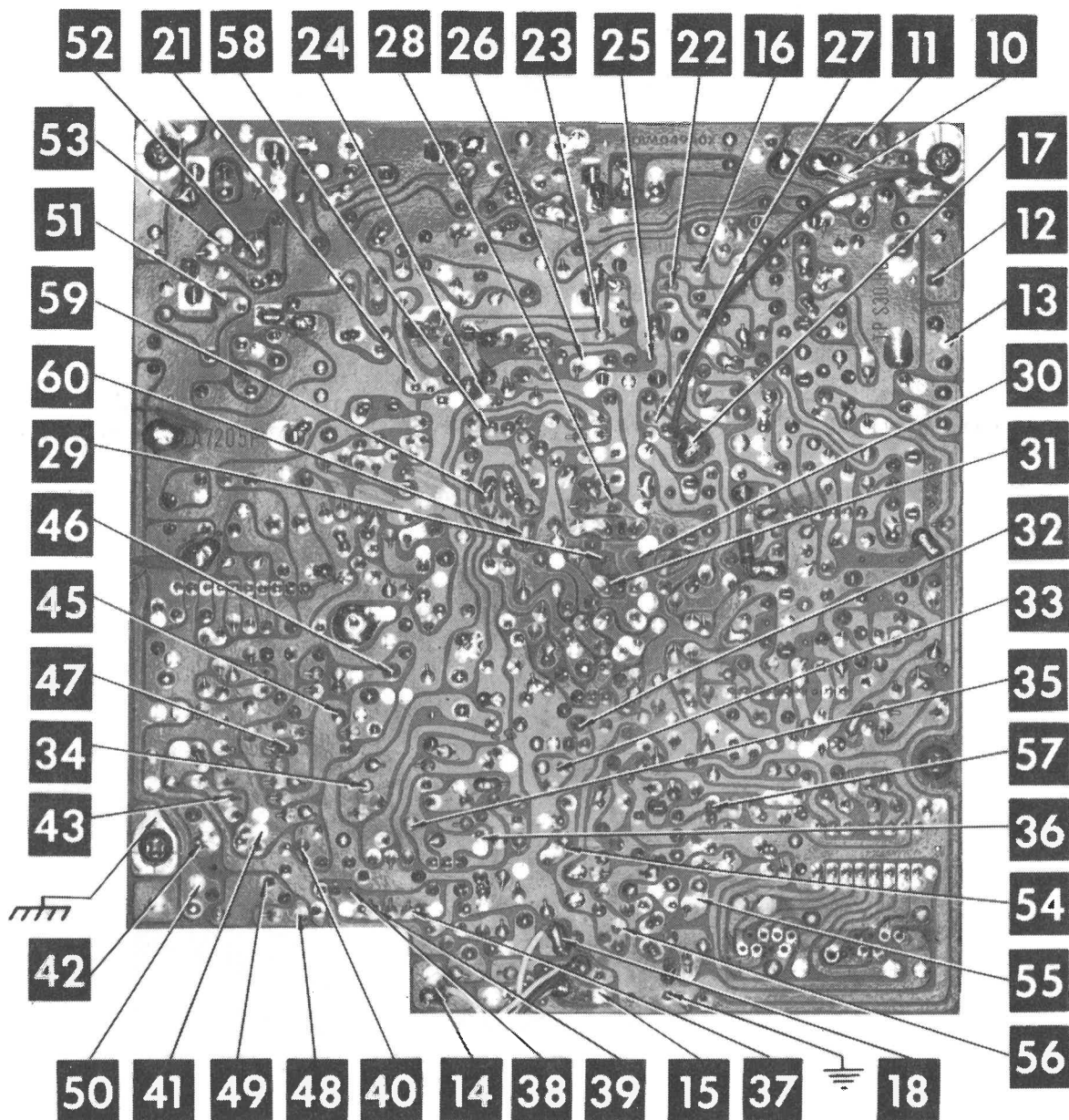
CHASSIS - BOTTOM



MAIN BOARD

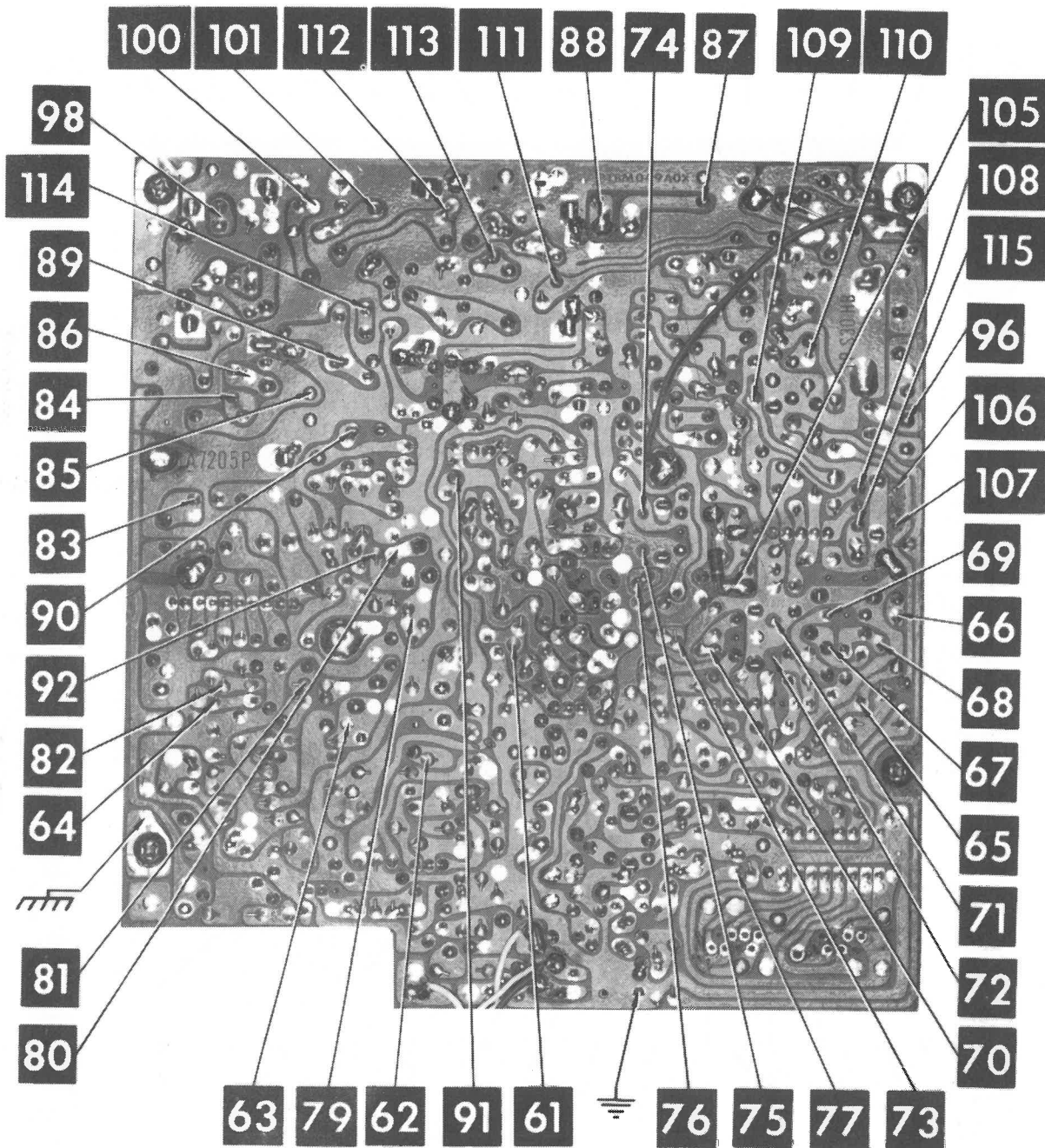


LAFAYETTE MODEL HB-940

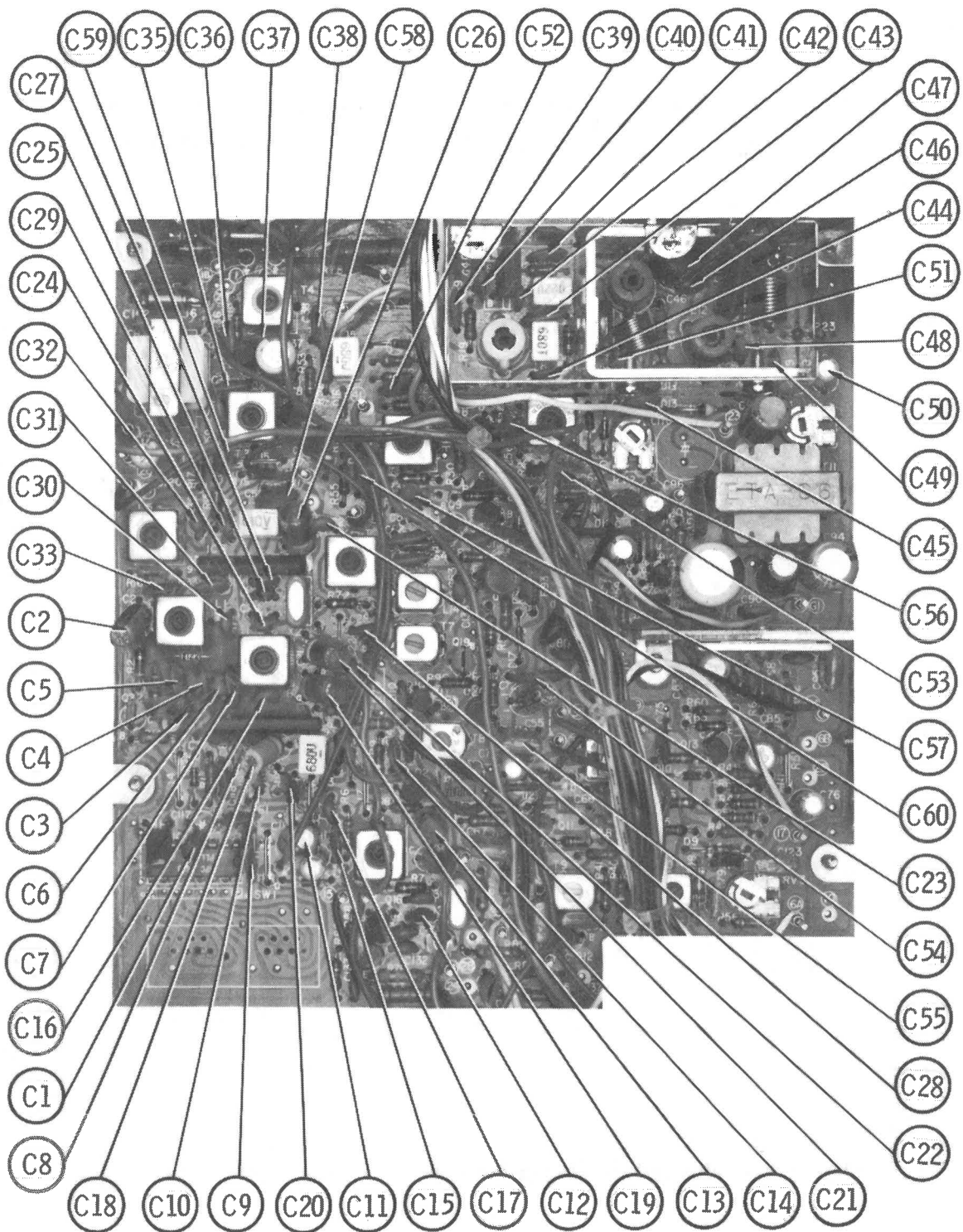


MAIN BOARD

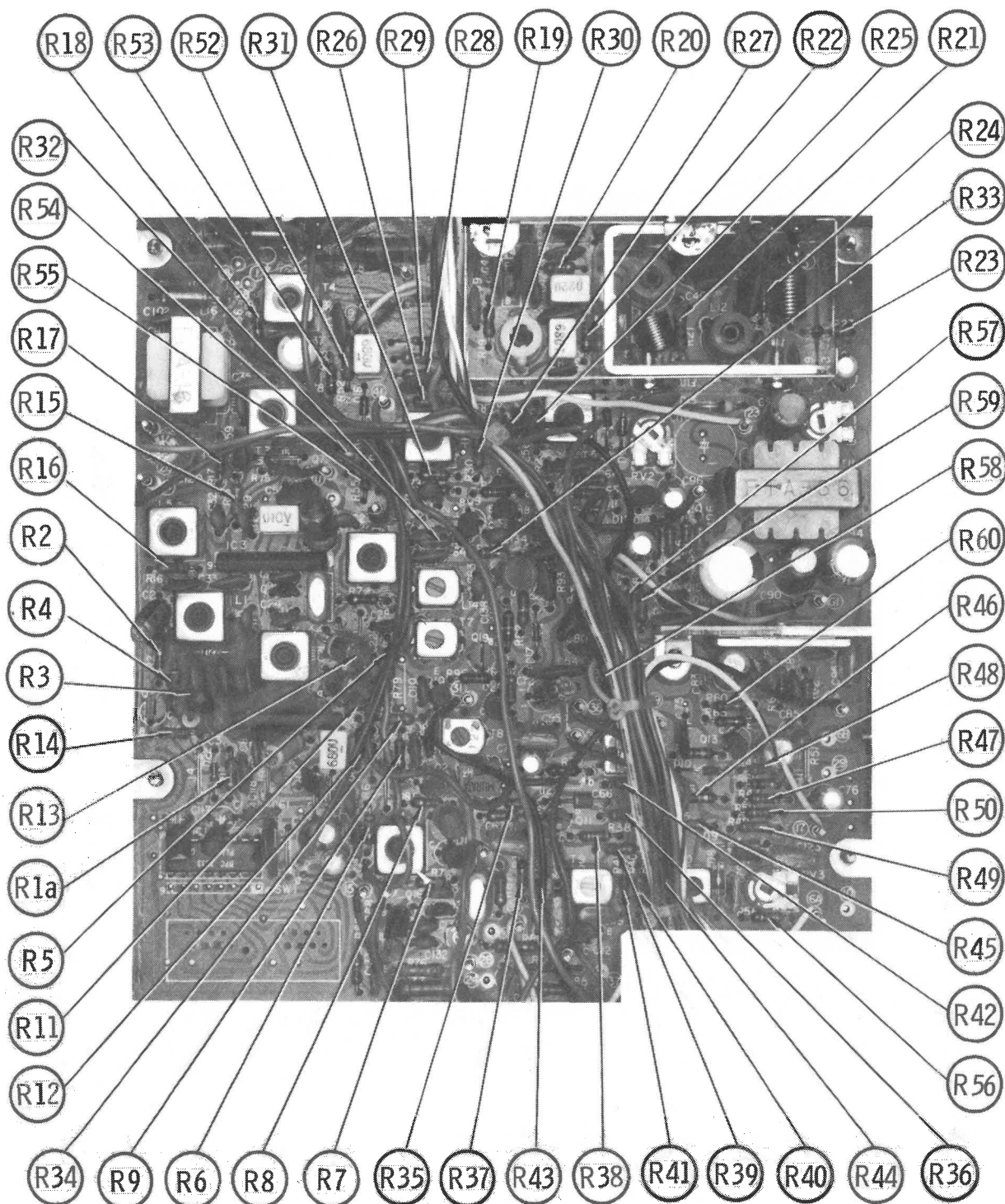
LAFAYETTE MODEL HB-940



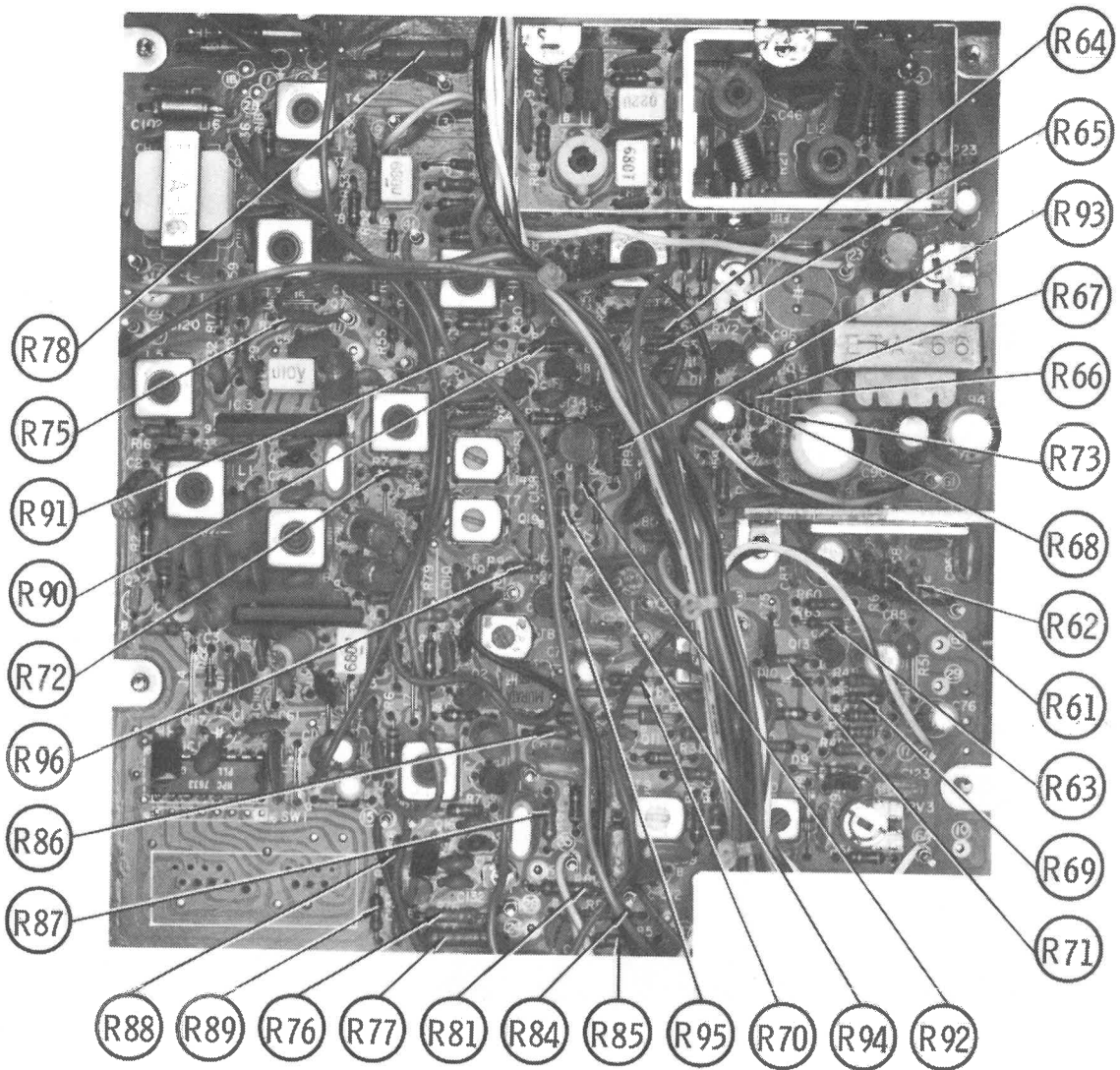
MAIN BOARD



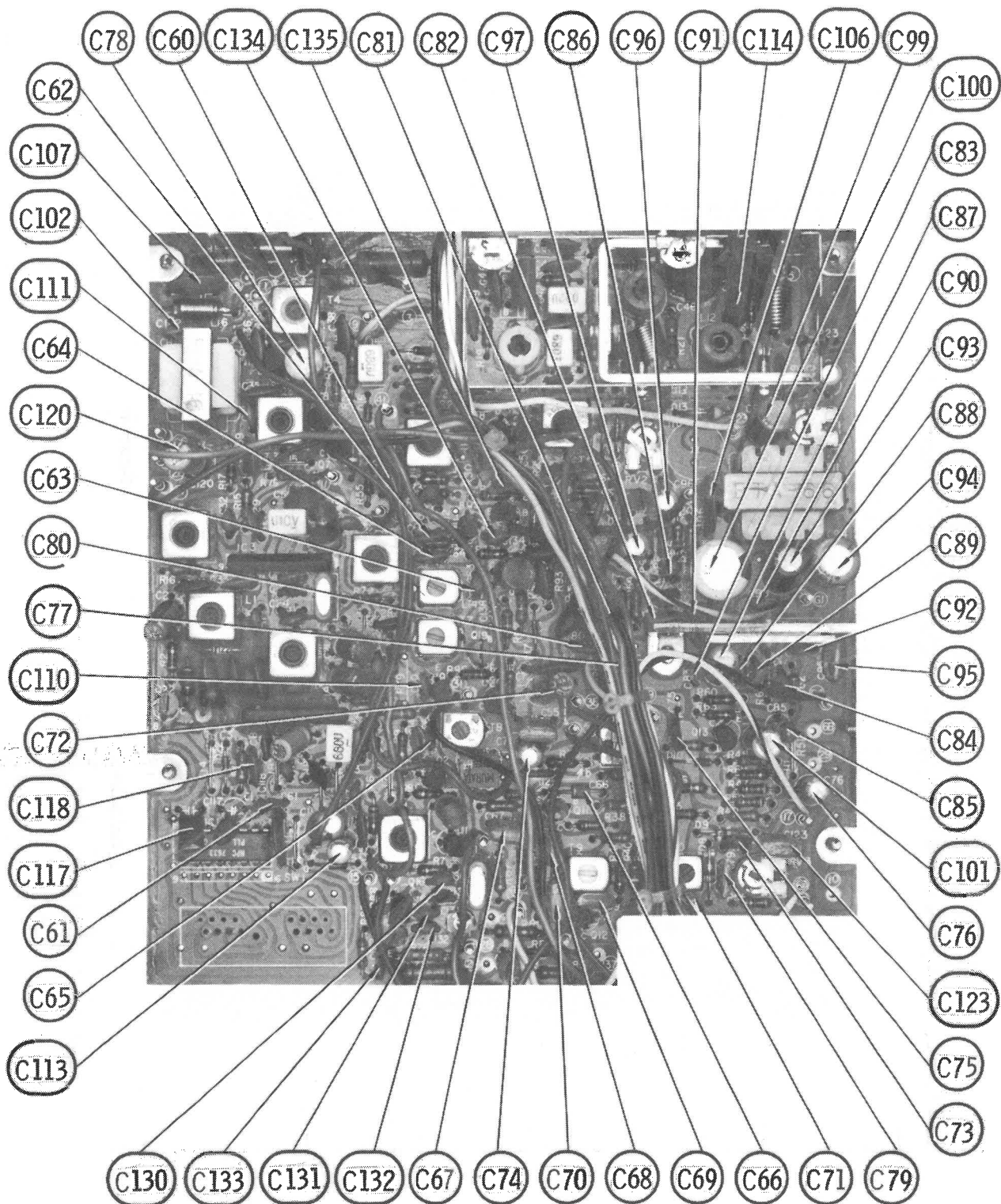
MAIN BOARD



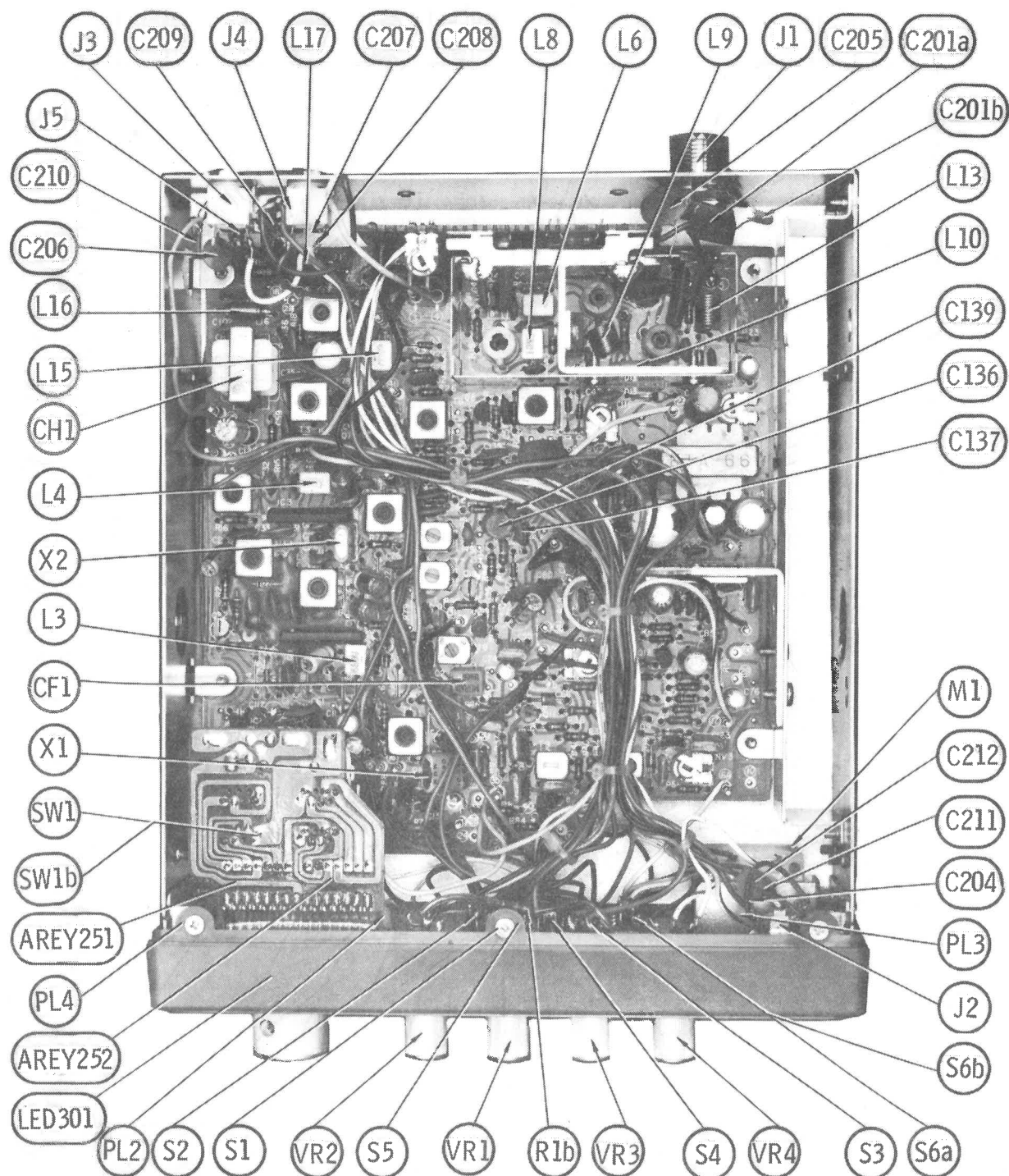
MAIN BOARD



MAIN BOARD

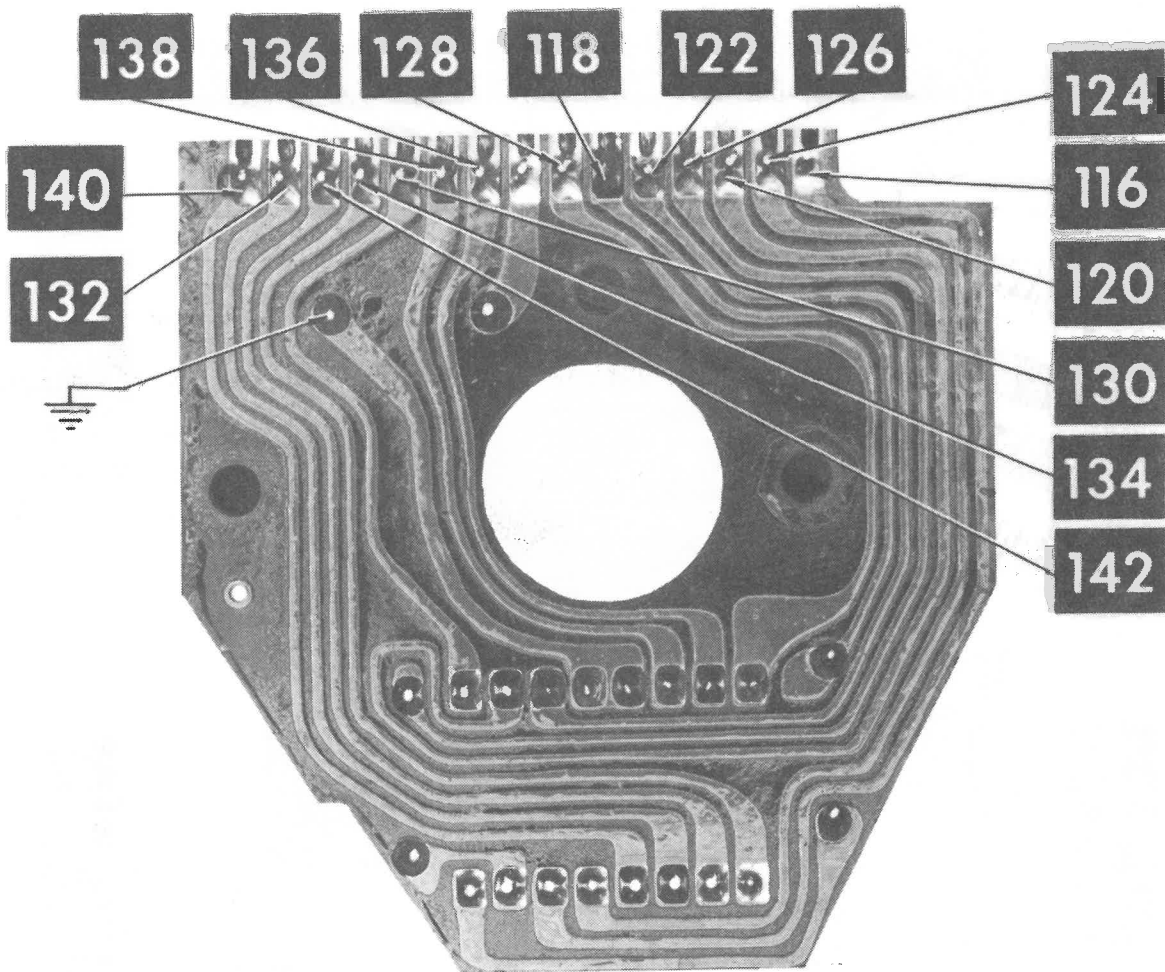


MAIN BOARD

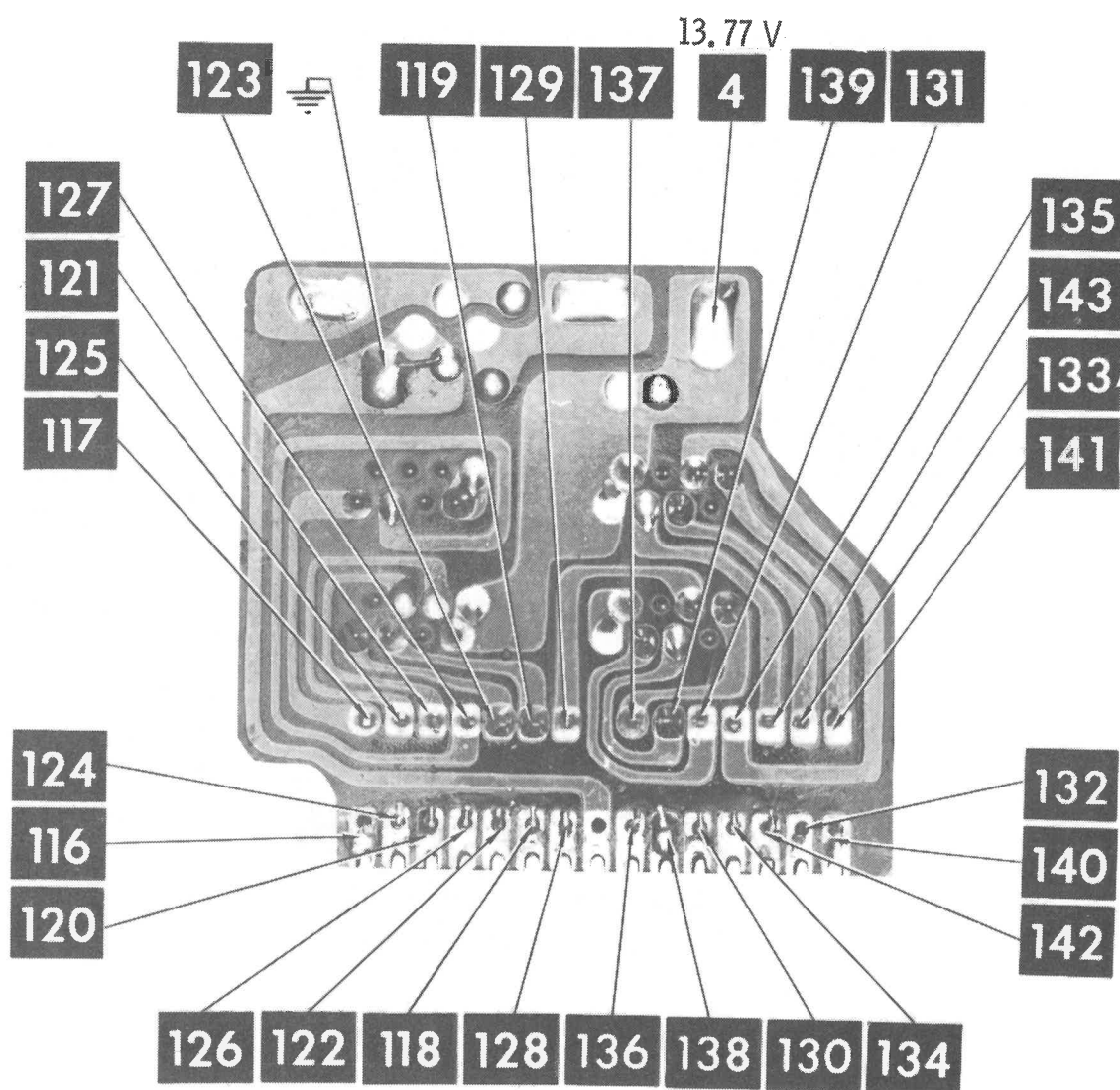


CH. SELECTOR LED BOARD

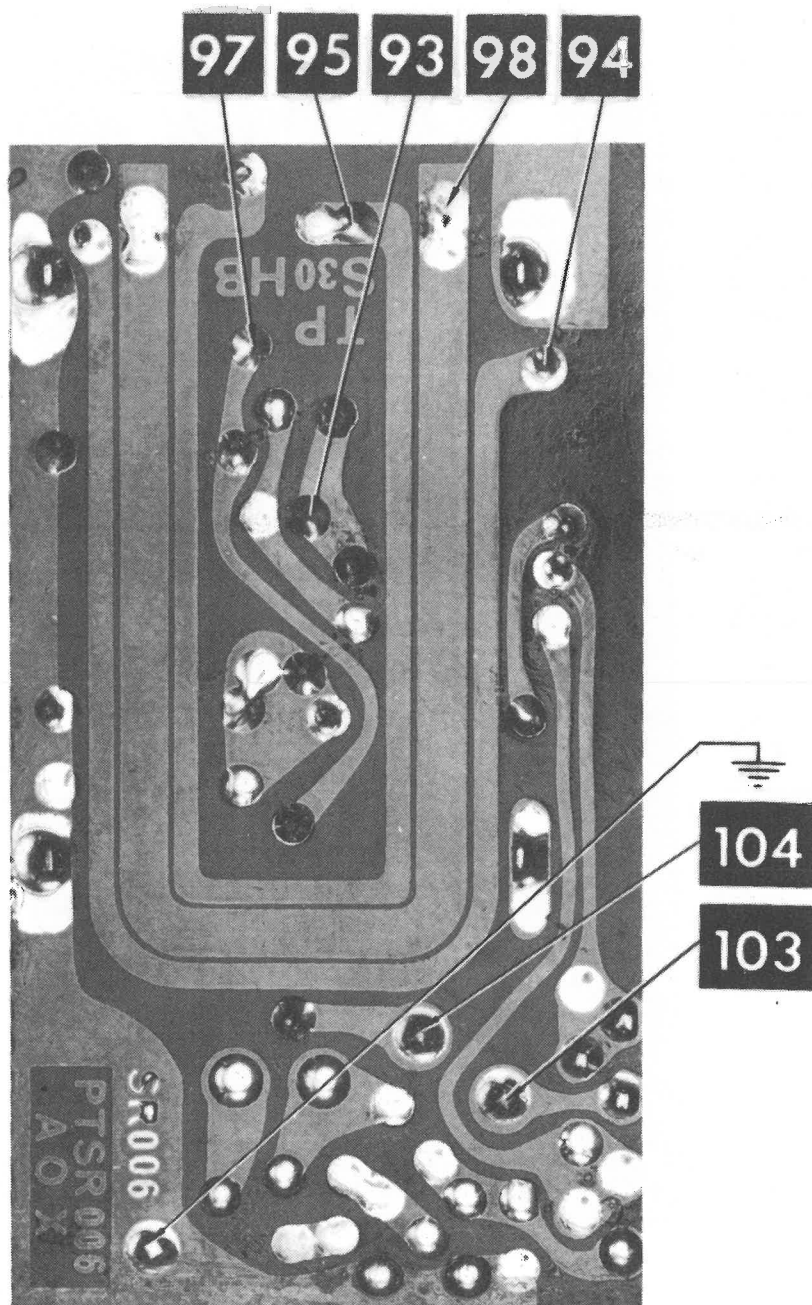
LAFAYETTE MODEL HB-940



CH. SELECTOR LED BOARD

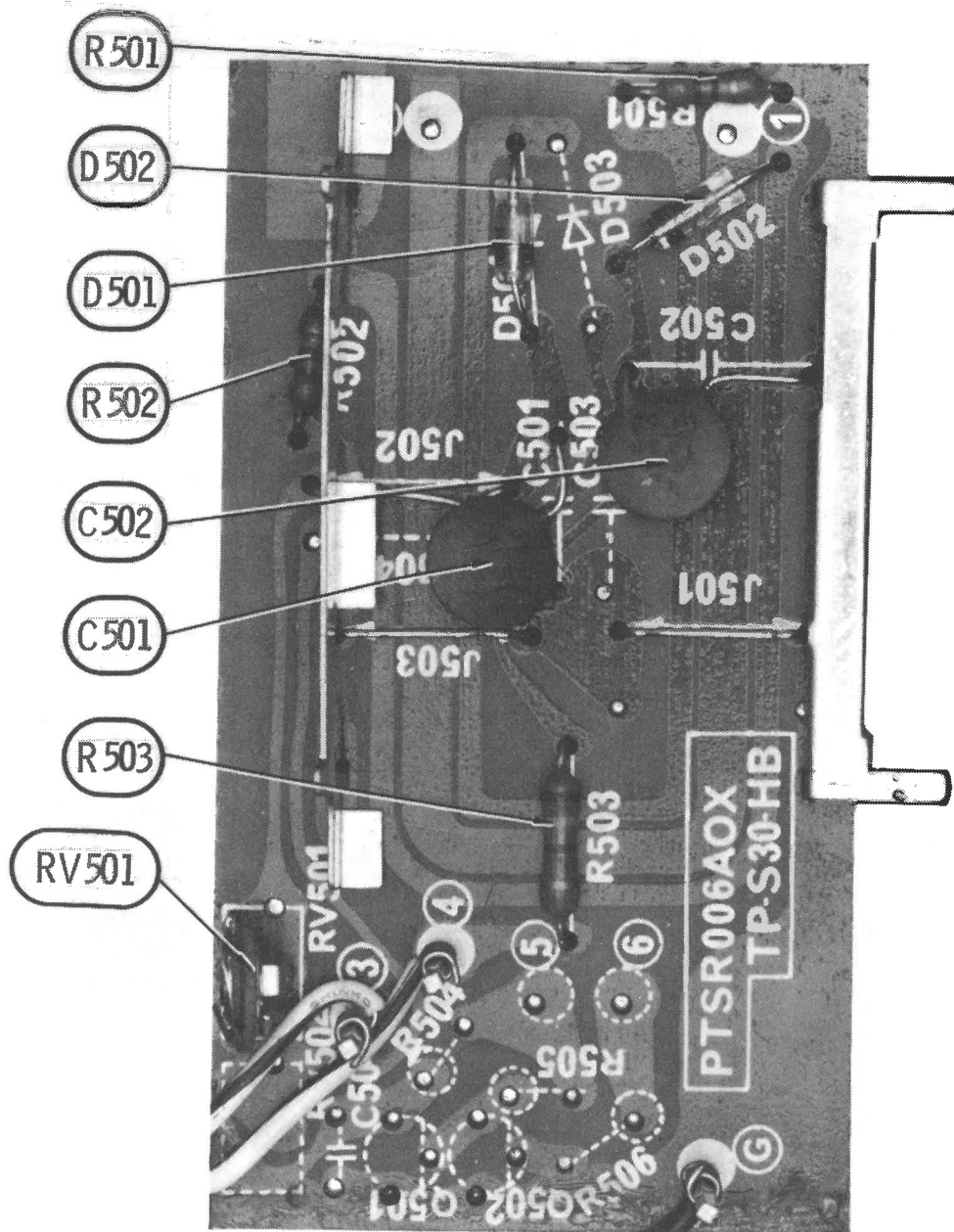


CH. SELECTOR BOARD



LAFAYETTE MODEL HB-940

SWITCH BOARD



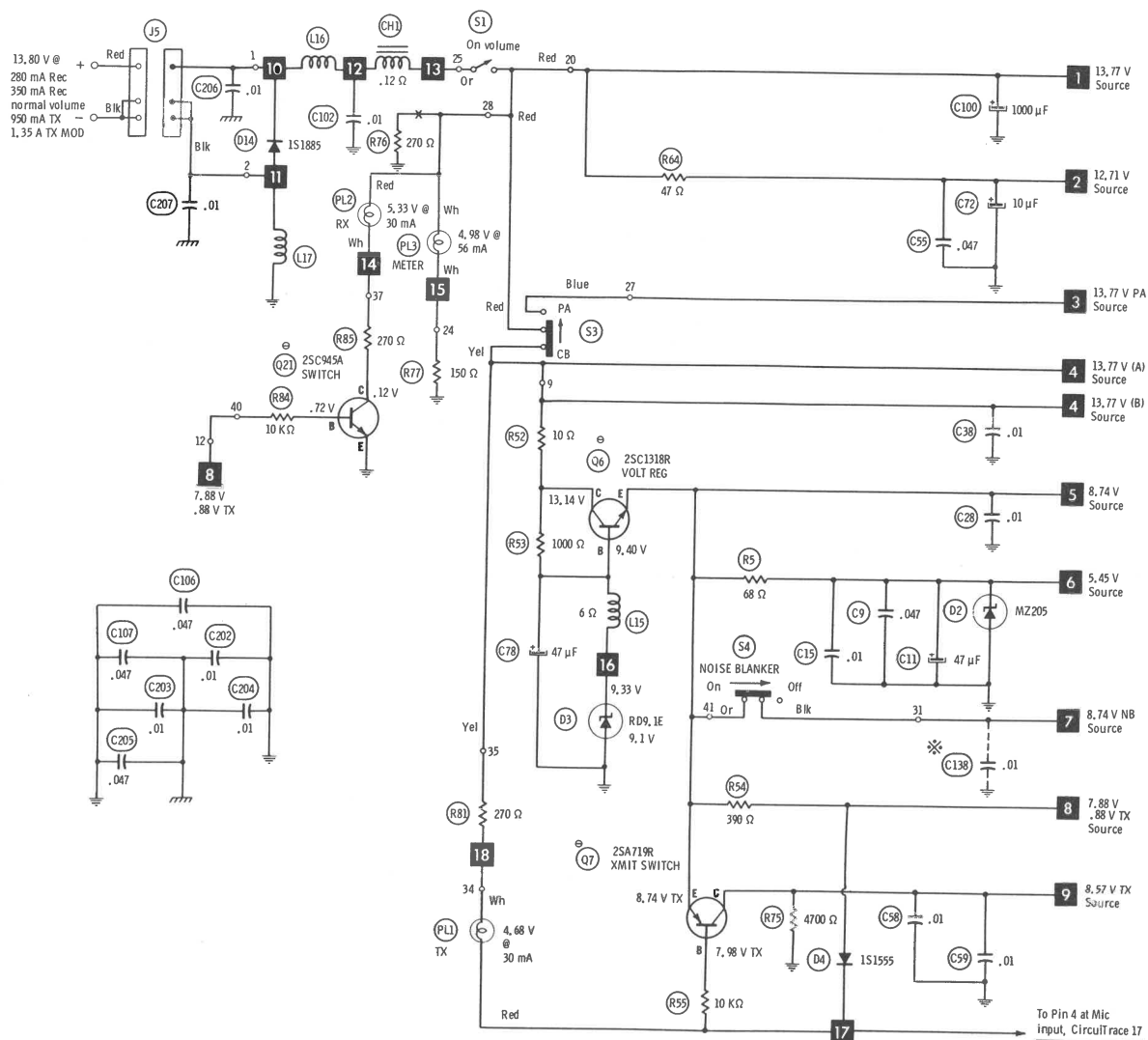
SWITCH BOARD

TRUTH CHART

1 = <u>5.45</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC1 PROGRAM DIVIDER							REC & XMIT VCO OUTPUT IN MHz AT TP4
	PINS							
	9	10	11	12	13	14	15	
1	1	0	0	1	0	1	0	37.660
2	1	0	0	1	0	0	1	37.670
3	1	0	0	1	0	0	0	37.680
4	1	0	0	0	1	1	0	37.700
5	1	0	0	0	1	0	1	37.710
6	1	0	0	0	1	0	0	37.720
7	1	0	0	0	0	1	1	37.730
8	1	0	0	0	0	0	1	37.750
9	1	0	0	0	0	0	0	37.760
10	0	1	1	1	1	1	1	37.770
11	0	1	1	1	1	1	0	37.780
12	0	1	1	1	1	0	0	37.800
13	0	1	1	1	0	1	1	37.810
14	0	1	1	1	0	1	0	37.820
15	0	1	1	1	0	0	1	37.830
16	0	1	1	0	1	1	1	37.850
17	0	1	1	0	1	1	0	37.860
18	0	1	1	0	1	0	1	37.870
19	0	1	1	0	1	0	0	37.880
20	0	1	1	0	0	1	0	37.900

1 = <u>5.45</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC1 PROGRAM DIVIDER							REC & XMIT VCO OUTPUT IN MHz AT TP4
	PINS							
21	0	1	1	0	0	0	1	37.910
22	0	1	1	0	0	0	0	37.920
23	0	1	0	1	1	0	1	37.950
24	0	1	0	1	1	1	1	37.930
25	0	1	0	1	1	1	0	37.940
26	0	1	0	1	1	0	0	37.960
27	0	1	0	1	0	1	1	37.970
28	0	1	0	1	0	1	0	37.980
29	0	1	0	1	0	0	1	37.990
30	0	1	0	1	0	0	0	38.000
31	0	1	0	0	1	1	1	38.010
32	0	1	0	0	1	1	0	38.020
33	0	1	0	0	1	0	1	38.030
34	0	1	0	0	1	0	0	38.040
35	0	1	0	0	0	1	1	38.050
36	0	1	0	0	0	1	0	38.060
37	0	1	0	0	0	0	1	38.070
38	0	1	0	0	0	0	0	38.080
39	0	0	1	1	1	1	1	38.090
40	0	0	1	1	1	1	0	38.100

LAFAYETTE MODEL HB-940



✱ Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

✱ Nominal value

⊥ Ground

⏏ Chassis

▽ Common tie point

Measurements made in Channel 1 with switching as shown unless noted.

Item numbers in rectangles appear in the alignment/adjustment instructions.

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Arrow at control indicates direction of advance.

Terminal identification may not be found on unit.

Resistors are 1/2W or less, 5% unless noted.

Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

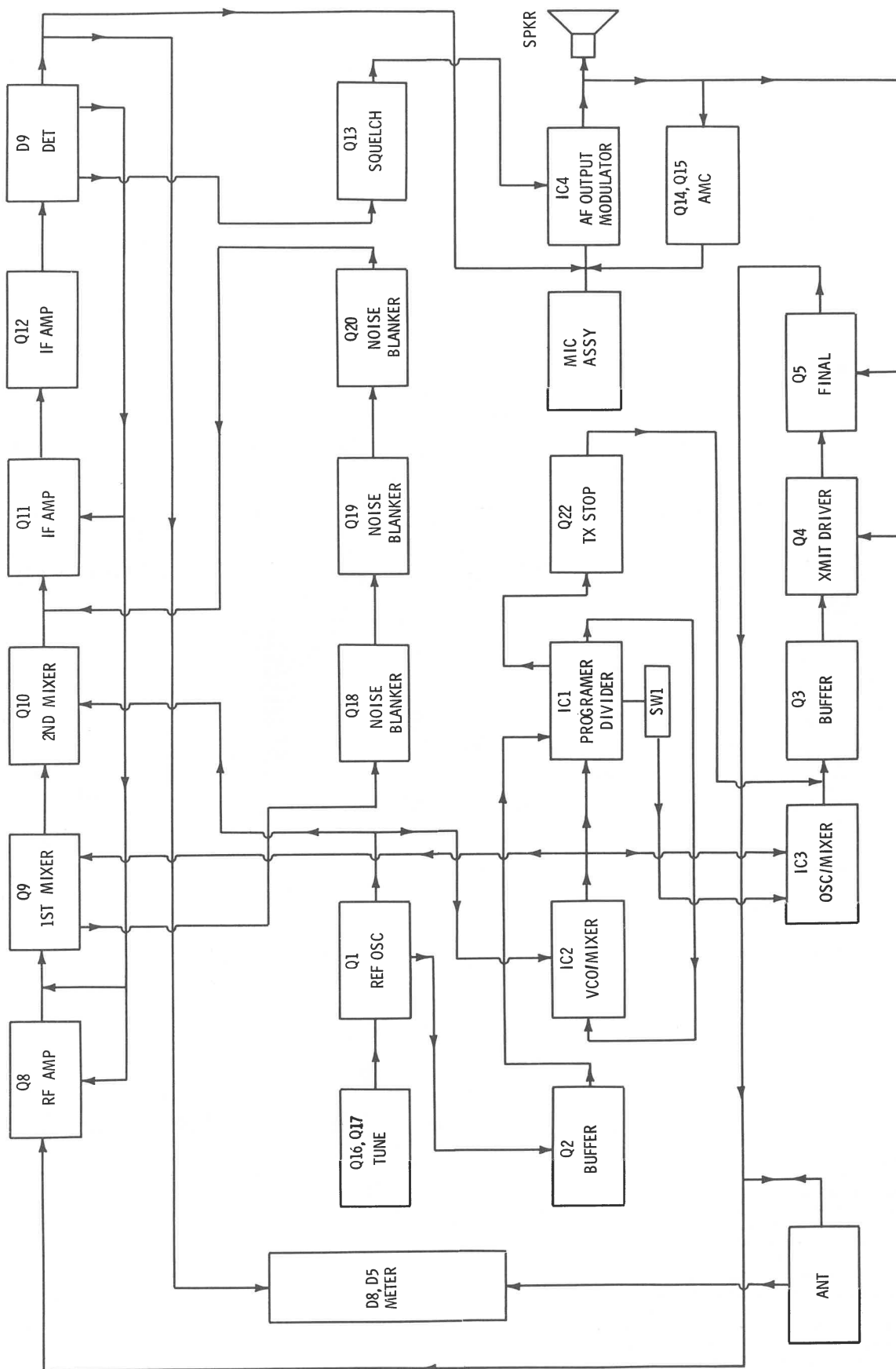
WITH **CIRCUITRACE**

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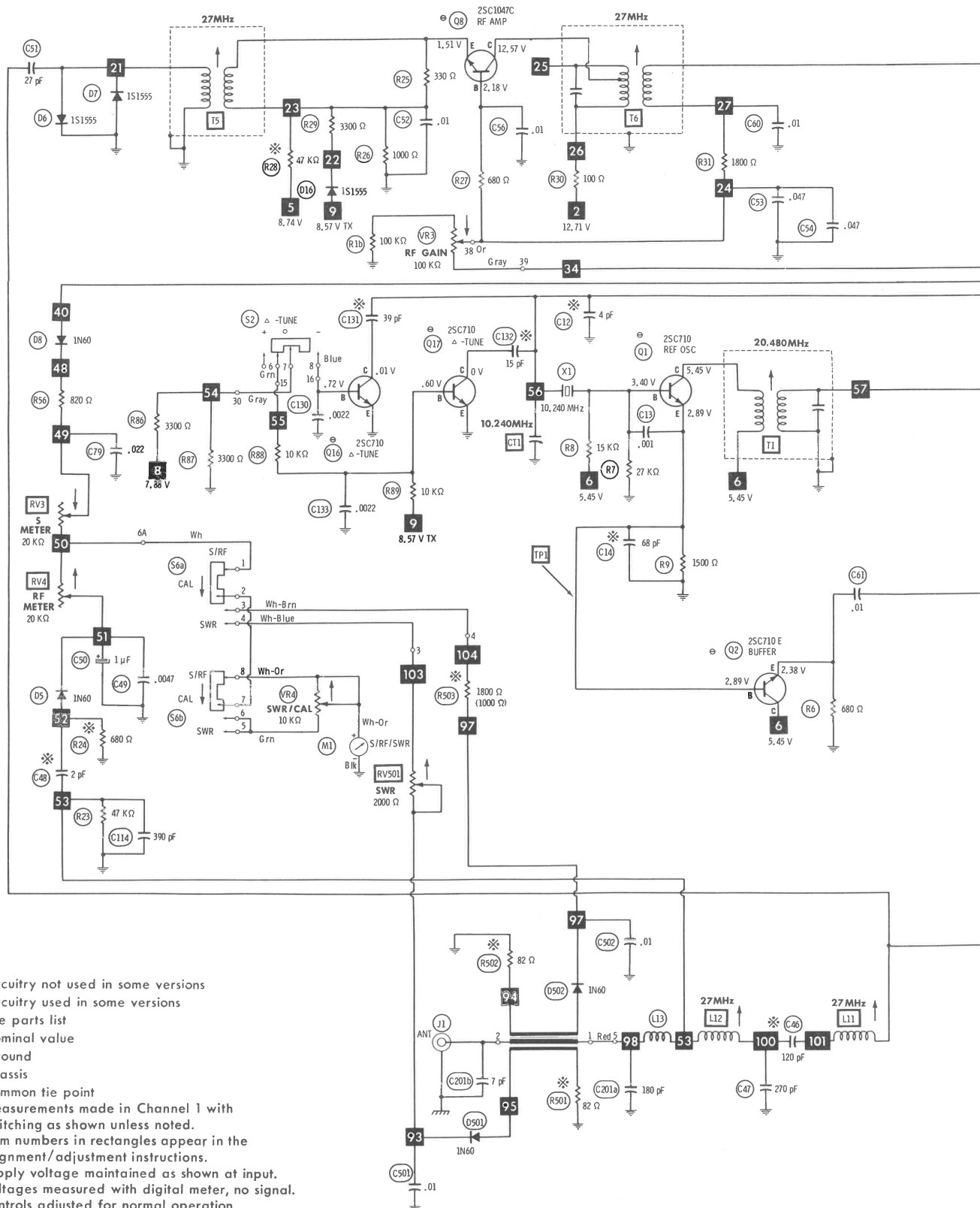
Transistor Terminal Guide

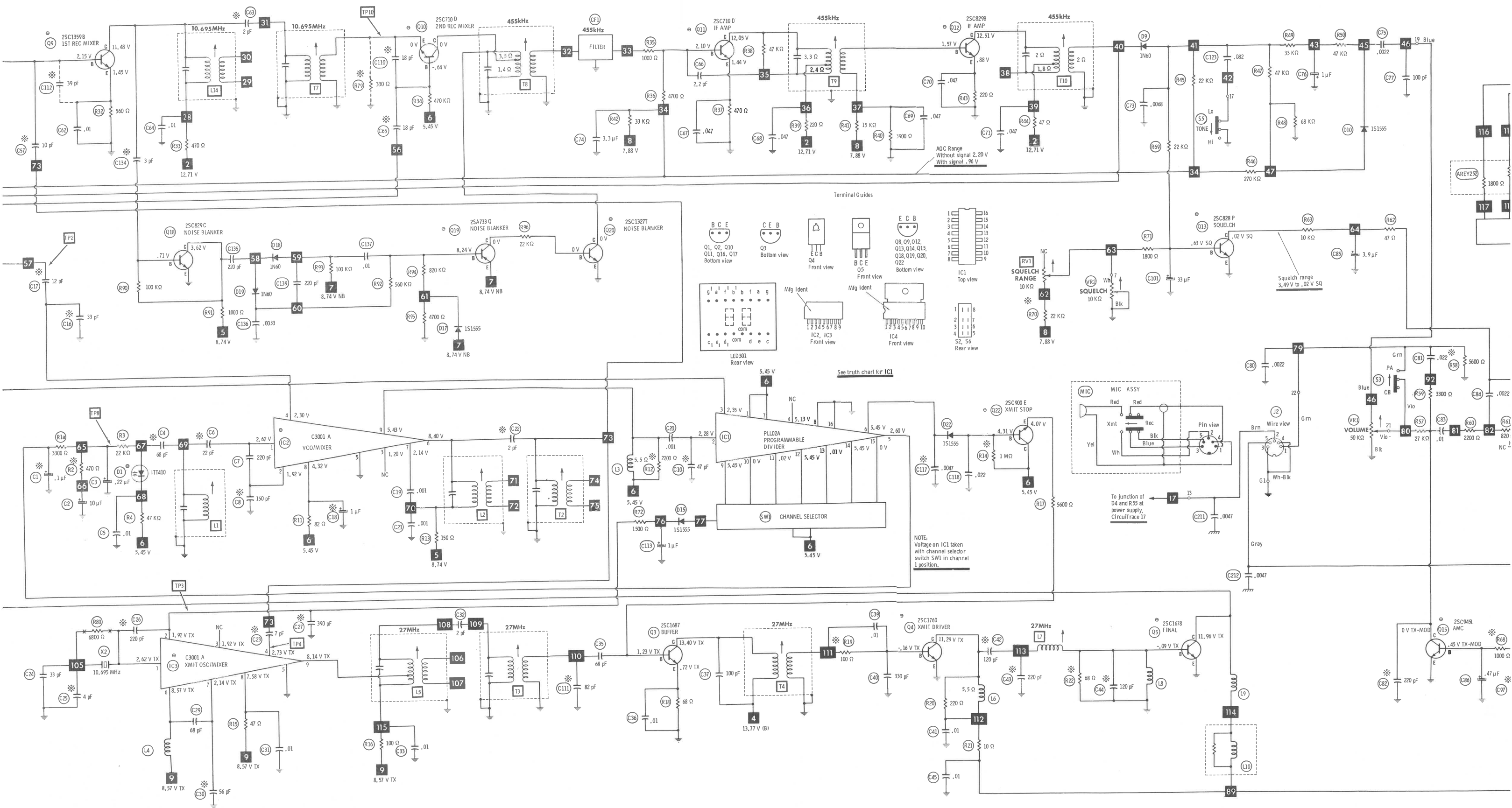


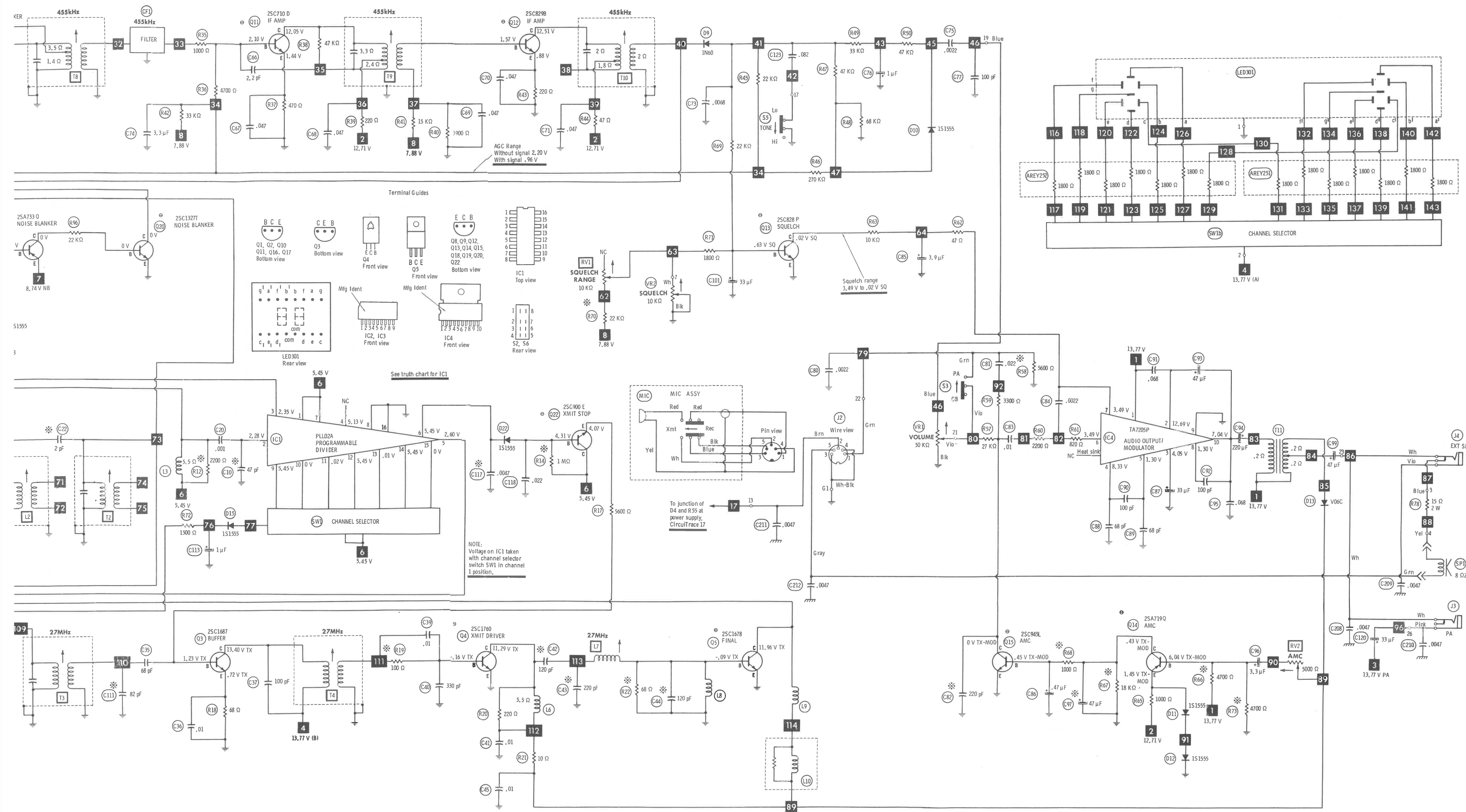
Q6, Q7, Q21
Bottom view



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	4-conductor (unshielded)	31AWG BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	5-conductor (1 shielded)	23AWG BELDEN No. 8415 (6')
			28AWG BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1TT410 BB142 MC201	256717 (1)				HEPR2502 HEPR2502 HEPR2502				ECG612 ECG612 ECG612
D2	MZ205	256817		WEP602			RE 105			ECG135
D3	RD9.1E	245217	GEZD-9,1		ZB9.1B		RE 114		RT-240	ECG139A
D4	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D5	1N60	218017	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D7	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	1N60	218017	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1N60	218017	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D10	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	V06C	194917	GE-504A	5A6D	PTC202	HEPR0054	RE 49	SK3017A	RT-215	ECG116
D14	1S1885	252817	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D15	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D16	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D17	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D18	1N60	218017	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D19	1N60	218017	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D22	1S1555	193717	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D501	1N60	218017	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D502	1N60	218017	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
IC1	PLL02A PLL02	106525 (1)		WEP2007 WEP2007			RE 360-IC RE 360-IC			ECG1167 ECG1167 ECG1192
IC2	C3001A C3001	(1) 107225(1)								ECG1192 ECG1192 ECG1192
IC3	TA7310P C3001A C3001	(1) 107225(1) 105325(1)								ECG1192 ECG1192 ECG1192
IC4	TA7310P TA7205P	(1) 105325(1)								ECG1195 ECG1195
Q1	2SC710 2SC710D	227517(1)	GEIC-179 GE-211 *	WEP949 (IR)25C710	PTC780 PTC132	HEPS0016 *	RE 357-IC RE 13 *	SK3231 SK3018 *	TVMC-81 RT-308 *	ECG1195 ECG123A *
Q2	2SC710 2SC710D	227517(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q3	2SC710 2SC1687	227517(1) 256517	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q4	2SC1687 2SC1760	256517 (12)	GE-20 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A *	ECG123A *
	2SC1846	(1)	GE-276	WEP1014	PTC180		RE 224			ECG306
	2SC1846QR	261317(1)	GE-336	WEP913			RE 209			ECG295
Q5	2SC2036 (1)	256317(1)	GE-336	WEP771			RE 209			ECG306
	2SC1678	(13)	GE-322	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
	2SC2075	(1)	GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
	2SC1306	239917(1)	GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
	2SC1974	(1)	GE-337	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
Q6	2SC1318R (1)	231017(1)	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
	2SC1318	(1)	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
	2SC1318QR	(1)	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
Q7	2SA719R (1)	231017(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA719	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA720	(1)	GE-82	TR-19 *	PTC127 *	HEPS0026 *	RE 211	SK3114	RT-126A *	ECG298
	2SA719P,Q, R	256317(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
Q8	2SC1047C (1)	256317(1)	GE-60 *	(IR)25C829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)25C829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC710	(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC460	(1)	GE-61 *	(IR)25C460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
Q9	2SC710D (1)	227517(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC1359B	(1)	GE-212	(IR)25C380A	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC1359BC	246917	GE-212	(IR)25C380A	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC1359	(1)	GE-212	(IR)25C380A	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
Q10	2SC710 (1)	227517(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC829	(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC839	(1)	GE-61 *	(IR)25C644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q11	2SC710 (1)	227517(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308	ECG123A *
	2SC710D	(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308	ECG123A *
	2SC829	(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q12	2SC829B (1)	228417(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829C	(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC710	(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *

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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q13	2SC828P (1)	202617(1)	GE-61 *	(IR)25C828P	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828	(1)	GE-61 *	(IR)25C828P	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC945	(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q14	2SC372 (1)	261417	GE-61 *	(IR)25C372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	2SA719Q	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA719	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA720	(1)	GE-82	TR-19	PTC127 *	HEPS0026	RE 211	SK3114	RT-126A *	ECG298
Q15	2SA564 (1)	261517(1)	GE-65	(IR)25A564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SC945L	(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945L,P, Q	(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC900	(1)	GE-62	(IR)25C644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC945	(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q16	2SC710 (1)	227517(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC829	(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC839	(1)	GE-61 *	(IR)25C644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q17	2SC710 (1)	227517(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	(1)	GE-211 *	(IR)25C710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC829	(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q18	2SC829C (1)	228417	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q19	2SA733Q (1)	231517(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
	2SA733	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
Q20	2SA733PQ (1)	231517(1)	GE-85 *	(IR)25C945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC1327	(1)	GE-85 *	(IR)25C945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC1327	(1)	GE-85 *	(IR)25C945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
Q21	2SC1327TU (1)	261717(1)	GE-85 *	(IR)25C945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC945A	(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q22	2SC945QR (1)	212117(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC900E	(1)	GE-62	(IR)25C644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900	(1)	GE-62	(IR)25C644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900UE	231417(1)	GE-62	(IR)25C644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199

* Lead configuration may vary from original.
(1) Used in some versions.
(12) (Q4) 950 MW @ 500 MA.
(13) (Q5) 10 WATT @ 3.0 AMP.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFRG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	.1 10V	118652	PC10-25	TDC104M050EL	QDT1-2	SD50-R109
C22	10 16V	104352		VTT10B25	QV1-41	EV-1222
C3	.22 10V	119252		TDC224M050EL	QDT1-10	SD50-R229
C11	47 10V	106252	PC50-16	VTT47D16	QV1-73	EV-1226
C18	1 50V	101552	PC1-50	VTT1A50	QV1-11	EV-1615
C50	1 50V	101552	PC1-50	VTT1A50	QV1-11	EV-1615
C72	10 16V	104352	PC10-25	VTT10B25	QV1-41	EV-1222
C74	3.3 25V	102652	PC5-50	VTT3R3A50	QV1-23	EV-1318
C76	1 50V	101552	PC1-50	VTT1A50	QV1-11	EV-1615
C78	47 16V	106352	PC50-16	VTT47D16	QV1-73	EV-1226
C85	3.9 10V	163858		TDC475M010EL	QDT1-48	SD10-4R79
C86	.47 10V	113352		TDC474M050EL	QDT1-19	SD50-R479
C87	33 6.3V	105652	PC30-25	VTT33B10	QV1-61	EV-1125
C93	47 16V	106352	PC50-16	VTT47D16	QV1-73	EV-1226
C94	220 16V	109452	PC250-25	VTT220H16	QV1-117	EV-1240
C96	3.3 25V	102652	PC5-50	VTT3R3A50	QV1-23	EV-1318
C97	47 16V	106352	PC50-16	VTT47D16	QV1-73	EV-1226
C99	47 25V	106452	PC50-25	VTT47E25	QV1-75	EV-1326
C100	1000 16V	111652	PC1000-16	VTT1000L16	QV1-183	EV-1260
C101	33 6.3V	105652	PC30-25	VTT33B10	QV1-61	EV-1125
C113	1 50V	101552	PC1-50	VTT1A50	QV1-11	EV-1615
C120	33 16V	105852	PC30-25	VTT33D25	QV1-63	EV-1325

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.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q13	2SC828P	202617(1)	GE-61 *	(1R)2SC828P	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828	(1)	GE-61 *	(1R)2SC828P	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC945	(1)	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q14	2SC372	(1)	GE-61 *	(1R)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	2SA719Q	261417	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA719	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
Q15	2SA720	(1)	GE-82	TR-19	PTC127 *	HEPS0026	RE 211	SK3114	RT-126A *	ECG298
	2SA564	(1)	GE-65	(1R)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SC945L,P	261517(1)	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q16	2SC900	(1)	GE-62	(1R)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC945	(1)	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC710	227517(1)	GE-211 *	(1R)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q17	2SC829	(1)	GE-20 *	(1R)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC839	(1)	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
	2SC710	227517(1)	GE-211 *	(1R)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SC710	227517(1)	GE-211 *	(1R)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC829	(1)	GE-20 *	(1R)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC839	(1)	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q19	2SC829C	228417	GE-20 *	(1R)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(1R)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SA733Q	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
Q20	2SA733PQ	231517(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
	2SC1327T	(1)	GE-85 *	(1R)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC1327	(1)	GE-85 *	(1R)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
Q21	2SC900	(1)	GE-62	(1R)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC1327TU	261717(1)	GE-85 *	(1R)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC945A	(1)	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q22	2SC945	(1)	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945QR	212117(1)	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC900E	(1)	GE-62	(1R)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q22	2SC900	(1)	GE-62	(1R)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900UE	231417(1)	GE-62	(1R)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199

* Lead configuration may vary from original.

(1) Used in some versions.

(12) (Q4) 950 MW @ 500 MA.

(13) (Q5) 10 WATT @ 3.0 AMP.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	.1 10V	118652		TDC104M050EL	QDT1-2	SD50-R109
C2	10 16V	104352		VTT10B25	QV1-41	EV-1222
C3	.22 10V	119252	PC10-25	TDC224M050EL	QDT1-10	SD50-R229
C11	47 10V	106252	PC50-16	VTT47D16	QV1-73	EV-1226
C18	1 50V	101552	PC1-50	VTT1A50	QV1-11	EV-1615
C50	1 50V	101552	PC1-50	VTT1A50	QV1-11	EV-1615
C72	10 16V	104352	PC10-25	VTT10B25	QV1-41	EV-1222
C74	3.3 25V	102652	PC5-50	VTT3R3A50	QV1-23	EV-1318
C76	1 50V	101552	PC1-50	VTT1A50	QV1-11	EV-1615
C78	47 16V	106352	PC50-16	VTT47D16	QV1-73	EV-1226
C85	3.9 10V	163858		TDC475M01 0EL	QDT1-48	SD10-4R79
C86	47 10V	113352		TDC474M050EL	QDT1-19	SD50-R479
C87	33 6.3V	105652	PC30-25	VTT33B10	QV1-61	EV-1125
C93	47 16V	106352	PC50-16	VTT47D16	QV1-73	EV-1226
C94	220 16V	109452	PC250-25	VTT220H16	QV1-117	EV-1240
C96	3.3 25V	102652	PC5-50	VTT3R3A50	QV1-23	EV-1318
C97	47 16V	106352	PC50-16	VTT47D16	QV1-73	EV-1226
C99	47 25V	106452	PC50-25	VTT47E25	QV1-75	EV-1326
C100	1000 16V	111652	PC1000-16	VTT1000L16	QV1-183	EV-1260
C101	33 6.3V	105652	PC30-25	VTT33B10	QV1-61	EV-1125
C113	1 50V	101552	PC1-50	VTT1A50	QV1-11	EV-1615
C120	33 16V	105852	PC30-25	VTT33D25	QV1-63	EV-1325

CAPACITORS

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C4	68 N150				*		10TCP-Q68
C5	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C6	22 N150				*		10TCP-Q22
C7	220		DD-221		GP322		10TS-T22
C8	120		DTZ-120		CN0312		10TCC-T12
C9	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C10	47		DTZ-47	NP047	CN0447		10TCC-Q47
C12	4 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE	PART No.
						Q-LINE	GENERAL LINE
C13	.001	(1)	DC-103 DTZ-33	DPMS6D1	EWF1A210	QF1-1	1PB-D10
C14	68 N150			*		10TCP-Q68	
C15	.01			MGP01	TA110	QC2-141	TG-S10
C16	33			NPO33	CN0433		10TCC-Q33
C17	12 N150			*			10TCP-Q12
C19	.001			DPMS6D1	EWF1A210	QF1-1	1PB-D10
C20	.001			DPMS6D1	EWF1A210	QF1-1	1PB-D10
C21	.001			DPMS6D1	EWF1A210	QF1-1	1PB-D10
C22	2			DTZ-2R2	NPO2P2	CN0522	10TCC-V22
C23	7			DTZ-6R8	NPO6P8	CN0568	10TCC-V68
C24	33 N150				*	10TCP-Q33	
C25	4 N150				*	10TCP-V39	
C26	220			CD15FD221J03	SX322	QW1-35	MMA-221
C27	390		DD-391	GP390	GP339		10TS-T39
C28	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C29	68		DD-680	GP68	GP468		10TS-Q68
C30	56		DD-560		GP456		10TS-Q56
C31	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C32	2		DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C33	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C35	68		DD-680	GP68	GP468		10TS-Q68
C36	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C37	100 N150				*		10TCP-T10
C38	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C39	.01		WMF1S1	WMF1S1	EWF1A110	QF1-91	1PB-S10
C40	330		DD-331	GP330	GP333		10TS-T33
C41	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C42	120		DTZ-120		CN0312		10TCC-T12
C43	220		DD-221		GP322		10TS-T22
C44	120		DTZ-120		CN0312		10TCC-T12
C45	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C46	120		DTZ-120		CN0312		10TCC-T12
C47	270			CD15FD271J03	SX327	QW1-37	MMA-271
C48	2		DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C49	.0047		DD-472	GP4700	GP247		5GA-D47
C51	27				CN0427		10TCC-Q27
C52	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C53	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C54	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C55	.047			DPMS2S47	EWF1A147	QF1-171	1PB-S47
C56	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C57	10		DTZ-10	NPO10	CN0410		10TCC-Q10
C58	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C59	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C60	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C61	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C62	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C63	2		DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C64	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C65	18 N150				*		10TCP-Q18
C66	2.2	DTZ-2R2	NPO2P2	CN0522		10TCC-V22	
C67	.047		DPMS2S47	EWF1A147	QF1-171	1PB-S47	
C68	.047		DPMS2S47	EWF1A147	QF1-171	1PB-S47	
C69	.047		DPMS2S47	EWF1A147	QF1-171	1PB-S47	
C70	.047		DPMS2S47	EWF1A147	QF1-171	1PB-S47	
C71	.047		DPMS2S47	EWF1A147	QF1-171	1PB-S47	
C73	.0068		WMF1 D68	EWF1A268	QF1-73	1PB-D68	
C75	.0022		DPMS6D22	EWF6222		6PS-D22	
C77	100	DD-101	GP100	GP310		10TS-T10	
C79	.022		DPMS2S22	EWF1A122	QF1-127	1PB-S22	
C80	.0022	DD-222		GP222	QC2-97	5GA-D22	
C81	.022		DPMS2S22	EWF1A122	QF1-127	1PB-S22	
C82	220	DD-221		GP322		10TS-T22	
C83	.01		WMF1S1	EWF1A110	QF1-91	1PB-S10	
C84	.0022			GP222	QC2-97	5GA-D22	
C88	68	DD-680	GP68	GP468		10TS-Q68	
C89	68	DD-680	GP68	GP468		10TS-Q68	
C90	100	DD-101	GP100	GP310		10TS-T10	
C91	.068		WMF1S68	EWF1A168	QF1-195	1PB-S68	
C92	100	DD-101	GP100	GP310		10TS-T10	
C95	.068		WMF1S68	EWF1A168	QF1-195	1PB-S68	
C102	.01	DC-103	MGP01	TA110	QC2-141	TG-S10	
C106	.047	DC-503	MGP05	TA150	QC2-207	TG-S50	
C107	.047	DC-503	MGP05	TA150	QC2-207	TG-S50	
C110	18	DD-820		CN0418		10TCC-Q18	
C111	82			GP482		10TS-Q82	
C112	39			CN0439		10TCC-Q39	
C114	390		CD15FD391J03	SX339	QW1-41	MMA-391	
C117	.0047		WMF1 D47	EWF1A247	QF1-57	1PB-D47	
C118	.022	DC-253	MGP025	TA125		TG-S25	
C123	.068		WMF1S68	EWF1A168	QF1-195	1PB-S68	
C130	.0022	DD-222		GP222	QC2-97	5GA-D22	
C131	39 N150			*		10TCP-Q39	
C132	15 N150			*		10TCP-Q15	
C133	.0022	DD-222		GP222	QC2-97	5GA-D22	
C134	3	DTZ-3R3	NPO3P3	CN0533		10TCC-V33	
C135	220	DD-221		GP322		10TS-T22	
C136	.0033		CD19FD332J03	SX233		MMA-332	
C137	.01	DC-103	MGP01	TA110	QC2-141	TG-S10	
C138	.01	DC-103	MGP01	TA110	QC2-141	TG-S10	
C139	220	DD-221		GP322		10TS-T22	
C201a	180	DTZ-6R8	CD15FD181J03	SX318	QW1-33	MMA-181	
C201b	7	DC-103	NPO6P8	CN0568		10TCC-V68	
C202	.01	DC-103	MGP01	TA110	QC2-141	TG-S10	
C203	.01	DC-103	MGP01	TA110	QC2-141	TG-S10	
C204	.01	DC-103	MGP01	TA110	QC2-141	TG-S10	
C205	.047	DC-503	MGP05	TA150	QC2-207	TG-S50	

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
C206	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C207	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C208	.0047		DD-472	GP4700	GP247		5GA-D47
C209	.0047		DD-472	GP4700	GP247		5GA-D47
C210	.0047		DD-472	GP4700	GP247		5GA-D47
C211	.0047		DD-472	GP4700	GP247		5GA-D47
C212	.0047		DD-472	GP4700	GP247		5GA-D47
C501	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C502	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
CT1		109951					

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

(1) Used in some versions.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	TRW PART No.
RV1	Squelch Range	10K	271613			U260R103B
RV2	AMC	5000	292513			U260R502B
RV3	S Meter	20K	278013			U260R253B
RV4	RF Meter	20K	278013			U260R253B
RV501	SWR	2000	279213			X260R252B
VR1	Volume/Switch	50K	186711			
VR2	Squelch	10K	184911			
VR3	RF Gain	100K	185011			
VR4	SWR-CAL	10K	184911			

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.
AREY251	Resistor Network		292613(1)	AREY252	Resistor Network		292613 (1)

(1) Consists of seven 1800 ohm resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	VCO	294623			
L2	VCO Mixer	227924			
L3	RF Choke (68uH)	287323			
L4	RF Choke (1uH)	294723			
L5	Xmit Mixer (27MHz)	294823			
L6	RF Choke (2.2uH)	287423			
L7	Xmit Driver (27MHz)	226324			
L8	RF Choke (68uH)	287323			
L9	RF Choke (.55uH)	287623			
L10	RF Choke (1uH)	287523			
L11	Final (27MHz)	226424			
L12	Pi Filter (27MHz)	226524			
L13	RF Choke	294923			
L14	IF (10.695MHz)	291923			
L15	RF Choke (68uH)	287323			
L16	RF Choke (.75uH)	251723			
L17	RF Choke (.75uH)	251723			
T1	Oscillator (10.240MHz)	230024			
T2	VCO Mixer	230124			
T3	Xmit Mixer (27MHz)	291623			
T4	Xmit Buffer (27MHz)	291723			
T5	Rec Antenna (27MHz)	226624			
T6	Rec RF (27MHz)	226724			
T7	IF (10.695MHz)				
T8	IF (455kHz)	227024			
T9	IF (455kHz)	227124			
T10	IF (455kHz)	227824			

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.	
CH1	1.35A	.116	.48mH	287223 EAA-16(1)	TR523		(1) Number on unit.

LAFAYETTE MODEL HB-940

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T11	2.88	1 8 2 13.52	188015 ETA-66(1)	TR723	MCB-16	(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM, 8 Ohms	133536	30A05Z8R	

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	2 Amp		135438	AGC2	HDJ	312002	150145	F62-2

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	110334	18-032	18-034	18-010	18-105	1	3	2	5	NC	3

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Ceramic Filter	141135	455kHz
J1	Jack	221819	Antenna
J2	Jack	237419	Microphone
J3	Jack	206319	PA
J4	Jack	206319	External Speaker
J5	Jack	239119	Power
LED301	LED	261817	Channel Display (SL1222)
M1	Meter	125727	S/Rf/SWR
PL1	Lamp	576520	TX (4.68V @ 30mA)
PL2	Lamp	572620	RX (5.33V @ 30mA)
S1	Switch		Power (Part of Volume Control)
S2	Switch	223314	Delta Tune
S3	Switch	222914	CB/PA
S4	Switch	222914	NB
S5	Switch	222914	Tone
S6	Switch	223314	S-RF/CAL/SWR
SW1	Switch	226714	Channel Selector
X1	Crystal	142035	10.240MHz
X2	Crystal	142135	10.695MHz
	Printed Circuit Board	192616	Main (PTBM049A0X)
	Printed Circuit Board	192916	Switch (PTSW021C0X)
	Printed Circuit Board	192716	LED (PTLD011C0X)
	Printed Circuit Board	192816	SWR (PTSR006A0X)

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

ITEM	PART No.	ITEM	PART No.
Mounting Bracket	125609	Escutcheon	581620
Microphone Holder	105709	Cabinet Top	197880
Knob, Channel	210218	Cabinet Bottom	197980
Knob, Control	210318		