

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.



LAFAYETTE MODEL TELSAT SSB-100

MODEL Telsat SSB-100 (99-33060W)

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

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7CZ452

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. Connect low sides of test equipment to ground unless specified otherwise. Connect 50-ohm dummy load or antenna before keying transmitter.

Suggested Alignment Tools: GC ELECTRONICS

L1, L10, L11, L13, L14, L20	8728
L5, L6, L7	9296, 9297, 9300
L2, L3, L4, L9, L12, L15 thru L19, L201 thru L204	9440
TC1, TC2, TC201 thru TC205	500
L601	8606, 8606L, 8869

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to Q6 emitter.	Ch. 13, USB	TC1	Adjust for 11.275MHz $\pm$ 50Hz.
Input of frequency counter to Q205 emitter.	Ch. 1, USB Ch. 2, USB Ch. 3, USB Ch. 4, USB	TC201 TC202 TC203 TC204	Adjust for 14.910MHz $\pm$ 50Hz. Adjust for 14.920MHz $\pm$ 50Hz. Adjust for 14.930MHz $\pm$ 50Hz. Adjust for 14.950MHz $\pm$ 50Hz.
Input of frequency counter to Q205 emitter.	Ch. 1, AM Fine tune-center	TC205	Adjust between 14.907MHz and 14.908MHz.
Input of frequency counter to L201 secondary.	Ch. 23, AM Ch. 1, AM Ch. 5, AM Ch. 9, AM Ch. 13, AM Ch. 17, AM Ch. 21, AM	L201	Turn L201 counterclockwise until oscillator stops. Turn L201 clockwise until oscillator starts, then continue 1/2 turn further. Check for 23.330MHz $\pm$ 0.2kHz. Check for 23.380MHz $\pm$ 0.2kHz. Check for 23.430MHz $\pm$ 0.2kHz. Check for 23.480MHz $\pm$ 0.2kHz. Check for 23.530MHz $\pm$ 0.2kHz. Check for 23.580MHz $\pm$ 0.2kHz.
Input of RF VTVM to L204 secondary.	Ch. 13, AM	L202, L203, L204	Adjust for maximum.
Input of oscilloscope to L14 secondary.	Ch. 3, LSB	L12, L13, L14	Adjust for maximum.
Input of oscilloscope to L17 secondary.	Ch. 13, LSB	L15, L16, L17	Adjust for maximum.

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 Q17 base. 11.2735MHz, 1000Hz @ 30% modulation.	Ch. 13, AM Fine tune-center	L20, L10, L11	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 13, AM Fine tune-center	L19, L18	Adjust for maximum output. Repeat above steps, if necessary.

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
No signal input. Input of VTVM to TP41.	Ch. 13, USB	RV6	SSB AGC Adjust for 2.0 volts.
No signal input. Input of VTVM to TP41.	Ch. 13, AM	RV10	AM AGC Adjust for 1.9 volts.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 500uV.	Ch. 13, AM	RV12	SQUELCH RANGE Set squelch control RV602 fully clockwise. Adjust RV12 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 13, AM	RV9	S METER Adjust RV9 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.

SSB

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13, USB Turn Bias (RV1 and RV2), and SSB MIC GAIN (RV8) to midrange.	L1,L2,L5,L4, L5,L6,L7	Adjust for maximum.
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13, USB	L6,RV5	Adjust for 11 watts.
Inject a 2400Hz, 10mV signal at MIC input. Input of oscilloscope to antenna jack.	Ch. 13, USB	L9	Adjust for maximum.
No modulation. Input of oscilloscope to antenna jack.	Ch. 13, USB	TC2,RV4	Adjust for MINIMUM.
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13, USB	L9	Adjust for maximum.

TRANSMITTER ALIGNMENT

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

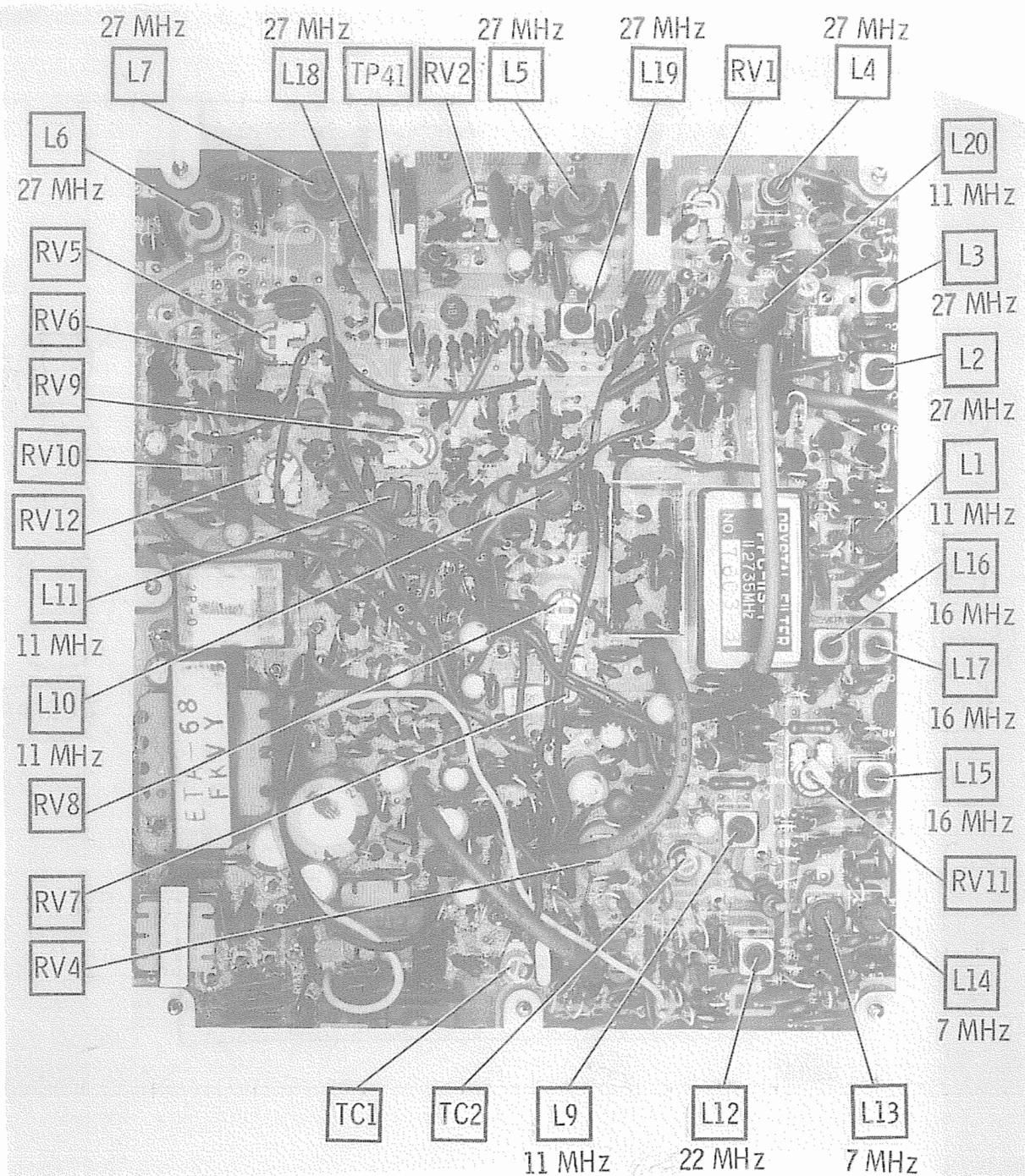
AM

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of spectrum analyzer to antenna jack.	Ch. 13, AM	L601	Adjust for MINIMUM at 54MHz.

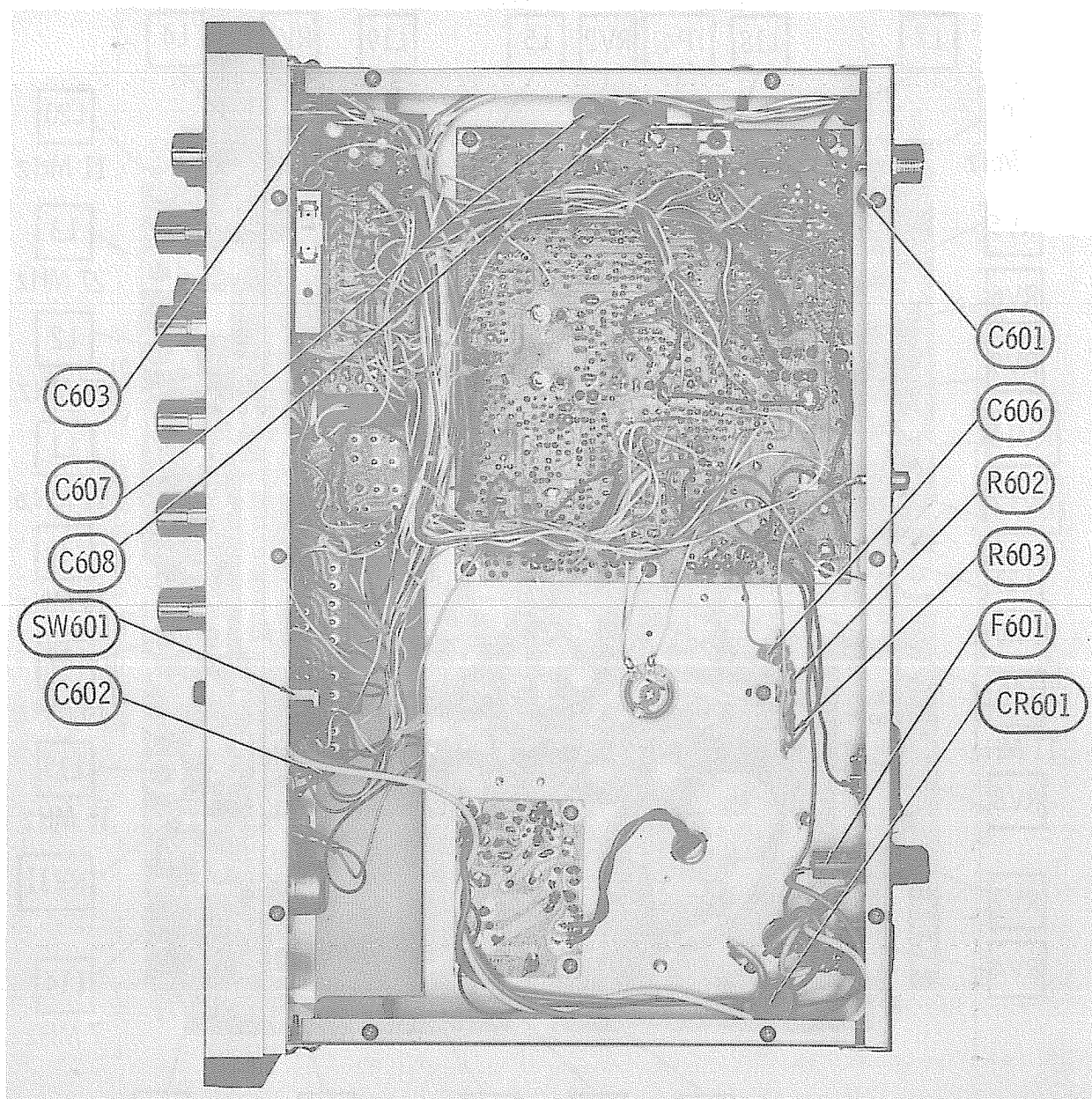
TRANSMITTER ADJUSTMENTS

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 adjustments of transmitter.

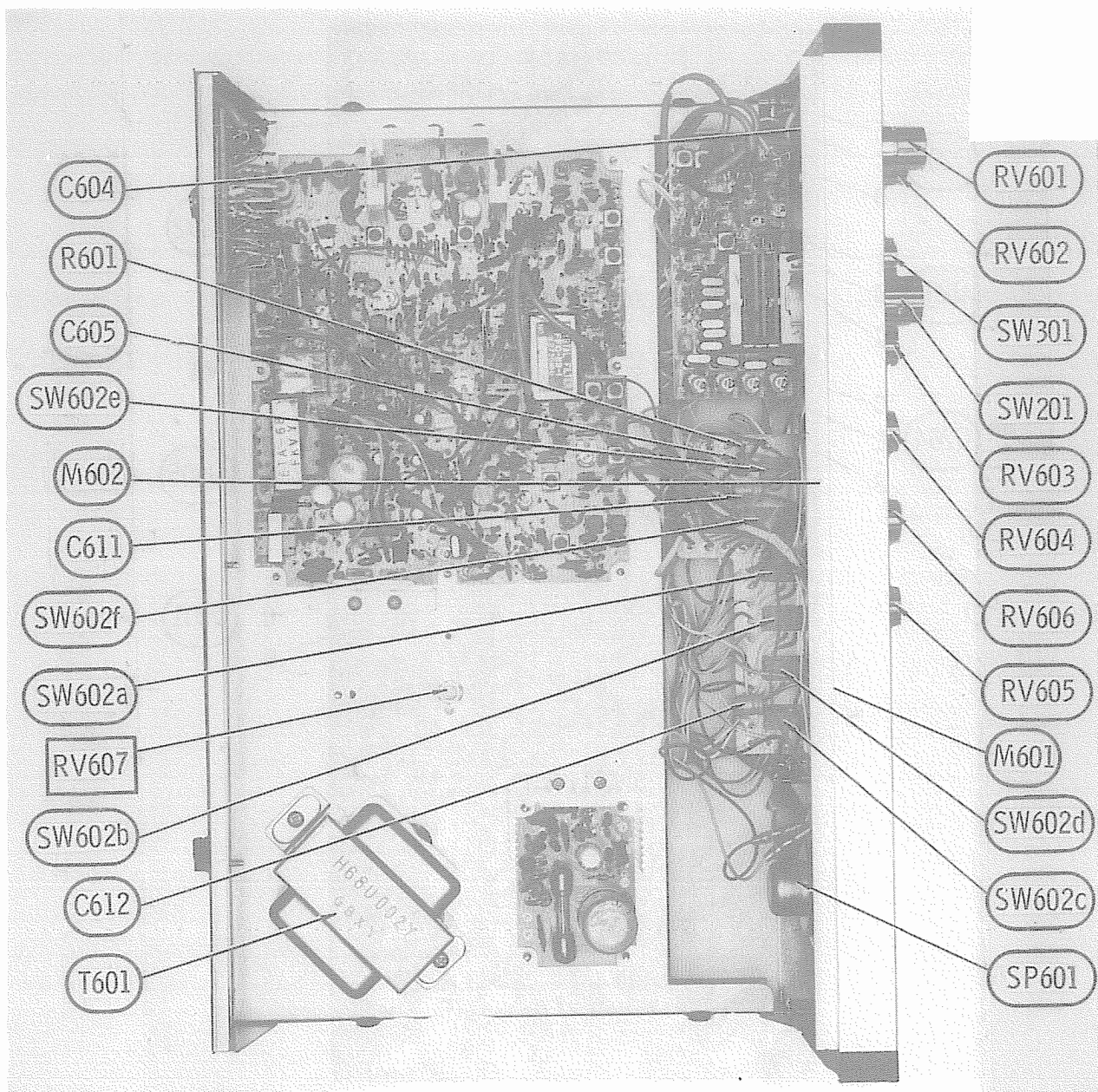
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of VTVM to Q603 emitter.	Ch. 13, AM	RV501	VOLTAGE Adjust RV501 for 13.8 volts. Voltage should not vary when keying transmitter.
Output of 2 tone generator to MIC input, 500Hz and 2400Hz. Output 5mV. Input of oscilloscope to antenna jack.	Ch. 13, USB	RV1,RV2	BIAS Adjust for 100% modulation.
Output of 2 tone generator to MIC input, 500Hz and 2400Hz. Output 5mV. Input of oscilloscope to antenna jack.	Ch. 13, USB	RV8	SSB MIC GAIN Adjust for 100% modulation.
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13, LSB	RV11	LSB GAIN Adjust so LSB output is equal to USB output.
No modulation.	Ch. 13, AM	RV607	AM POWER Adjust for 3.8 watts.
Inject a 2500Hz, 7mV signal at MIC input.	Ch. 13, AM	RV7	AM MIC GAIN Adjust for 90% modulation.
	Ch. 13, AM SWR/CAL switch-CAL position.	RV402	PANEL SWR METER Set SWR/CAL Control (RV605) to SET position on SWR meter. SWR/CAL switch to SWR position. Change 50-ohm load to 100 ohms. Adjust RV402 for 2 on SWR scale of meter.
Modulation meter to antenna jack. Inject a 1000Hz signal at MIC input.	Ch. 13, AM MOD/CAL switch-CAL position.	RV403	PANEL MODULATION METER Set MOD/CAL Control (RV606) to SET position on modulation meter. MOD/CAL switch to MOD position. Adjust RV403 so panel modulation meter agrees with modulation meter.
	Ch. 13, AM	RV401	PANEL RF METER Set SWR/CAL Control (RV605) to RF position. Adjust RV401 so panel RF meter agrees with RF wattmeter.



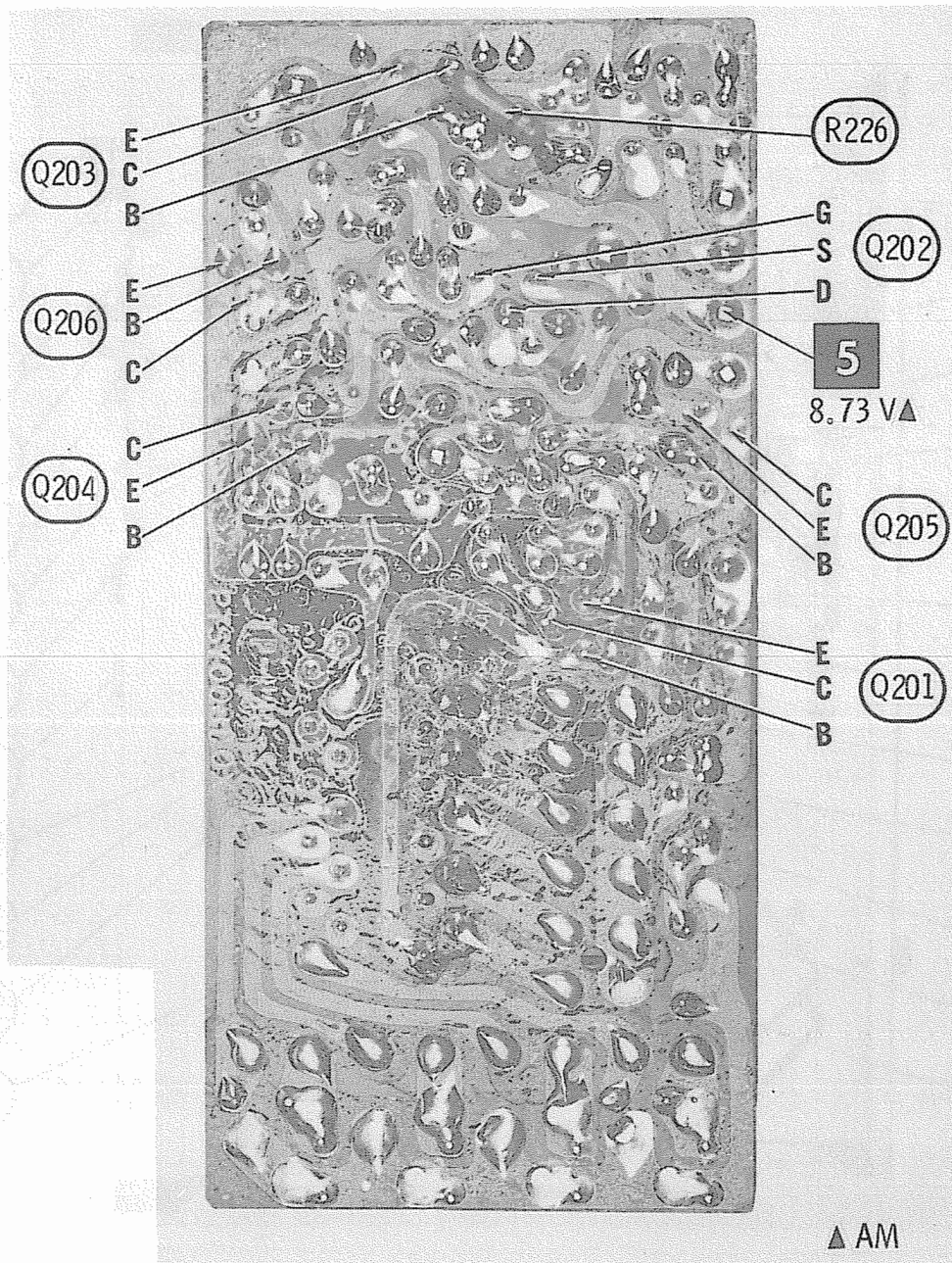
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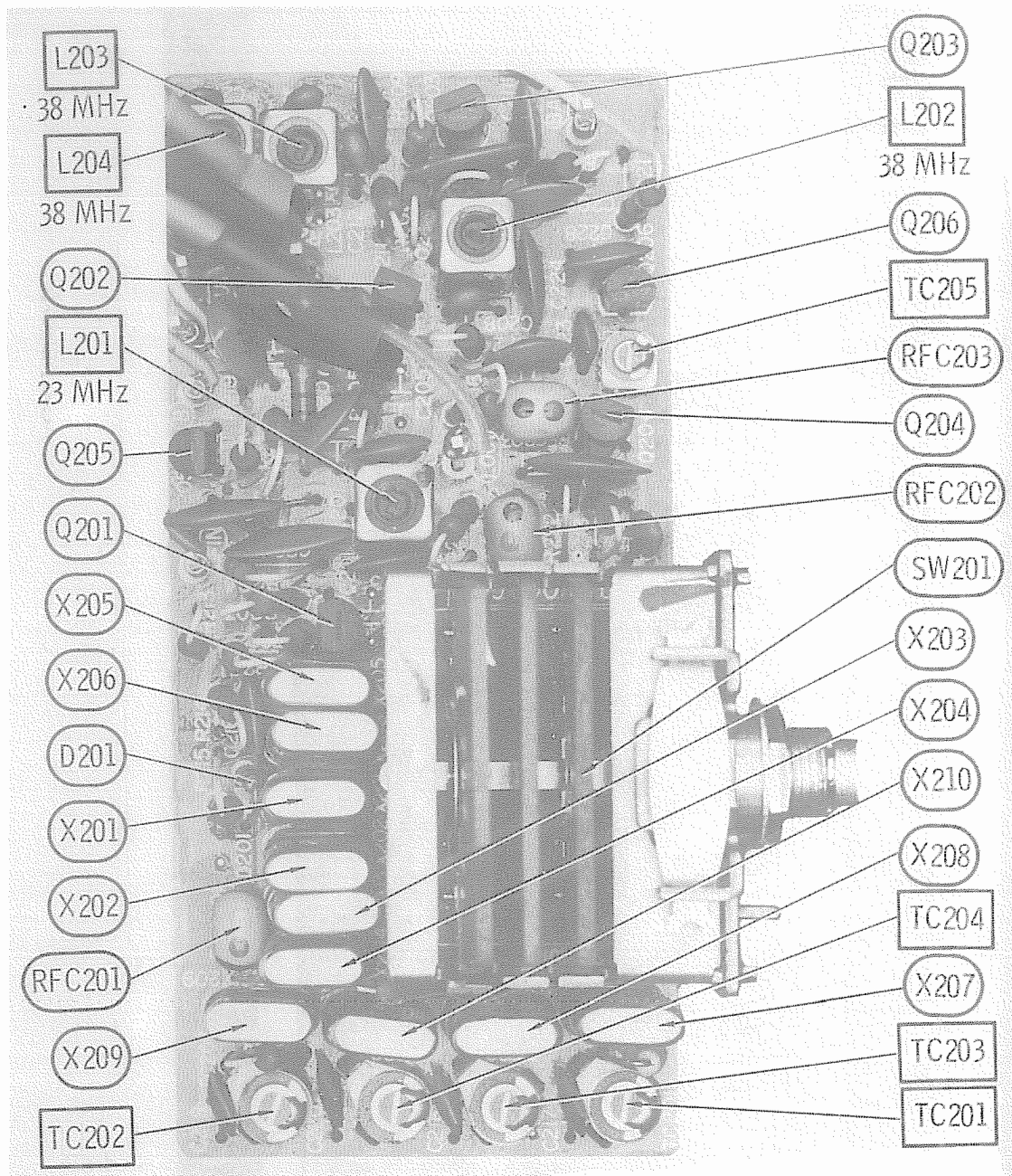
CHASSIS - BOTTOM



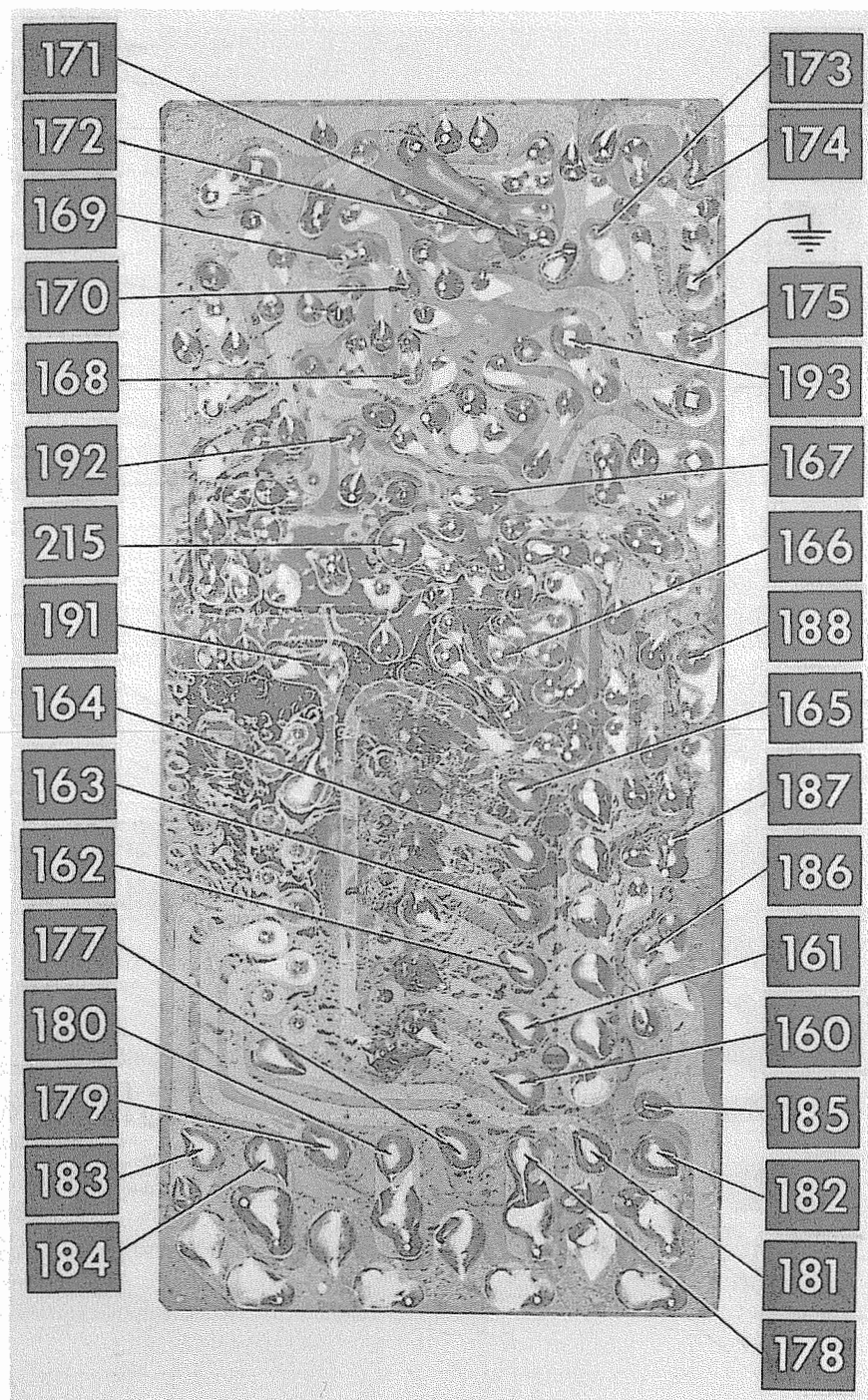
CHASSIS - TOP



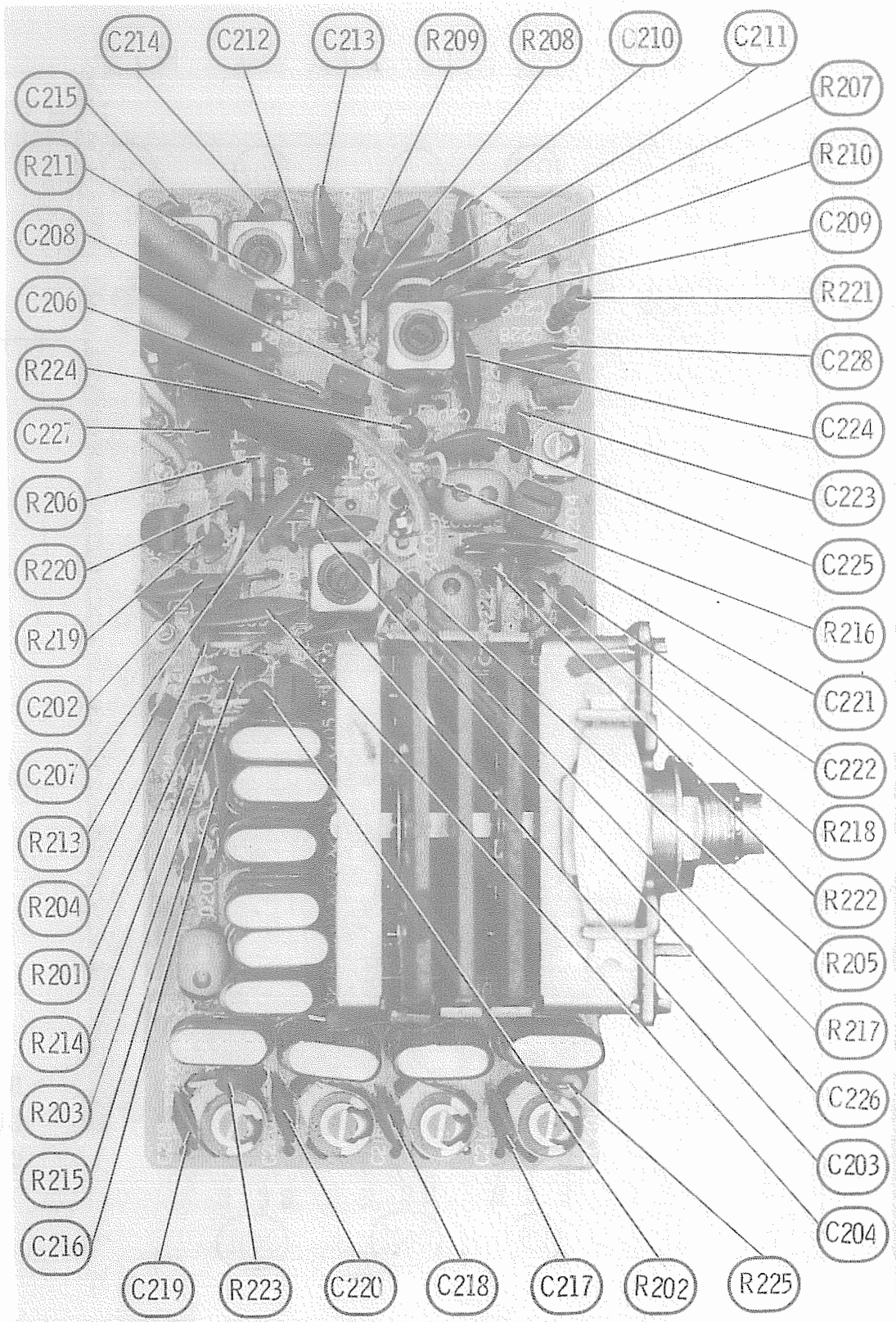
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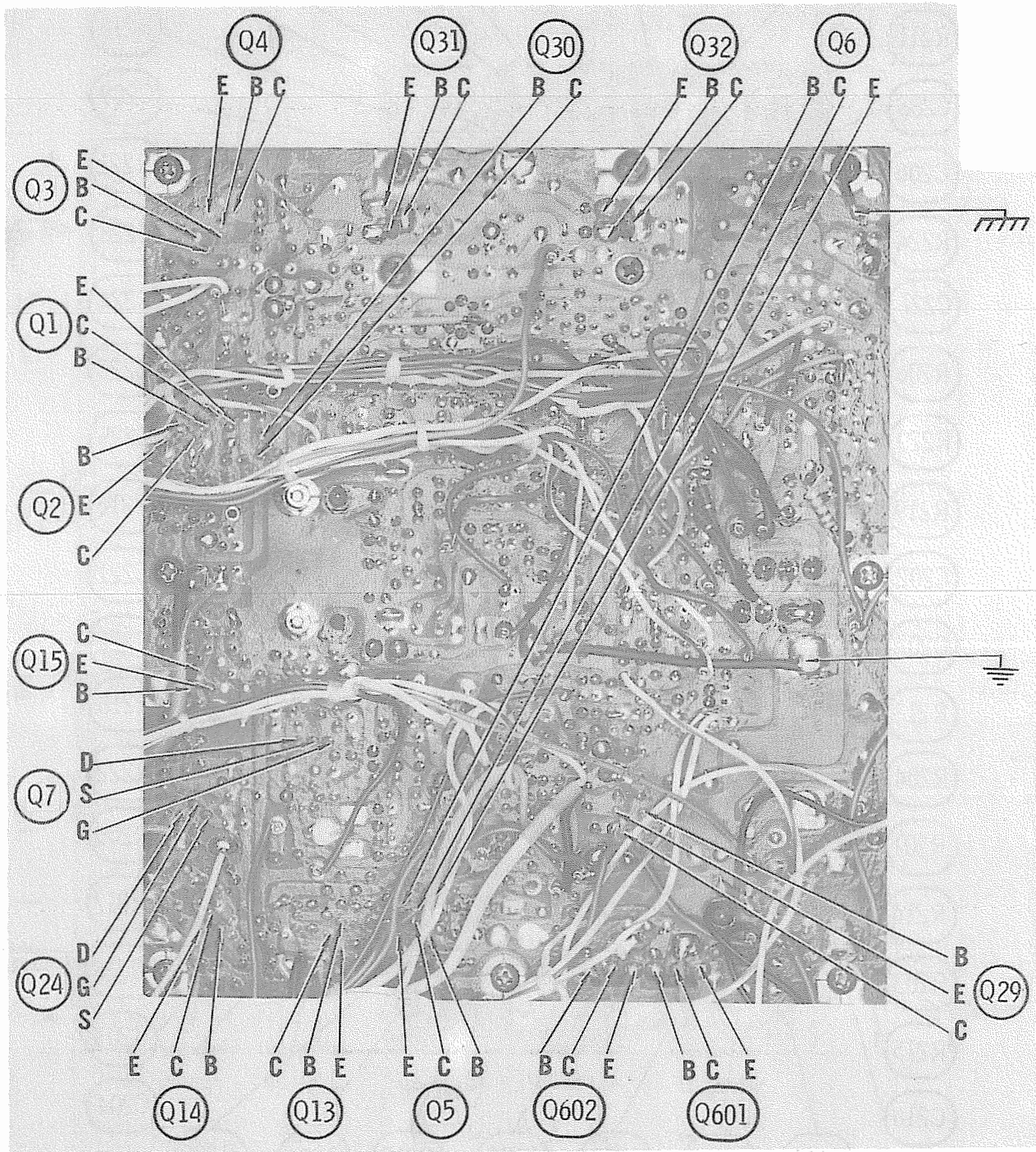
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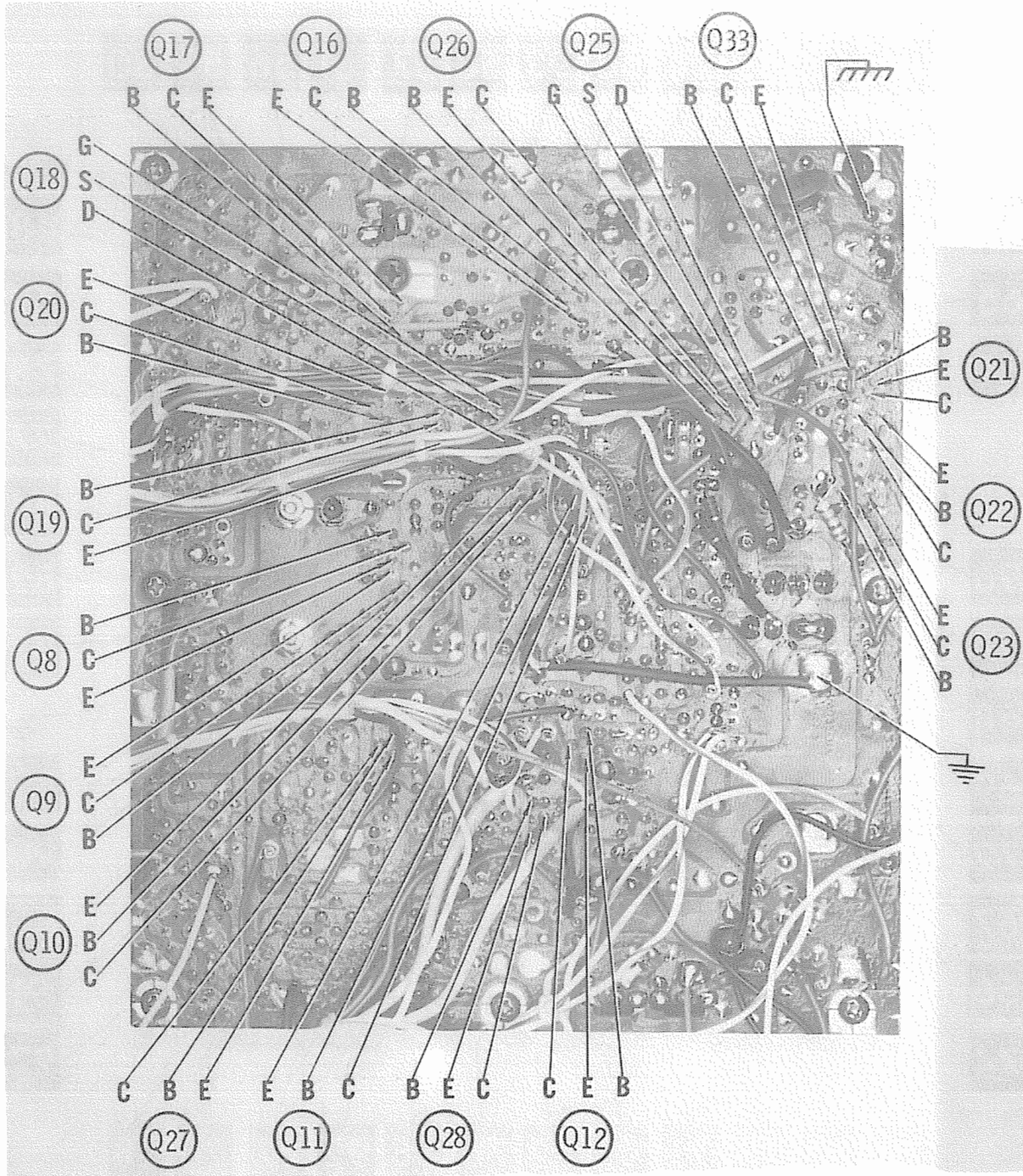
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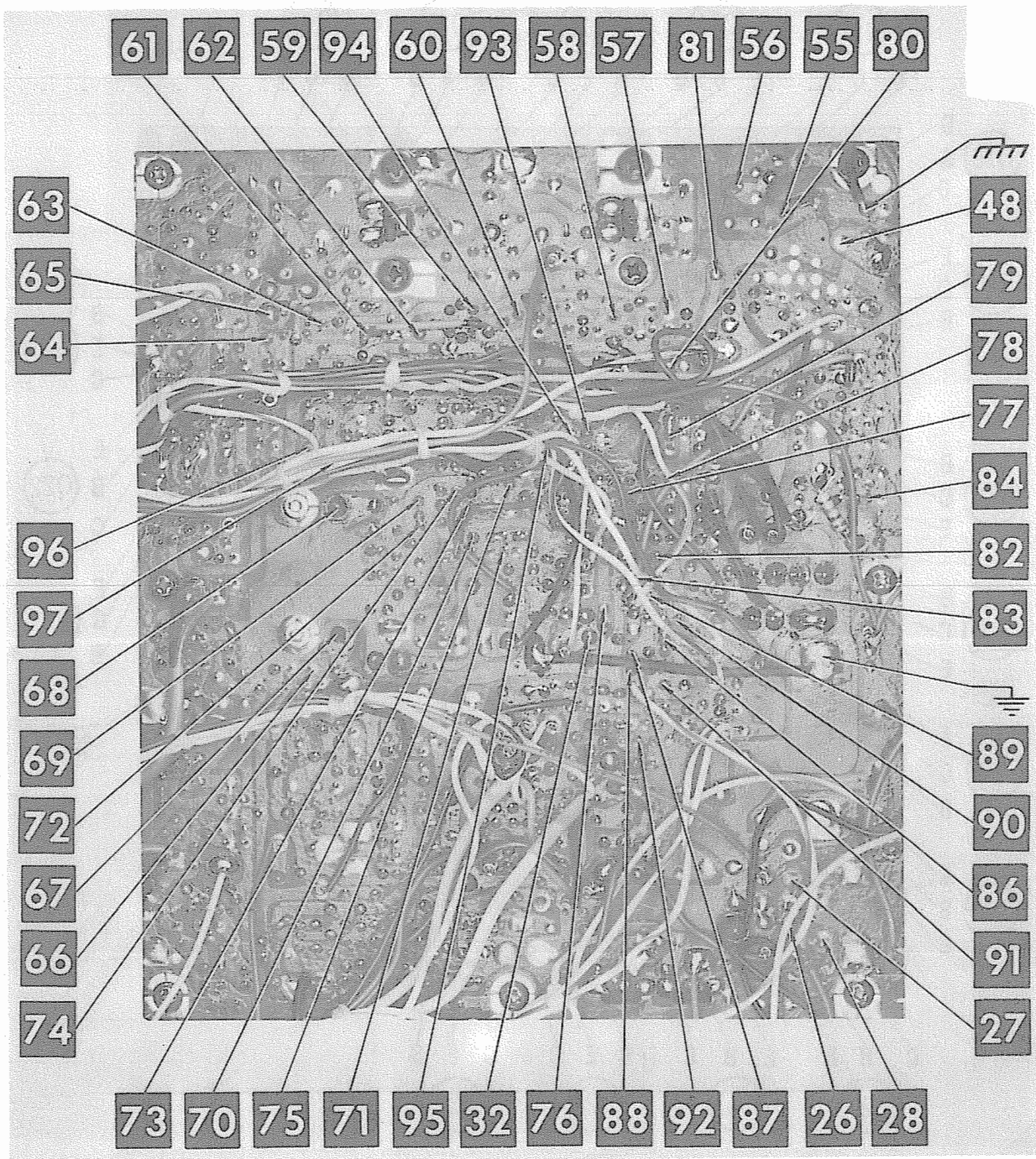
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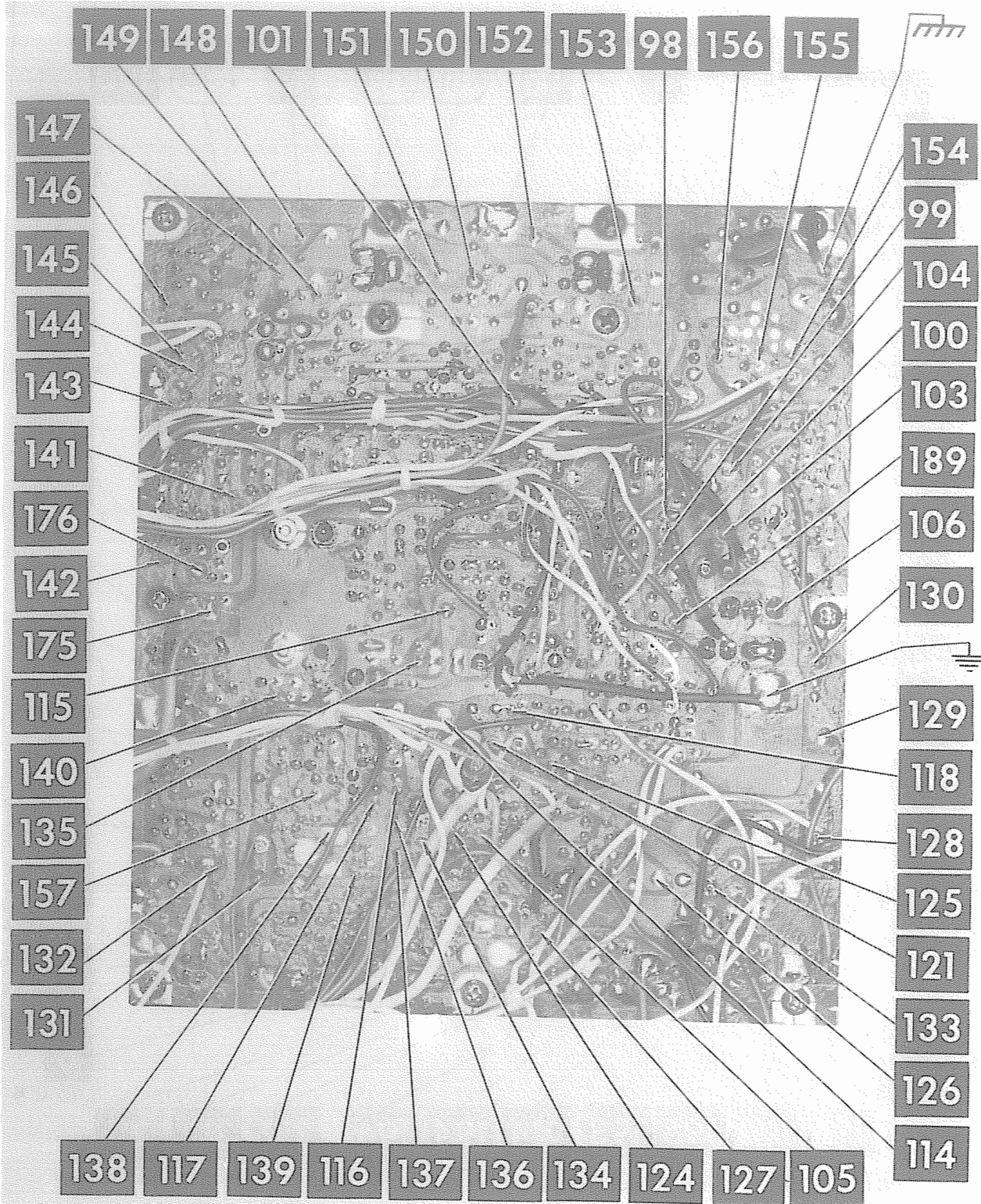
MAIN BOARD



MAIN BOARD

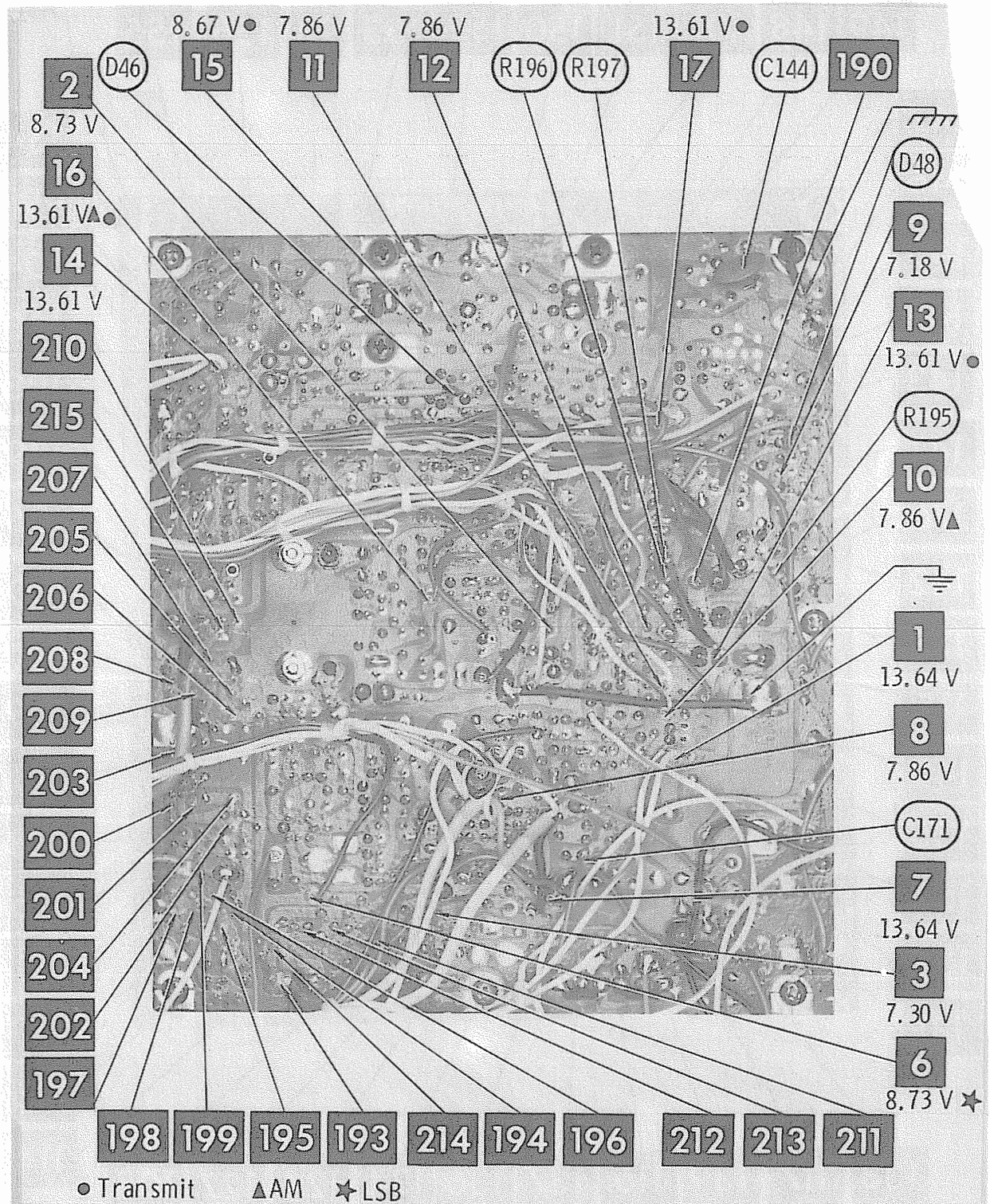


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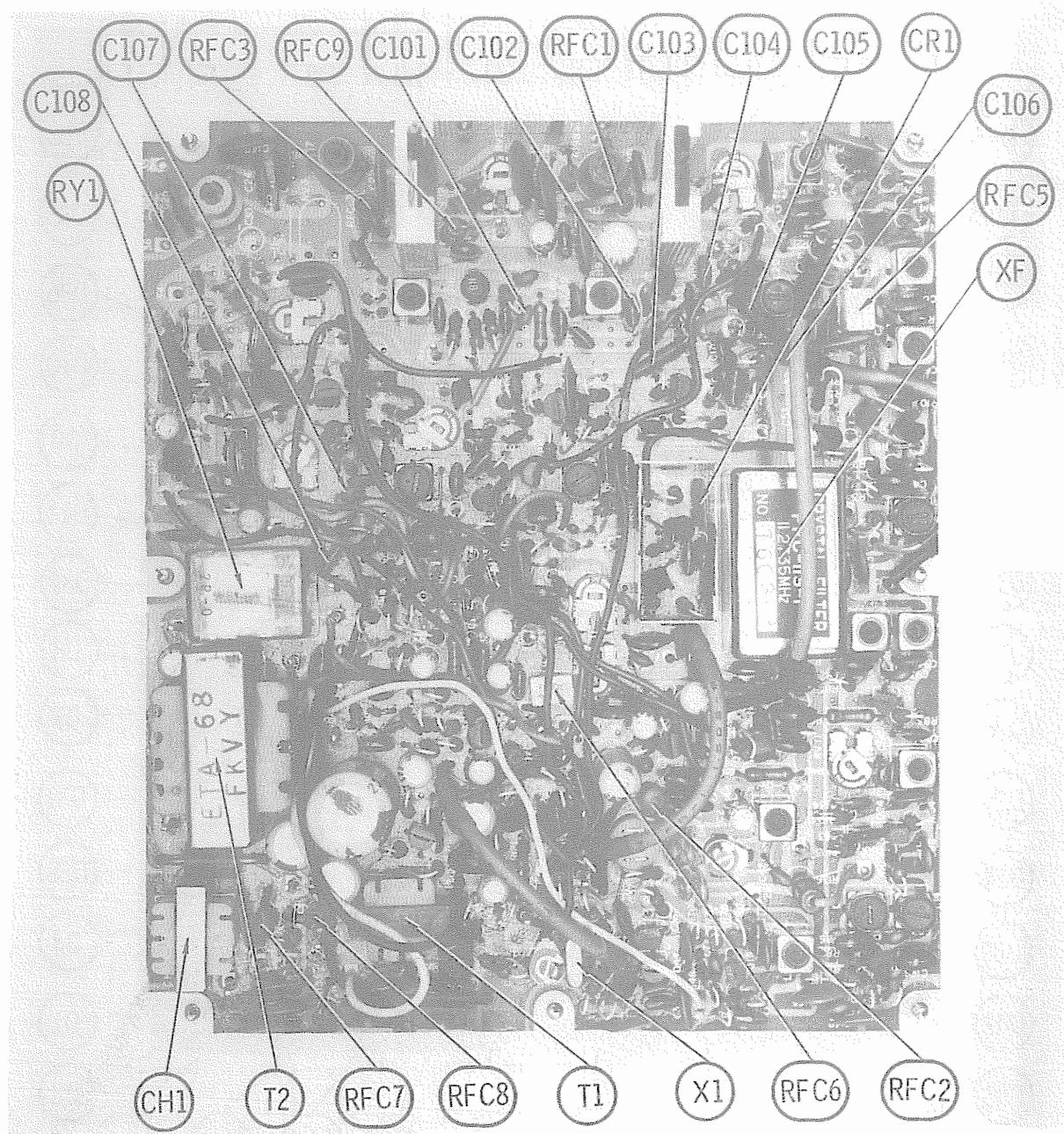


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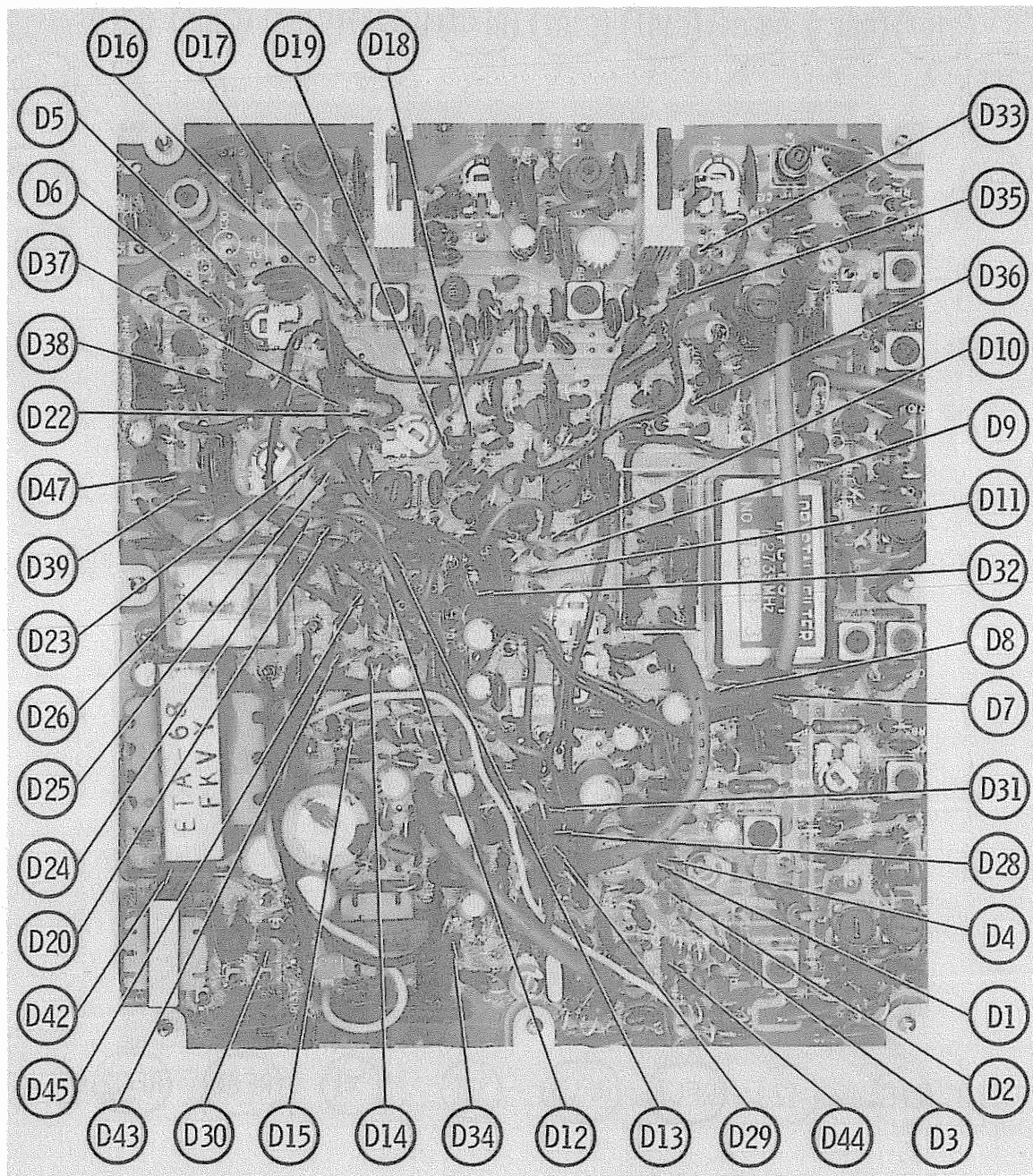
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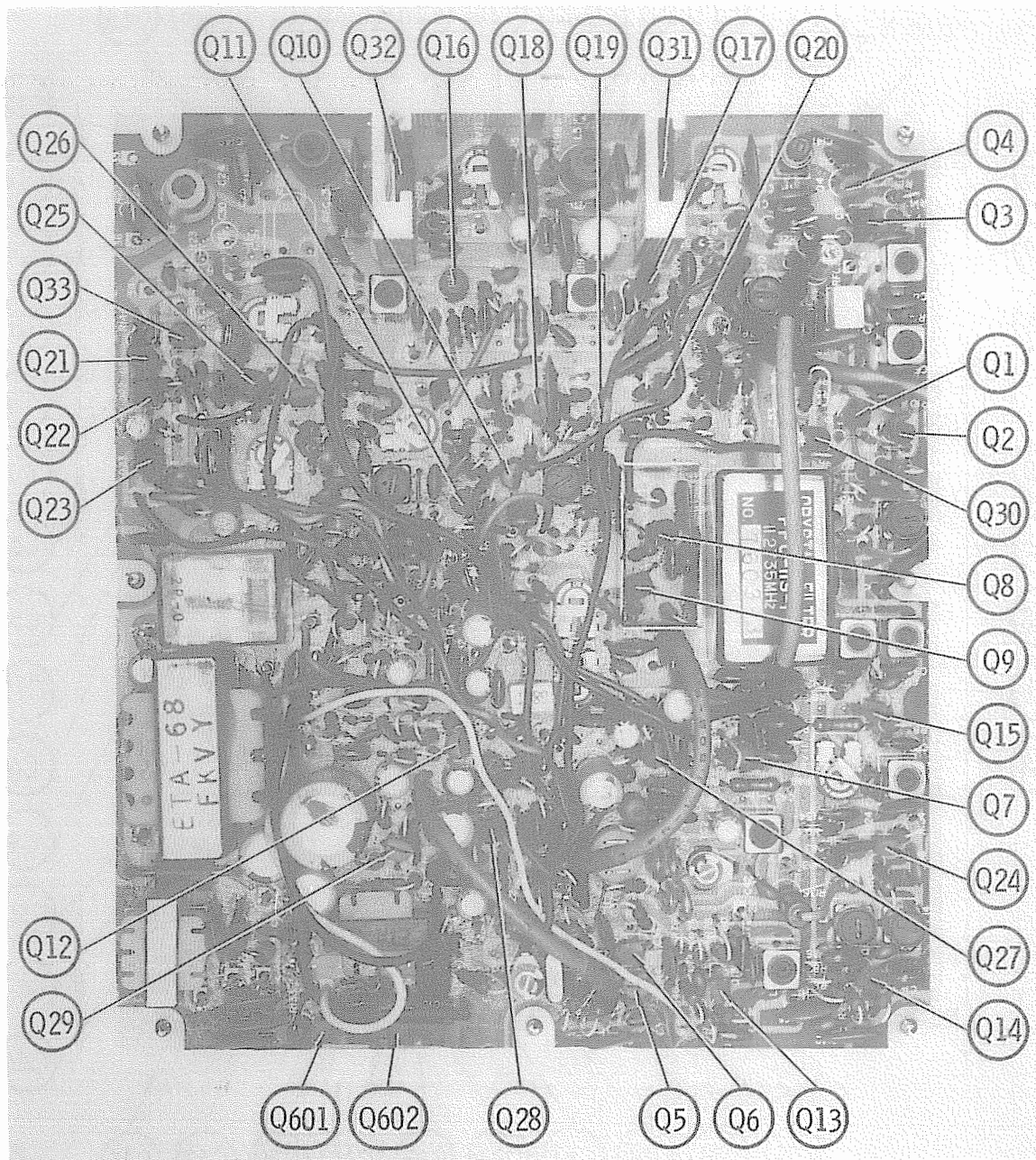
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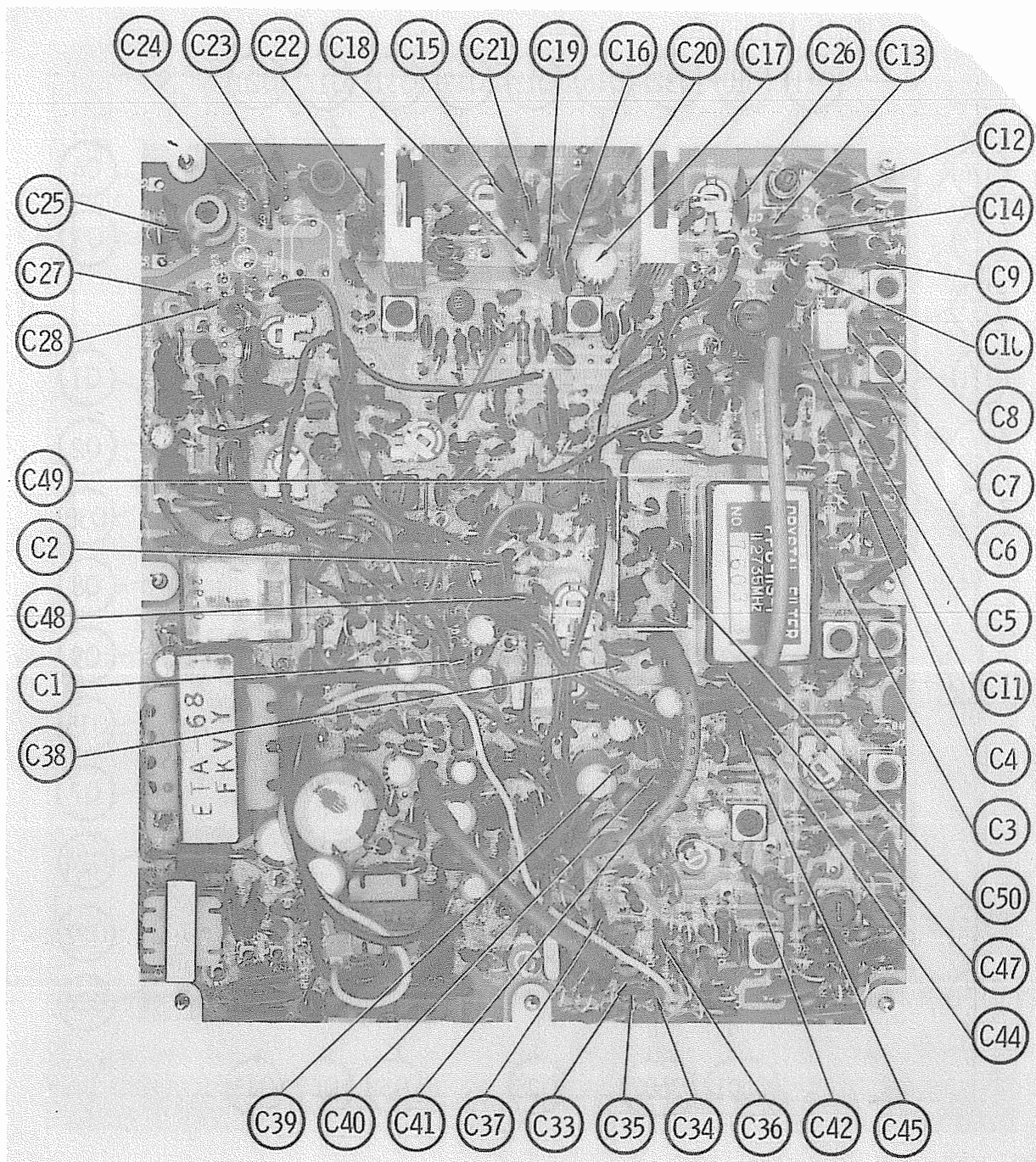
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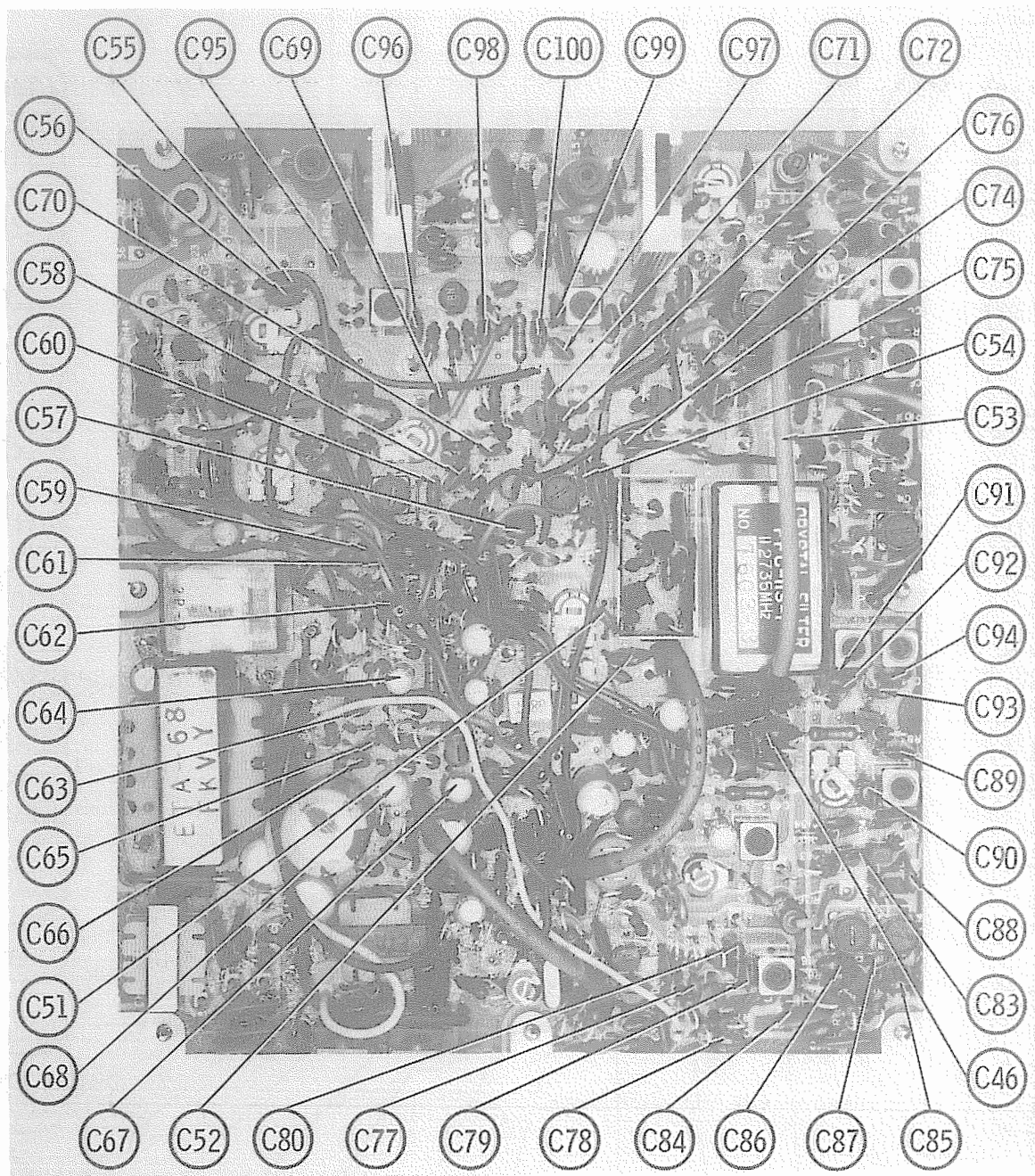
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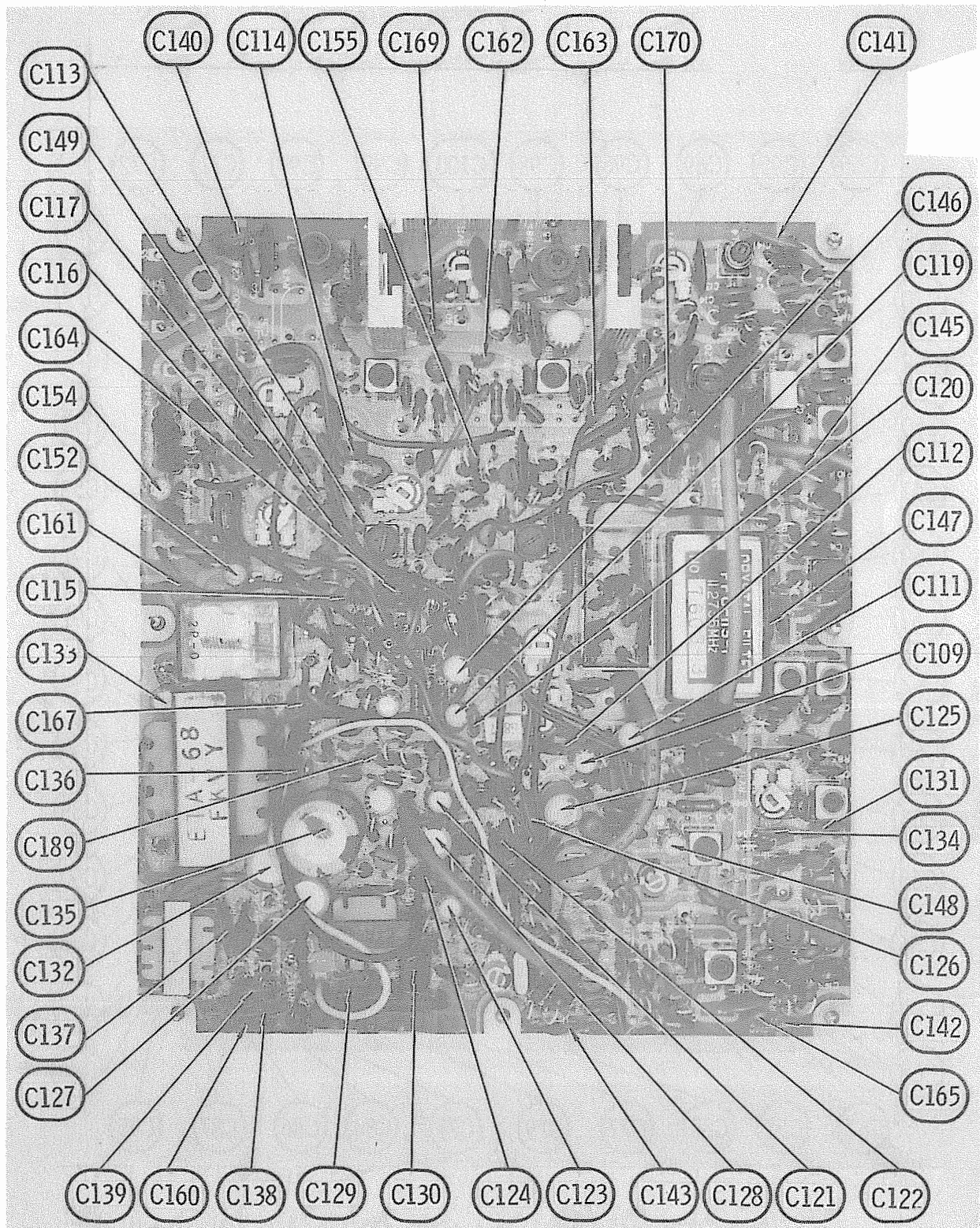
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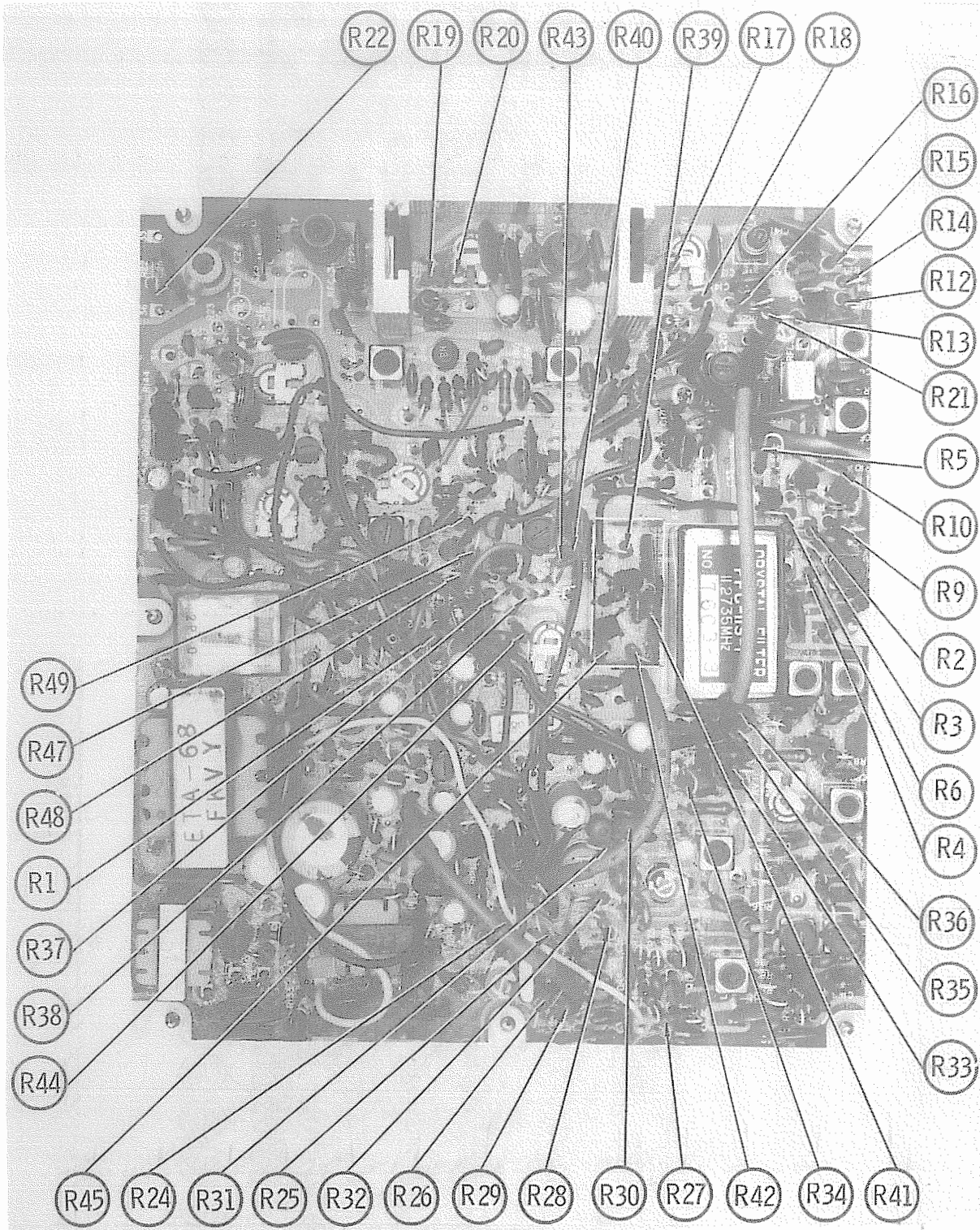
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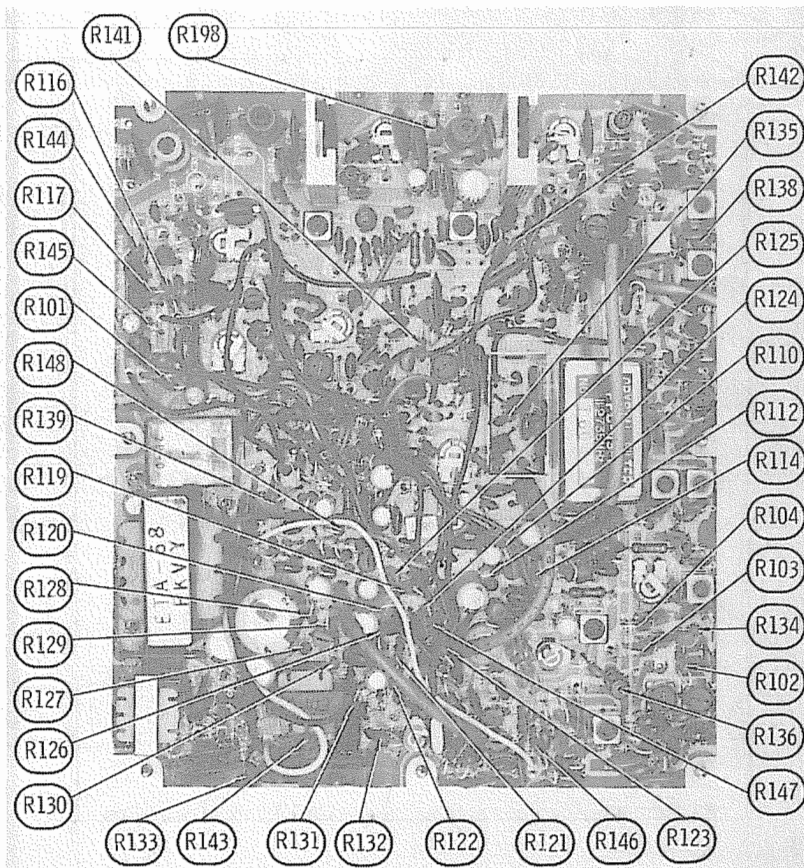
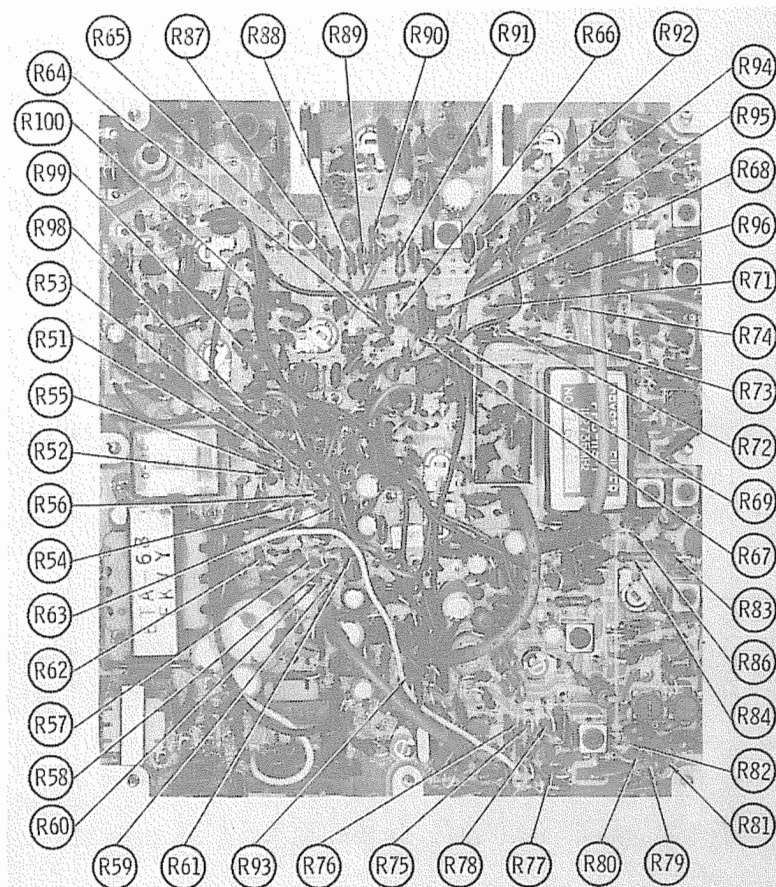
MAIN BOARD



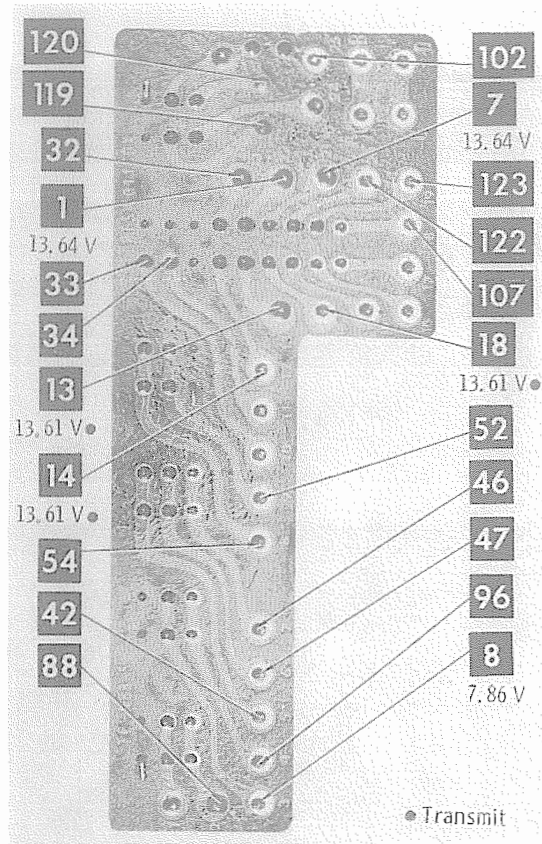
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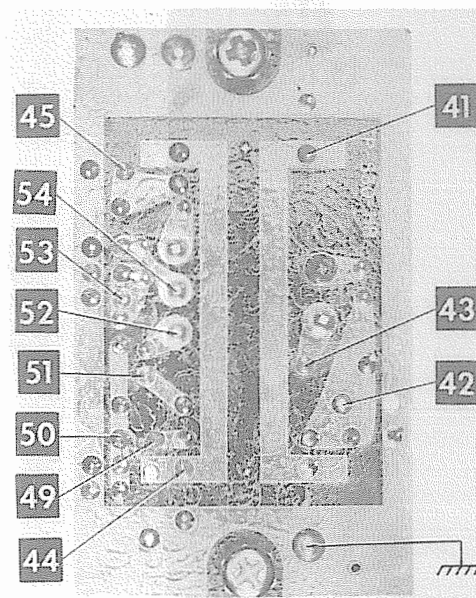
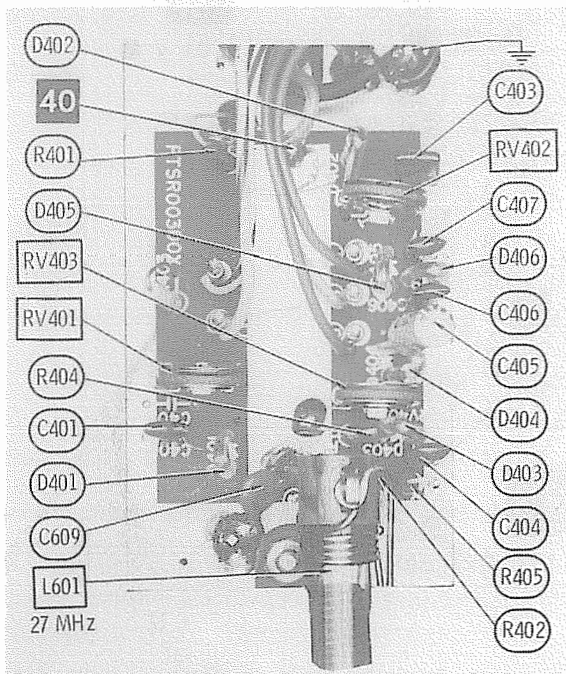
MAIN BOARD



MAIN BOARD

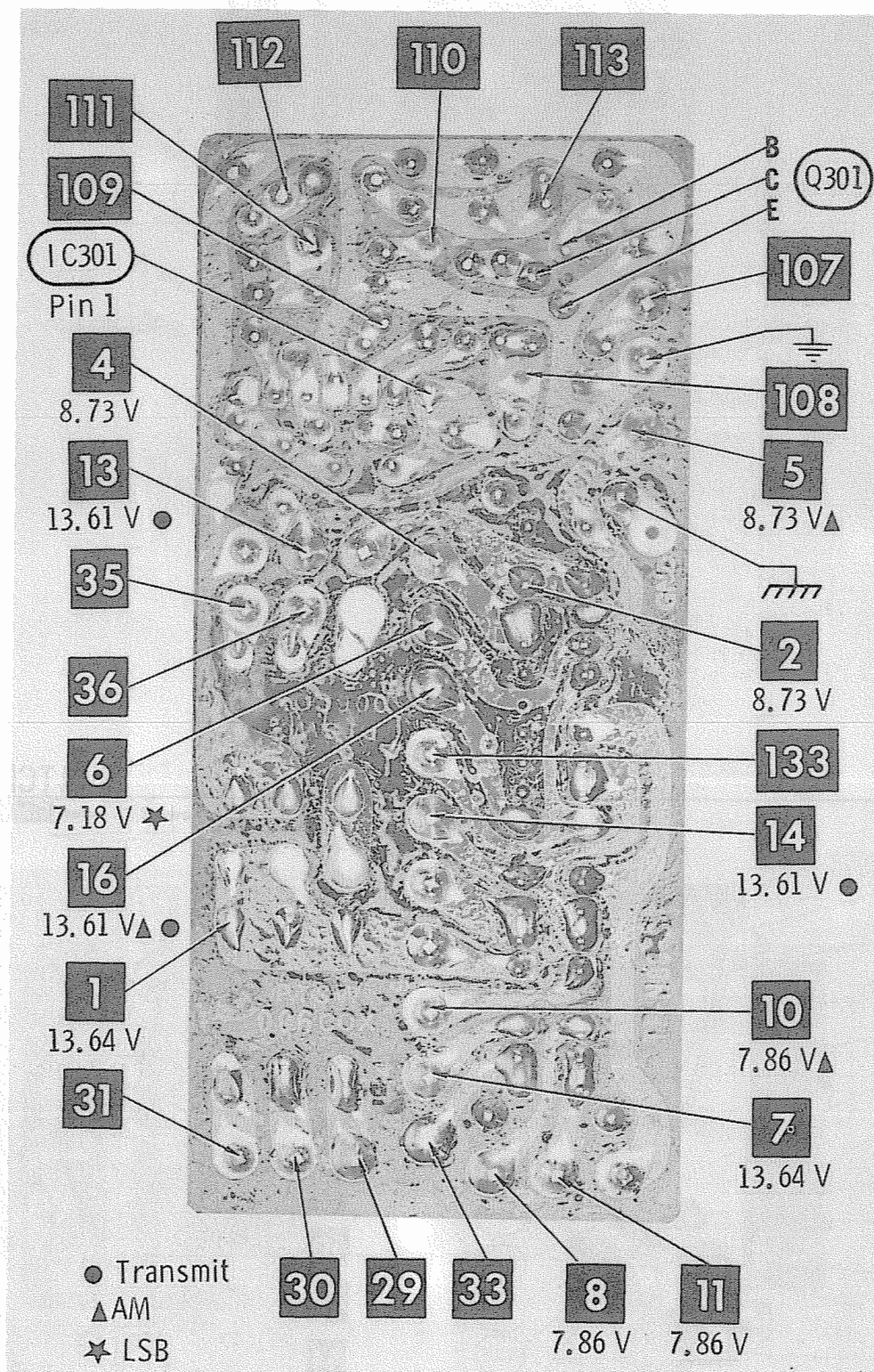


SWITCH BOARD

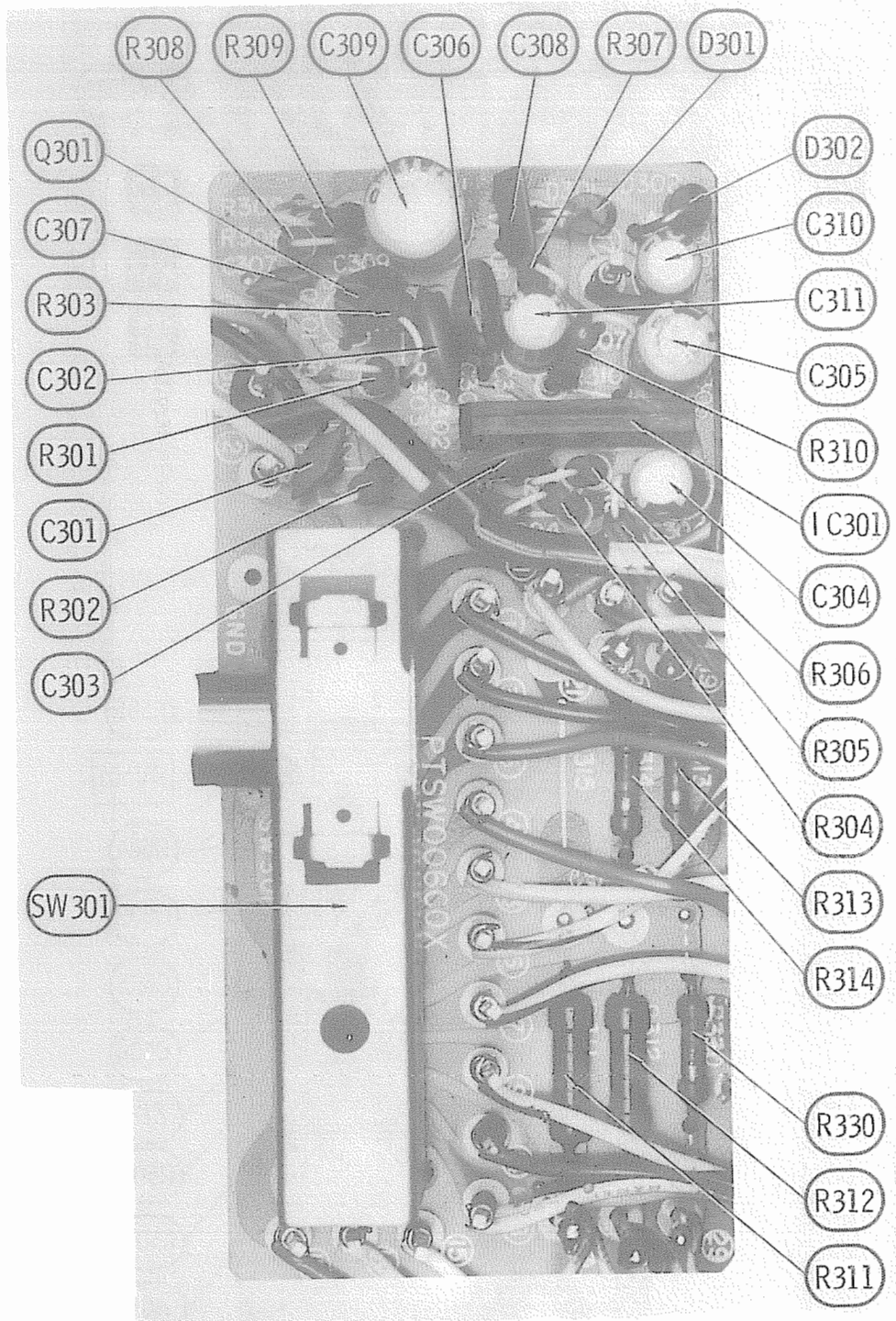


SWR BOARD

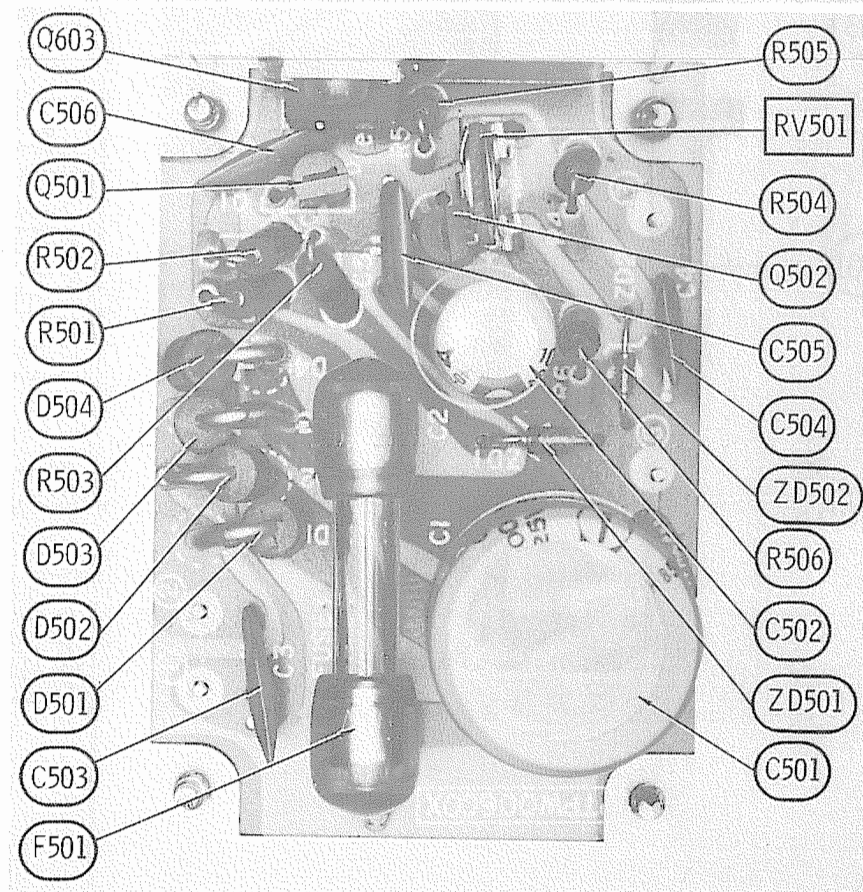
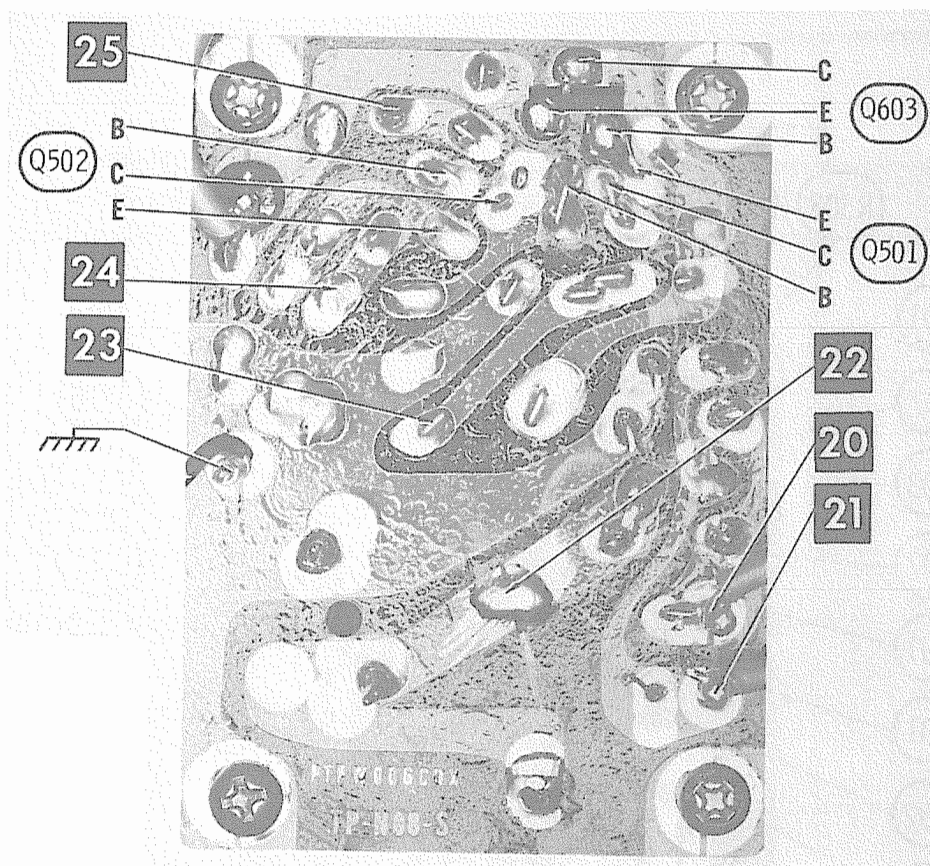
LAFAYETTE MODEL TELSAT SSB-100



MIC AMP BOARD



MIC AMP BOARD



POWER SUPPLY BOARD

PARTS LIST AND DESCRIPTION

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

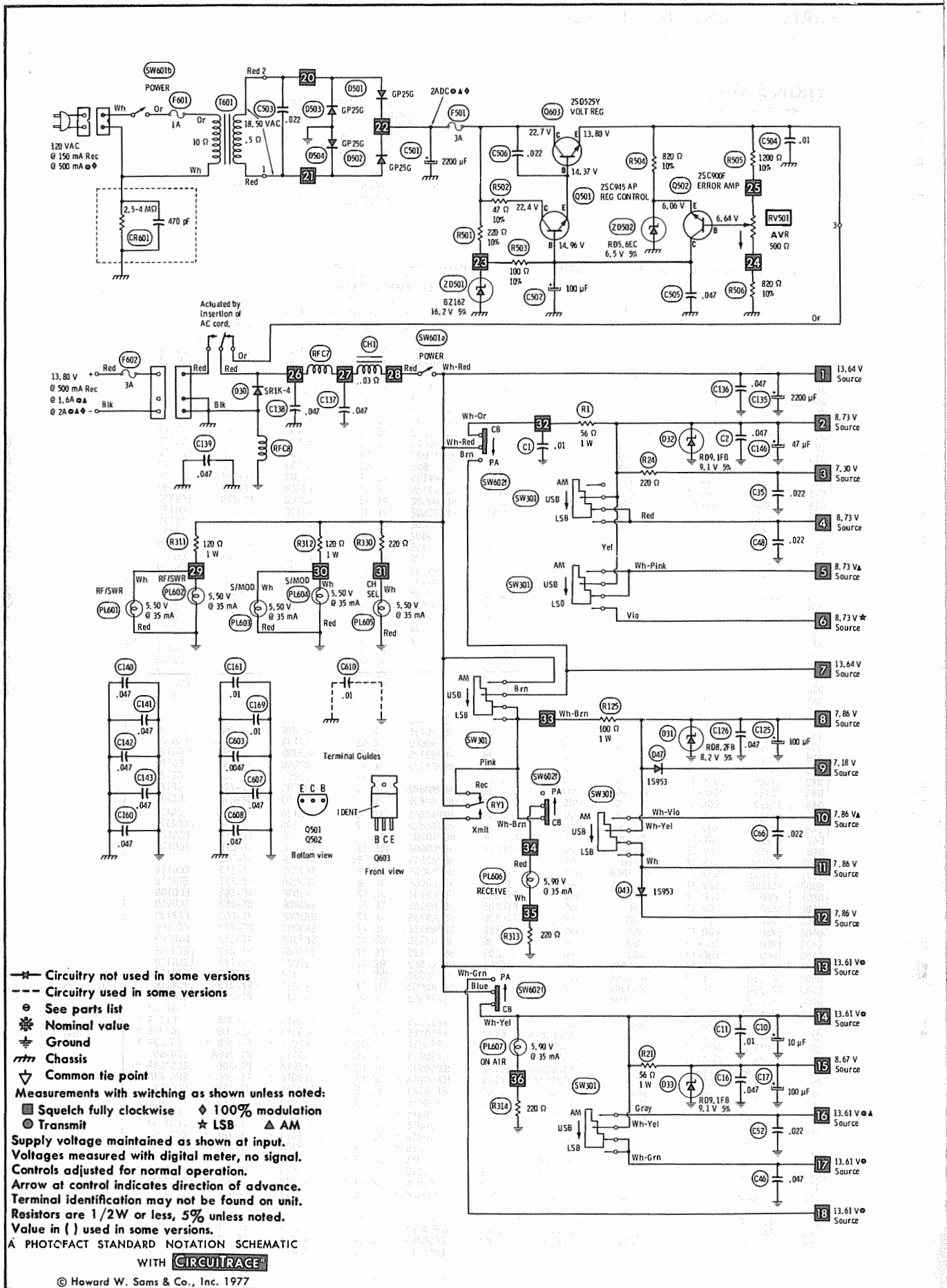
WIRING DATA

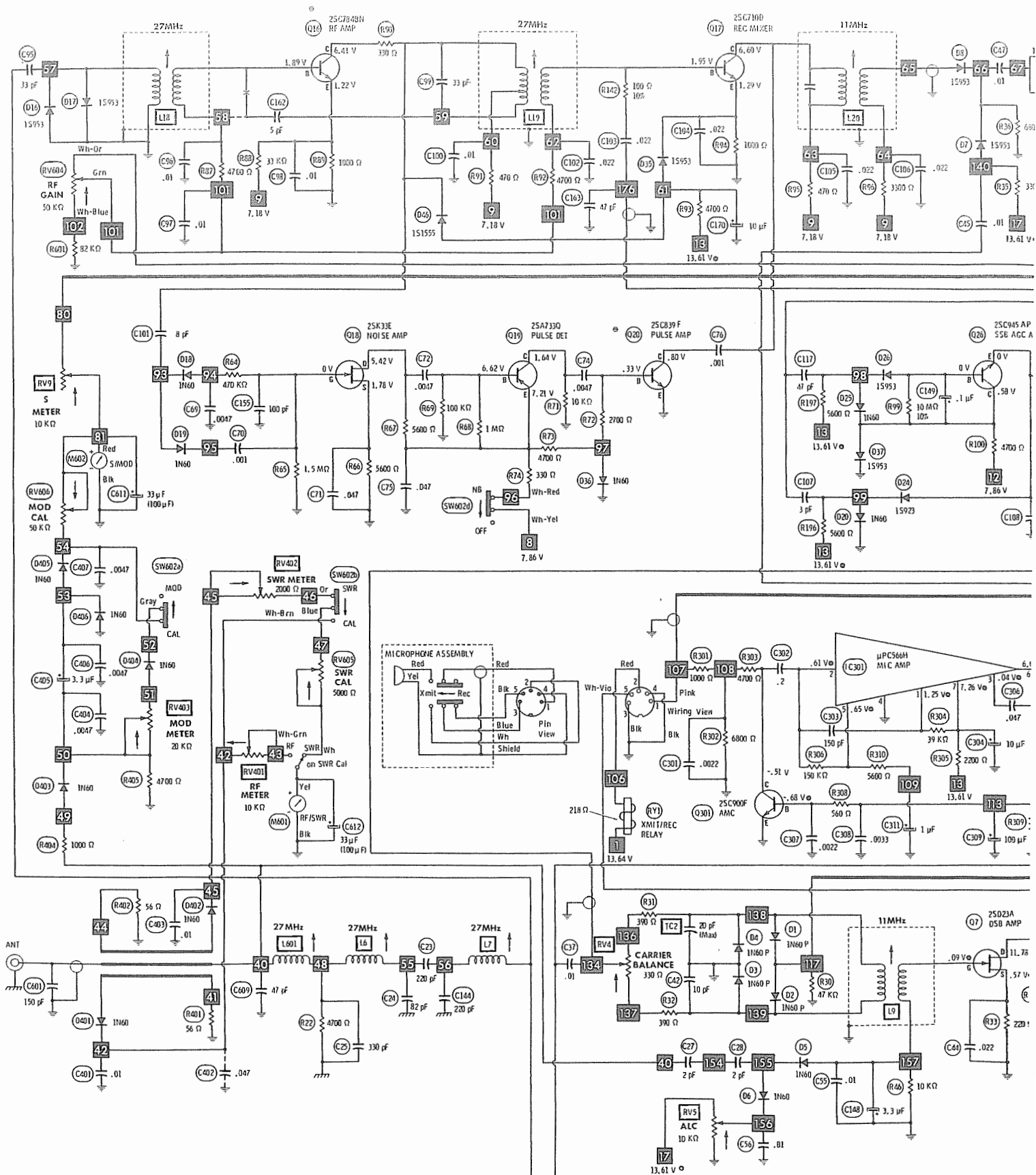
General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) -6 feet
Shielded Antenna Lead	Use BELDEN No. 8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets

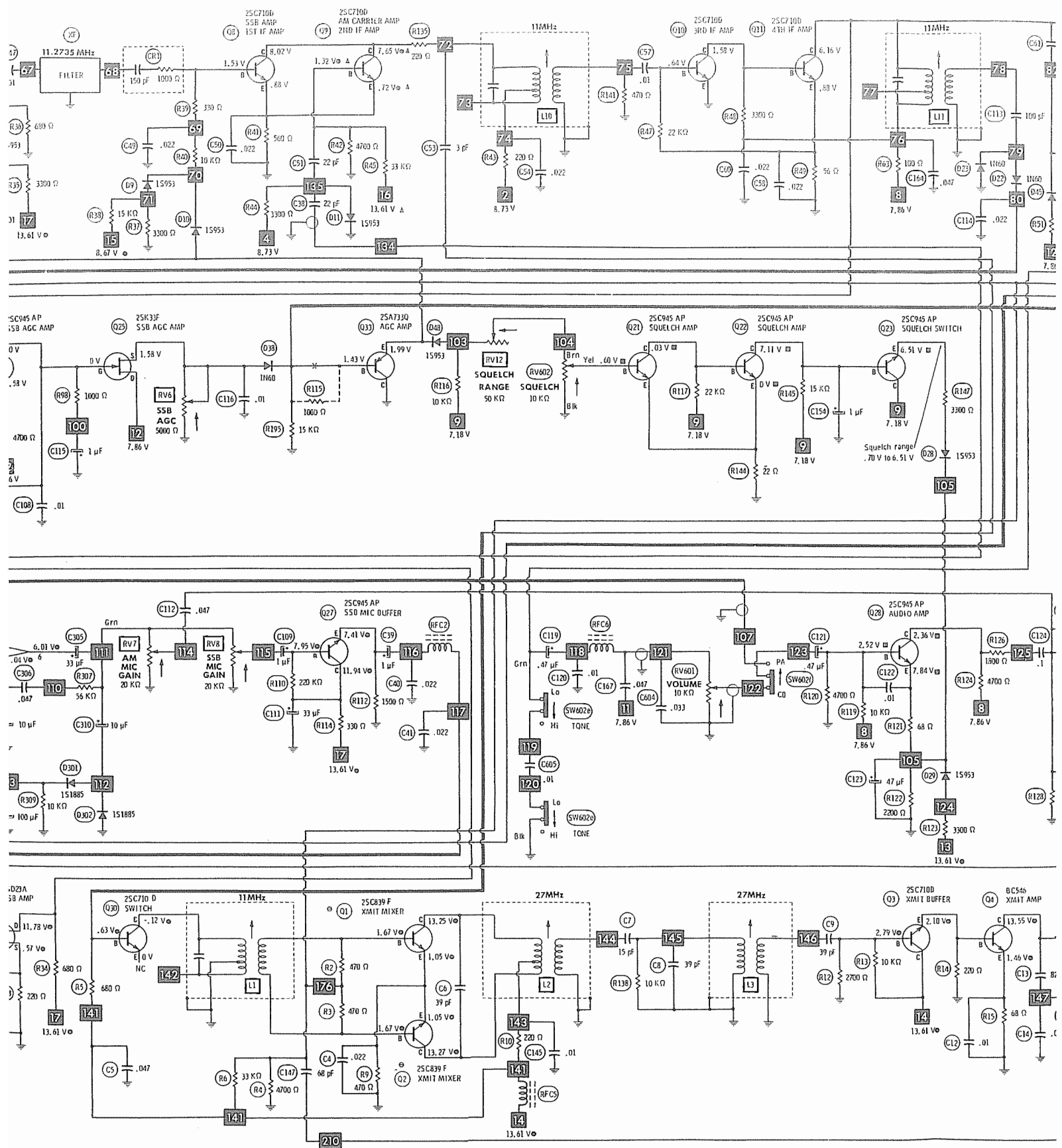
SEMICONDUCTORS (Select replacement transistor for best results)

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.
01	1N60P	2180-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
02	1N60P	2180-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
03	1N60P	2180-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
04	1N60P	2180-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
05	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
06	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
07	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
08	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
09	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
010	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
011	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
012	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
013	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
014	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
015	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
016	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
017	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
018	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
019	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
020	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
022	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
023	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
024	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
025	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
026	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
028	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
029	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
030	SR1K-4	2427-17	GE-504A	5A40	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116
031	RO8, 2FB	2451-17	GEZD-8, 2		ZB8, 2B		RE 112		RT-257	ECG5072
032	RO9, 1FB	2452-17	GEZD-9, 1		ZB9, 1B		RE 114		RT-240	ECG139
033	RO9, 1FB	2452-17	GEZD-9, 1		ZB9, 1B		RE 114		RT-240	ECG139
034	VD-1124	2523-17			PTC301					
035	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
036	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
037	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
038	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
039	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
042	SR3AM-2	2524-17	GE-510	R210	PTC205		RE 51	SK3051	RT-201	ECG125
043	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
044	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
045	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
046	1S1555	1937-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
047	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
048	1S953	2066-17	GE-300	0200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
0201	1S2688	2525-17	GE-90	0201	PTC214	HEPR2503	RE 195	SK3126	RT-262	ECG177
0301	1S1885	2528-17	GE-504A	5A40	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
0302	1S1885	2528-17	GE-504A	5A40	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
0401	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0402	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0403	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0404	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0405	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0406	1N60	1000-17	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
0501	GP-25G	2526-17	GE-504A	5A40	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
0502	GP-25G	2526-17	GE-504A	5A40	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
0503	GP-25G	2526-17	GE-504A	5A40	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
0504	GP-25G	2526-17	GE-504A	5A40	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
1C301	UPC566H	1047-25					RE 327-1C			ECG1052
Q1	2SC839F,H	2320-17	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q2	2SC839F,H	2320-17	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q3	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q4	BC546	2521-17	GE-20	TR-51	PTC136	HEPS0015 *	RE 192	SK3122	RT-108A	ECG199
Q5	2SC839F,H	2320-17	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q6	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q7	2SK23A	2336-17	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q8	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q9	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q10	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q11	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q12	2SC945AP	2338-17	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q13	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q14	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q15	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q16	2SC7848H, R	2187-17	GE-60 *	(1R)2SC80A0	PTC132 *	HEPS0008 *	RE 28 *	SK3018 *	RT-187	ECG229 *
Q17	2SC7100	2275-17	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SK33E		FE-100		PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q19	2SA733Q	2261-17	GE-65	TR-20 *	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-126A *	ECG294
Q20	2SC839F, H	2320-17	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q21	2SC945AP	2338-17	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199

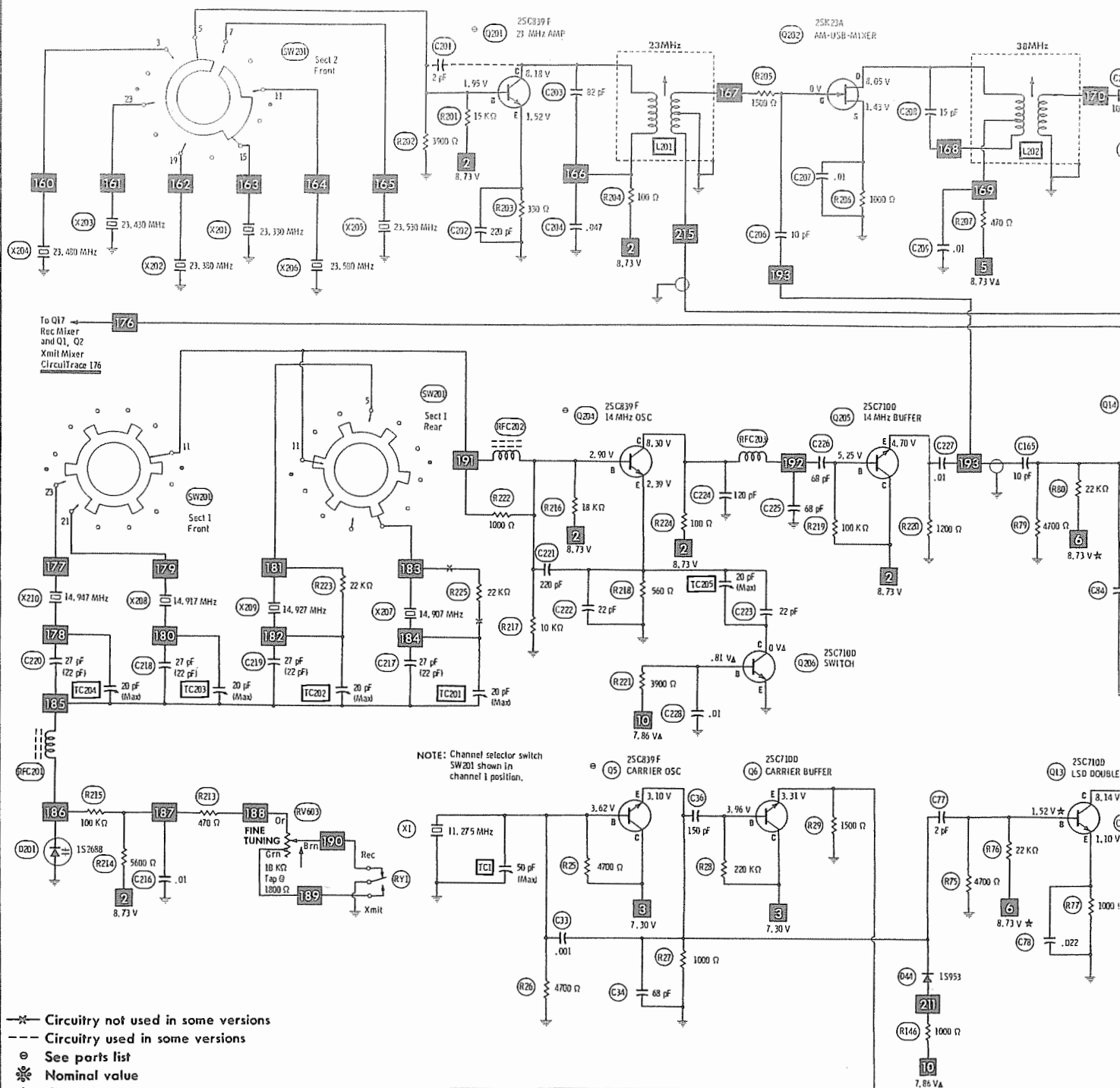
LAFAYETTE MODEL TELSAT SSB-100











--- Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

⊙ Nominal value

⊙ Ground

⊙ Chassis

⊙ Common tie point

Measurements with switching as shown unless noted:

⊙ Squelch fully clockwise ⊙ 100% modulation

⊙ Transmit ⊙ LSB ⊙ AM

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 PHOTOFACT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITACE**

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Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X201, X207, X1	7	X202, X209, X1	13	X204, X207, X1	19	X205, X209, X1
2	X201, X208, X1	8	X202, X210, X1	14	X204, X208, X1	20	X205, X210, X1
3	X201, X209, X1	9	X203, X207, X1	15	X204, X209, X1	21	X206, X207, X1
4	X201, X210, X1	10	X203, X208, X1	16	X204, X210, X1	22	X206, X208, X1
5	X202, X207, X1	11	X203, X209, X1	17	X205, X207, X1		
6	X202, X208, X1	12	X203, X210, X1	18	X205, X208, X1	23	X206, X210, X1

To Q1, Q2

Xmit Mixer

CircuitTrace 210

To P12 AM

Audio amp-SSO

prod del and

balanced mod.

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.
Q22	2SC945AP	2338-17	GE-212	(IR)2SC945	PTC121 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q23	2SC945AP	2338-17	GE-212	(IR)2SC945	PTC121 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q24	2SK23A	2336-17	GE-FET-2	FE-100	PTC161	HEP50021	RE 45	SK3116	RT-175	ECG312
Q25	2SK33F		GE-FET-2	FE-100	PTC161	HEP50021	RE 45	SK3116	RT-175	ECG312
Q26	2SC945AP	2338-17	GE-212	(IR)2SC945	PTC121 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q27	2SC945AP	2338-17	GE-212	(IR)2SC945	PTC121 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q28	2SC945AP	2338-17	GE-212	(IR)2SC945	PTC121 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q29	2SC945AP	2338-17	GE-212	(IR)2SC945	PTC121 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q30	2SC7100	2275-17	GE-211 *	(IR)2SC710	PTC115	HEP50016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q31	2SC1306	2399-17 (11)	GE-215		PTC186	RE 203	SK3197	RT-146	ECG235	ECG294
Q32	2SC1307	2437-17 (12)	GE-216		PTC186	RE 201	SK3197	RT-158	ECG236	ECG294
Q33	2SA733Q	2261-17	GE-65	TR-20 *	PTC103 *	HEP50019 *	RE 26 *	SK3138	RT-126A *	ECG294
Q201	2SC839F,H	2320-17	GE-61 *	(IR)2SC644	PTC132 *	HEP50015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q202	2SK23A	2336-17	GE-FET-2	FE-100	PTC161	HEP50021	RE 45	SK3116	RT-175	ECG312
Q203	2SC839F,H	2320-17	GE-61 *	(IR)2SC644	PTC132 *	HEP50015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q204	2SC839F,H	2320-17	GE-61 *	(IR)2SC644	PTC132 *	HEP50015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q205	2SC7100	2275-17	GE-211 *	(IR)2SC710	PTC115	HEP50016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q206	2SC7100	2275-17	GE-211 *	(IR)2SC710	PTC115	HEP50016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q301	2SC900F	2195-17	GE-62	(IR)2SC644	PTC139 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q501	2SC945AP	2338-17	GE-212	(IR)2SC945	PTC121 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q502	2SC900F	2195-17	GE-62	(IR)2SC644	PTC139 *	HEP50015 *	RE 192	SK3124	RT-107A	ECG199
Q601	2S0325E	2519-17 (13)	GE-66	TR-76	PTC110	HEP50027	RE 21	SK3054	RT-197	ECG152
Q602	2S0325E	2519-17 (13)	GE-66	TR-76	PTC110	HEP50027	RE 21	SK3054	RT-197	ECG152
Q603	2S0525Y	2520-17	GE-66	TR-76	PTC110	HEP50027	RE 21	SK3054	RT-197	ECG152
ZD501	BZ162	2436-17			ZB16B		RE 122		RT-246	ECG5075
ZD502	RD5.6EC	2527-17	GEZD-5.6		ZB5.6B		RE 107		RT-236	ECG136

(11) Rating, 12 Watt @ 3.0 Amp.

(12) Rating, 25 Watt @ 8.0 Amp.

(13) Rating, 10 Watt @ 1.5 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
C10	10 16V	104352	PC10-25	VTT10A25	QV1-41	EV-1222
C17	100 10V	107752	PC100-10	VTT100E10	QV1-93	EV-1130
C18	3.3 25V	102652	PC5-50	VTT3R3A50	QV1-23	EV-1318
C39	1 25V	159458		TOC105M035EL		SD35-19
C64	4.7 25V	103152	PC5-50	VTT4R7A50	QV1-27	EV-1319
C68	33 10V	105752	PC30-25	VTT33A10	QV1-61	EV-1125
C109	1 50V	101552	PC1-50	VTT1B63	QV1-11	EV-1615
C111	33 16V	105852	PC30-25	VTT33D25	QV1-63	EV-1325
C115	1 25V	159458		TOC105M035EL		SD35-19
C119	.47 50V	100252				
C121	.47 50V	100252	PC1-50	VTT4R7B63	QV1-3	EV-1610
C123	47 10V	106252	PC50-16	VTT47D16	QV1-73	EV-1226
C125	100 10V	107752	PC100-10	VTT100E10	QV1-93	EV-1130
C127	100 16V	108052	PC100-16	VTT100F16	QV1-95	EV-1230
C128	100 10V	107752	PC100-10	VTT100E10	QV1-93	EV-1130
C132	100 16V	108052	PC100-16	VTT100F16	QV1-95	EV-1230
C133	33 16V	105852	PC30-25	VTT33D25	QV1-63	EV-1325
C135	2200 16V	112052	WBR2000-16	TC1520C	QV1-643	TVA-1175.3
C146	47 10V	106252	PC50-16	VTT47D16	QV1-73	EV-1226
C148	3.3 25V	102652	PC5-50	VTT3R3A50	QV1-23	EV-1318
C149	.1 35V	163558		TDC104M050EL	QDT1-2	SD50-R109
C152	3.3 25V	102652	PC5-50	VTT3R3A50	QV1-23	EV-1318
C154	1 50V	101552	PC1-50	VTT1B63	QV1-11	EV-1615
C170	10 16V		PC10-25	VTT10A25	QV1-41	EV-1222
C304	10 16V	104352	PC10-25	VTT10A25	QV1-41	EV-1222
C305	33 10V	105752	PC30-25	VTT33A10	QV1-61	EV-1125
C309	100 6.3V	107652	PC100-10	VTT100E10	QV1-93	EV-1130
C310	10 16V	104352	PC10-25	VTT10A25	QV1-41	EV-1222
C311	1 50V	101552	PC1-50	VTT1B63	QV1-11	EV-1615
C405	3.3 25V	102652	PC5-50	VTT3R3A50	QV1-23	EV-1318
C501	2200 25V	114952	WBR2000-25	TC2520A	QV1-645	TVA-1213.5
C502	100 25V	108152	PC100-25	VTT100G25	QV1-97	EV-1330
C606	1 50V	101552	PC1-50	VTT1B63	QV1-11	EV-1615
C611	33 25V	105852 (1)	PC30-25	VTT33D25	QV1-63	EV-1325
C612	100 33 25V 100	105852 (1)	242 PC30-25	VTT33D25	QV1-63	EV-1325

(1) Used in some versions.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C1	.01 10%			WMF1S1	EWFA110	QF1-91	1PB-S10
C2	.047			MGP05	MAG5015	QC2-207	TG-S50
C3	68 10% N150	104451	UK25-503				10TCP-Q68
C4	.022 10%				M192P2239R8		192P2239R8
C5	.047				MAG5015	QC2-207	TG-S50
C6	39 10% N150	103151	UK25-503	MGP05	*		10TCP-Q39
C7	15 N150				*		10TCP-Q15
C8	39 10% N150	103151			*		10TCP-Q39
C9	39 10% N150	103151			*		10TCP-Q39
C11	.01 10%			WMF1S1	EWFA110	QF1-91	1PB-S10
C12	.01 10%			WMF1S1	EWFA110	QF1-91	1PB-S10

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	82 10% N150	105051			*		10TCP-Q82
C14	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C15	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C16	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C19	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C20	68 10% N150	104451			*		10TCP-Q68
C21	150 10% N150	105751			*		10TCP-T15
C22	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C23	220 10% N150	106151			*		10TCP-T22
C24	82 10% N150	105051			*		10TCP-Q82
C25	330 10%		00-331	GP330	GP333		10TS-T33
C26	330 10%		00-331	GP330	GP333		10TS-T33
C27	2 N150	100351			*		10TCP-V22
C28	2 N150	100351			*		10TCP-V22
C33	.001 10%		00-102		GP210		10TS-010
C34	68 10% N150	104451			*		10TCP-Q68
C35	.022 10%				M192P2239RB		192P2239RB
C36	150 10%		00-151		GP315		10TS-T15
C37	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C38	22 N150	102051			*		10TCP-Q22
C40	.022 10%				M192P2239RB		192P2239RB
C41	.022 10%				M192P2239RB		192P2239RB
C42	10 N150	101451			*		10TCP-Q10
C44	.022 10%				M192P2239RB		192P2239RB
C45	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C46	.047 10%				EWFA1A147	QF1-171	1PB-S47
C47	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C48	.022 10%				M192P2239RB		192P2239RB
C49	.022 10%				M192P2239RB		192P2239RB
C50	.022 10%				M192P2239RB		192P2239RB
C51	22 N150	102051			*		10TCP-Q22
C52	.022 10%				M192P2239RB		192P2239RB
C53	3 N150	100651			*		10TCP-V30
C54	.022 10%				M192P2239RB		192P2239RB
C55	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C56	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C57	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C58	.022 10%				M192P2239RB		192P2239RB
C59	5 N150	100951			*		10TCP-V47
C60	.022 10%				M192P2239RB		192P2239RB
C61	22 N150	102051			*		10TCP-Q22
C62	.001 10%			OPMS601	EWFA1A210	QF1-1	1PB-D10
C63	.0047 10%			WMF1D47	M192P4729RB		192P4729RB
C65	.001 10%			OPMS601	EWFA1A210	QF1-1	1PB-D10
C66	.022 10%				M192P2239RB		192P2239RB
C67	22 N150	102051			*		10TCP-Q22
C69	.047 10%				EWFA1A147	QF1-171	1PB-S47
C70	.001 10%				MAG5015	QC2-207	1PB-D10
C71	.047		UK25-503	OPMS601	MAG5015		TG-S50
C72	.0047 10%			WMF1D47	M192P4729RB		192P4729RB
C74	.0047 10%			WMF1D47	M192P4729RB		192P4729RB
C75	.047 10%				EWFA1A147	QF1-171	1PB-S47
C76	.001 10%			OPMS601	EWFA1A210	QF1-1	1PB-D10
C77	2 N150	100351			*		10TCP-V22
C78	.022 10%				M192P2239RB		192P2239RB
C79	56 10% N150	116451			*		10TCP-Q56
C80	.022 10%				M192P2239RB		192P2239RB
C83	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C84	100 10% N150	105451			*		10TCP-T10
C85	.047 10%				EWFA1A147	QF1-171	1PB-S47
C86	.047 10%				EWFA1A147	QF1-171	1PB-S47
C87	4 N150	100851			*		10TCP-V39
C88	47 10% N150	103651			*		10TCP-Q47
C89	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C90	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C91	39 10% N150	103151			*		10TCP-V39
C92	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C93	2 N150	100351			*		10TCP-V22
C94	47 10%		DTZ-47	NPO47	CNO447		10TCC-Q47
C95	33 N150	102751			*		10TCP-Q33
C96	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C97	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C98	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C99	33 10% N150	102751			*		10TCP-Q33
C100	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C101	8 N150	101251			*		10TCP-V82
C102	.022 10%				M192P2239RB		192P2239RB
C103	.022 10%				M192P2239RB		192P2239RB
C104	.022 10%				M192P2239RB		192P2239RB
C105	.022 10%				M192P2239RB		192P2239RB
C106	.022 10%				M192P2239RB		192P2239RB
C107	3		DTZ-3R3	NPO3P3	CNO533		10TCC-V33
C108	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C112	.047 10%				EWFA1A147	QF1-171	1PB-S47
C113	100 10%		00-101	GP100	GP310		10TS-T10
C114	.022 10%				M192P2239RB		192P2239RB
C116	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C117	47 10% N150	103651			*		10TCP-Q47
C120	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C122	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C124	.1 10%			WMF05P1	EWFO5010		431P1049R5
C126	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C129	.022 10%				M192P2239RB		192P2239RB
C130	.022 10%				M192P2239RB		192P2239RB
C131	39 10% N150	103151			*		10TCP-Q39
C134	.01 10%			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C136	.047 10%		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C137	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C138	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C139	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50

LAFAYETTE MODEL TELSAT SSB-100

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
C140	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C141	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C142	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C143	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C144	220 10% N150	106151					10TCP-T22
C145	.01 10%						1PB-S10
C147	68 10%		0D-680	WMF151	EWFA1110	QF1-91	10TS-Q68
C155	100 10%		0D-101	GP100	GP310		10TS-T10
C160	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C161	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C162	5 N150	100951					10TCP-V47
C163	47 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C164	.047 10%				EWFA1147	QF1-171	1PB-S47
C165	10 N150	101451					
C167	.047 10%				EWFA1147	QF1-171	1PB-S47
C169	.01 10%				EWFA1110	QF1-91	1PB-S10
C171	33		DTZ-33	WMF151	CN0433		10TCC-Q33
C189	27 N150	102351					10TCP-Q27
C201	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C202	220 10% N150	106151					10TCP-T22
C203	82 10% N150	105051					10TCP-QB2
C204	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C206	10 N150	101451					
C207	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C208	15 N150	101751					10TCP-Q15
C209	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C210	100 10% N150	105451					
C211	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C212	15 N150	101751					
C213	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C214	1 N150						
C215	15 N150	101751					10TCP-Q15
C216	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C217	27 10% N150	102351					10TCP-Q27
C218	27 10% N150	102351					10TCP-Q27
C219	27 10% N150	102351					10TCP-Q27
C220	27 10% N150	102351					10TCP-Q27
C221	220 10% N150	106151					10TCP-T22
C222	22 N150	102051					10TCP-Q22
C223	22 N150	102051					10TCP-Q22
C224	120 10% N150						10TCP-Q22
C225	68 10% N150	104451					10TCP-T12
C226	68 10% N150	104451					10TCP-Q68
C227	.01		UK50-103	MGP01	MAG5011	QC2-141	10TCP-Q68
C228	.01		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C301	.0022 10%				GP222		TG-S10
C302	.2	110251					10TS-Q22
C303	150 10%		0D-151		GP315		10TS-T15
C306	.047 10%				EWFA1147	QF1-171	1PB-S47
C307	.0022 10%				GP222		10TS-Q22
C308	.0033		0D-332	GP3300	GP233	QC2-107	5GA-Q33
C401	.01 10%			WMF151	EWFA1110	QF1-91	1PB-S10
C402	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C403	.01 10%			WMF151	EWFA1110	QF1-91	1PB-S10
C404	.0047 10%			WMF1047	M192P4729R8		192P4729R8
C406	.0047 10%			WMF1D47	M192P4729R8		192P4729R8
C407	.0047 10%			WMF1047	M192P4729R8		192P4729R8
C503	.022		UK50-223	MGP02	MAG5012	QC2-157	TG-S20
C504	.01 5/16		UK50-103	MGP01	MAG5011	QC2-141	TG-S10
C505	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C506	.022				M192P2239R8		192P2239R8
C601	150		0D-151		GP315		10TS-T15
C602	.047 10%				EWFA1147	QF1-171	1PB-S47
C603	.0047		0D-472	GP4700	GP247		5GA-Q47
C604	.033 10%				M192P3339R8		192P3339R8
C607	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C608	.047		UK25-503	MGP05	MAG5015	QC2-207	TG-S50
C609	47 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C901	.1 10%			WMF05P1	EWFO5010		431P1049R5
TC1	50	110057					GKB50000
TC2	20	109157					GKB20000
TC201	20						GKB20000
TC202	20						GKB20000
TC203	20						GKB20000
TC204	20						GKB20000
TC205	20	109957					GKB20000

*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.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
RV1	Driver Bias	1000	273713				
RV2	Final Bias	500	248913				
RV4	Carrier Balance	330	289313				
RV5	ALC	10K	287213				
RV6	SSB AGC	5000	249213	T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
RV7	AM Mic Gain	20K	287113				
RV8	SSB Mic Gain	20K					
RV9	S Meter	10K					
RV10	AM AGC	100K	229713	T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
RV11	LSB Gain	50K	289413				
RV12	Squelch Range	50K	289513				
RV401	RF Meter	10K	249413	T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
RV402	SWR Meter	2000	256813	T-2500 (2)	C-252 (2)	MTC23L1 (2)	X201R252B (2)
RV403	MOD Meter	20K	229213	T-20K (2)	C-253 (2)	MTC24L1 (2)	X201R253B (2)
RV501	AVR	500	285813	T-500	C-501	MTC52L1	X201R501B
RV601	Volume	10K	183011				
RV602	Squelch	10K	183111				
RV603	Fine Tune	10K	183211				
		Tap 1800					
RV604	RF Gain	50K	183311				
RV605	SWR Cal/Switch	5000	183411				
RV606	Mod Cal	50K	183511				
RV607	All Power	10 4W	1836-11		HPV-10	VH-10	BU1,MF16

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Xmit Mixer (11MHz)	222324			
L2	Harmonic Suppressor (27MHz)	222423			
L3	Xmit Mixer (27MHz)	222523	ETR345613J		
L4	Xmit Amp (27MHz)	222624			
L5	Xmit Driver (27MHz)	222724			
L6	Pi Filter (27MHz)	222824			
L7	Final Amp (27MHz)	222724			
L9	Carrier Bal. (11MHz)	222924	ETR350613J		
L10	Rec IF (11MHz)	222924			
L11	Rec IF (11MHz)	223024			
L12	LSB Doubler (22MHz)	223124	ETR2906135		
L13	LSB Mixer (7MHz)	223324			
L14	LSB Mixer (7MHz)	223324			
L15	LSB Mixer (16MHz)	223224	ETR3535035		
L16	LSB Amp (16MHz)	223224	ETR3535035		
L17	LSB Amp (16MHz)	223224	ETR3536125		
L18	Rec Ant (27MHz)	223424			
L19	Rec RF (27MHz)	273123	ETR261		
L20	Rec Mixer (11MHz)	223524			
L201	USB Osc (23MHz)	223624	ETR351		
L202	AM/USB Mixer (38MHz)	223723	ETR2916135		
L203	USB Amp (38MHz)				
L204	USB Amp (38MHz)		ETR291		
L601	Ant Match (27MHz)	221623			
RFC1	RF Choke	234223			
RFC2	RF Choke	274623			
RFC3	RF Choke	221723			
RFC5	RF Choke (2.2uH)	288223	022C		
RFC6	RF Choke		680T		
RFC7	RF Choke				
RFC8	RF Choke				
RFC9	RF Choke (2.2uH)	288223			
RFC201	RF Choke (4.3uH)	288323			
RFC202	RF Choke (2.7uH)	281623			
RFC203	RF Choke (2uH)	281723			

LAFAYETTE MODEL TELSAT SSB-100

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.	
CH1	2A	.03	.16mH	281423 ELA-17 (1)			(1) Number on unit.

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	1.5	1		185215 ETA-55 (1)	TR667		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	18	8	185315 ETA-68 (1)			(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T601	120V AC @ 600mA AC	18.5V AC @ 3.6A AC	188415 H68U002Y (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP601	3 1/2" PM, 8 Ohms	133636	3A05Z8R	

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
F501	3A, Fast Acting			GJV3	HDJ	318003	150145	
F601	1A, Fast Acting	323620		AGC1	HKP	312001	342012AL	
F602	3A, Fast Acting	576320		AGC3		312003		FG1-2 FG3-2

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	109334	18-032	18-034	18-010	18-105	1	4	2	5	NC	3

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X1	11.275	139135	ATD90M11.275	1 thru 23	X205	23.530	121135	ATA14M23.530	17,18,19,20
X201	23.330	120735	ATA14M23.330	1,2,3,4	X206	23.580	121235	ATA14M23.580	21,22,23
X202	23.380	120835	ATA14M23.380	5,6,7,8	X207	14.907	121335	ATC23QM14.907	1,5,9,12,17,21
X203	23.430	120935	ATA14M23.430	9,10,11,12	X208	14.917	121435	ATC23QM14.917	2,6,10,14,18,22
X204	23.480	121035	ATA14M23.480	13,14,15,16	X209	14.927	121535	ATC23QM14.927	3,7,11,15,19
					X210	14.947	121635	ATC23QM14.947	4,8,12,16,20,23

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CR1	Component Combination	145358	(S3E103Z151K KCK)
CR601	Component Combination	161558	(MU C471 R25-4M 125V AC 62)
M601	Meter	123827	S/R/F
M602	Meter	123927	S/MOD
RY1	Relay	109037	Xmit/Rec (218 Ohms) (2P-0)
SW201	Switch	220814	Channel Selector
SW301	Switch	220714	AM/USB/LSB
SW601	Switch	208614	Power
SW602A	Switch Assembly	220914	MOD/CAL
SW602B	Switch Assembly		SWR/CAL
SW602C	Switch Assembly		ANL/Off
SW602D	Switch Assembly		NB/Off
SW602E	Switch Assembly		Tone, Lo/Hi
SW602F	Switch Assembly		PA/CB
XF	Filter	139235	11.2735MHz (FFC-113-1) (7603-3)
	Printed Circuit Board	187516	Main (M035C0X-P-N885)
	Printed Circuit Board	187616	Synthesizer (PTSY008C0X)
	Printed Circuit Board	187716	Mic Amp (PTSW006C0X)
	Printed Circuit Board	187816	SWR (PTSR003D0X)
	Printed Circuit Board	187916	Power (TPW006C0X)
	Printed Circuit Board	188016	Push Switch (PTSW011C0X)

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

ITEM	PART No.	ITEM	PART No.
Panel, Front	195180	Chassis	195080
Panel, Rear	195280	Mtg. Bracket (Left)	115609
Plate, Bottom	195480	Mtg. Bracket (Right)	115709
Cabinet	195380		