

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 Sidetalk 1000B

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

L108, L110, T302.....

ALL other tunable coils and transformers.....

ALL tunable caps.....

GC Electronics:

.....9300

.....9440

.....5000

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Input of frequency counter to TP2, common to ground.	Any	C415	7.8025MHz +10Hz	Set mode switch to LSB, receive. Adjust to frequency.
Oscilloscope (Response to 30MHz Input of scope to G1 of Q7, common to ground.		T402, T403		Set mode switch to USB, receive. Adjust for maximum amplitude.
Input of frequency counter thru 20pF in parallel with 20uH coil to G1 of Q7, common to ground.			15.605MHz	The frequency must be 15.605MHz. If not, repeat first step.
Input of scope to TP1, common to ground.	13	T206, T205, T204		Set mode switch to LSB, receive. Set clarifier to center detent. Preset C241 thru C250 to mid-positions. Adjust T206, T205, T204 for maximum amplitude.
Input of frequency counter to TP1, common to ground.	1 2 3 4 8 12 16 20 23	C247 C248 C249 C250 C242 C243 C244 C245 C246	19.1625MHz 19.1725MHz 19.1825MHz 19.2025MHz 19.2525MHz 19.3025MHz 19.3525MHz 19.4025MHz 19.4525MHz	Set mode switch to LSB, receive. Set clarifier to center detent. All frequencies should be within +50Hz. If this tolerance cannot be obtained C241 may be adjusted to bring frequencies into tolerance.

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

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Printed in U. S. of America

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PAGE MODEL SIDETALK 1000B

SYNTHESIZER(cont)

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Input of scope to TP1, common to ground.	13	T201, T202, T203, T402, T403	34.9175MHz	Set mode switch to USB. Adjust for maximum amplitude.
Input of frequency counter to TP1, common to ground.	1		34.7675MHz	Set mode switch to USB. Check all channels for these frequencies. If not correct check all preceding steps.
	2		34.7775MHz	
	3		34.7875MHz	
	4		34.8075MHz	
	5		34.8175MHz	
	6		34.8275MHz	
	7		34.8375MHz	
	8		34.8575MHz	
	9		34.8675MHz	
	10		34.8775MHz	
	11		34.8875MHz	
	12		34.9075MHz	
	13		34.9175MHz	
	14		34.9275MHz	
	15		34.9375MHz	
	16		34.9575MHz	
	17		34.9675MHz	
	18		34.9775MHz	
	19		34.9875MHz	
	20		35.0075MHz	
	21		35.0175MHz	
	22		35.0275MHz	
	23		35.0575MHz	
	1		19.165MHz	Set mode switch to AM. Check all channels for these frequencies. If not correct check all preceding steps.
	2		19.175MHz	
	3		19.185MHz	
	4		19.205MHz	
	5		19.215MHz	
	6		19.225MHz	
	7		19.235MHz	
	8		19.255MHz	
	9		19.265MHz	
	10		19.275MHz	
	11		19.285MHz	
	12		19.305MHz	
	13		19.315MHz	
	14		19.325MHz	
	15		19.335MHz	
	16		19.355MHz	
	17		19.365MHz	
	18		19.375MHz	
	19		19.385MHz	
	20		19.405MHz	
	21		19.415MHz	
	22		19.425MHz	
	23		19.455MHz	
Input of frequency counter to antenna jack, common to ground.	13	R228	27.115MHz	Set mode switch to AM. Key transmitter, no modulation. Adjust for frequency.
Input of frequency counter to TP1, common to ground.	13		19.3125MHz +50Hz	Set mode switch to LSB. Set clarifier to detent. This frequency should be obtained.
		R226	19.3131MHz	Rotate clarifier fully clockwise. Adjust for this frequency.
		R227	19.3119MHz	Rotate clarifier fully counter-clockwise. Adjust for this frequency.

RECEIVER

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

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to gate 1 of Q13, low side to ground.	7.80MHz, 1000Hz @ 30% modulation.	Any	T303,T304, T305,T306, T307	Set mode switch to AM. Set generator output to maintain mid scale reading on S meter. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1uV	13	T301,T302	Set mode switch to AM. Adjust for maximum.

RECEIVER ADJUSTMENTS

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

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
AGC High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 0uV.	13	R361	Set RF gain maximum clockwise. Input of DC VTVM to Q12 base, common to ground. Adjust for 1.6V DC.
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground	27.115MHz 1000Hz @ 30% modulation, output 100uV.	13	R520	Set squelch control fully clockwise. Adjust so that squelch just breaks.
S METER High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 100uV.	13	R363(AM) R364(SSB)	Mode switch to AM. Adjust for S9. Mode switch to LSB. Adjust for S9.

TRANSMITTER

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

AM

INDICATOR	ADJUST	REMARKS
OUTPUT POWER Input of RF wattmeter to antenna jack, common to ground.	L106	Mode switch to AM. Key transmitter. Adjust for 4 watts output.
TVI TRAP TV (Ch. 2)	C141	Mode switch to AM. Key transmitter. Adjust for MINIMUM interference on TV.

TRANSMITTER

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

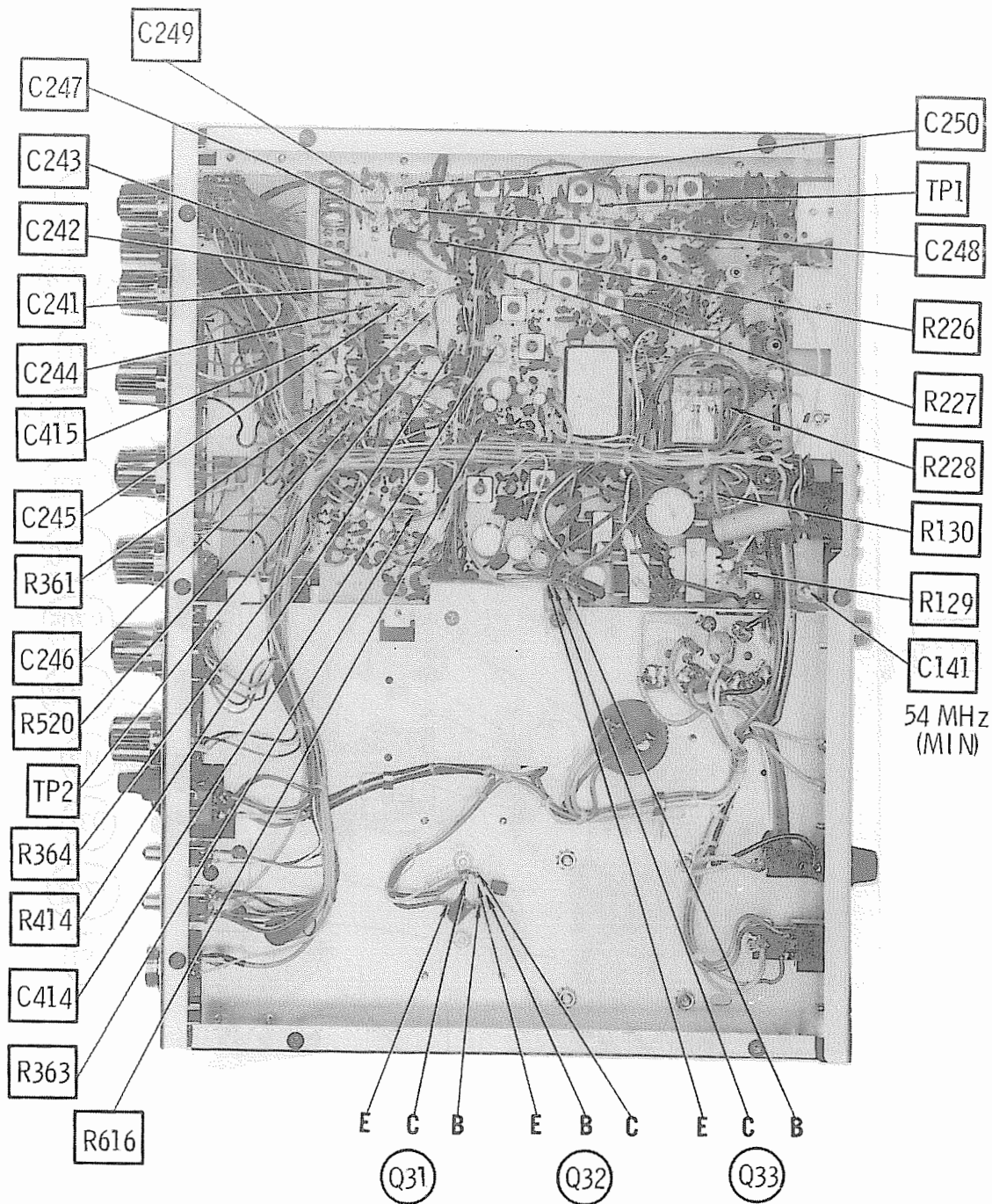
SSB

INDICATOR	ADJUST	REMARKS
CARRIER BALANCE Input of scope to antenna jack, common to ground.	C414, R414	Short mic input. Set mode switch to LSB or USB. Key transmitter and adjust for MINIMUM on scope.
LSB Input of wattmeter and frequency counter to antenna jack, common to ground.	T103,T102, T101,L110, L108,L106 L108, L106	Set mode switch to LSB. Disable R130 + R616. Set channel selector to Ch. 13. Inject a 1000Hz audio signal at mic jack. Key transmitter, adjust audio oscillator to maintain a 6-7 watt reading on wattmeter. Adjust for maximum. Readjust audio oscillator output for 15 watt reading on wattmeter. Readjust for maximum watts.
USB Input of wattmeter and frequency counter to antenna jack, common to ground.	T403,T402, T203,T202, T201	Set mode switch to USB. Set channel selector to Ch. 13. Inject a 1000Hz audio signal at mic input jack. Key transmitter, adjust audio oscillator to maintain a 6-7 watt reading on wattmeter. Adjust for maximum. Increase audio output to confirm that output is at least 15 watts.

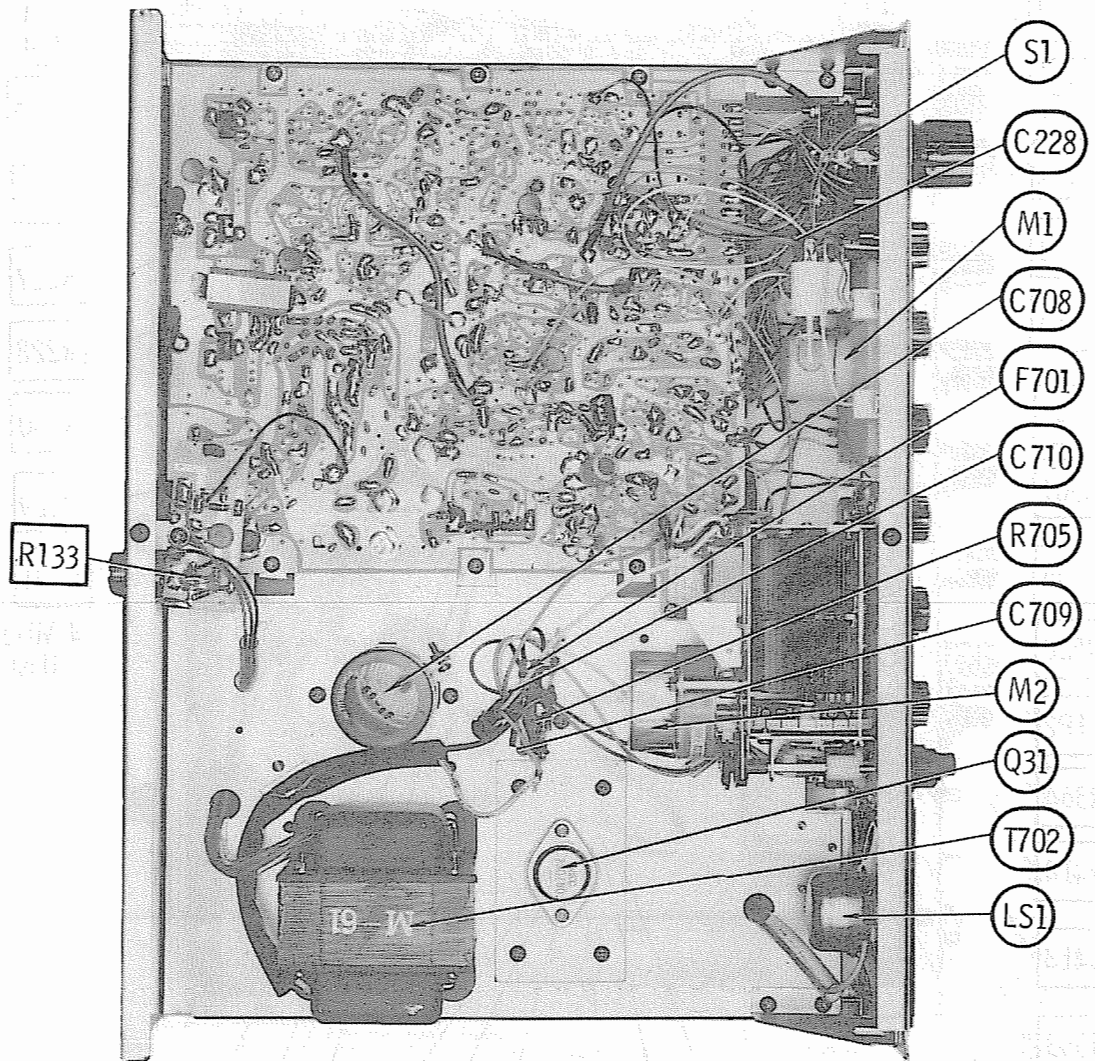
TRANSMITTER ADJUSTMENTS

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

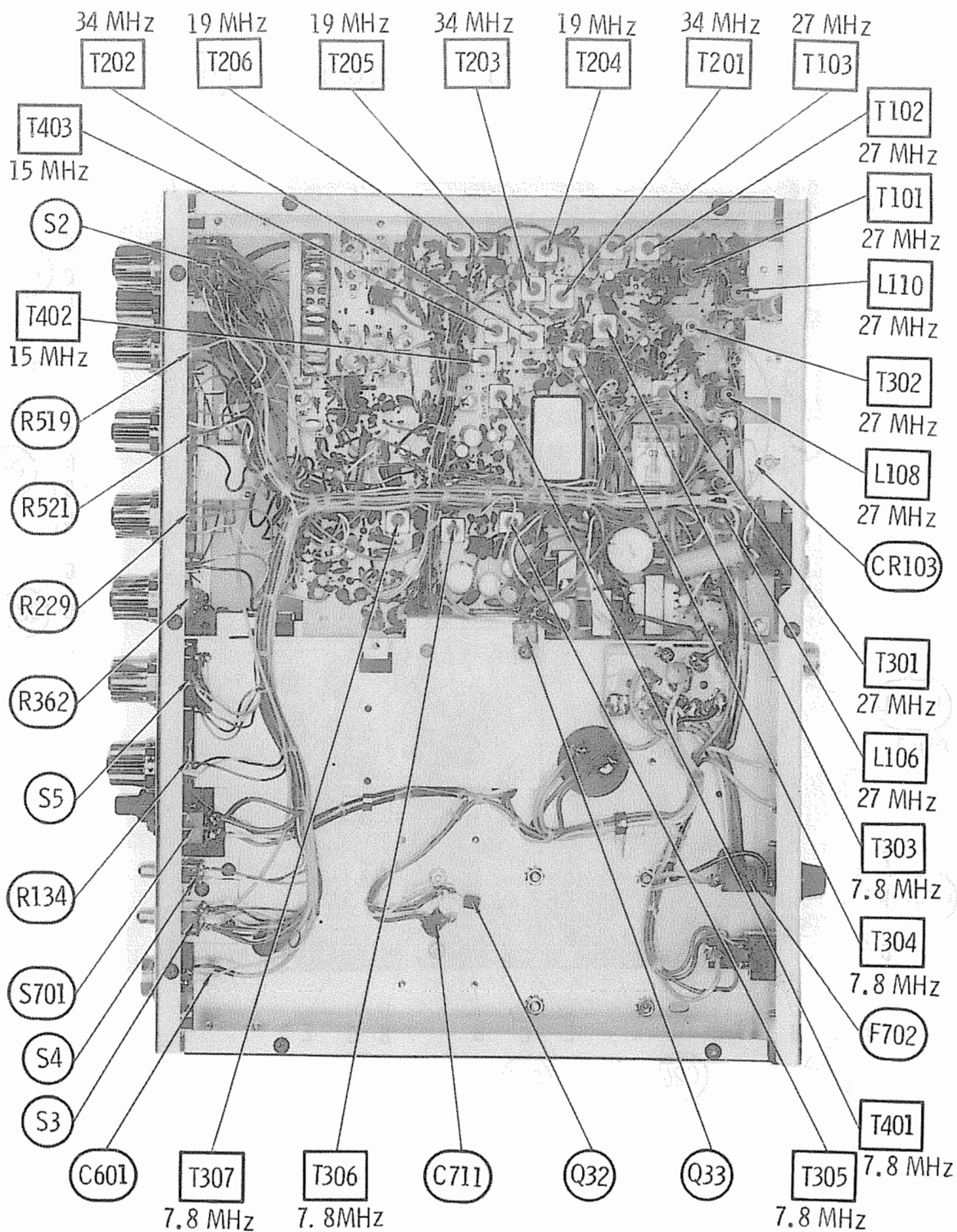
INDICATOR	ADJUST	REMARKS
ALC Input of RF wattmeter and scope to antenna jack, common to ground.	R130	Set mode switch to LSB. Key transmitter. Inject a 1000Hz signal at mic input adjusted to produce 15 watts output. Adjust for 12 watts.
AMC Input of modulation meter to antenna jack, common to ground	R616	Set mode switch to AM. Key transmitter. Inject a 1000Hz audio signal at mic input adjusted to produce 50% modulation. Adjust for 100% modulation maximum.
RF PANEL METER Input of RF Wattmeter to antenna jack, common to ground.	R129	Set mode switch to LSB. Inject 1000Hz audio signal to produce 12 watts. Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.
CAL ADJUST Panel Meter	R133	Set mode switch to AM. Connect a 150 ohm 5 watt non-inductive resistor to antenna jack. Set SWR/Cal switch to Cal. Key transmitter. Adjust R133 so needle is on right end (red) cal. scale. Set SWR/Cal switch to SWR. Adjust R133 to 3 on SWR (green) scale.



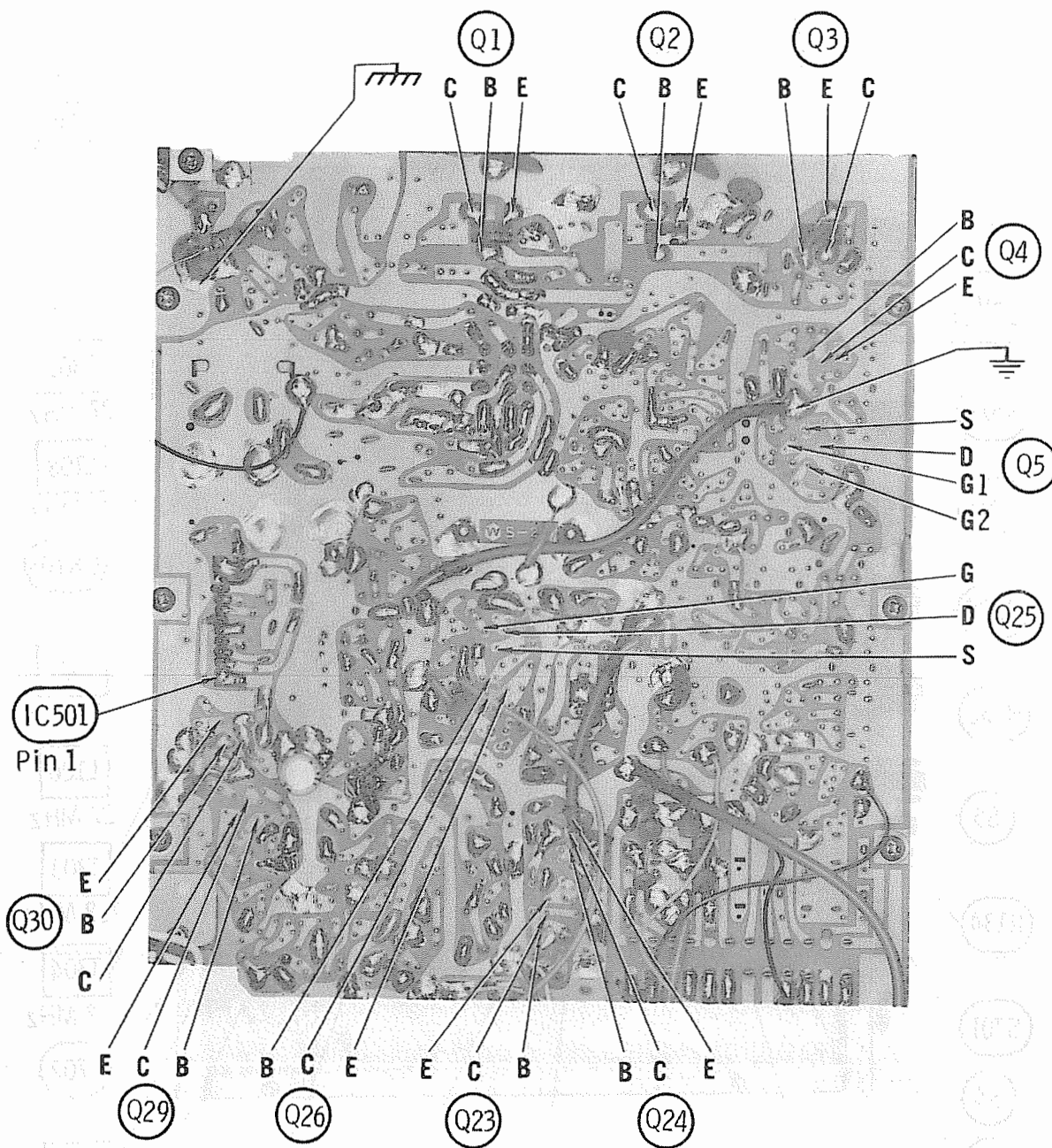
CHASSIS-BOTTOM



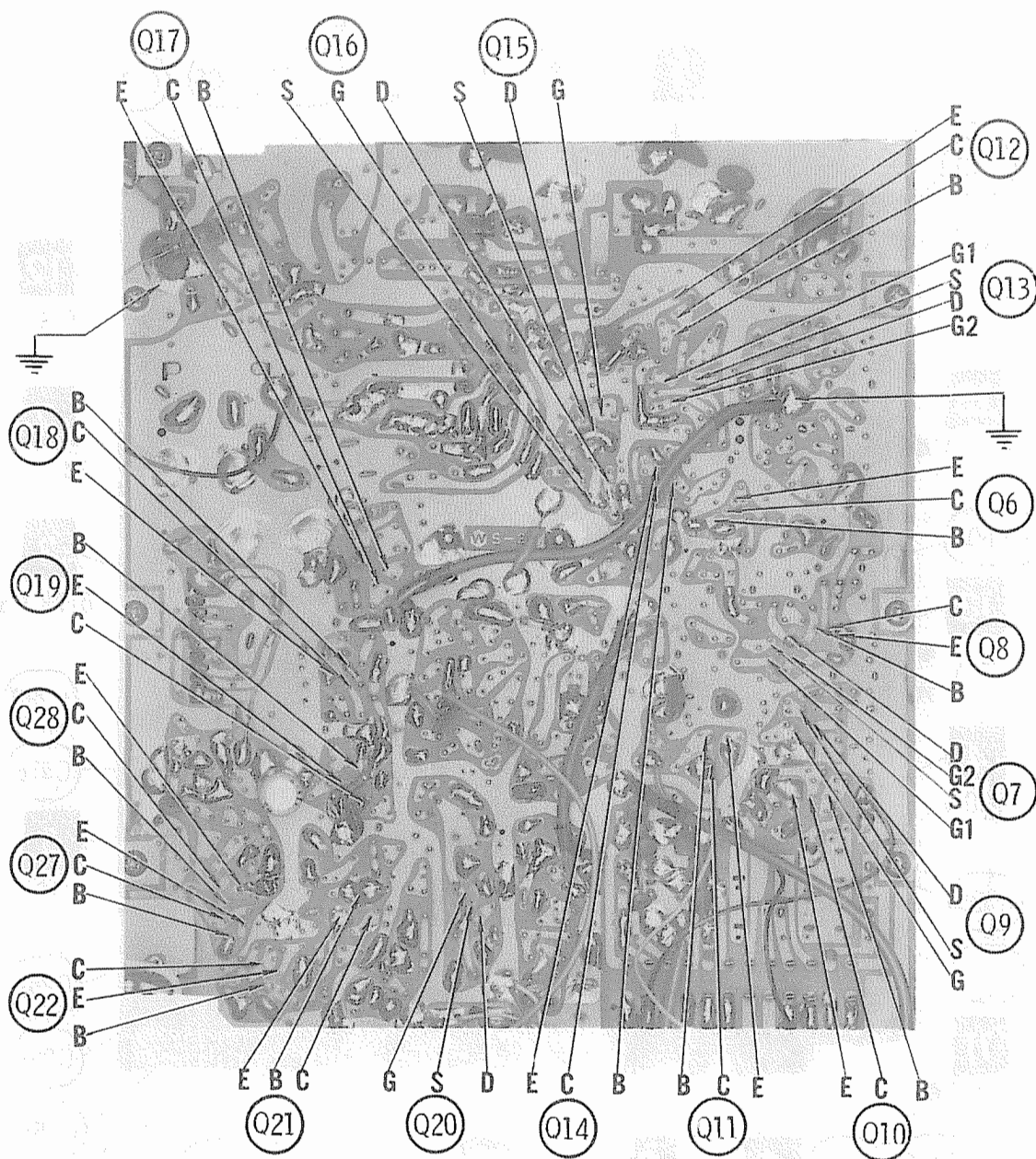
CHASSIS-TOP



CHASSIS-BOTTOM



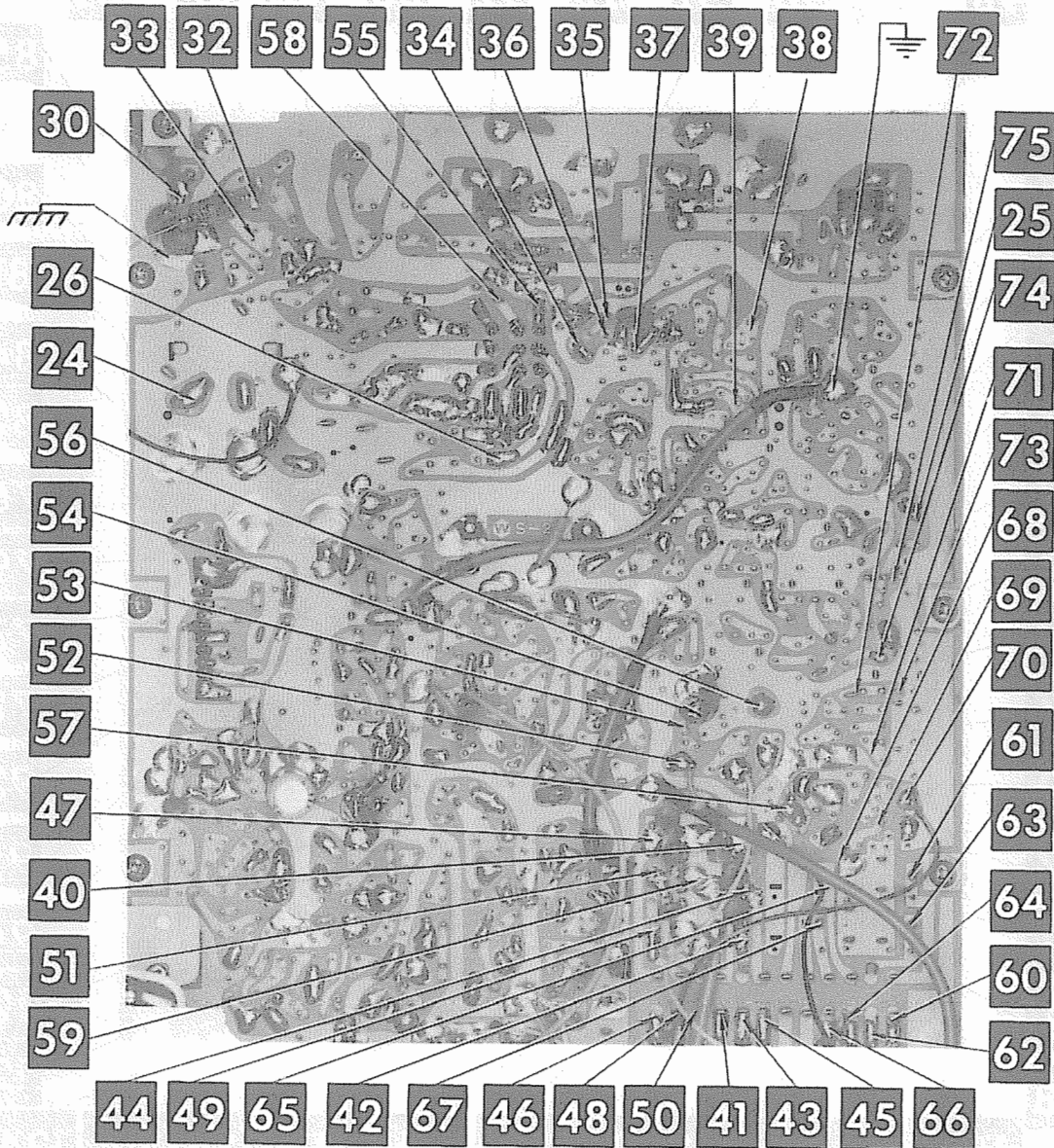
MAIN BOARD



MAIN BOARD

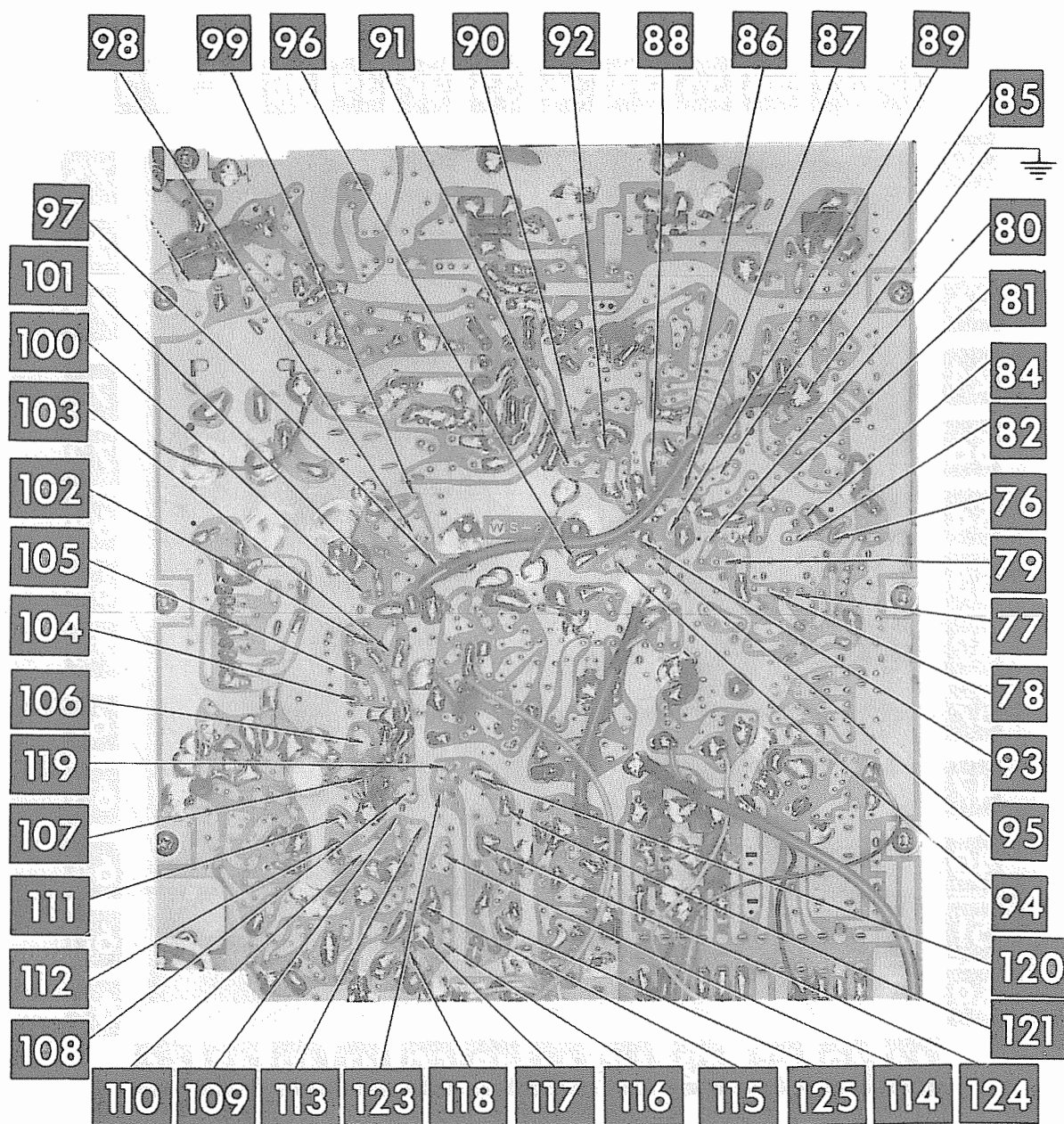


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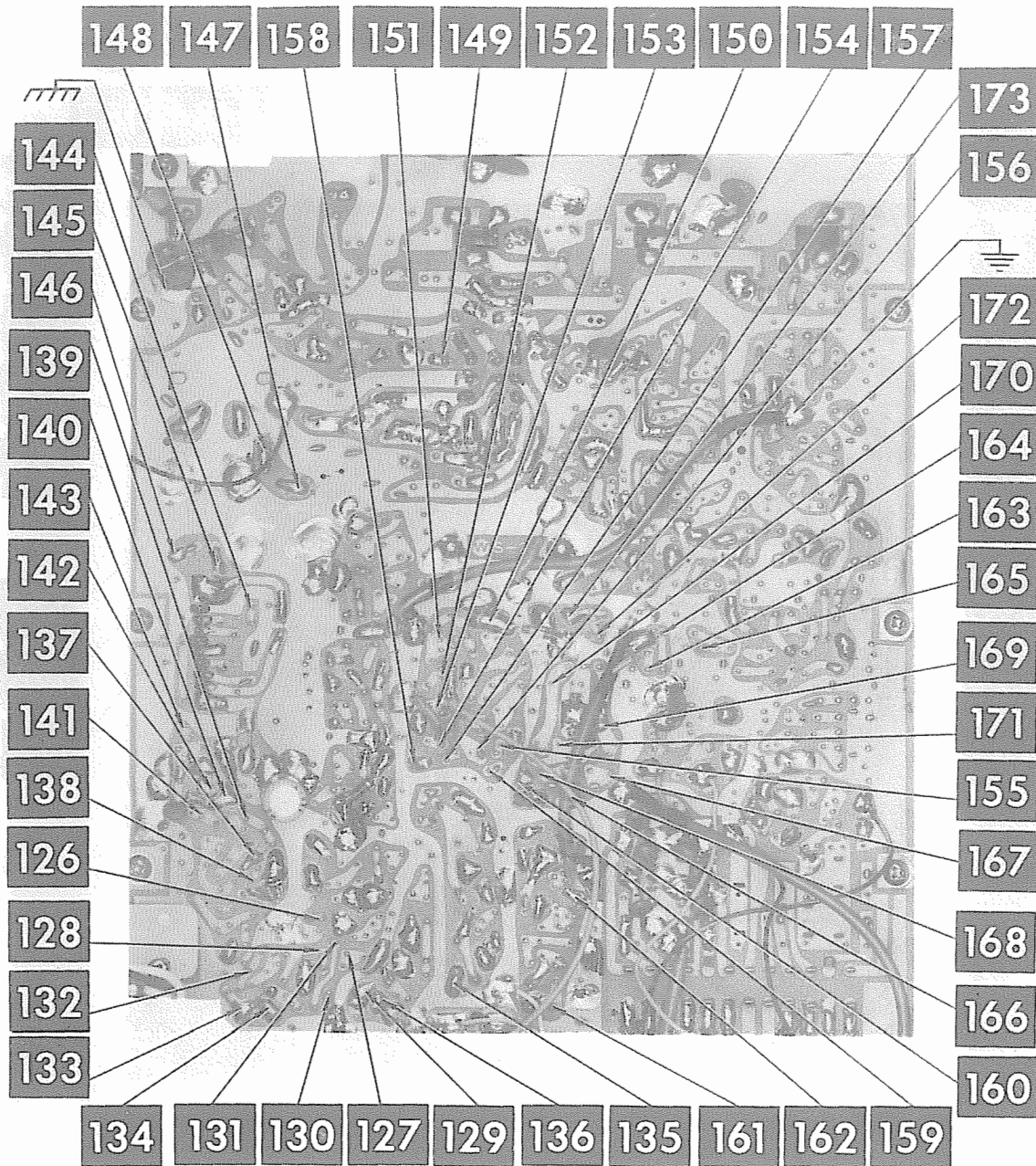


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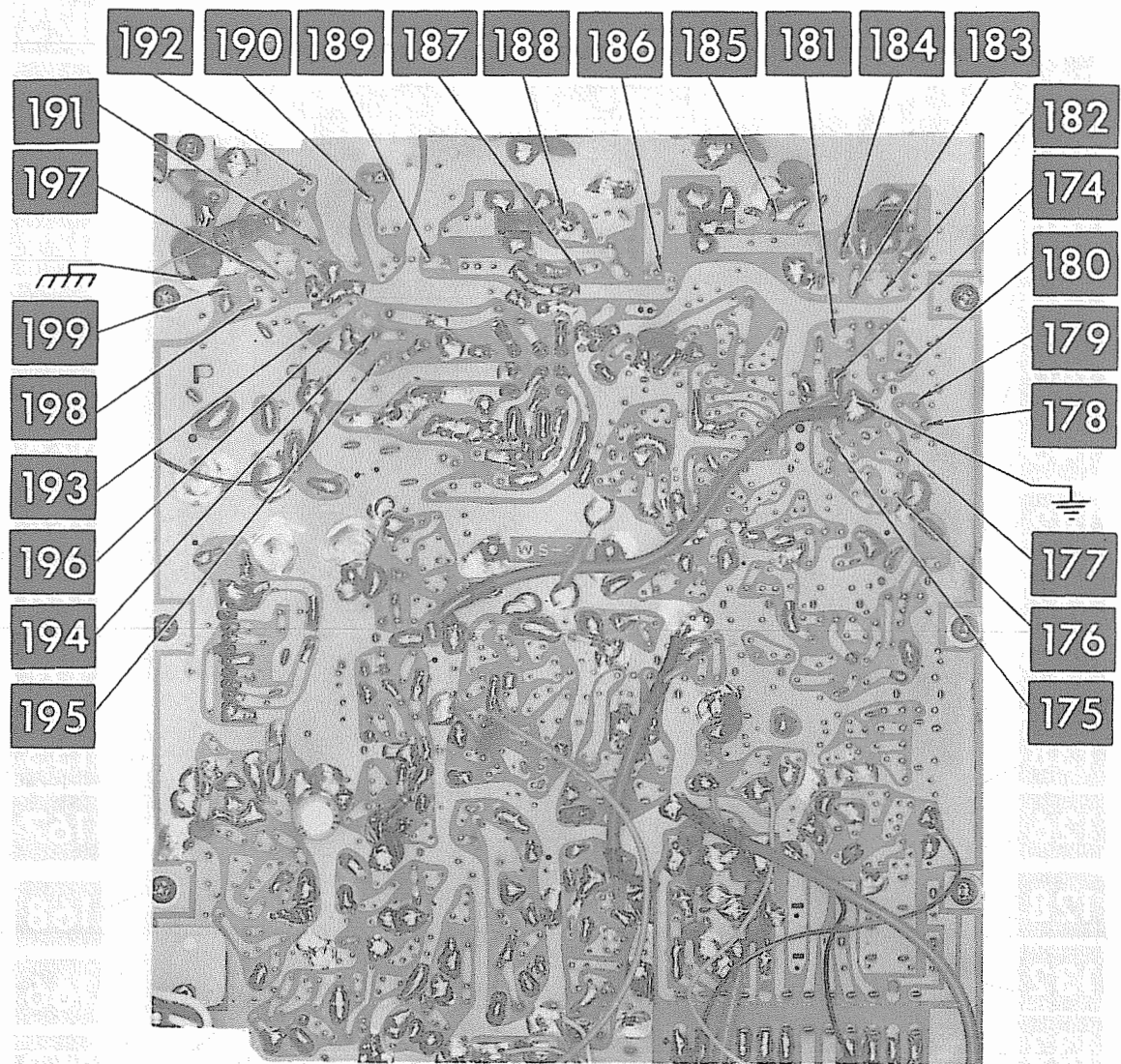


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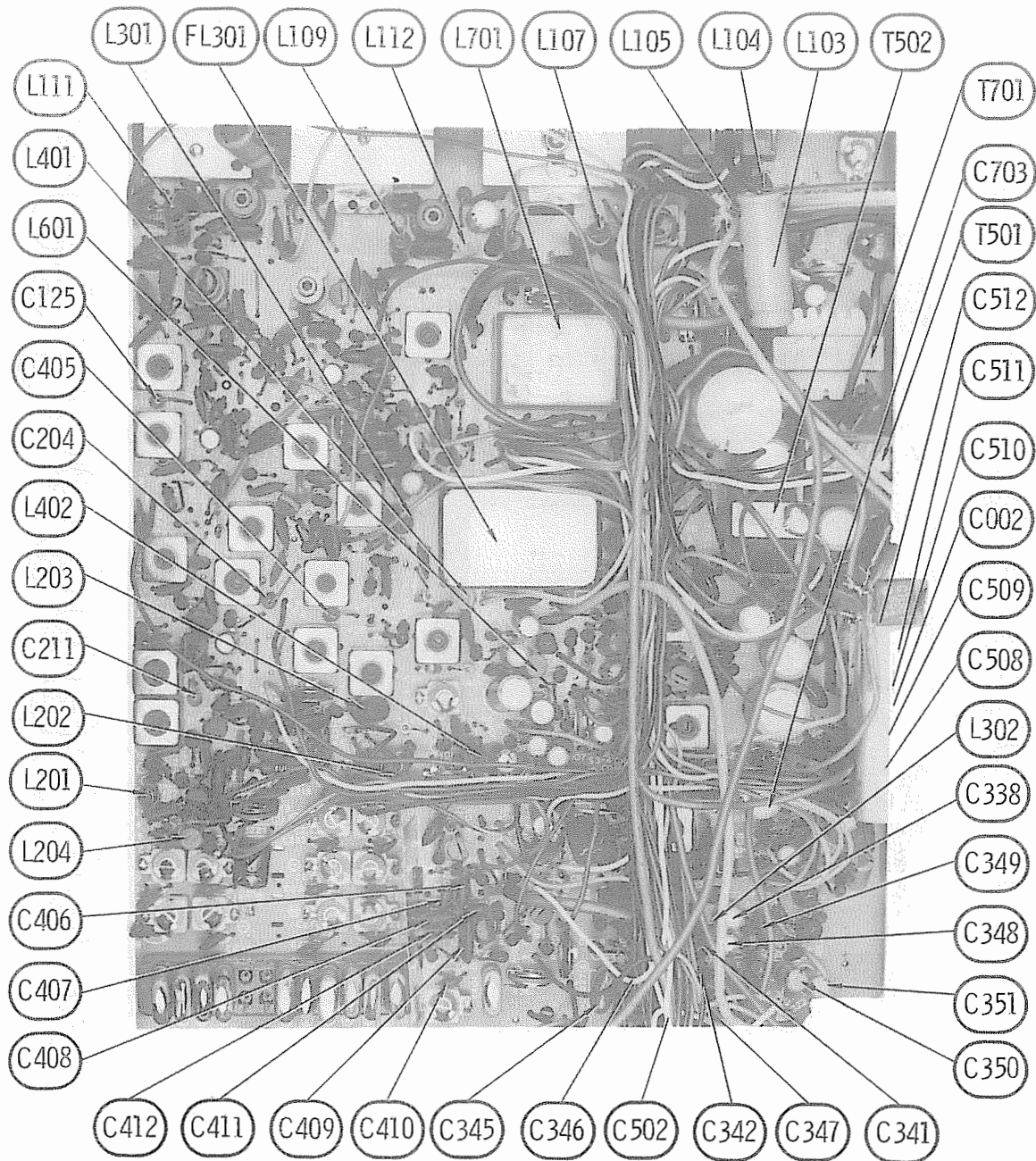


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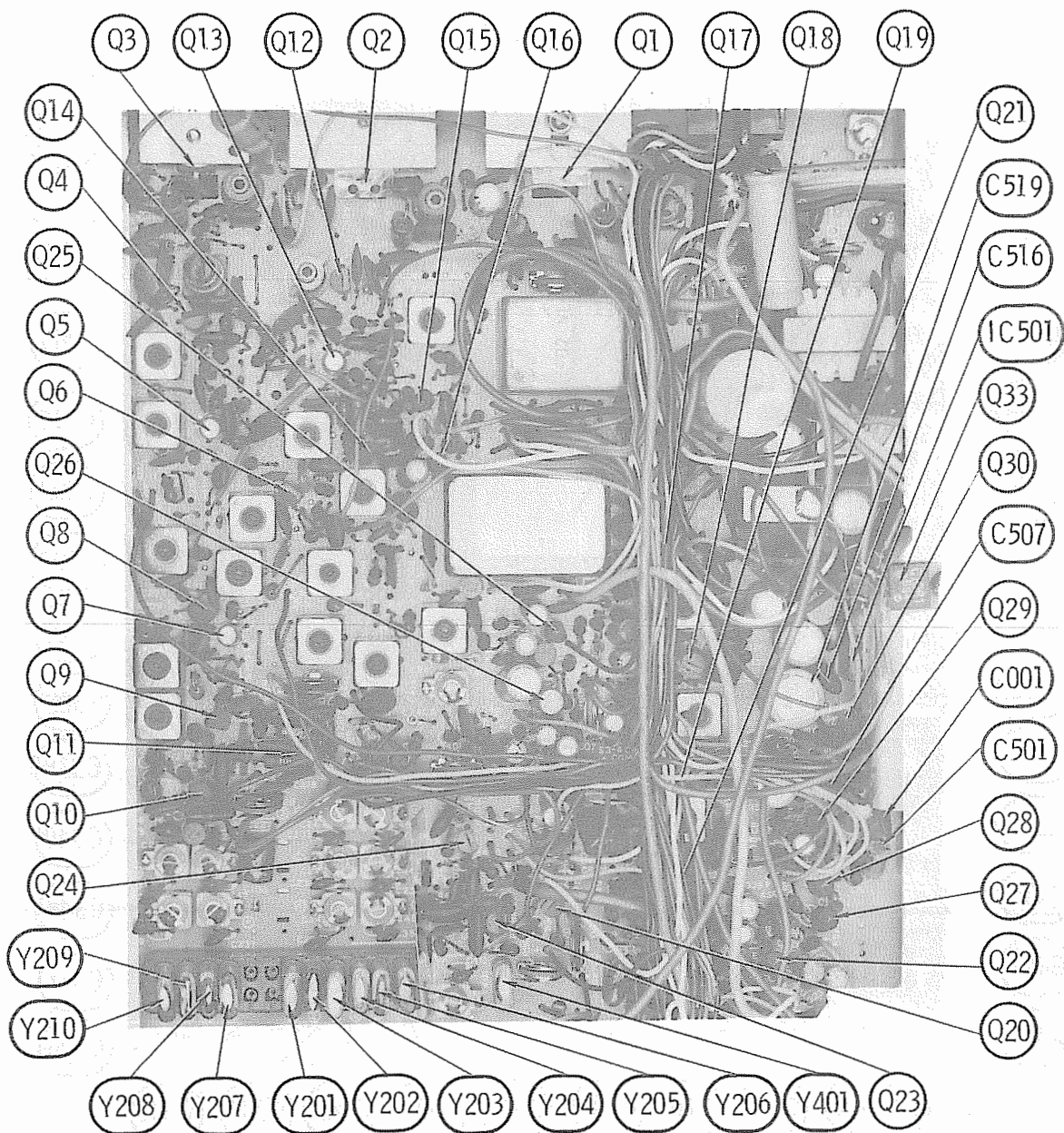
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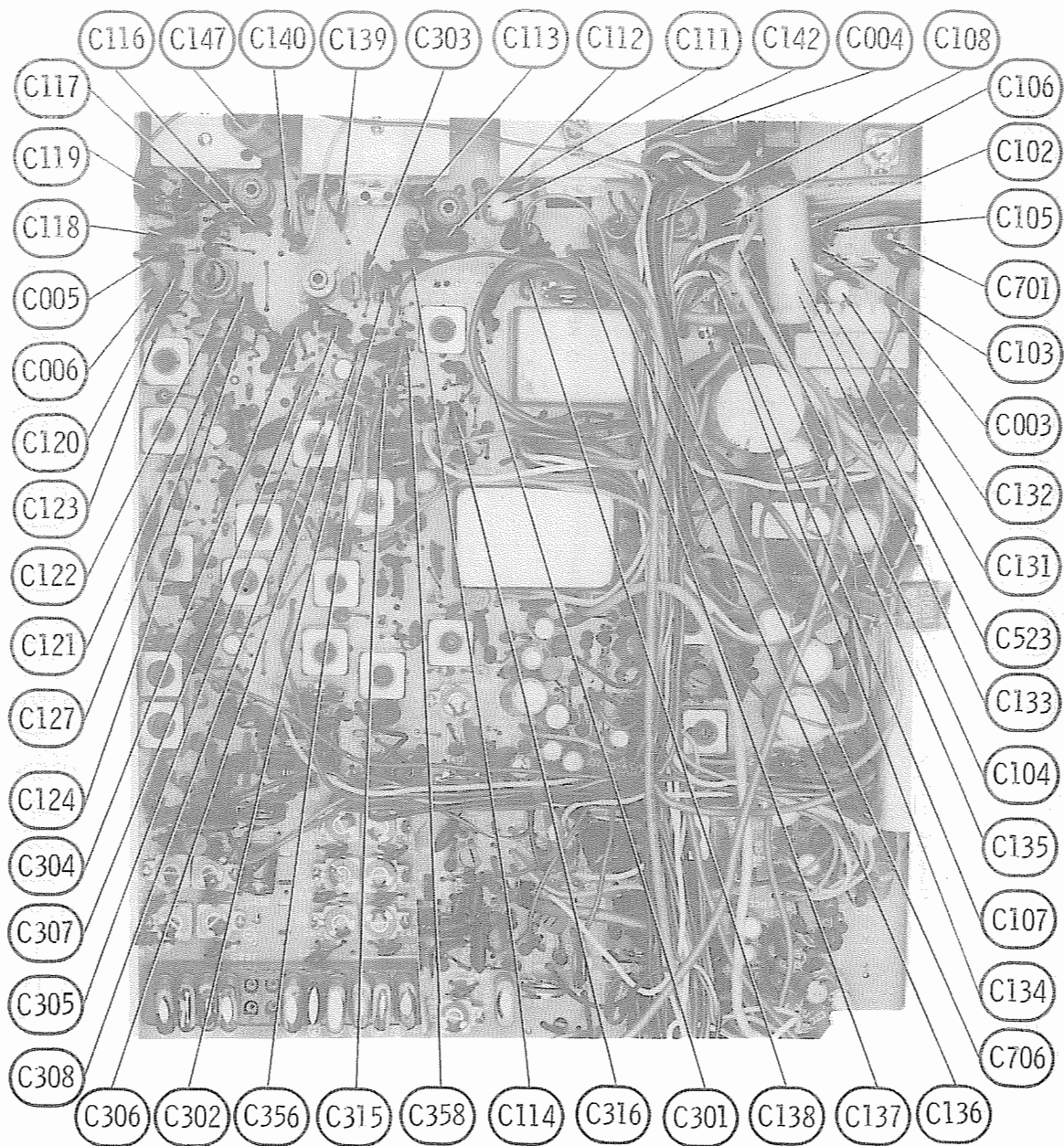
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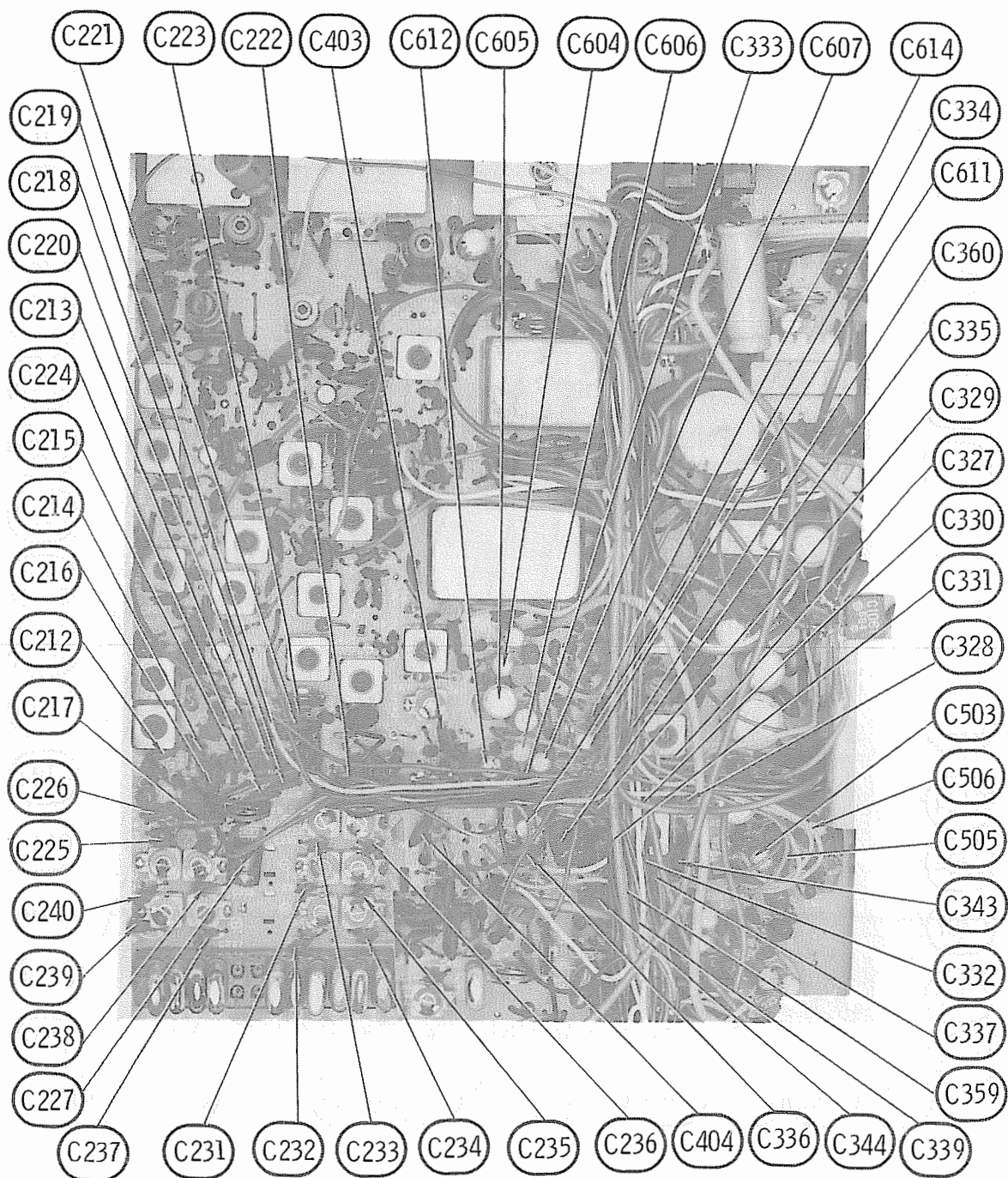
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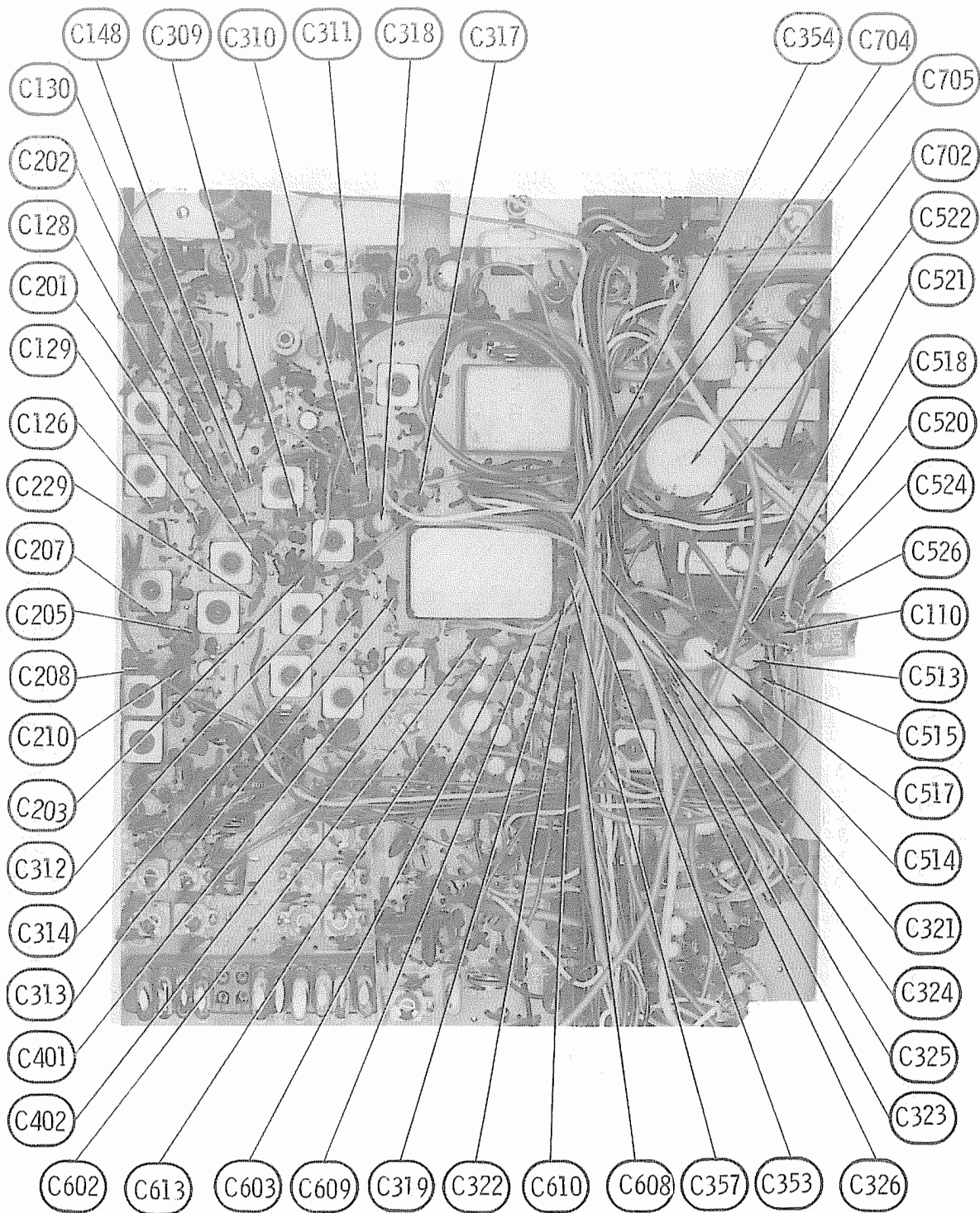
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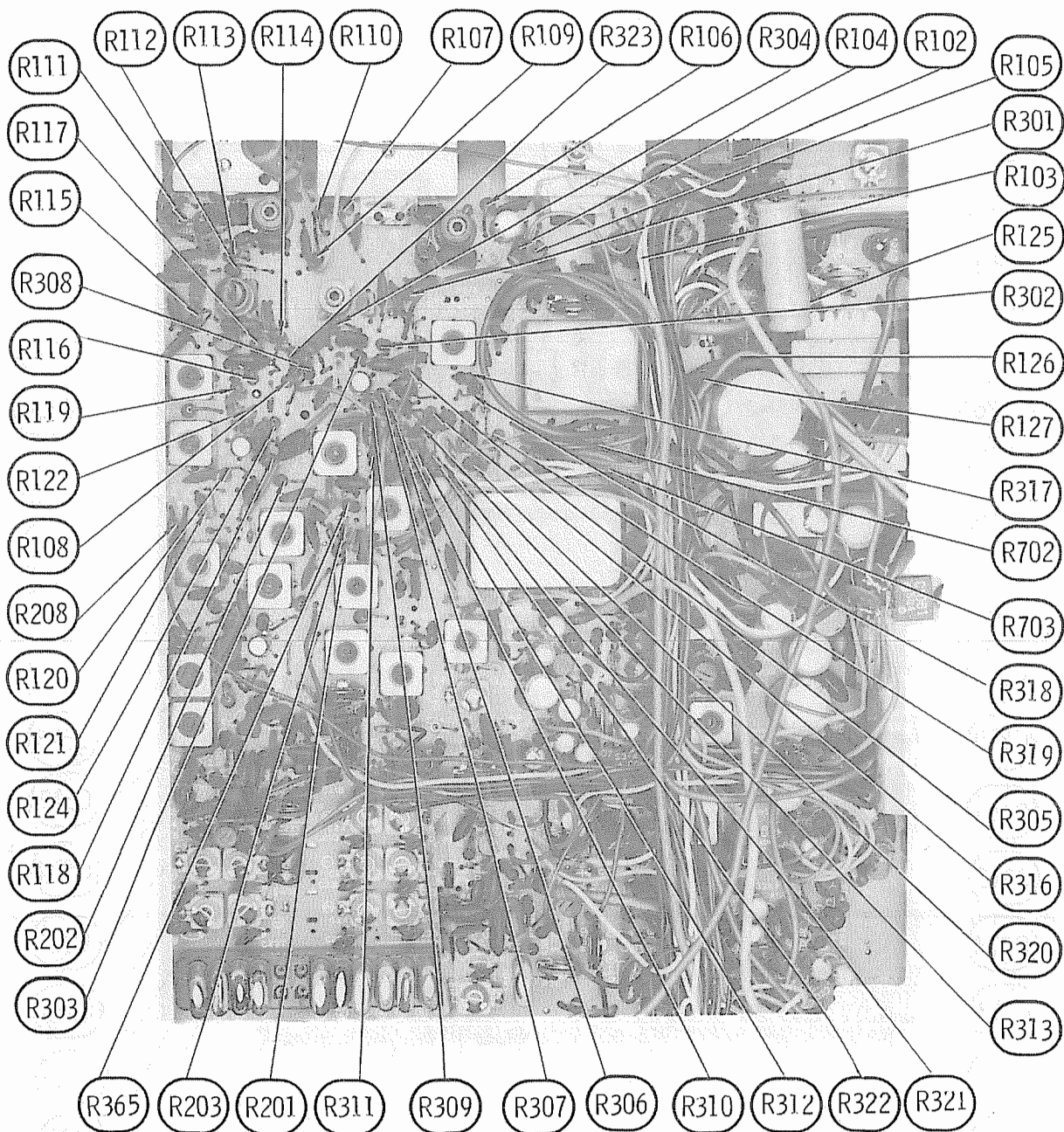
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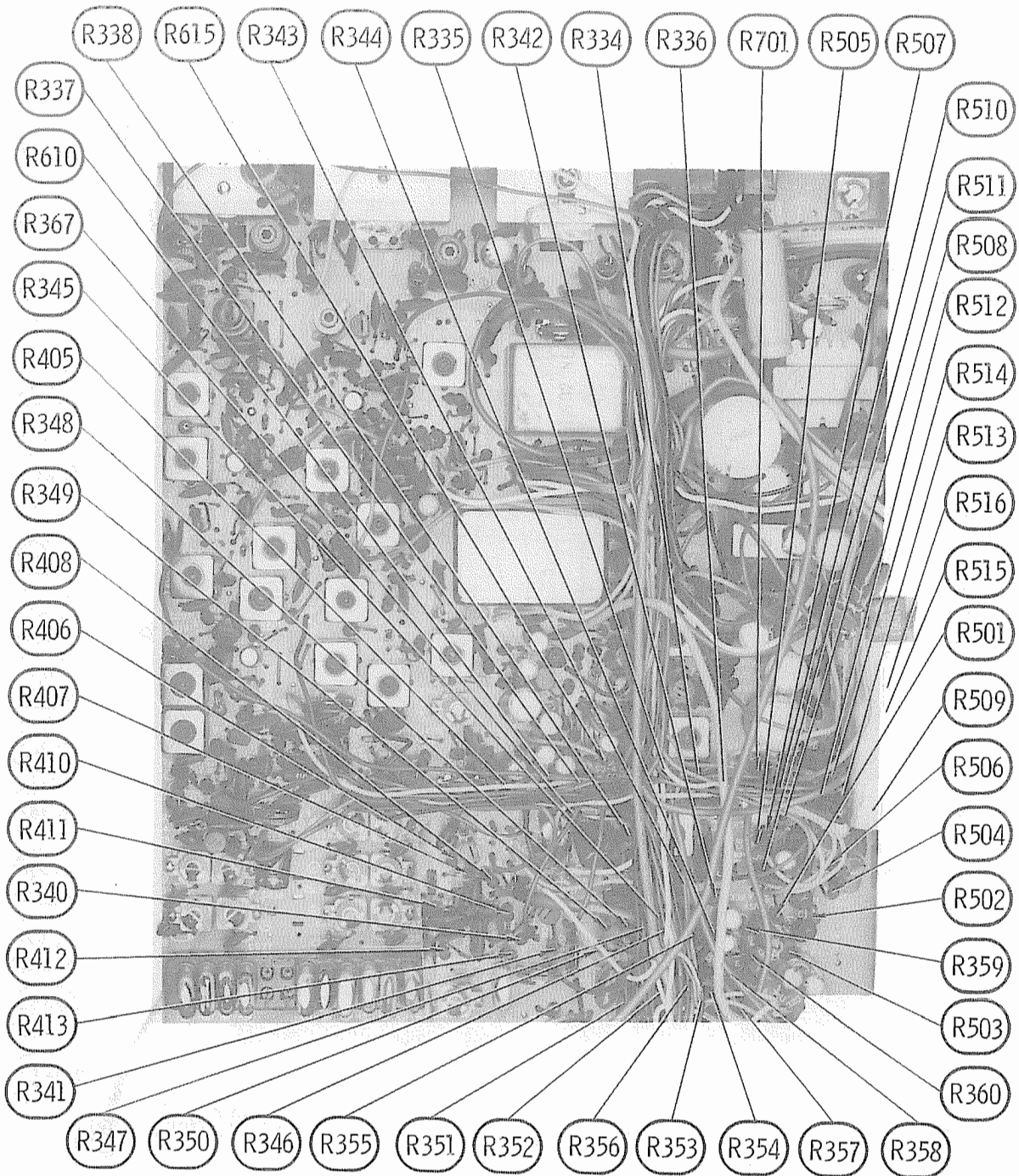
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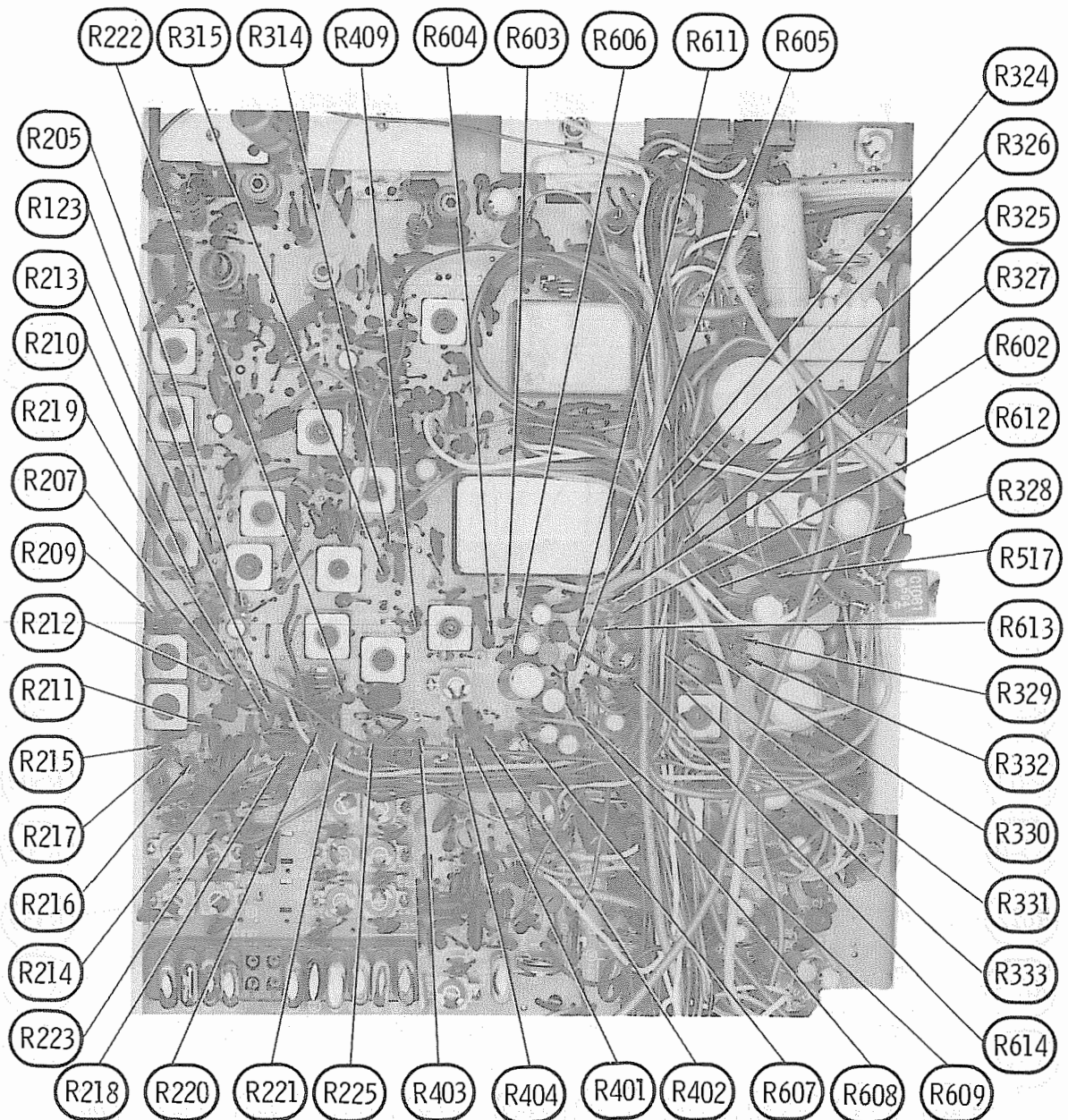
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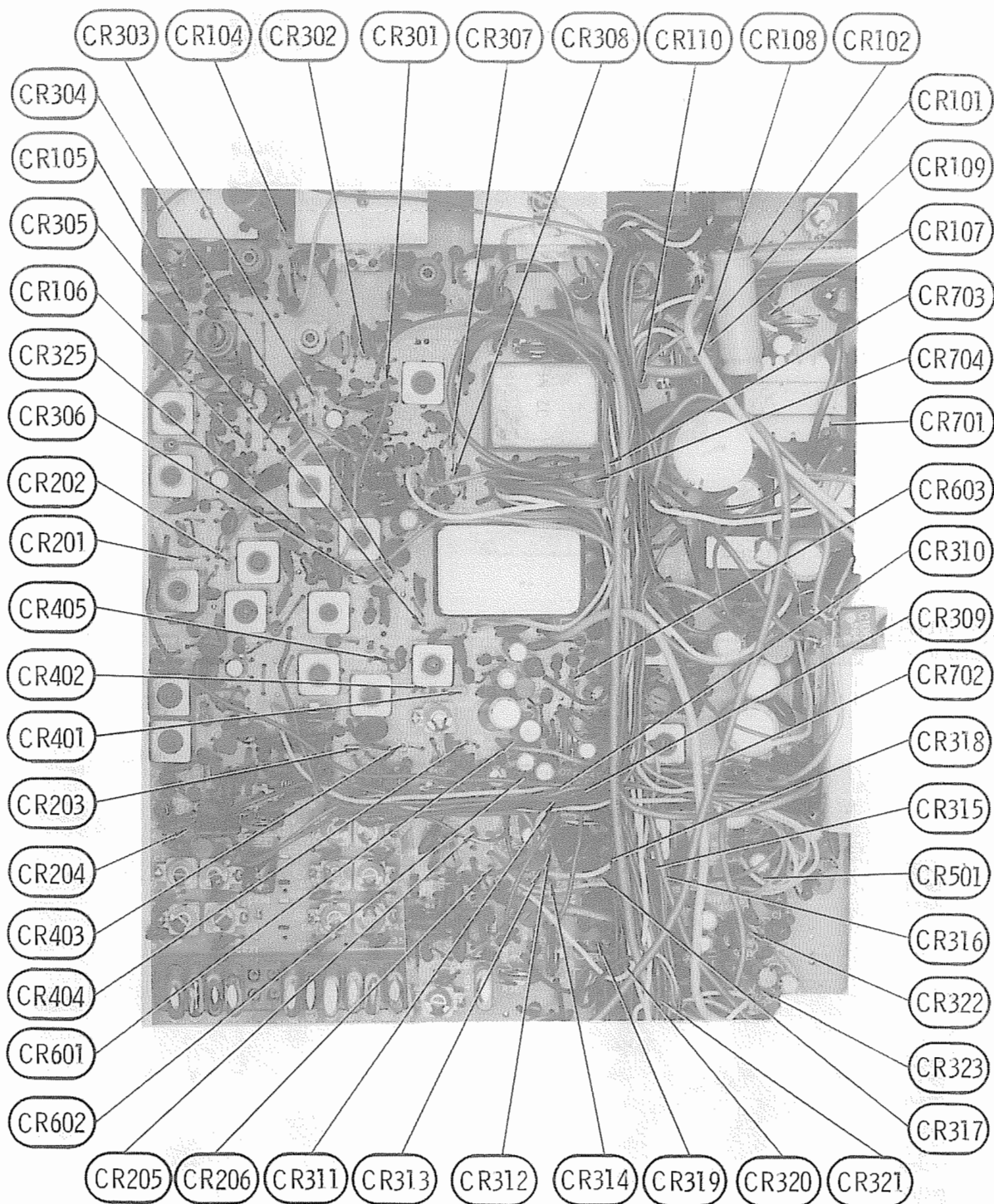
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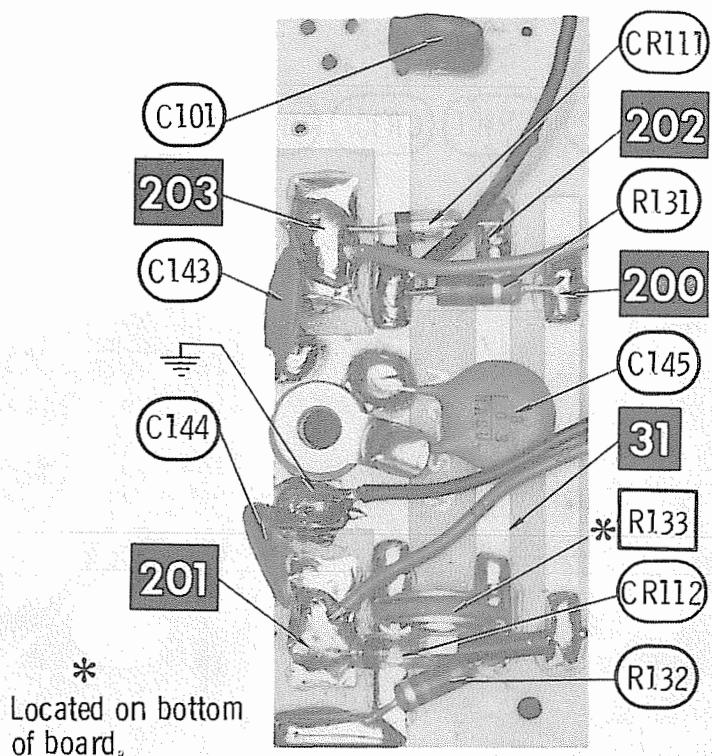
MAIN BOARD



MAIN BOARD

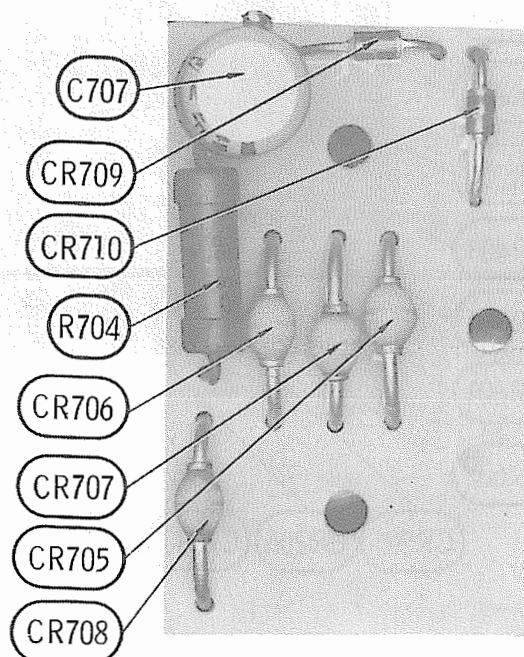
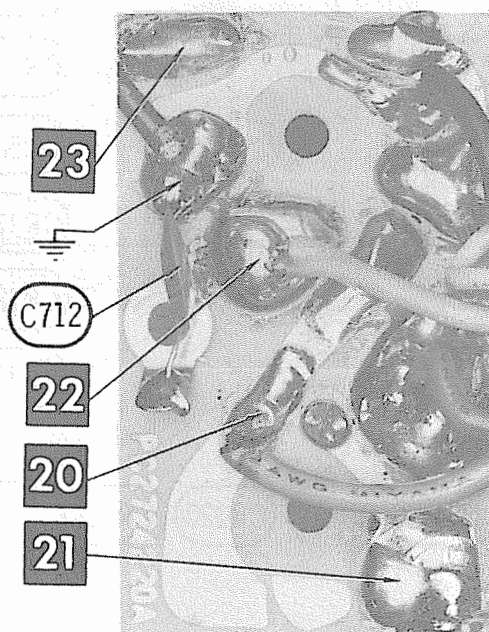


MAIN BOARD



SWR BOARD

A Howard W. Sams **CIRCUITRACE®** Photo



AC POWER SUPPLY BOARD

PARTS LIST AND DESCRIPTION

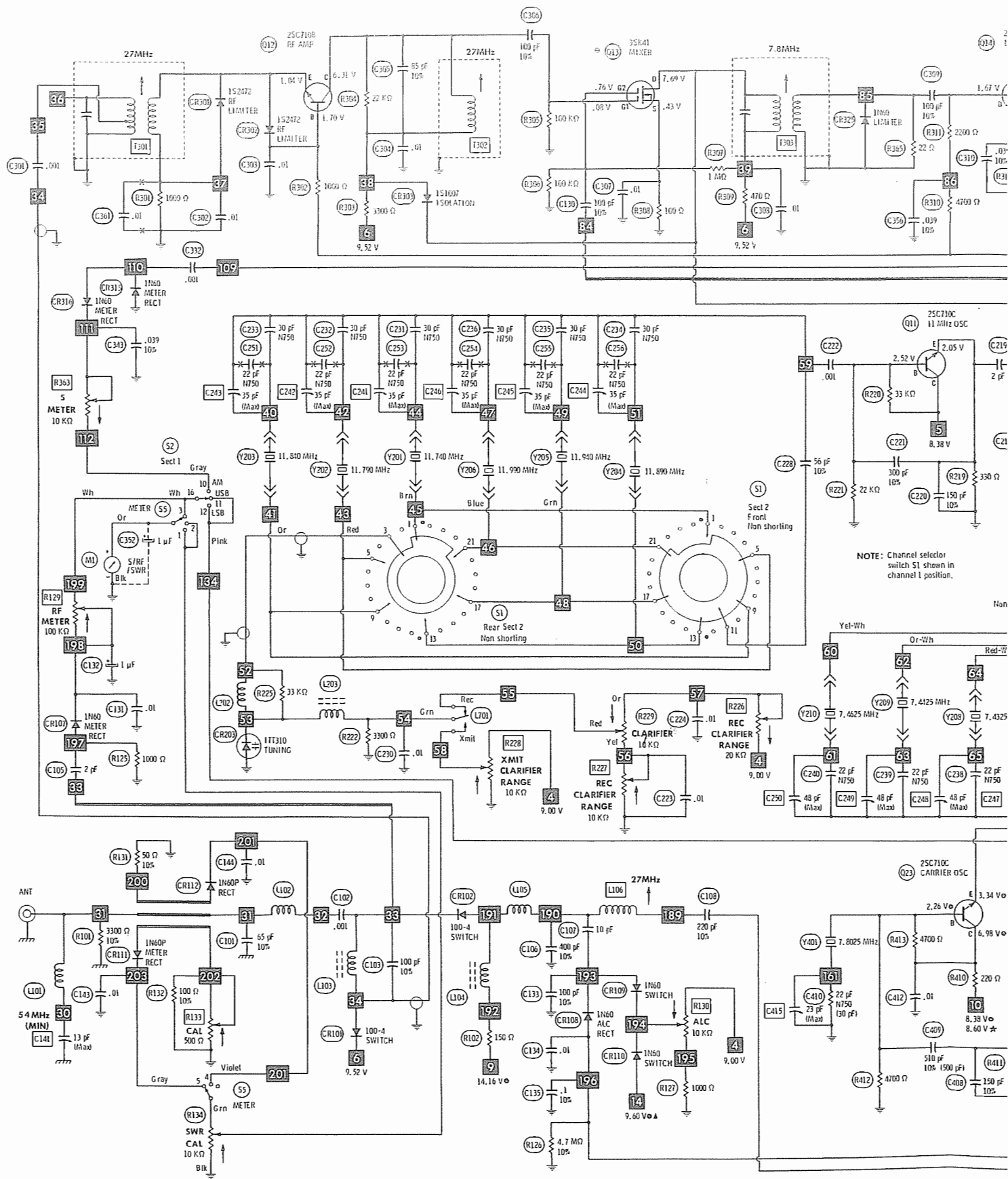
(When ordering parts, state Model, Part Number, and Description.)

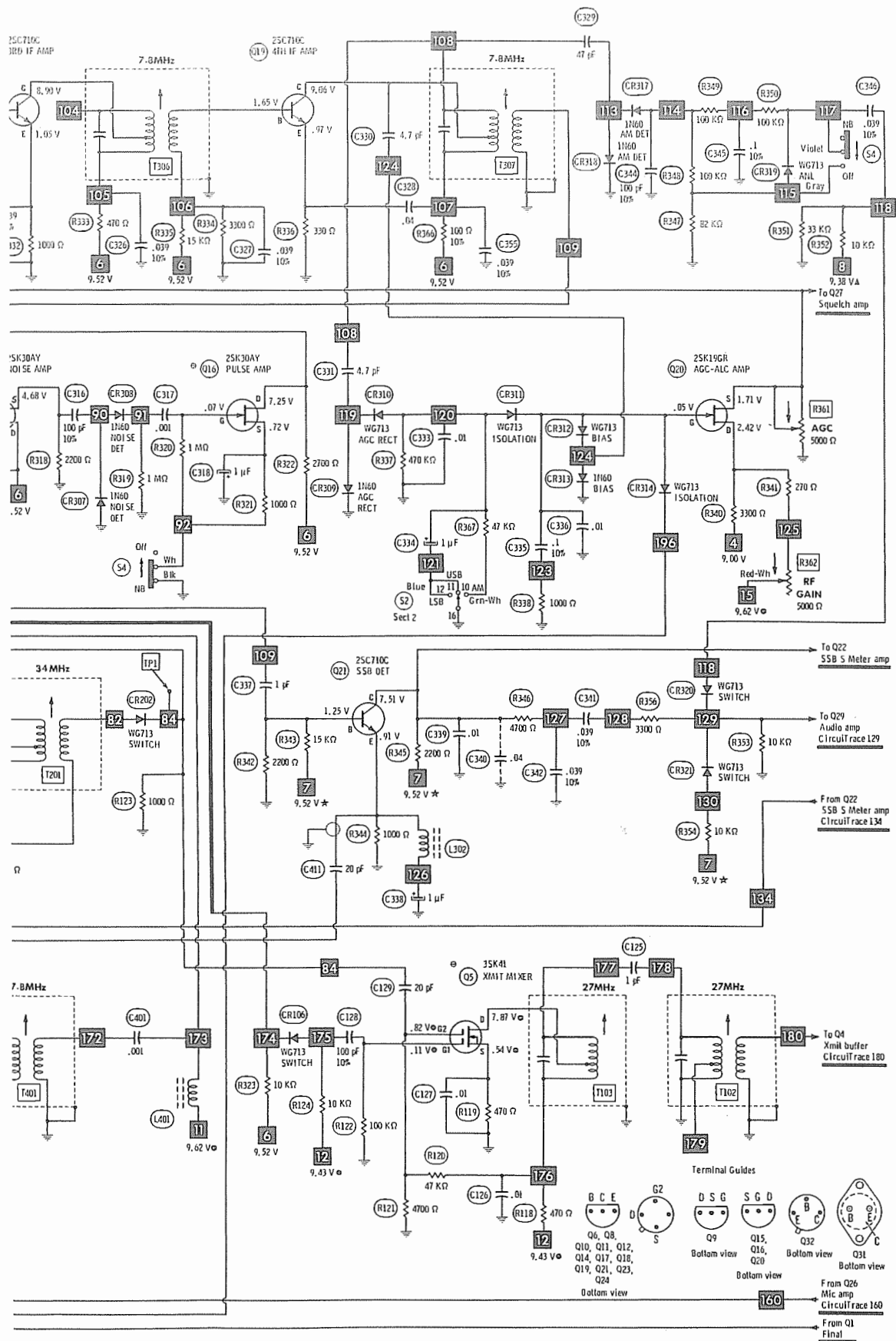
SEMICONDUCTORS (Select replacement transistor for best results)

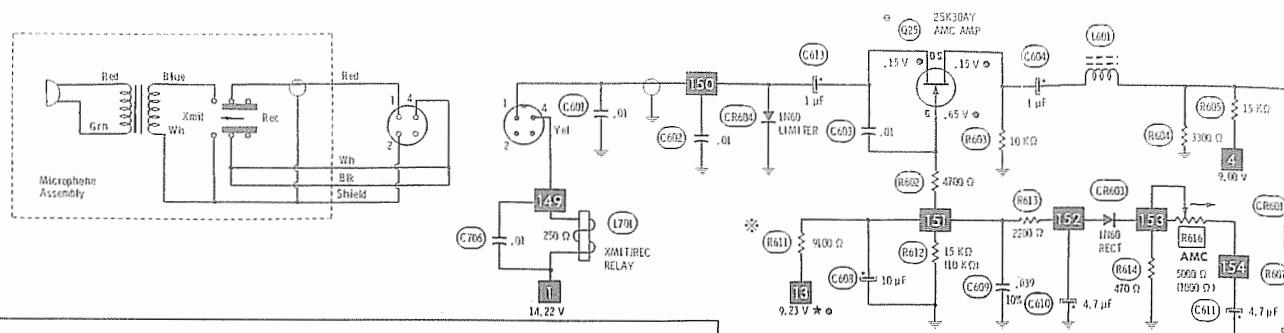
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			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	WORKMAN PART No.
CR101	10D4	IP20-0022	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	5A4D
CR102	10D4	IP20-0022	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	5A4D
CR103	159905 (.7 Volt Zener)	IP20-0018								
CR104	159905 (.7 Volt Zener)	IP20-0018								
CR105	159905 (.7 Volt Zener)	IP20-0018								
CR106	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR107	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR108	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR109	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR110	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR111	1N60P	IP20-0016	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR112	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR201	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	O200
CR202	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	O200
CR203	ITT-310 (Varactor)	IP20-0151	GE-90		HEPR2503	RE 195	SK3126	RT-262		D201
CR204	151007	IP20-0020	1N34AS	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109	1N34A
CR205	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR206	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	O200
CR301	152472	IP20-0021	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	O200
CR302	152472	IP20-0021	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	O200
CR303	151007	IP20-0020	1N34AS	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109	1N34A
CR304	1N60P	IP20-0016	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR305	1N60P	IP20-0016	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR306	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR307	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR308	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR309	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR310	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR311	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR312	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	O200
CR313	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR314	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	O200
CR315	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR316	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
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CR318	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR319	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR320	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR321	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR322	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR323	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR325	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
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CR402	1N60P	IP20-0016	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR403	1N60P	IP20-0016	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR404	1N60P	IP20-0016	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR405	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR501	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
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CR602	WG-713	IP20-0145	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177	D200
CR603	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR604	1N60	IP20-0060	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60
CR701	1N4004	IP20-0025	GE-504A	PTC201	HEPR0053	RE 49	SK3016	RT-214	ECG116	5A4D
CR702	BZ090 (9.0 Volt 5% Zener)	IP20-0019	GEZD-9.1	ZB9.1B				RT-240	ECG139	
CR703	BZ090 (9.0 Volt 5% Zener)	IP20-0019	GEZD-9.1	ZB9.1B				RT-240	ECG139	
CR704	BZ090 (9.0 Volt 5% Zener)	IP20-0019	GEZD-9.1	ZB9.1B				RT-240	ECG139	
CR705	UD5B	IP20-0164	GE-512	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156	
CR706	UD5B	IP20-0164	GE-512	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156	
CR707	UD5B	IP20-0164	GE-512	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156	
CR708	UD5B	IP20-0164	GE-512	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156	
CR709	BZ071 (7.1 Volt 5% Zener)	IP20-0027								
CR710	BZ071 (7.1 Volt 5% Zener)	IP20-0027								
IC501	TA7205P	IP20-0161							ECG1155	
Q1	25C1307	IP20-0154 (10)	GE-216	PTC186		RE 201			ECG236	
Q2	25C1306	IP20-0155 (11)	GE-215	PTC186		RE 203			ECG235	
Q3	25C1449	IP20-0156 (12)	GE-217	PTC163	HEPS5000	RE 40	SK3054	RT-194	ECG184	TR-55
Q4	25C710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(1R)25C710
Q5	35K41									
Q6	35K45B	IP20-0157 (1)								
Q7	25C710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(1R)25C710
Q8	35K45B	IP20-0157 (1)								
Q9	25C710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(1R)25C710
	25K41		GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG132	FE-100
	25K19	IP20-0012 (1)	GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG132	FE-100
Q10	25C710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(1R)25C710
Q11	25C710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(1R)25C710
Q12	25C710B	IP20-0001	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(1R)25C710
Q13	35K41									
	35K45B	IP20-0157 (1)								

(CONTINUED ON PAGE 62)

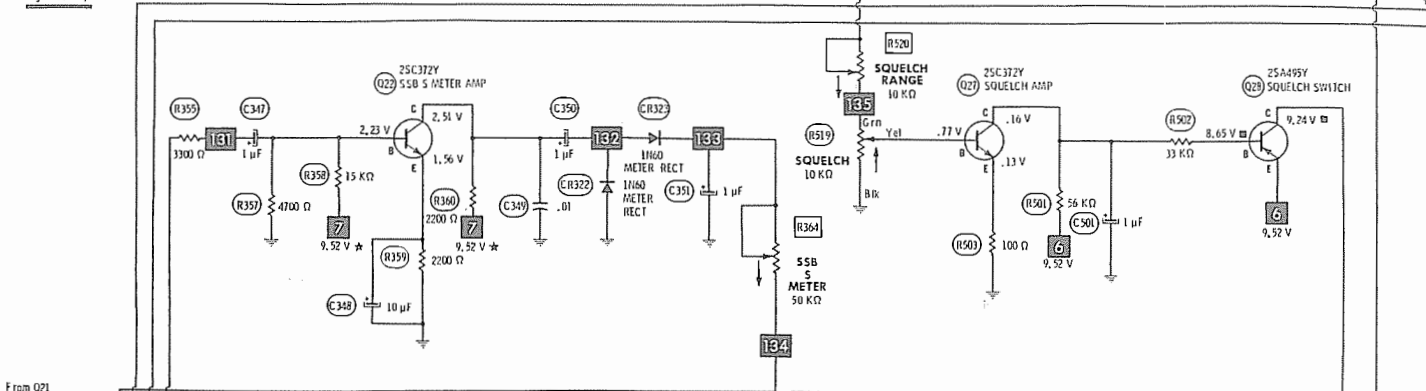
PAGE MODEL SIDETALK 1000B



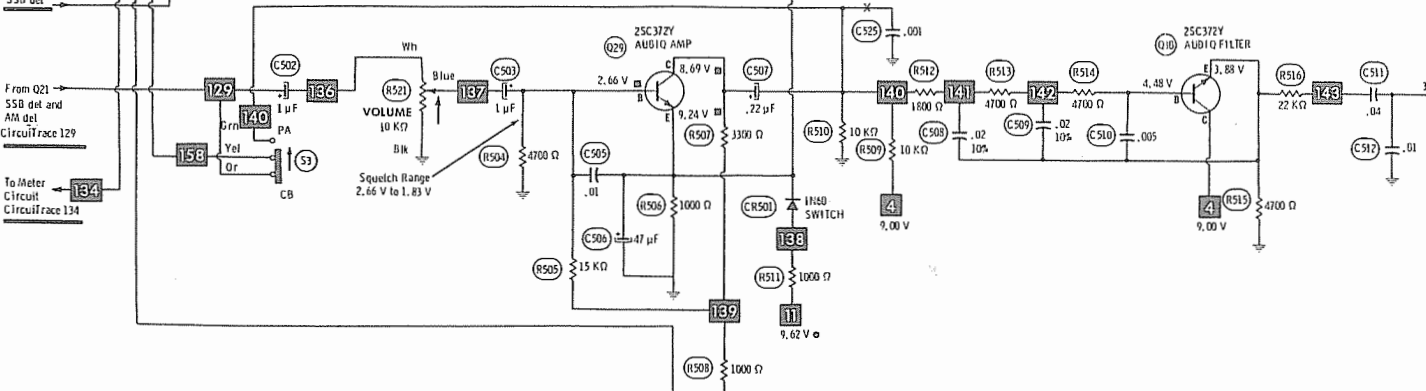




From Q20
Age-Alc Amp

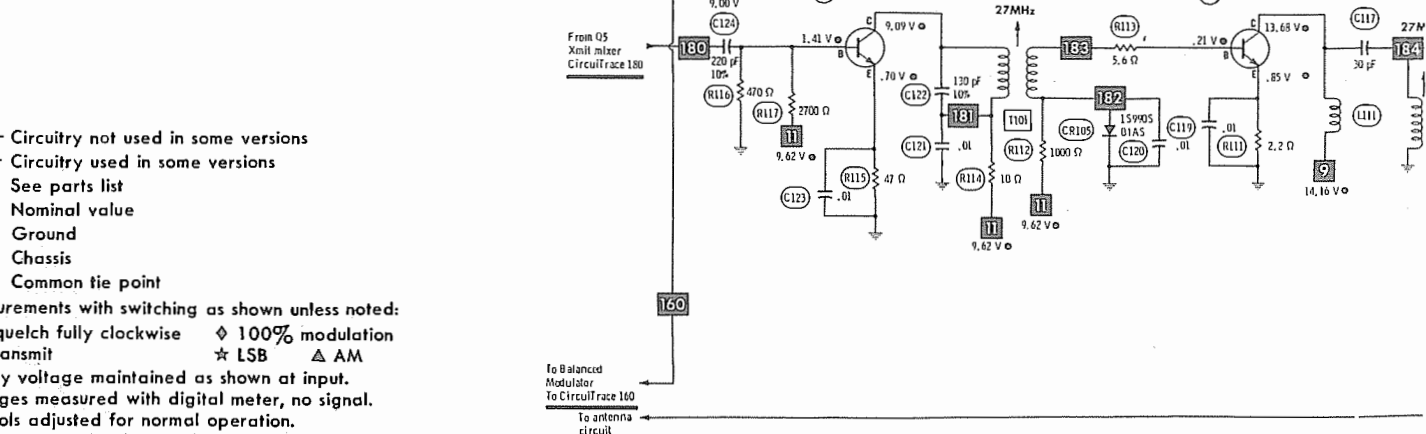


From Q21
SSB det



From Q21
SSB det and
AM det
CircuitTrace 129

To Meter
Circuit
CircuitTrace 134



From Q5
Xmit mixer
CircuitTrace 180

To Balanced
Modulator
To CircuitTrace 160

To antenna
circuit

—X— 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 PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**
 © Howard W. Sams & Co., Inc. 1976

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	WORKMAN PART No.
Q14	2SC710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(IR)2SC710
Q15	2SK30AY	IP20-0078	GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG132	FE-100
Q16	2SK30AY	IP20-0078	GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG132	FE-100
Q17	2SC710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(IR)2SC710
Q18	2SC710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(IR)2SC710
Q19	2SC710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(IR)2SC710
Q20	2SK34		GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG132	FE-100
	2SK19GR	IP20-0012(1)	GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG132	FE-100
Q21	2SC710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(IR)2SC710
Q22	2SC372Y	IP20-0006	GE-210	PTC139	HEPS0015	RE 13	SK3122	RT-105	ECG123A	(IR)2SC372
Q23	2SC710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(IR)2SC710
Q24	2SC710C	IP20-0002	GE-211	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A	(IR)2SC710
Q25	2SK30AY	IP20-0078	GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG132	FE-100
Q26	2SD187Y	IP20-0160	GE-59	PTC134	HEPG0011	RE 6	SK3010	RT-119	ECG103A	TR-08
Q27	2SC372Y	IP20-0006	GE-210	PTC139	HEPS0015	RE 13	SK3122	RT-105	ECG123A	(IR)2SC372
Q28	2SA495Y	IP20-0159	GE-21	PTC103	HEPS0019	RE 26	SK3118	RT-106	ECG159	TR-52
Q29	2SC372Y	IP20-0006	GE-210	PTC139	HEPS0015	RE 13	SK3122	RT-105	ECG123A	(IR)2SC372
Q30	2SC372Y	IP20-0006	GE-210	PTC139	HEPS0015	RE 13	SK3122	RT-105	ECG123A	(IR)2SC372
Q31	2SD180	IP20-0028	GE-75	PTC140	HEPS7002	RE 29	SK3027	RT-131	ECG223	TR-59
Q32	2SC509	IP20-0165	GE-81	PTC136	HEPS0014	RE 17	SK3024	RT-172	ECG128	TR-21
Q33	2SC1061C	(13)	GE-66	PTC110	HEPS5027	RE 21	SK3054	RT-197	ECG152	TR-76

(1) Used in some versions.

(10) Rating, 25 watt @ 8.0 amp.

(11) Rating, 12 watt @ 3.0 amp.

(12) Rating, 5.0 watt @ 3.0 amp.

(13) Rating, 25 watt @ 3.0 amp.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C132	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C142	22 16V	IP22-0042	PC25-25	VTT22A16	EV-1224
C147	100 16V	IP22-0008	PC100-16	VTT100F16	EV-1230
C318	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C334	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C338	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C347	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C348	10 16V	IP22-0004	PC10-25	VTT10A25	EV-1222
C350	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C351	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C352	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C357	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C501	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C502	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C503	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C506	47 16V	IP22-0006	PC50-16	VTT47D16	EV-1226
C507	.22 50V	IP22-0044		TDC224M050EL	SD50-R229
C513	47 16V	IP22-0006	PC50-16	VTT47D16	EV-1226
C514	220 16V	IP22-0009	PC250-25	VTT220G16	EV-1240
C517	47 16V	IP22-0006	PC50-16	VTT47D16	EV-1226
C519	470 16V	IP22-0010	PC500-16	VTT470J16	EV-1250
C521	220 16V	IP22-0009	PC250-25	VTT220G16	EV-1240
C522	220 16V	IP22-0009	PC250-25	VTT220G16	EV-1240
C523	220 16V NP				
C604	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C605	47 16V	IP22-0006	PC50-16	VTT47D16	EV-1226
C606	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C607	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C608	10 16V	IP22-0004	PC10-25	VTT10A25	EV-1222
C610	4.7 16V	IP22-0003	PC5-50	VTT4R7A50	EV-1319
C611	4.7 16V	IP22-0003	PC5-50	VTT4R7A50	EV-1319
C612	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C613	1 50V	IP22-0001	PC1-50	MTV1CB50	EV-1615
C702	2200 16V	IP22-0043	WBR2000-16	TC1520C	TVA-1175.3
C703	220 16V	IP22-0009	PC250-25	VTT220G16	EV-1240
C704	220 16V	IP22-0009	PC250-25	VTT220G16	EV-1240
C705	220 16V	IP22-0009	PC250-25	VTT220G16	EV-1240
C707	100 16V	IP-0008	PC100-16	VTT100F16	EV-1230
C708	3300 35V	IP22-0039			
C713	220 16V	IP22-0009	PC250-25	VTT220G16	EV-1240

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C001	.01	IP22-0021	DC-103	GP10000	MAG5011	2SS-S10
C002	.01			OPMS6056	PVC6256	6PS-D56
C003	.047		DC-503	MGP05	MAG5015	TGL-S50
C004	.01		DC-103	GP10000	MAG5011	2SS-S10
C005	.01		OC-103	GP10000	MAG5011	2SS-S10
C006	.01		DC-103	GP10000	MAG5011	2SS-S10
C007	.01		OC-103	GP10000	MAG5011	2SS-S10
C008	.01		OC-103	GP10000	MAG5011	2SS-S10
C101	65 10%			C06ED680J03	SX468	424MC68RJ501
C102	.001		DD-102	GP1000	GP210	2SS-O10
C103	100 10%			C010F0101J03	SX310	424MC1000J501
C104	.01		OC-103	GP10000	MAG5011	2SS-S10
C105	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C106	400 10%			C015F0391J03	SX339	424ME3900J501
C107	10			C06CD1000J03		
C108	220 10%			C010F0221J03	SX322	424ME2200J501
C109	100			C010F0101J03	SX310	424MC1000J501
C110	.01		OC-103	GP10000	MAG5011	2SS-S10
C111	.01		OC-103	GP10000	MAG5011	2SS-S10
C112	150 10%			C07FD151J03	SX315	424MC1500J501
C113	85 10%			C010ED820J03	SX482	424MC82RJ501
C114	.01		DC-103	GP10000	MAG5011	2SS-S10
C115	.01		OC-103	GP10000	MAG5011	2SS-S10
C116	100 10%			C010F0101J03	SX310	424MC1000J501
C117	30			C06ED300J03	SX430	
C118	.01		DC-103	GP10000	MAG5011	2SS-S10
C119	.01		OC-103	GP10000	MAG5011	2SS-S10
C120	.01		OC-103	GP10000	MAG5011	2SS-S10
C121	.01		DC-103	GP10000	MAG5011	2SS-S10
C122	130 10%			C07FD131J03	SX313	424MC1300J501
C123	.01		DC-103	GP10000	MAG5011	2SS-S10
C124	220 10%			C010F0221J03	SX322	424ME2200J501
C125	1				CN0510	10TCC-V10
C126	.01		OC-103	GP10000	MAG5011	2SS-S10
C127	.01		DC-103	GP10000	MAG5011	2SS-S10
C128	100 10%			C010F0101J03	SX310	424MC1000J501
C129	20			C06CD200J03	SX420	
C130	100 10%			C010F0101J03	SX310	424MC1000J501
C131	.01		DC-103	GP10000	MAG5011	2SS-S10
C133	100 10%			C010F0101J03	SX310	424MC1000J501
C134	.01		DC-103	GP10000	MAG5011	2SS-S10
C135	.1 10%			OPMS2P1	EWFLA010	1PB-P10
C136	.01		DC-103	GP10000	MAG5011	2SS-S10
C137	.039			OPMS6S39	PVC6139	6PS-S39
C138	.01		DC-103	GP10000	MAG5011	2SS-S10
C139	.01		DC-103	GP10000	MAG5011	2SS-S10
C140	.01		DC-103	GP10000	MAG5011	2SS-S10
C141	30 MAX					
C143	.01		DC-103	GP10000	MAG5011	2SS-S10
C144	.01		DC-103	GP10000	MAG5011	2SS-S10
C145	.01		OC-103	GP10000	MAG5011	2SS-S10
C148	.01		OC-103	GP10000	MAG5011	2SS-S10
C201	.01		DC-103	GP10000	MAG5011	2SS-S10
C202	.01		OC-103	GP10000	MAG5011	2SS-S10
C203	100 10%			C010F0101J03	SX310	424MC1000J501
C204	1 10%				CN0510	10TCC-V10
C205	.01		DC-103	GP10000	MAG5011	2SS-S10
C207	.01		DC-103	GP10000	MAG5011	2SS-S10
C208	.01		DC-103	GP10000	MAG5011	2SS-S10
C210	220 10%			C010F0221J03	SX322	424ME2200J501
C211	2 10%		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C212	.01		OC-103	GP10000	MAG5011	2SS-S10
C213	.01		DC-103	GP10000	MAG5011	2SS-S10
C214	.01		OC-103	GP10000	MAG5011	2SS-S10
C215	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C216	150 10%			C07FD151J03	SX315	424MC1500J501
C217	300 10%			C015F0301J03	SX330	424ME3000J501
C318	.01		DC-103	GP10000	MAG5011	2SS-S10
C219	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C220	150 10%			C07FD151J03	SX315	424MC1500J501
C221	300 10%			C015F0301J03	SX330	424ME3000J501
C222	.01		OC-103	GP10000	MAG5011	2SS-S10
C223	.01		OC-103	GP10000	MAG5011	2SS-S10
C224	.01		DC-103	GP10000	MAG5011	2SS-S10
C225	20			C06C0200J03	SX420	
C226	.01		DC-103	GP10000	MAG5011	2SS-S10
C227	.039 10%			OPMS6S39	PVC6139	6PS-S39
C228	56 10%			C06ED560J03	SX456	424MC56RJ501
C229	.01		OC-103	GP10000	MAG5011	2SS-S10
C230	.01		DC-103	GP10000	MAG5011	2SS-S10
C231	30 N750		DTN-33	N33	CN7433	10TCU-Q33
C232	30 N750		DTN-33	N33	CN7433	10TCU-Q33

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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.
C233	30 N750		OTN-33	N33	CN7433	10TCU-Q33
C234	30 N750		OTN-33	N33	CN7433	10TCU-Q33
C235	30 N750		OTN-33	N33	CN7433	10TCU-Q33
C236	30 N750		OTN-33	N33	CN7433	10TCU-Q33
C237	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C238	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C239	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C240	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C241	35 MAX					
C242	35 MAX					
C243	35 MAX					
C244	35 MAX					
C245	35 MAX					
C246	35 MAX					
C247	48 MAX					
C248	48 MAX					
C249	48 MAX					
C250	48 MAX					
C251	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C252	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C253	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C254	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C255	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C256	22 N750		OTN-22	N22	CN7422	10TCU-Q22
C301	.001		00-821	GP820	GP382	10TS-T82
C302	.01		0C-103	GP10000	MAG5011	2SS-S10
C303	.01		0C-103	GP10000	MAG5011	2SS-S10
C304	.01		DC-103	GP10000	MAG5011	2SS-S10
C305	85 10%			C010ED820J03	SX482	424MC820J501
C306	100 10%			C010F0101J03	SX310	424MC1000J501
C307	.01		DC-103	GP10000	MAG5011	2SS-S10
C308	.01		0C-103	GP10000	MAG5011	2SS-S10
C309	100 10%			C010F0101J03	SX310	424MC1000J501
C310	.039 10%			DPMS6S39	PVC6139	6PS-S39
C311	.039 10%			DPMS6S39	PVC6139	6PS-S39
C312	.001		DD-821	GP820	GP382	10TS-T82
C313	.01		DC-103	GP10000	MAG5011	2SS-S10
C314	.01		DC-103	GP10000	MAG5011	2SS-S10
C315	20			CD6C0200J03	SX420	
C316	100 10%			CD10F0101J03	SX310	424MC1000J501
C317	.001		DD-821	GP820	GP382	10TS-T82
C319	.001		DD-821	GP820	GP382	10TS-T82
C321	.039 10%			DPMS6S39	PVC6139	6PS-S39
C322	20			CD6C0200J03	SX420	
C323	.039 10%			OPMS6S39	PVC6139	6PS-S39
C324	.039 10%			OPMS6S39	PVC6139	6PS-S39
C325	.039 10%			DPMS6S39	PVC6139	6PS-S39
C326	.059 10%			DPMS6S39	PVC6139	6PS-S39
C327	.039 10%			DPMS6S39	PVC6139	6PS-S39
C328	.04			OPMS2S47	EWFA1A147	1PB-S47
C329	47			CD6ED470J03	SX447	424MC470J501
C330	4.7			CD6CD050D03		
C331	4.7			CD6CD050D03		
C332	.001		DD-821	GP820	GP382	10TS-T82
C333	.01		0C-103	GP10000	MAG5011	2SS-S10
C335	.1 10%			OPMS2P1	EWFA0A010	1PB-P10
C336	.01		DC-103	GP10000	MAG5011	2SS-S10
C337	1				CN0510	10TCC-V10
C339	.01		DC-103	GP10000	MAG5011	2SS-S10
C340	.04				GP140	5GA-S40
C341	.30 10%			OPMS6S39	PVC6139	6PS-S39
C342	.039 10%			OPMS6S39	PVC6139	6PS-S39
C343	.039 10%			DPMS6S39	PVC6139	6PS-S39
C344	100 10%			CD10F0101J03	SX310	424MC1000J501
C345	.1 10%			OPMS2P1	EWFA0A010	1PB-P10
C346	.039 10%			OPMS6S39	PVC6139	6PS-S39
C349	.01		DC-103	GP10000	MAG5011	2SS-S10
C353	.039 10%			DPMS6S39	PVC6139	6PS-S39
C354	.039 10%			DPMS6S39	PVC6139	6PS-S39
C355	.039 10%			OPMS6S39	PVC6139	6PS-S39
C356	.039 10%			OPMS6S39	PVC6139	6PS-S39
C358	.01		DC-103	GP10000	MAG5011	2SS-S10
C359	.01		0C-103	GP10000	MAG5011	2SS-S10
C360	.039 10%			OPMS6S39	PVC6139	6PS-S39
C361	.01		DC-103	GP10000	MAG5011	2SS-S10
C401	.001		00-821	GP820	GP382	10TS-T82
C402	.01		DC-103	GP10000	MAG5011	2SS-S10
C403	.01		DC-103	GP10000	MAG5011	2SS-S10
C404	100 10%			CD10F0101J03	SX310	424MC1000J501
C405	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C406	100			CD10F0101J03	SX310	424MC1000J501

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

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ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C407	15	IP22-0045 IP22-0020	DTN-22 OTZ-20 DC-103	CD6CD150J03		
C408	150 10%			C07FD151J03	SX315	424MC1500J501
C409	510 10%			CD15FD511J03	SX351	424ME5100J501
C410	22 N750			H22	CH7422	10TCU-Q22
C411	20			HP020	CN0420	10TCC-Q20
C412	.01			GP10000	MAG5011	2SS-S10
C414	10 MAX					
C415	23 MAX					
C416	5 HPD					10TCC-V50
C505	.01		DC-103	GP10000	MAG5011	2SS-S10
C508	.02 10%			OPMS2S2	PVC212	2PS-S20
C509	.02 10%			DPMS2S2	PVC212	2PS-S20
C510	.005			OPMS605	EWFA1A250	6PS-050
C511	.04			DPMS6S39	PVC6139	6PS-S39
C512	.01			DPMS4S1	EWFA1A110	1PB-S10
C515	220 10%			CD10FD221J03	SX322	424ME2200J501
C516	.047			DPMS2S47	EWFA1A147	1PB-S47
C518	47			CD6EO470J03	SX447	424MC470J501
C520	.047			OPMS2S47	EWFA1A147	1PB-S47
C524	.039 10%		DD-821 OC-103 DC-103 DC-103 OC-103	DPMS6S39	PVC6139	6PS-S39
C525	.001			GP820	GP382	10TS-T82
C526	.01			GP10000	MAG5011	2SS-S10
C601	.01			GP10000	MAG5011	2SS-S10
C602	.01			GP10000	MAG5011	2SS-S10
C603	.01			GP10000	MAG5011	2SS-S10
C609	.039 10%			DPMS6S39	PVC6139	6PS-S39
C614	.01			GP10000	MAG5011	2SS-S10
C615	.01			GP10000	MAG5011	2SS-S10
C701	.001			GP10000	MAG5011	2SS-S10
C706	.01		DC-103 DD-222 DD-222 OC-103	GP10000	MAG5011	2SS-S10
C709	.0022				GP222	2SS-022
C710	.0022				GP222	2SS-022
C711	.039 10%			OPMS6S39	PVC6139	6PS-S39
C712	.01			GP10000	MAG5011	2SS-S10

[illegible]

ITEM No.	FUNCTION	RESIST- ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R129	RF Meter	100K	IP24-0002	T-100K (2)	C-104 (2)	MTC15L1 (2)	X201R104B (2)
R130	ALC	10K	IP24-0003	T-10K	C-103	MTC14L1	X201R103B
R133	Cal	500	IP24-0012	T-500 (2)	C-501 (2)	MTC52L1 (2)	X201R501B (2)
R134	SWR CAL	10K	IP24-0043				
R226	Reg Clarifier Range	20K		T-20K	C-253	MTC24L1	X201R253B
R227	Rec Clarifier Range	10K	IP24-0005	T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
R228	Xmit Clarifier Range	10K		T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
	Xmit Clarifier Range	100K	IP24-0013(6)				
R229	Clarifier	10K	IP24-0042				
R361	AGC	5000	IP24-0035	T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
R362	RF Gain	5000	IP14-0036				
R363	S Meter	20K		T-20K	C-253	MTC24L1	X201R253B
R364	SSB S Meter	50K	IP24-0015	T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
R414	Carrier Balance	500	IP24-0023	T-500	C-501	MTC52L1	X201R501B
R519	Squelch	10K	IP24-0043				
R520	Squelch Range	10K	IP24-0005	T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
R521	Volume	10K	IP24-0001				
R616	AMC	5000		T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
	AMC	1000	IP24-0007(6)				

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

(6) Alternate part, may be used in some versions.

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	TVI Trap (54MHz)	IP21-0071			
L102	Pi Filter (.22uH)	IP21-0098			
L103	RF Choke (150uH)	IP21-0074			
L104	RF Choke (150uH)	IP21-0074			
L105	Pi Filter	IP21-0206	C997N		
L106	Pi Filter (27MHz)	IP21-0095	C043N		
L107	RF Choke (.22uH)	IP21-0098			
L108	Xmit Dirver (27MHz)	IP21-0205	C996N		
L109	RF Choke	IP21-0071			
L110	Xmit Amp (27MHz)	IP21-0181	C979N		
L111	RF Choke	IP21-0071			
L112	RF Choke (1.2uH)	IP21-0179			
	RF Choke (5.5uH)	IP21-0101			
L202	RF Choke (8.2uH)	IP21-0180			
L203	RF Choke (470uH)	IP21-0195			
L204	Pi Filter (470uH)	IP21-0195			
L301	RF Choke (470uH)	IP21-0195			
L302	RF Choke (150uH)	IP21-0074			
L401	RF Choke (150uH)	IP21-0074			
L402	RF Choke (22uH)	IP21-0072			
L601	RF Choke				
T101	Xmit Butter (27MHz)	IP21-0093	C0420		
T102	Xmit Mixer (27MHz)	IP21-0083	C182Z		
T103	Xmit Mixer (27MHz)	IP21-0034	C181Z		
T201	USB Synth (34MHz)	IP21-0207	Z287A		
T202	USB Synth (34MHz)	IP21-0208	Z286K		
T203	USB Synth Mixer (34MHz)	IP21-0209	Z285I		
T204	AM-LSB Synth Amp (19MHz)	IP21-0210	Z284A		
T205	Harmonic Suppressor (19MHz)	IP21-0087	Z188A		
T206	Synth Mixer (19MHz)	IP21-0211	Z282I		
T301	Rec Ant (27MHz)	IP21-0091	C200Z		
T302	Rec RF (27MHz)	IP21-0212	C993N		
T303	Rec Mixer (7.8MHz)	IP21-0085	S-183A		
T304	Rec Mixer (7.8MHz)	IP21-0085			
T305	Rec IF (7.8MHz)	IP21-0085			
T306	Rec IF (7.8MHz)	IP21-0085			
T307	Rec IF (7.8MHz)	IP21-0089	S-190A		
T401	Balance Mod (7.8MHz)	IP21-0092	S-111D		
T402	Carrier Osc (15MHz)	IP21-0078	Z176I		
T403	Harmonic Suppressor	IP21-0078	Z176I		

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.	
T701	2.5A	.2	2.5mH	IP21-0112 K-18 (1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T501	8	8	IP21-0186 L-57 (1)			(1) Number on unit.
T502	8	8	IP21-0186 L-57 (1)			

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.	
T702	120V AC 600mA AC	30V AC 2.5A AC	IP21-0214 M-61 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	2 3/4 PM 8 Ohms	IP29-0017	27A05Z8	

PAGE MODEL SIDETALK 1000B

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
F701	1 Amp Fast Acting			GJV1		318001		
F702	4 Amp Fast Acting			MTH4	HKP	312004	342012AL	

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
Y201	11.740	IP-31-0058	AYA150M11.740	1,2,3,4	Y207	7.4225	IP-31-0064	AYB130M7.4225	1,5,9,13,17,21
Y202	11.790	IP-31-0059	AYA150M11.790	5,6,7,8	Y208	7.4325	IP-31-0065	AYB130M7.4325	2,6,10,14,18,22
Y203	11.840	IP-31-0060	AYA150M11.840	9,10,11,12	Y209	7.4425	IP-31-0066	AYB130M7.4425	3,7,11,15,19
Y204	11.890	IP-31-0061	AYA150M11.890	13,14,15,16	Y210	7.4625	IP-31-0067	AYB130M7.4625	4,8,12,16,20,23
Y205	11.940	IP-31-0062	AYA150M11.940	17,18,19,20	Y401	7.8025	IP-31-0068	AYC32M7.8025	CARRIER OSC.
Y206	11.990	IP-31-0063	AYA150M11.990	21,22,23					

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FL301	Filter	IP31-0047	(7.8MHz)
K1	Relay	IP32-0005	Xmit-Rec (12V DC)
M1	Meter	IP27-0009	S-RF-SWR
M2	Clock	IP30-0134	
S1	Switch	IP25-0037	Channel Selector
S2	Switch	IP25-0038	Mode
S3	Switch	IP25-0034	PA-CB
S4	Switch	IP25-0036	NB (On-Off)
S5	Switch	IP25-0039	Meter
S701	Switch		Power On-Off

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

ITEM	PART No.	ITEM	PART No.
Case	IP30-0139	Channel Dial	IP30-0136
Bezel	IP30-0139	Knob (7 used)	
Mobile Mounting Bracket	IP30-0138		

ACCESSORIES

ITEM	MFR. PART No.	REMARKS
Microphone w/Cord & Plug	IP29-0016	

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
	17109 (Plastic) or 17129 (Rubber) -9 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
	8491 4-Conductor (2 shielded, 2 unshielded) Neoprene