



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 SB-505D

MANUFACTURER'S SPECIFICATIONS

TRANSMITTER

Power Output	4 watts (AM), 12 watts PEP (SSB)
Frequency Response	300 to 3000 Hz.
Output Impedance	50 ohms, unbalanced.
Output Indicator	Meter indicates relative RF output power.

RECEIVER

Sensitivity	Less than 0.5 μ V for 10 dB (S+N)/N.
Selectivity	AM 65 dB (10 KHz), SSB 65 dB (10 KHz).
Image Rejection	75 dB.
IF Frequencies	7.8 MHz.
Adjacent Channel Rejection	65 dB.
RF Gain Control	Adjustable for optimum signal.
Automatic Gain Control. (AGC)	Less than 10 dB change in audio output for inputs from 10 to 50,000 microvolts.
Squelch	Adjustable, threshold less than 1 μ V.
Clarifier Range	$\pm$ 1250 Hz.
Audio Output Power	3.5 watts into 8 ohms.
Frequency Response	300 to 2100 Hz.
Distortion	Less than 10% @3.5 watts output.
Built-in Speaker	8 ohms, round.
External Speaker (Not Supplied)	8 ohms; disables internal speaker when connected.

PA SYSTEM

Power Output	3.5 watts into external speaker.
External Speaker for PA (Not Supplied)	8 ohms; when PA-CB switch is in PA, the PA speaker also monitors the receiver, separate jack provided.

Courtesy of the Manufacturer

ROBYN MODEL SB-505D

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:
 L1 thru L10, L13, L14, L17 thru L20, L26 thru L29 .. 9440
 L36, L39 8728,9304,9089
 CT1, CT2, CT3 5000,8276,9089



FIGURE 1

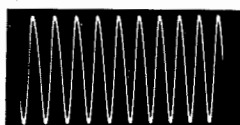


FIGURE 2



FIGURE 3

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of frequency counter to TP12 (IC2 Pin 8).	Ch. 19 AM		Check for 10.240MHz.
Input of oscilloscope to TP10.	Ch. 19, AM Clarifier Midrange	L18	Adjust for maximum RF. (2.3V p-p typical) (See Figure 1.)
Input of DC meter to TP9.	Ch. 40 AM	L13	Adjust for 3.50 volts. Check for approximately 2.50 volts on Channel 1.
Input of oscilloscope to TP1.	Ch. 19 USB	L14	Adjust for maximum RF. (300mV p-p typical) (See Figure 2.)
Input of frequency counter to TP1.	Ch. 19 USB Clarifier Midrange	CT3	Adjust for 34.9875MHz $\pm$ 20Hz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP1.	Ch. 19 LSB Clarifier Midrange	L19	Adjust for 34.9825MHz $\pm$ 20Hz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP1.	Ch. 19 AM Clarifier Midrange	L20	Adjust for 34.9850MHz $\pm$ 20Hz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP10.	Ch. 1 USB		Check for 1.430MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP3.	Ch. 19 USB	CT1	Adjust for 7.8025MHz +5Hz or -0Hz.
Input of frequency counter to TP3.	Ch. 19 LSB	CT2	Adjust for 7.7975MHz +0Hz or -5Hz.
Input of frequency counter to TP3. Disconnect TP7 and TP8.	Ch. 19, XMT AM	L17	Adjust for 7.8000MHz +5Hz. Reconnect TP7 and TP8.
Input of frequency counter to antenna input.	Ch. 1, XMT AM	VR3	Adjust for 26.965MHz. Check all channels. (See Page 4 for channel frequencies.)

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Set generator output low enough to prevent AGC limiting.
Mode AM, RF Gain Maximum, Squelch MINIMUM, Clarifier Midrange, NB Off.

AM

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP13 (TR10 Collector). 7.8MHz, 1000Hz @ 30% modulation.	Ch. 19	L3,L4	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	L5,L6,L7, L8,L9,L10	Adjust for maximum output. Readjust L3 and L4 for maximum.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Input of oscilloscope to TP14 (D2 Cathode).	Ch. 19	L1,L2	Set generator output for 10db signal to noise plus noise ratio of receiver. Inject a 100pps, 1uSec. pulse width signal at antenna input. Switch Noise Blanker on and adjust for maximum amplitude pulses (10V peak typical). (See Figure 3.)

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.
Mode USB, RF Gain Maximum, Squelch MINIMUM, Clarifier Midrange, NB Off.

SSB

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP13 (TR10 Collector). 7.8025MHz, no modulation.	Ch. 19	L3,L4	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation.	Ch. 19	L5,L6,L7, L8,L9,L10	Adjust for maximum output. Readjust L3 and L4 for maximum.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 Squelch Maximum	VR2	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19	VR1	SIG METER Adjust for 9 on SIG scale of meter.

ROBYN MODEL SB-505D

TRANSMITTER ALIGNMENT

Connect a 50-ohm, 25-watt dummy load to antenna connector.

NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.

See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input. Inject a two tone 50mV signal at mic input.	Ch. 19 USB Mike Gain Maximum	L26,L27,L28, L29,L36	Set VR7 to MINIMUM. Adjust for maximum RF output.
Input of spectrum analyzer or harmonic meter to antenna input.	Ch. 19 AM Mike Gain MINIMUM	L39	Adjust for MINIMUM at 54MHz (2nd harmonic).

TRANSMITTER ADJUSTMENTS

Connect a 50-ohm, 25-watt dummy load to antenna connector.

NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

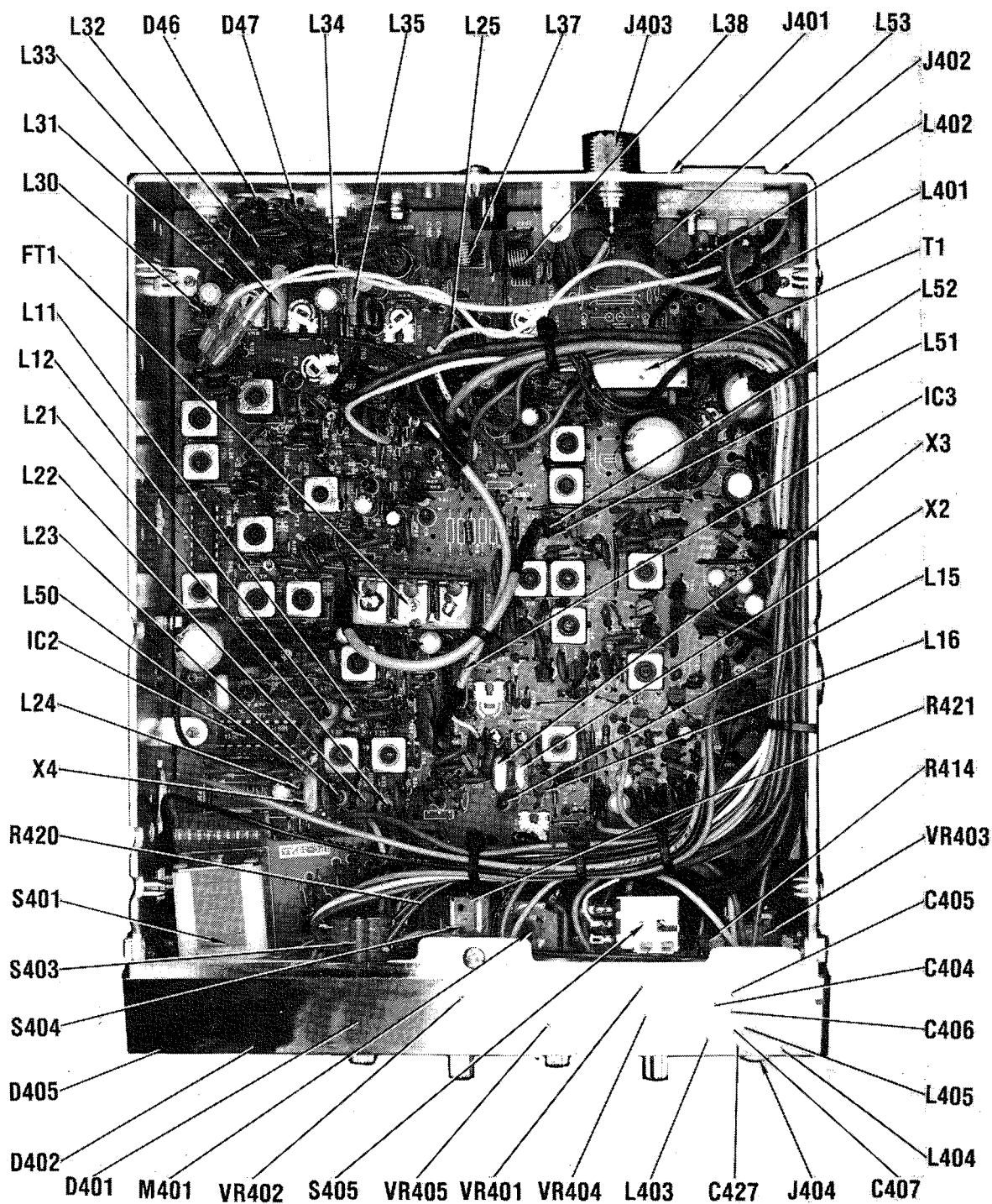
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Insert a 0-150mA DC current meter at TP8. No modulation.	Ch. 19 USB Mike Gain MINIMUM	VR8	RF DRIVER BIAS Adjust for 35mA idle current. Reconnect TP8.
Insert a 0-150mA DC current meter at TP7. No modulation.	Ch. 19 USB Mike Gain MINIMUM	VR9	RF FINAL BIAS Adjust for 45mA idle current. Reconnect TP7.
Input of RF wattmeter to antenna input. No modulation.	Ch. 19 USB Mike Gain MINIMUM	VR5	CARRIER BALANCE Adjust for MINIMUM RF output. Check LSB and readjust if necessary for MINIMUM RF output.
Input of RF wattmeter to antenna input. Inject a two tone, 50mV signal at mic input.	Ch. 19 USB Mike Gain Maximum	VR7	RF ALC Adjust for 11.0 watts PEP RF output maximum.
Input of RF wattmeter to antenna input. No modulation.	Ch. 19, AM Mike Gain MINIMUM	VR6	AM POWER Adjust for 4.0 watts RF output maximum.
Input of RF wattmeter to antenna input. No modulation.	Ch. 19, AM Mike Gain MINIMUM	VR10	TX PWR METER Adjust so PWR Meter agrees with RF wattmeter.

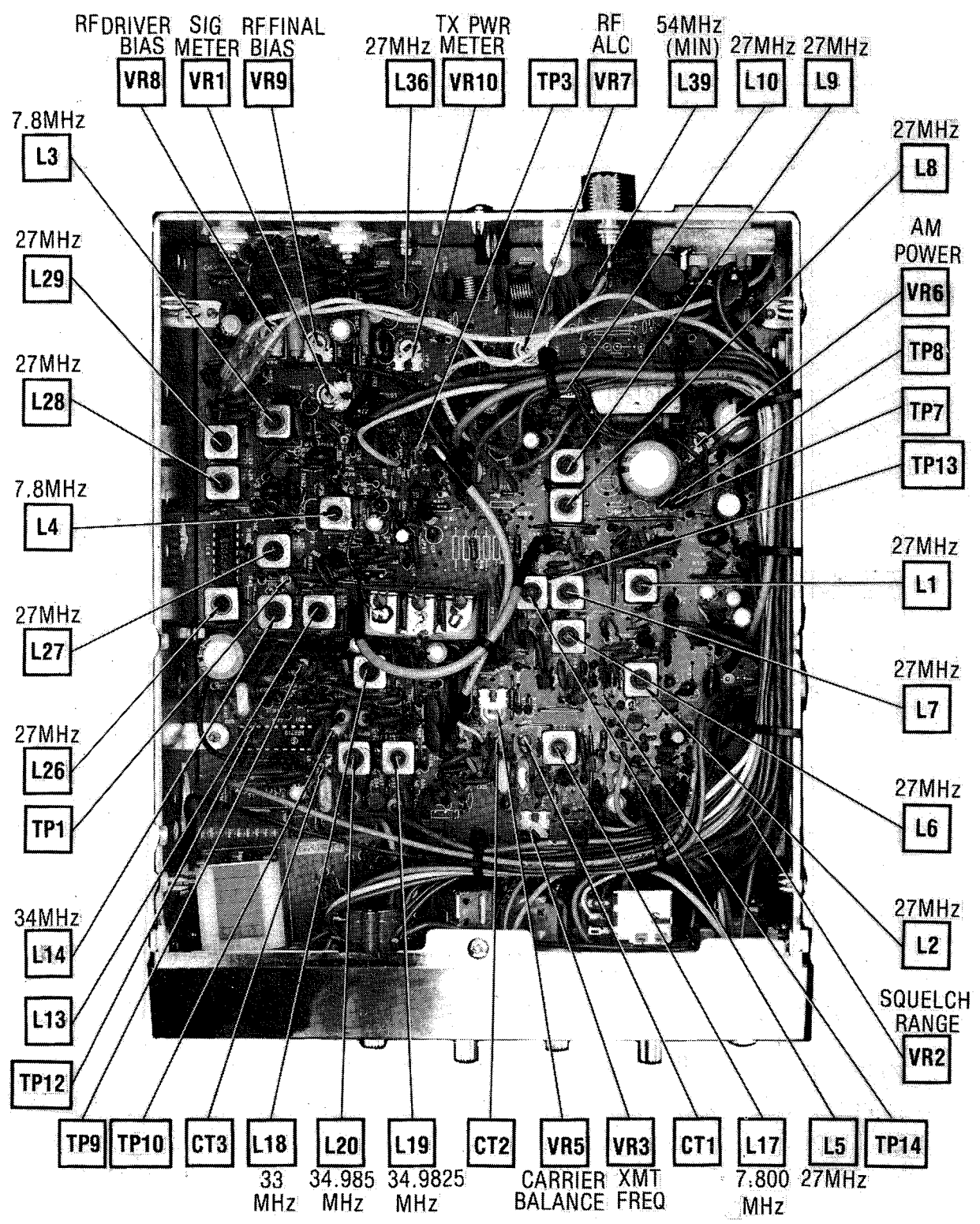
TRUTH CHART

C H A N N E L	1 = 7.98 Volts 0 = 0 Volts						DIVIDER INPUT IN MHz AT TP10	AM REC VCO OUTPUT IN MHz AT TP1	USB REC VCO OUTPUT IN MHz AT TP1	LSB REC VCO OUTPUT IN MHz AT TP1
	CHANNEL INPUT CODES									
	IC2 PINS									
	11	12	13	14	15	16				
1	0	0	1	1	1	1	1.430	34.765	34.7675	34.7625
2	0	1	0	0	0	0	1.440	34.775	34.7775	34.7725
3	0	1	0	0	0	1	1.450	34.785	34.7875	34.7825
4	0	1	0	0	1	1	1.470	34.805	34.8075	34.8025
5	0	1	0	1	0	0	1.480	34.815	34.8175	34.8125
6	0	1	0	1	0	1	1.490	34.825	34.8275	34.8225
7	0	1	0	1	1	0	1.500	34.835	34.8375	34.8325
8	0	1	1	0	0	0	1.520	34.855	34.8575	34.8525
9	0	1	1	0	0	1	1.530	34.865	34.8675	34.8625
10	0	1	1	0	1	0	1.540	34.875	34.8775	34.8725
11	0	1	1	0	1	1	1.550	34.885	34.8875	34.8825
12	0	1	1	1	0	1	1.570	34.905	34.9075	34.9025
13	0	1	1	1	1	0	1.580	34.915	34.9175	34.9125
14	0	1	1	1	1	1	1.590	34.925	34.9275	34.9225
15	1	0	0	0	0	0	1.600	34.935	34.9375	34.9325
16	1	0	0	0	1	0	1.620	34.955	34.9575	34.9525
17	1	0	0	0	1	1	1.630	34.965	34.9675	34.9625
18	1	0	0	1	0	0	1.640	34.975	34.9775	34.9725
19	1	0	0	1	0	1	1.650	34.985	34.9875	34.9825
20	1	0	0	1	1	1	1.670	34.005	34.0075	35.0025
21	1	0	1	0	0	0	1.680	35.015	35.0175	35.0125
22	1	0	1	0	0	1	1.690	35.025	34.0275	35.0225
23	1	0	1	1	0	0	1.720	35.055	35.0575	35.0525
24	1	0	1	0	1	0	1.700	35.035	35.0375	35.0325
25	1	0	1	0	1	1	1.710	35.045	35.0475	35.0425
26	1	0	1	1	0	1	1.730	35.065	35.0675	35.0625
27	1	0	1	1	1	0	1.740	35.075	35.0775	35.0725
28	1	0	1	1	1	1	1.750	35.085	35.0875	35.0825
29	1	1	0	0	0	0	1.760	35.095	35.0975	35.0925
30	1	1	0	0	0	1	1.770	35.105	35.1075	35.1025
31	1	1	0	0	1	0	1.780	35.115	35.1175	35.1125
32	1	1	0	0	1	1	1.790	35.125	35.1275	35.1225
33	1	1	0	1	0	0	1.800	35.135	35.1375	35.1325
34	1	1	0	1	0	1	1.810	35.145	35.1475	35.1425
35	1	1	0	1	1	0	1.820	35.155	35.1575	35.1525
36	1	1	0	1	1	1	1.830	35.165	35.1675	35.1625
37	1	1	1	0	0	0	1.840	35.175	35.1775	35.1725
38	1	1	1	0	0	1	1.850	35.185	35.1875	35.1825
39	1	1	1	0	1	0	1.860	35.195	35.1975	35.1925
40	1	1	1	0	1	1	1.870	35.205	35.2075	35.2025

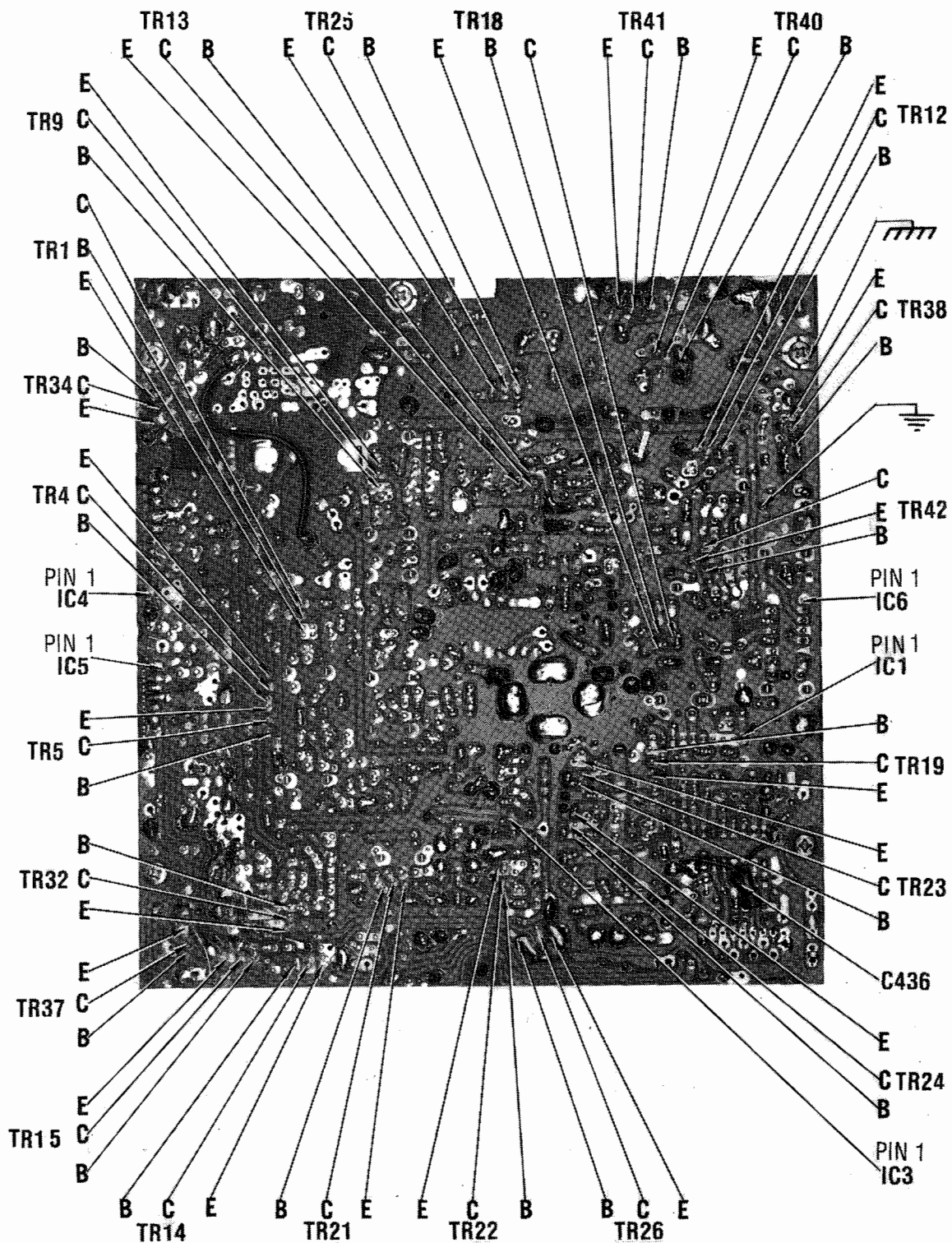
ROBYN MODEL SB-505D



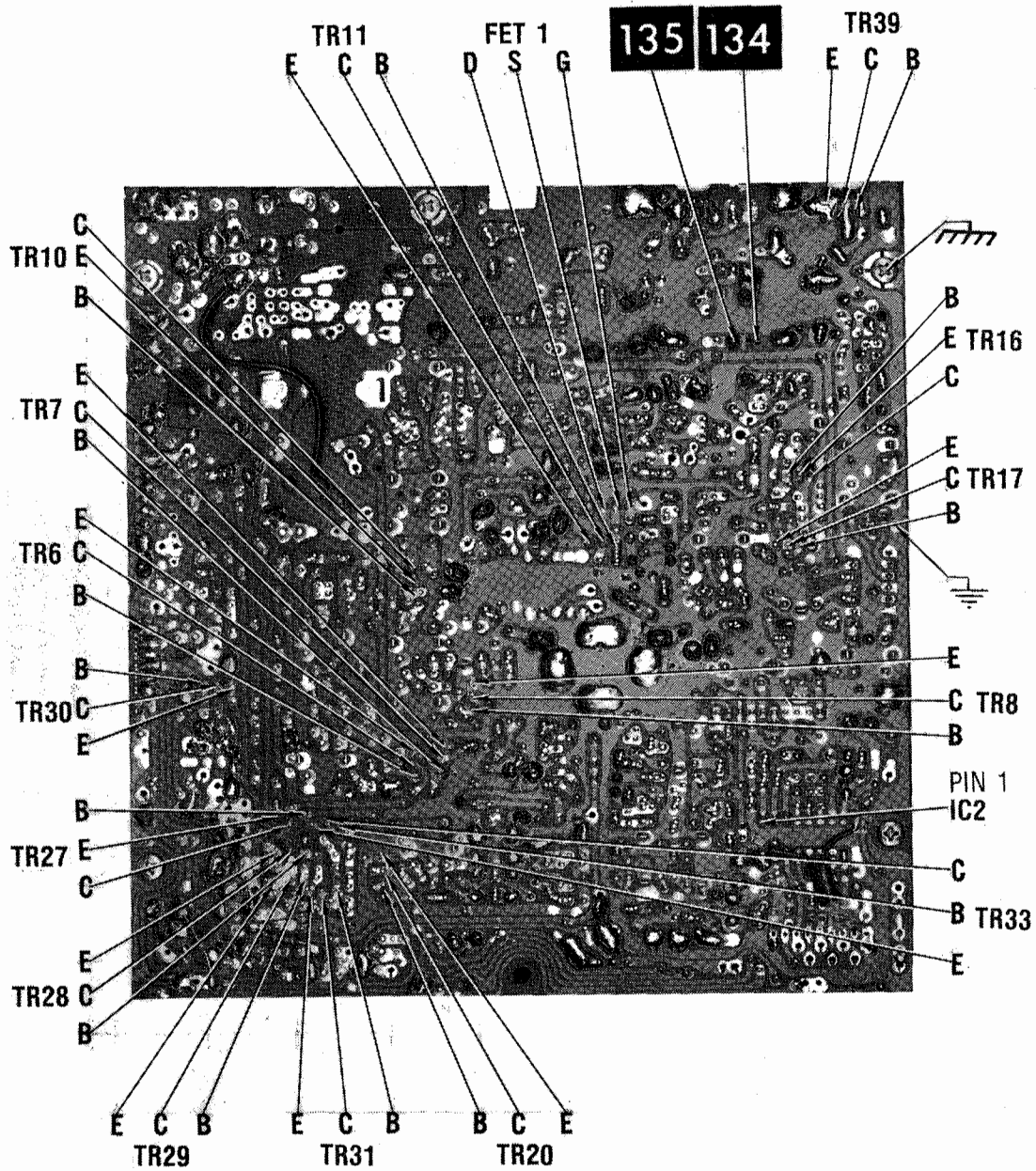
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CHASSIS - BOTTOM

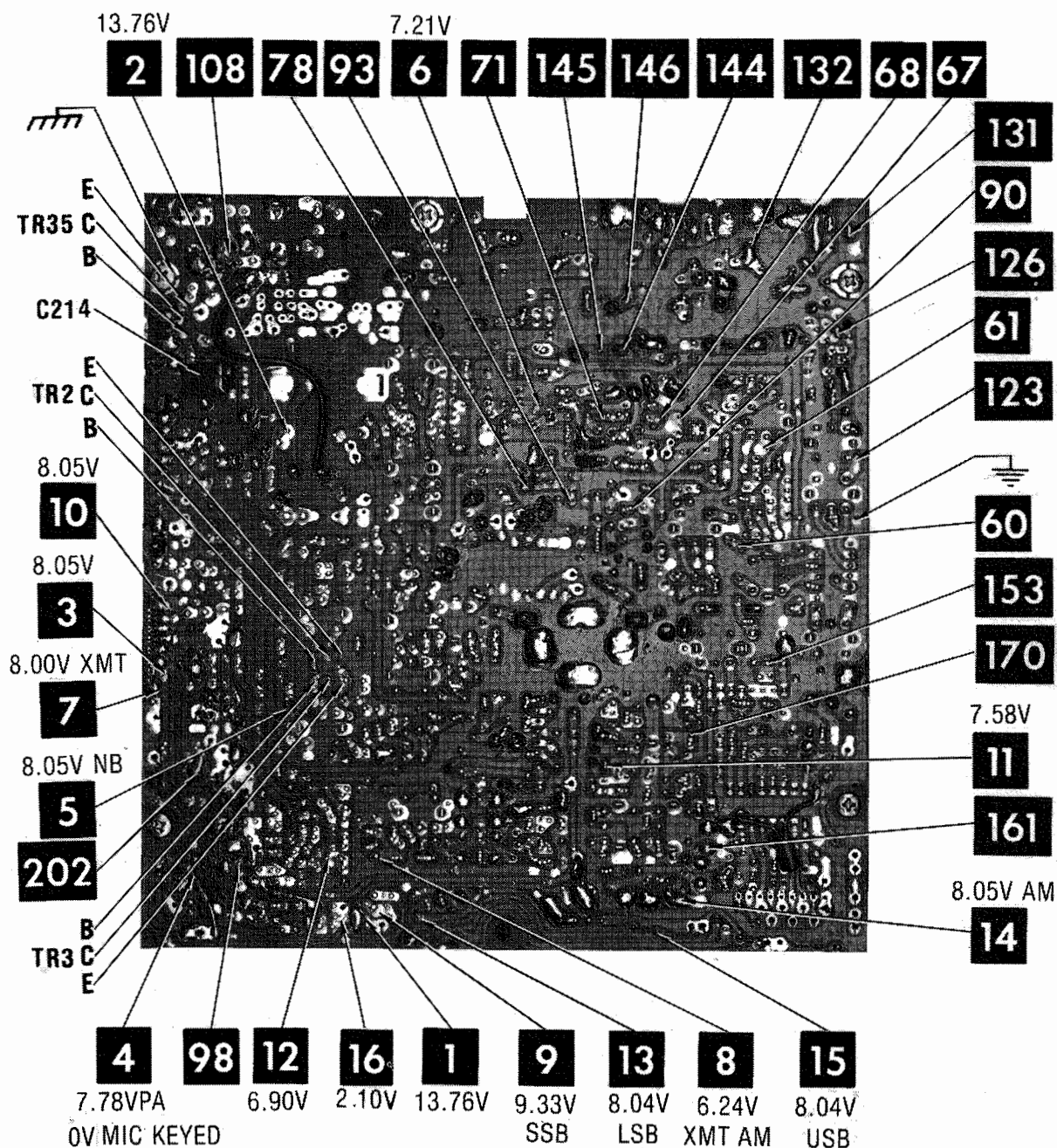


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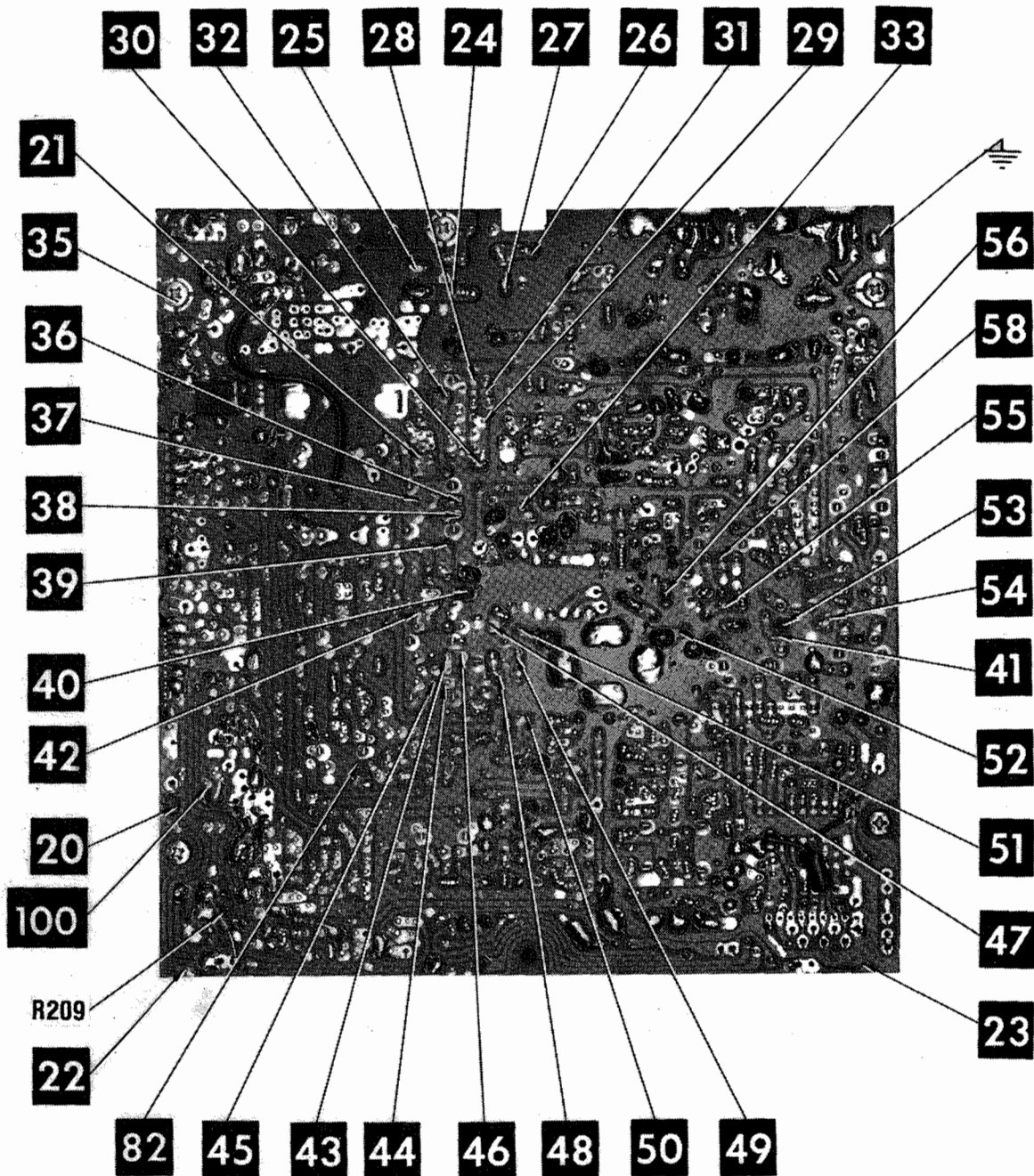


ROBYN MODEL SB-505D

MAIN BOARD

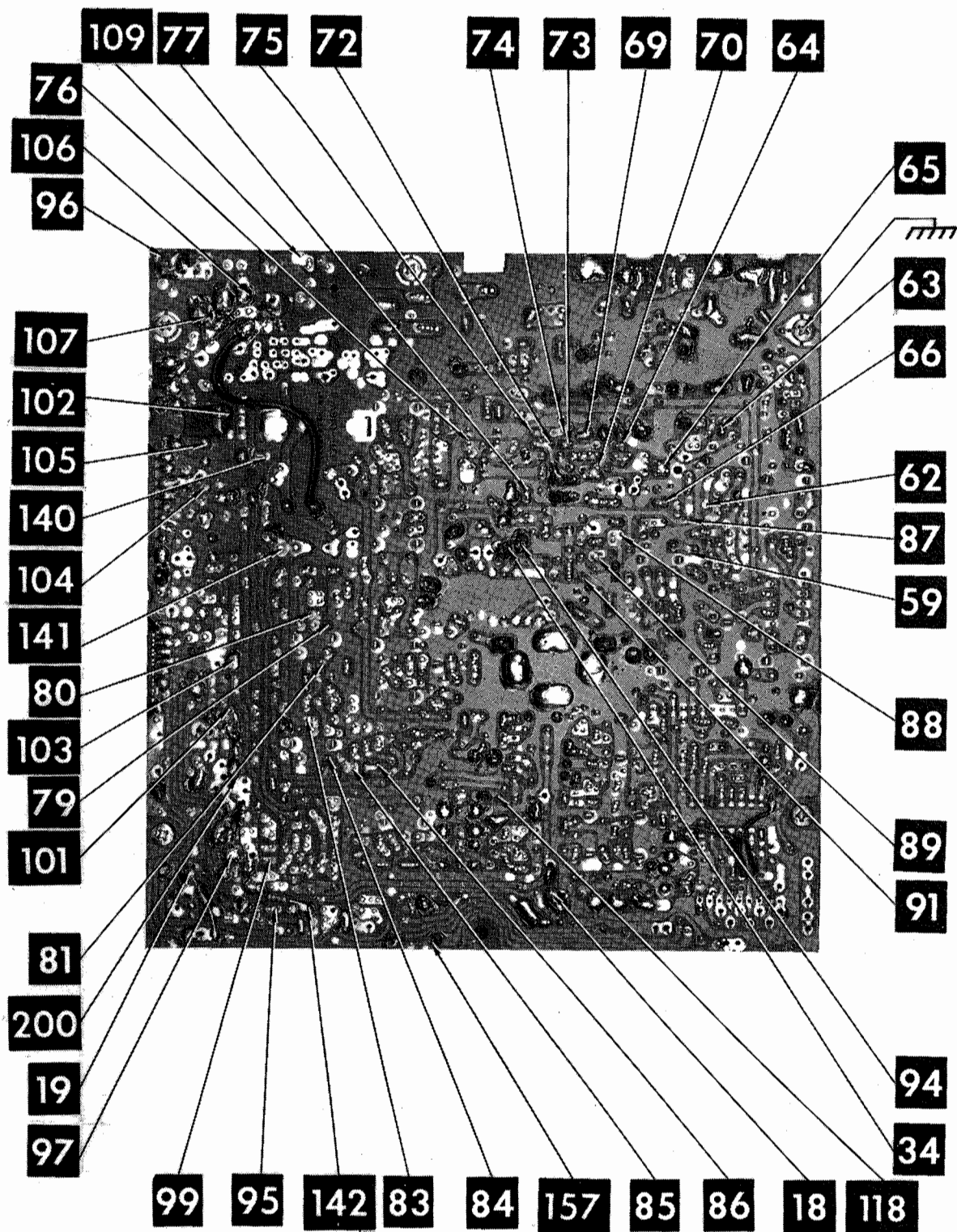


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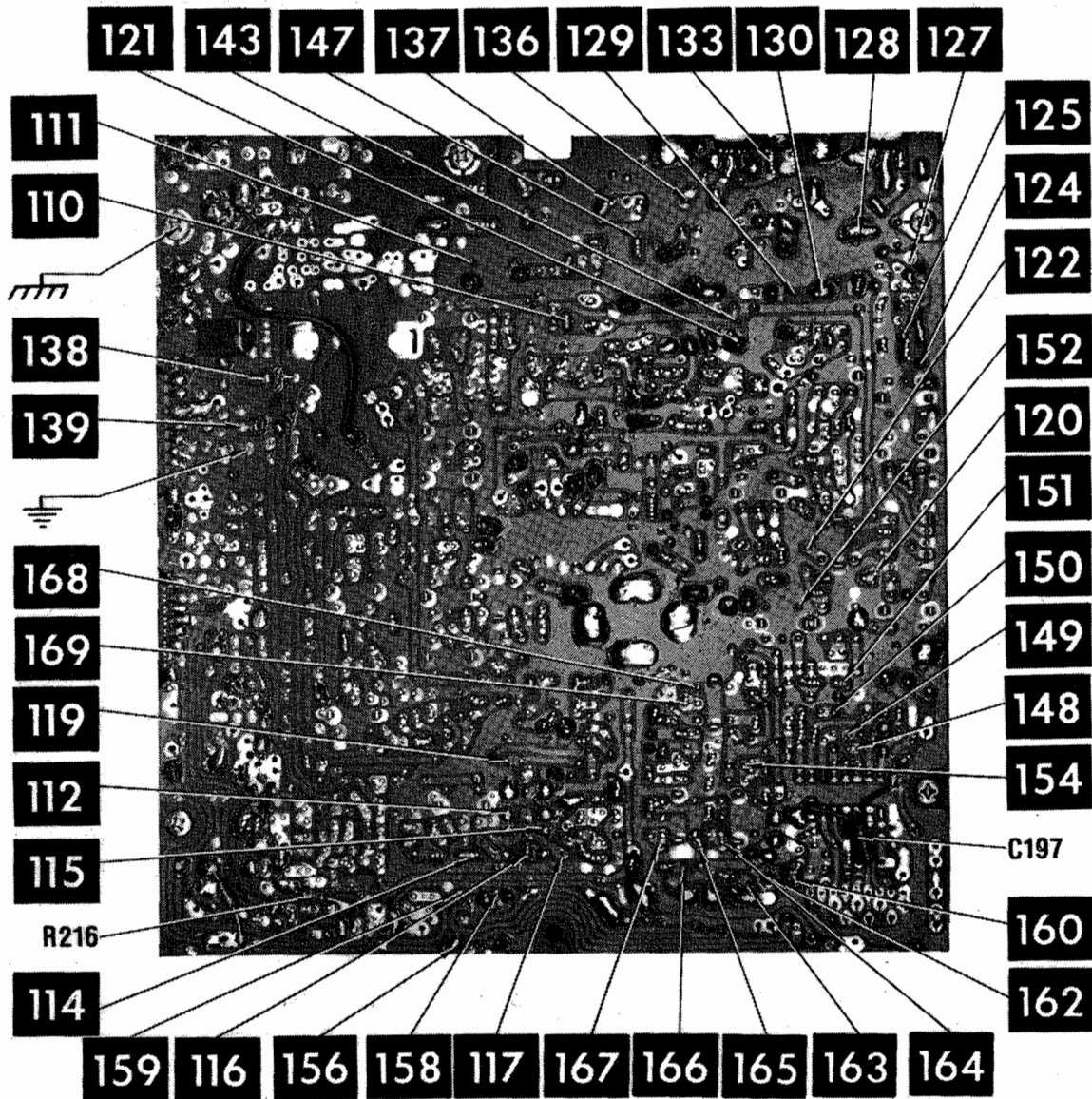
ROBYN MODEL SB-505D

MAIN BOARD

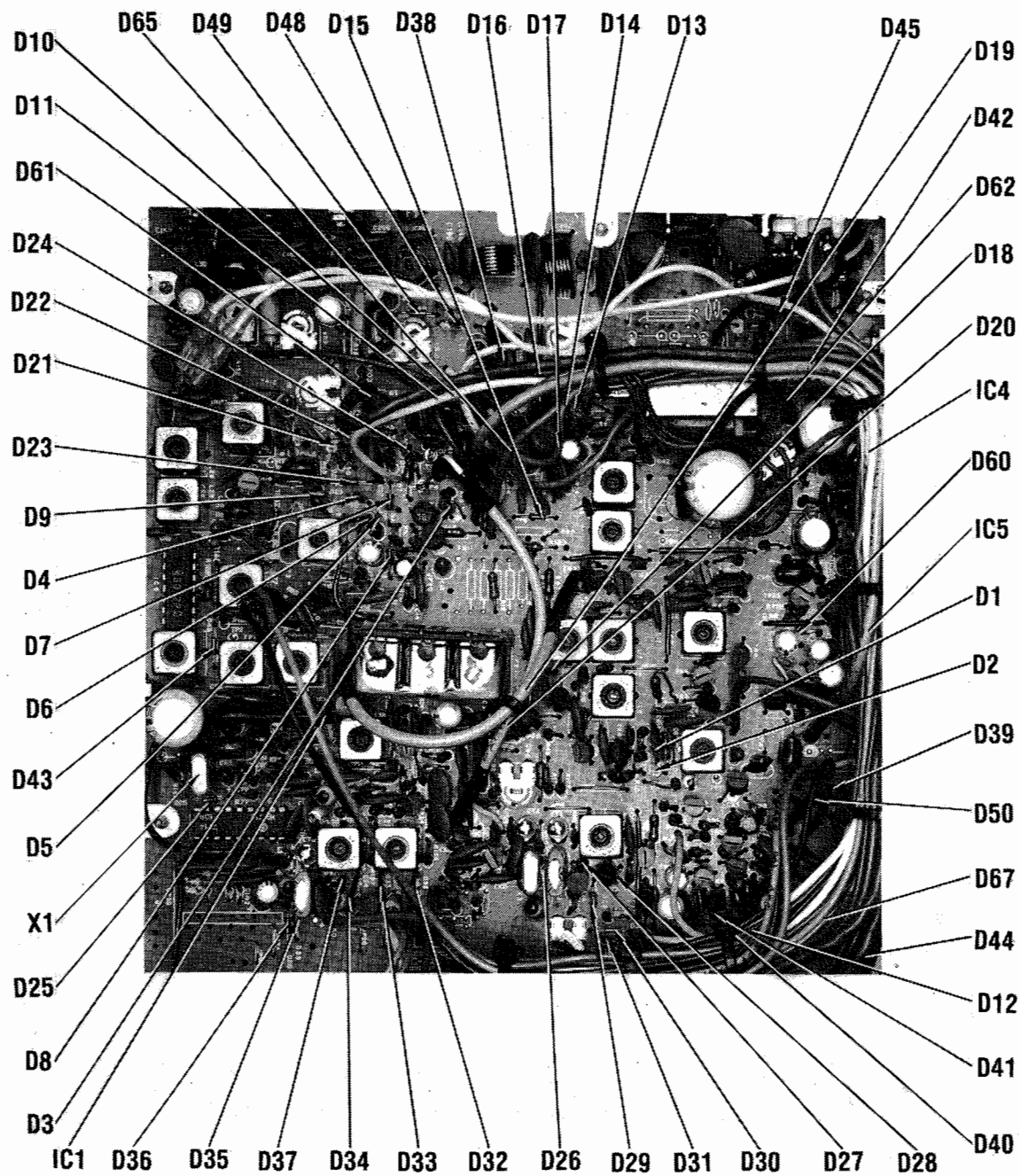


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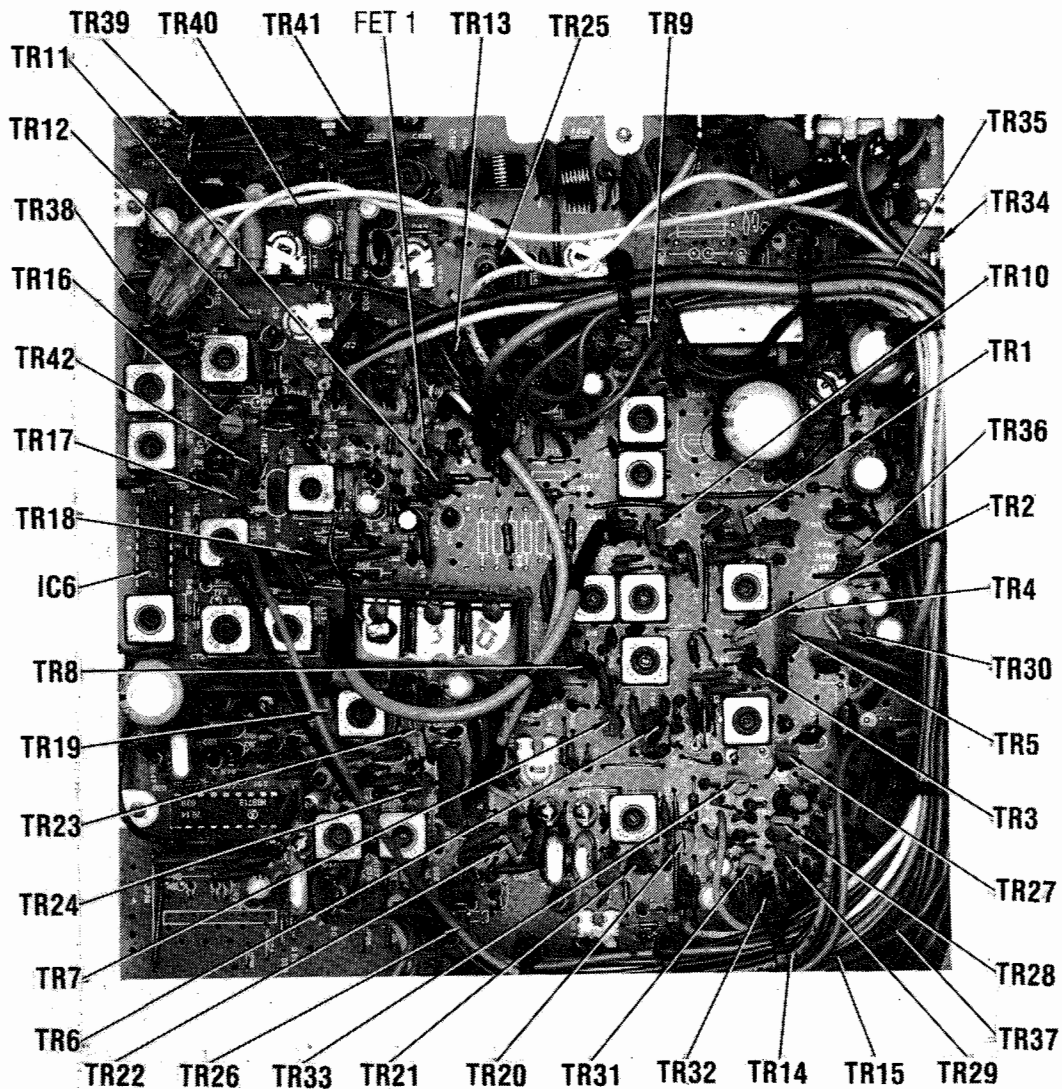
ROBYN MODEL SB-505D



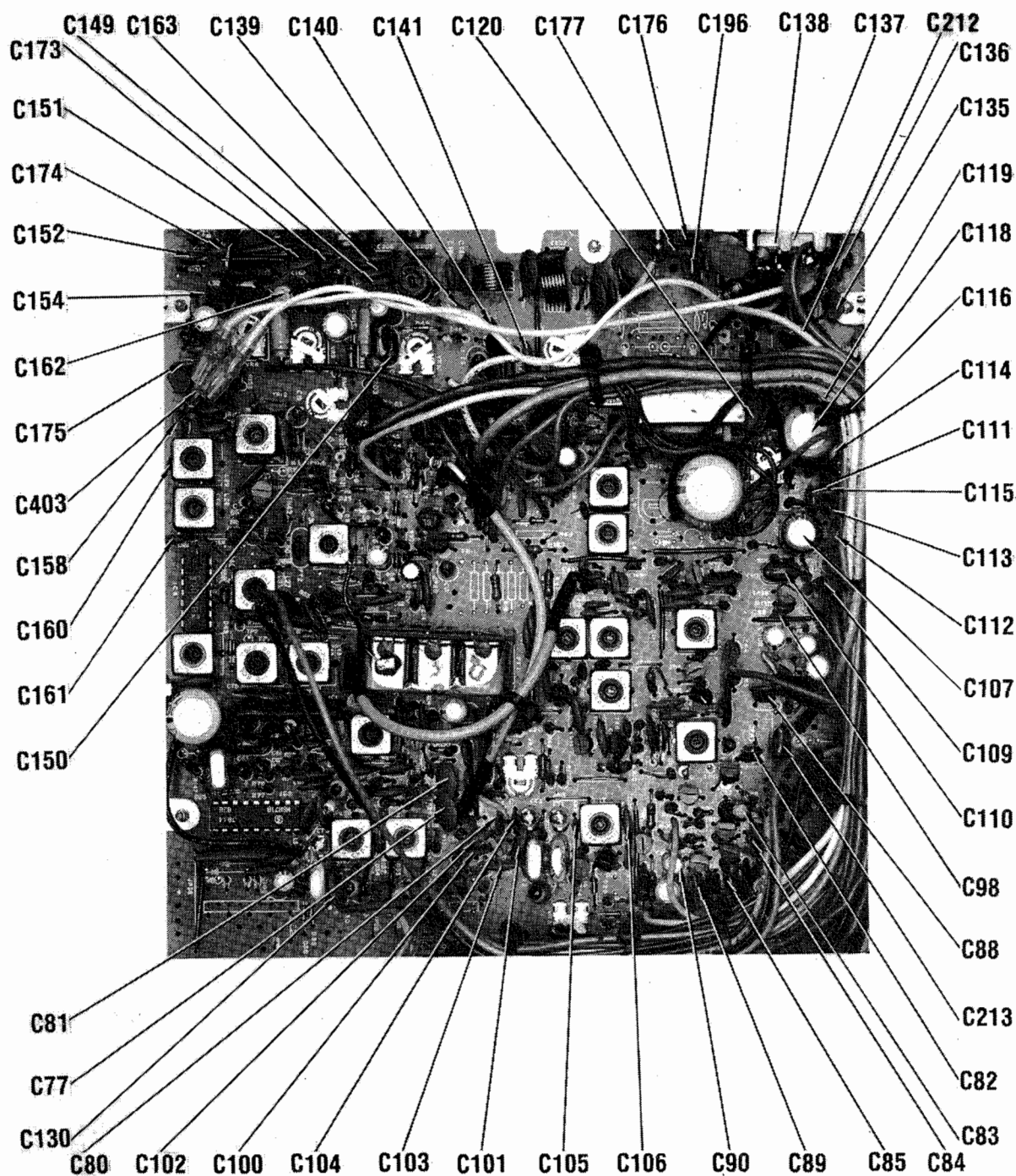
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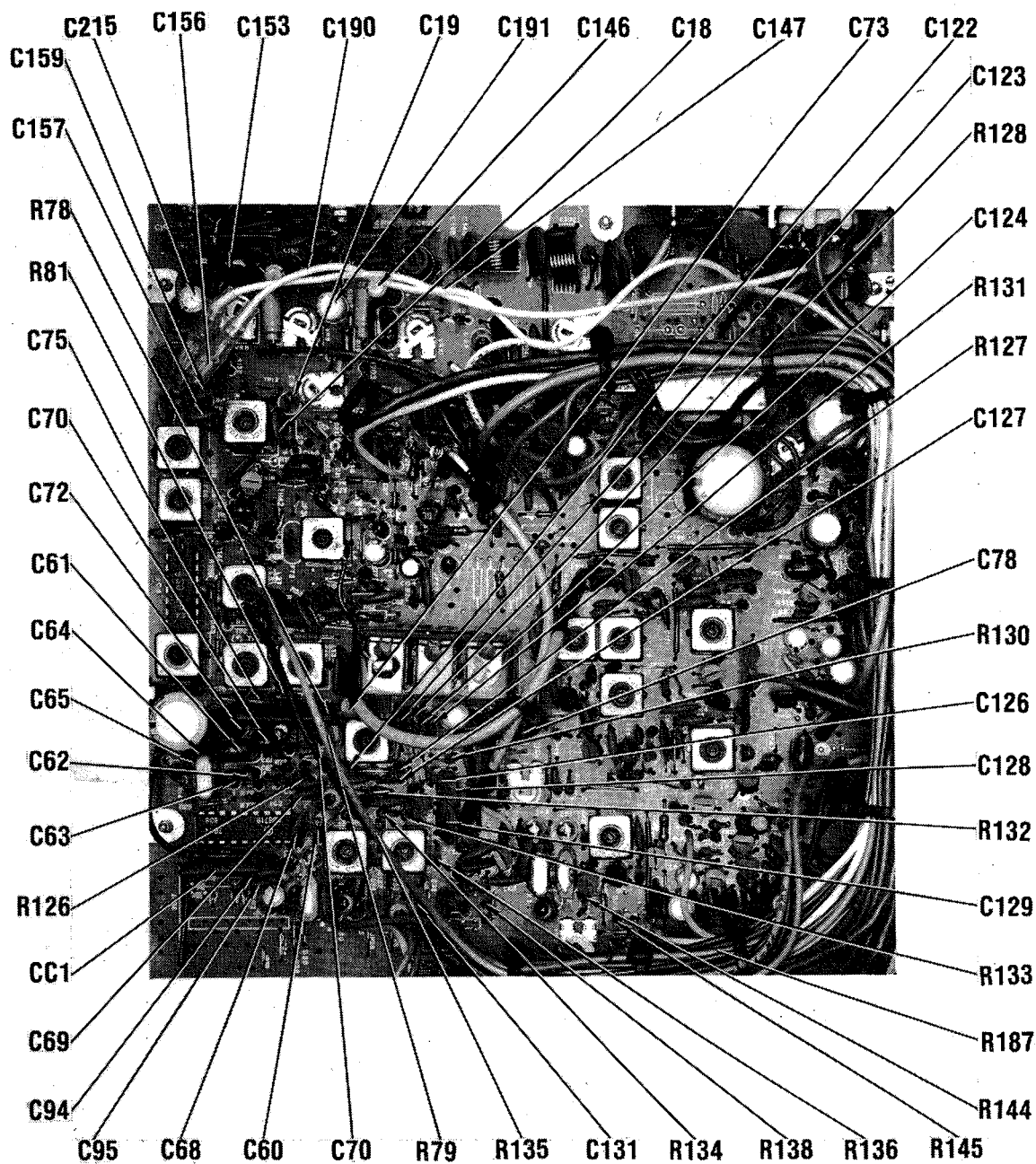
MA IN BOARD



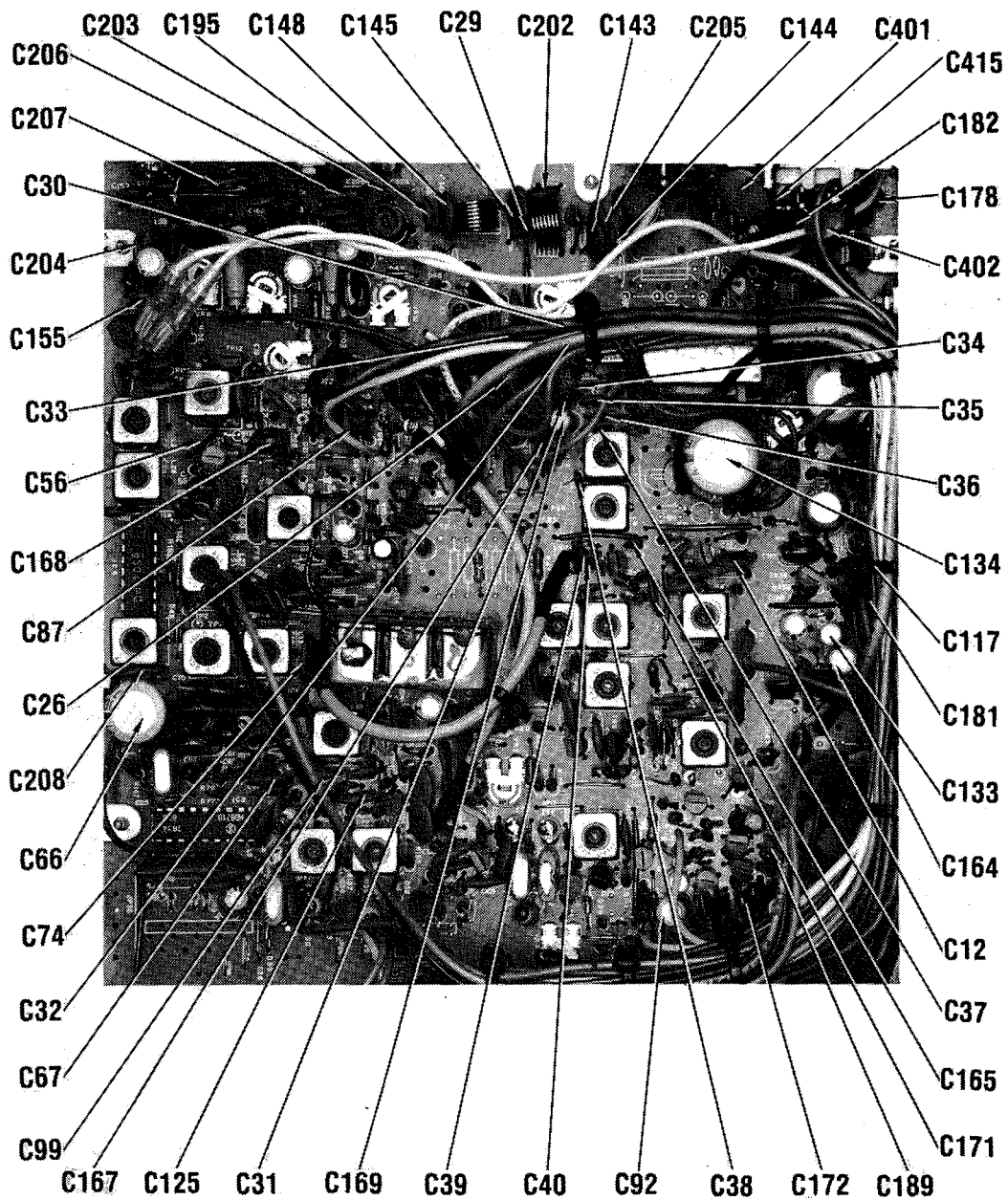
MAIN BOARD



MAIN BOARD

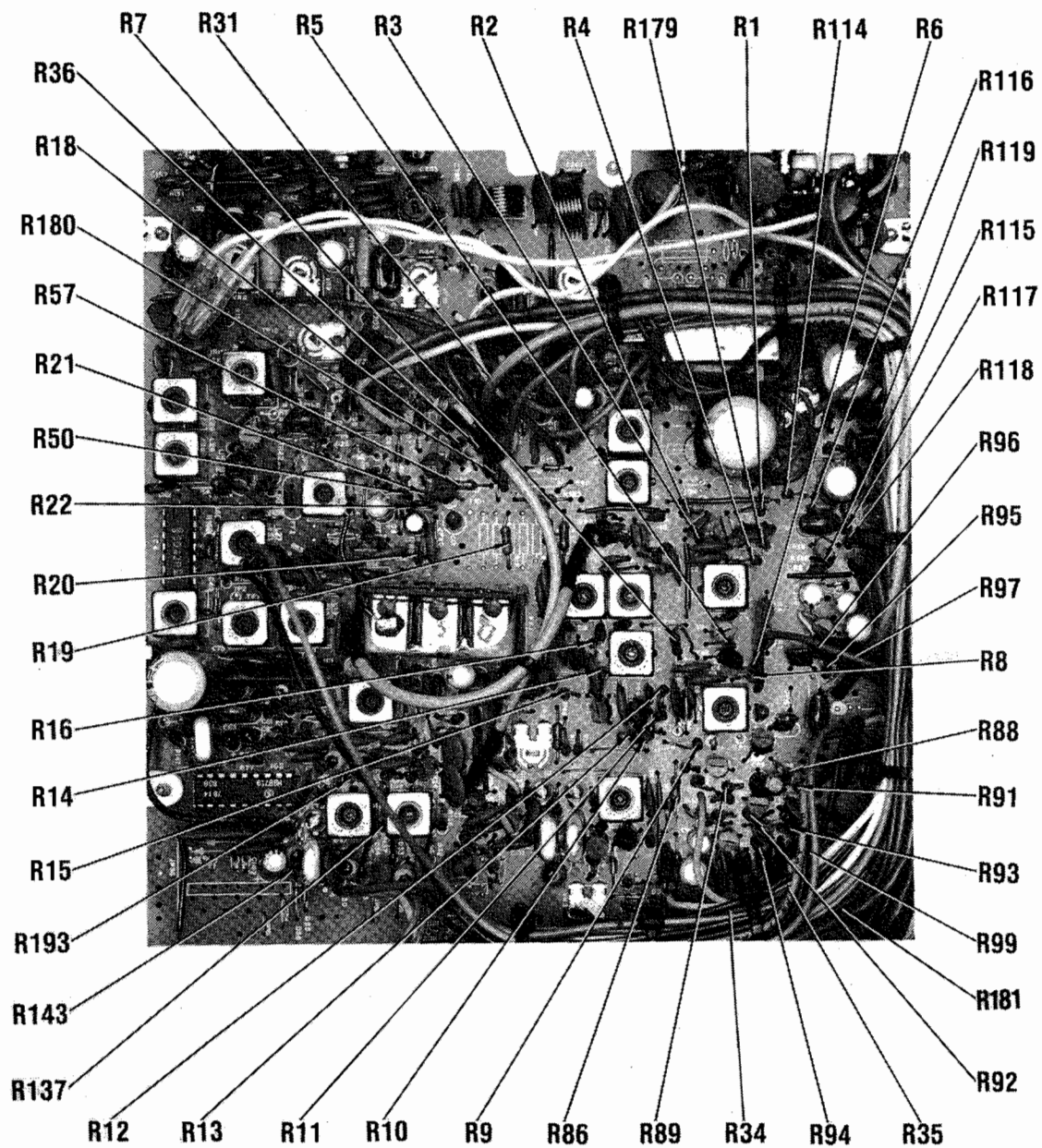


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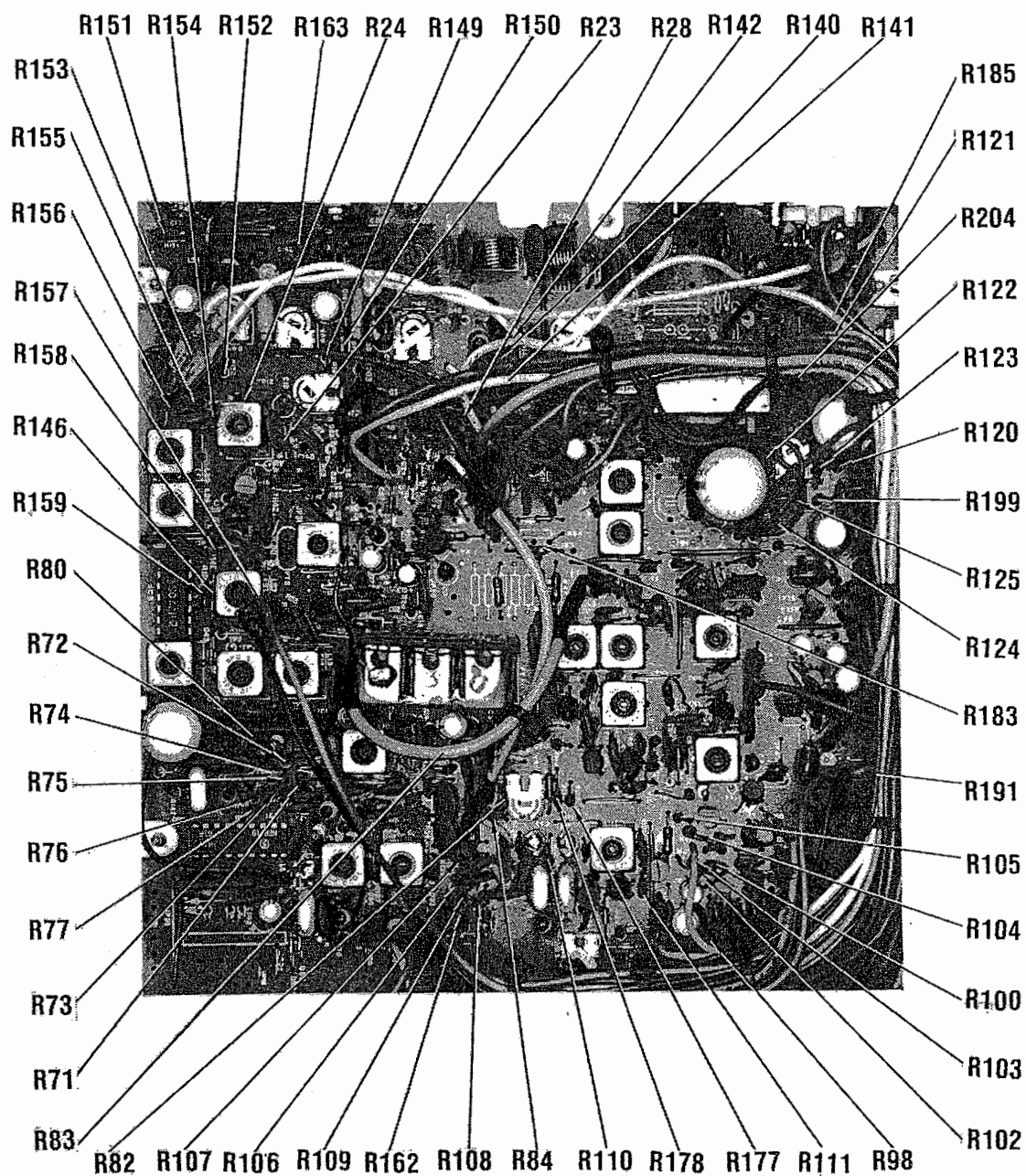


ROBYN MODEL SB-505D

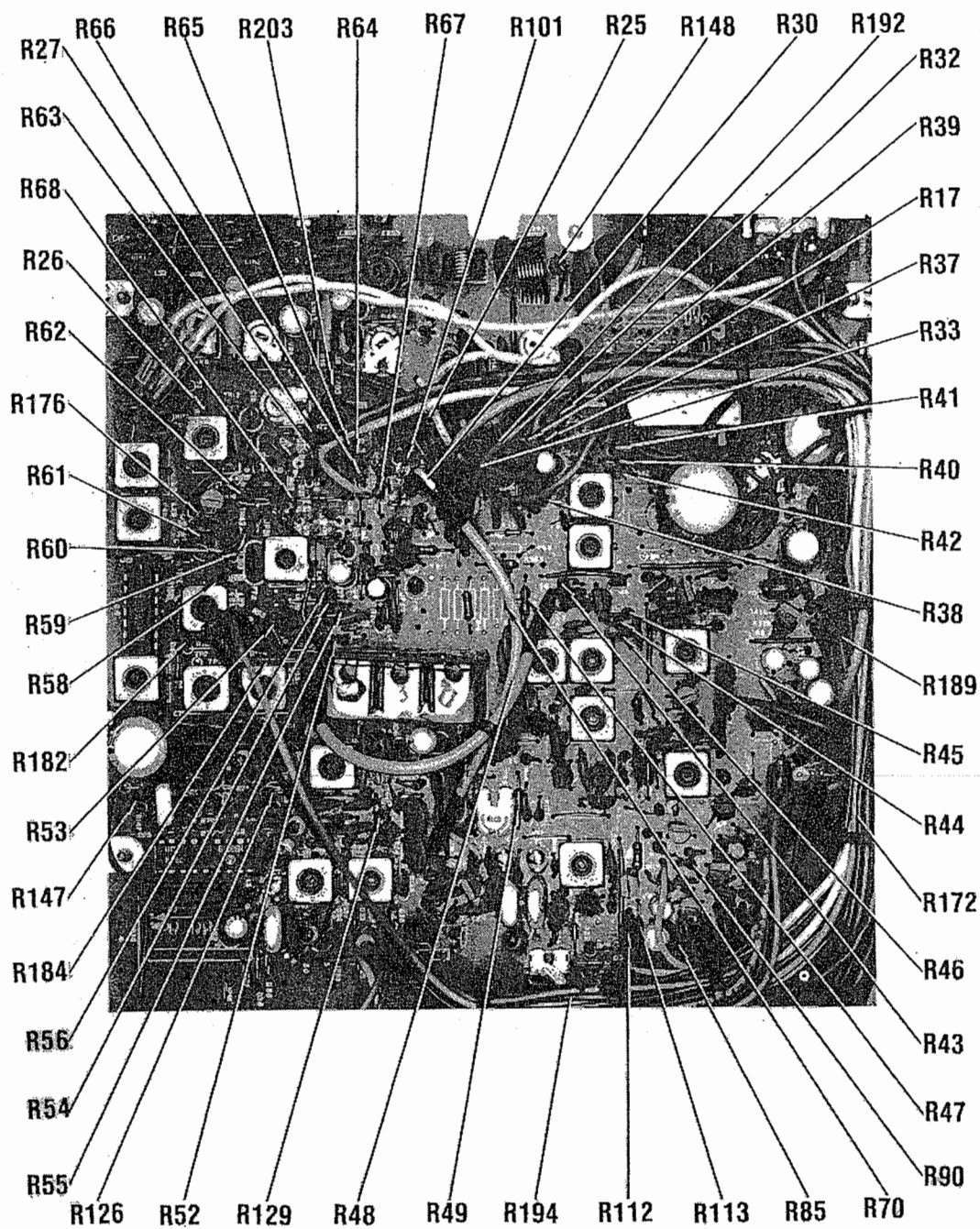
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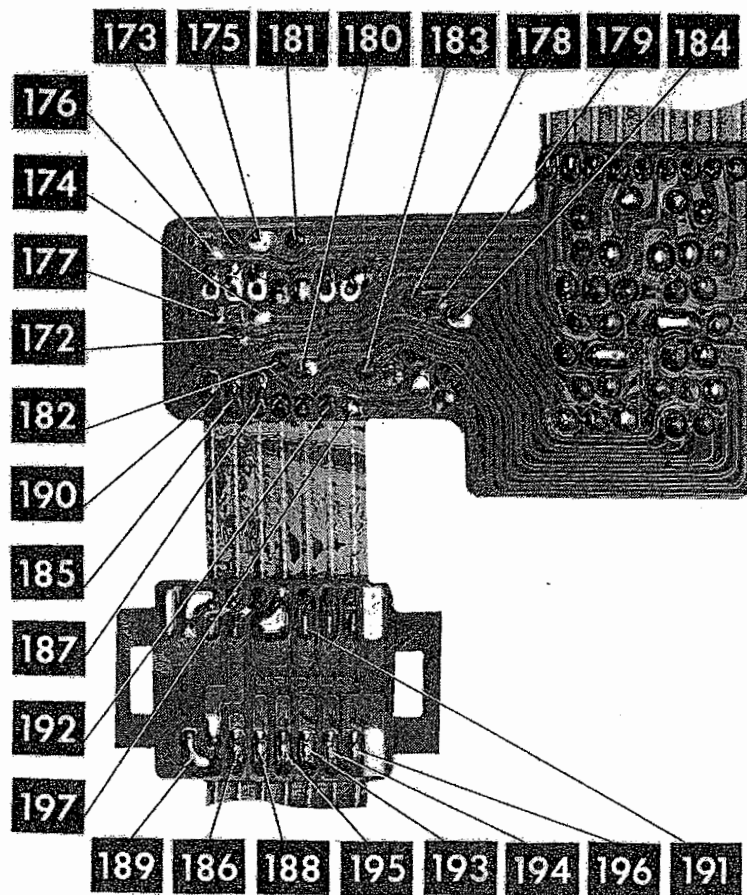
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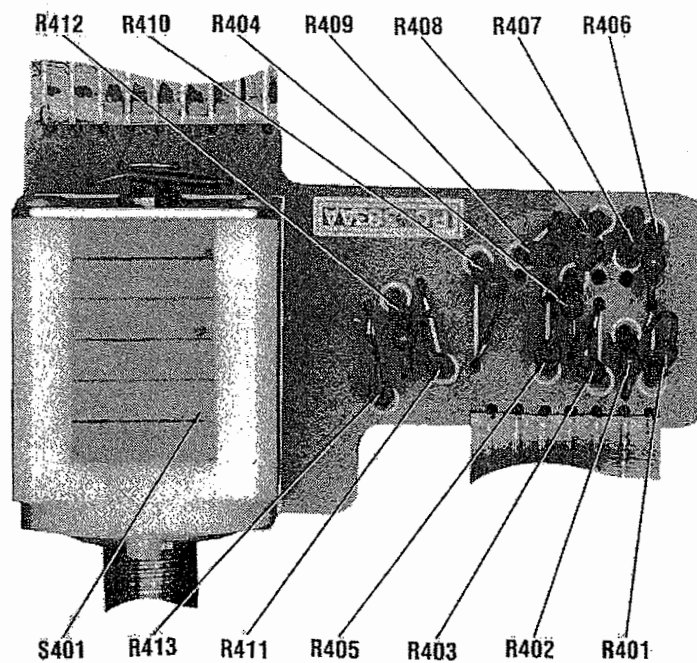
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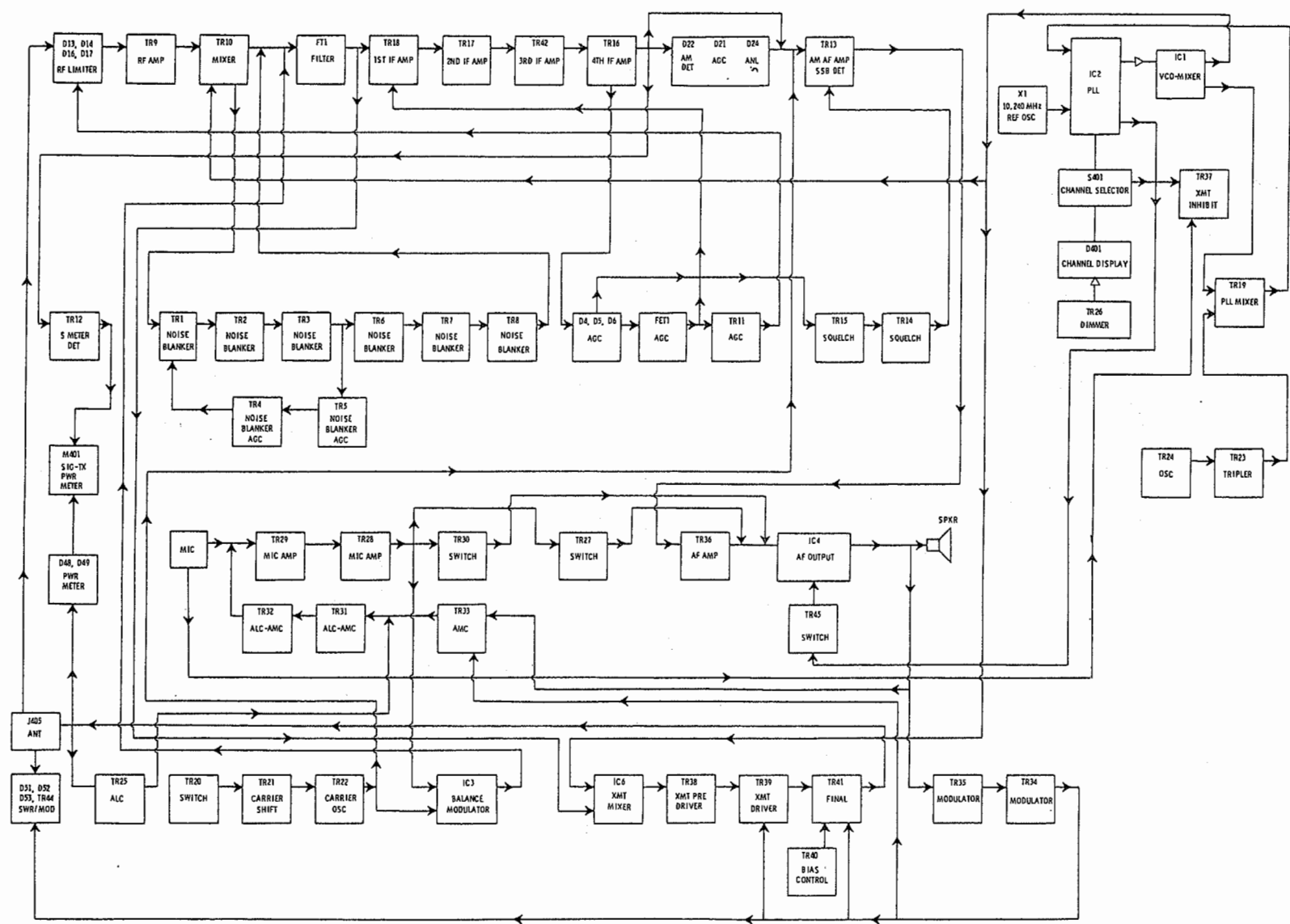
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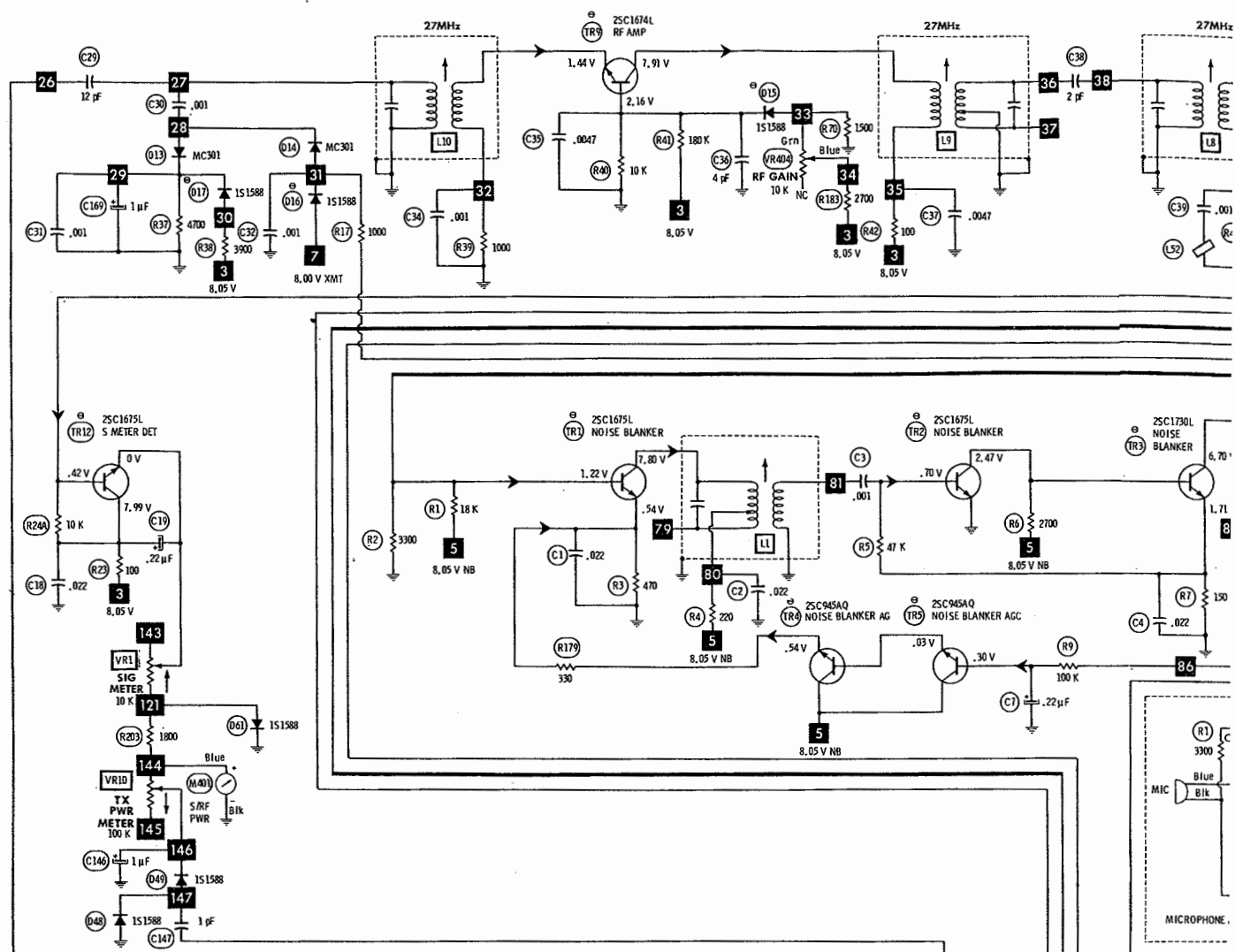
CH. SELECTOR & LED BOARD



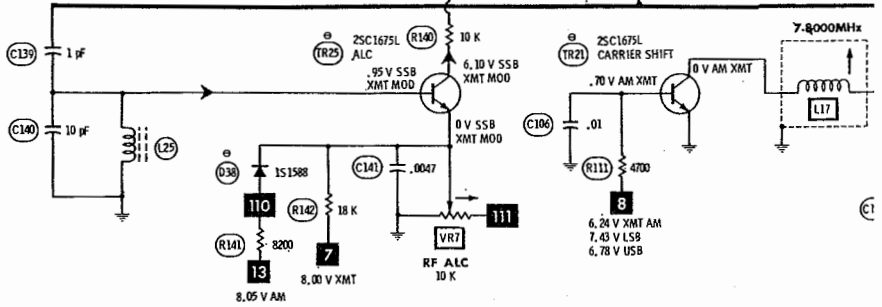
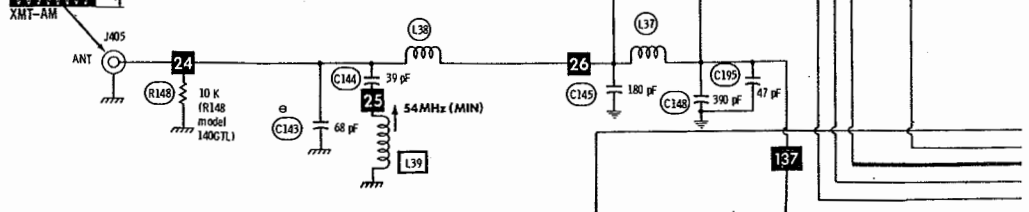
CH. SELECTOR BOARD



ROBYN MODEL SB-505D



28V
0.01μSEC
XMT-AM



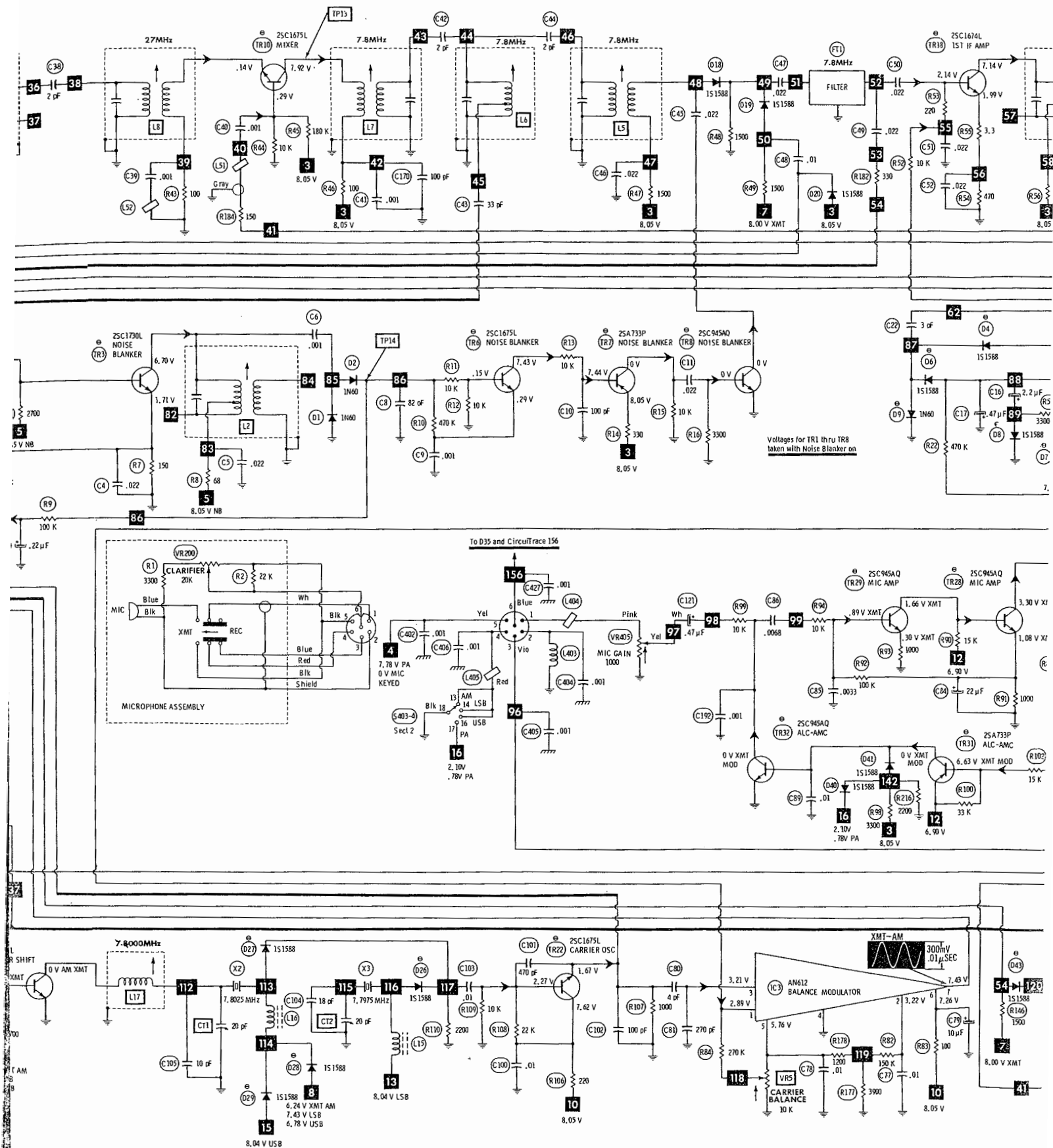
—X— Circuitry not used in some versions.
 --- Circuitry used in some versions.
 ※ Nominal value
 ⊥ Ground
 CH Chassis
 ⊕ See parts list

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

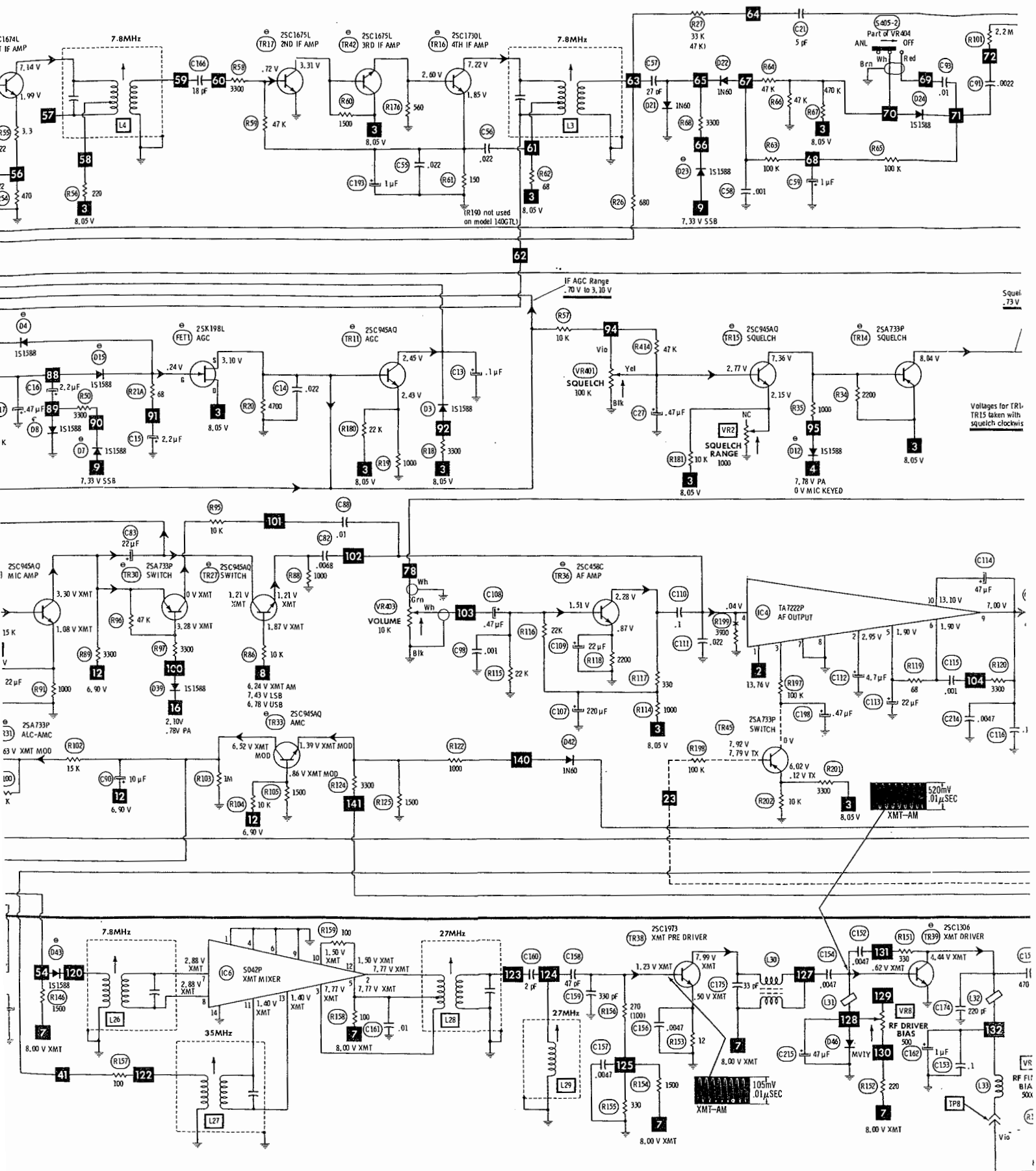
A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE®

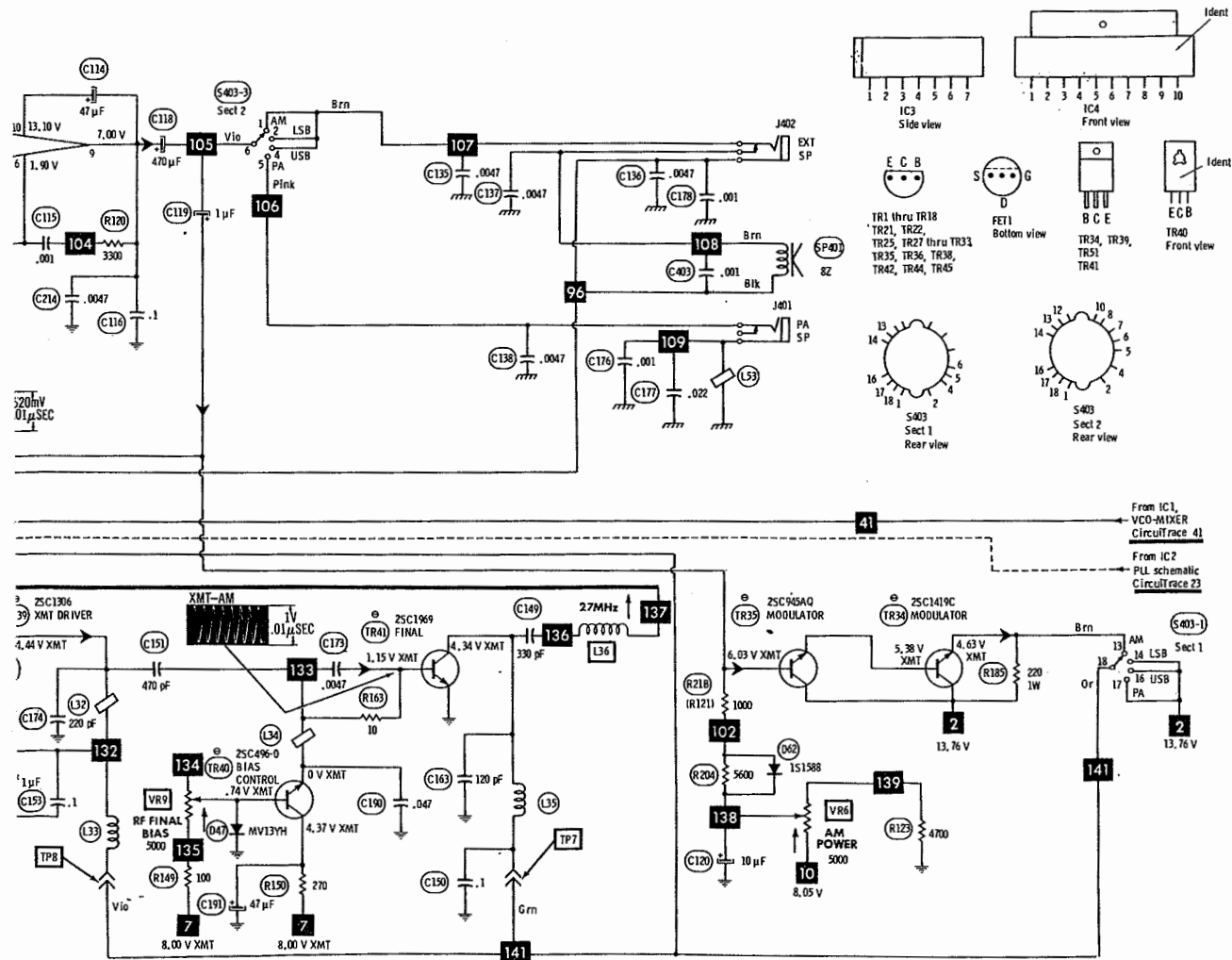
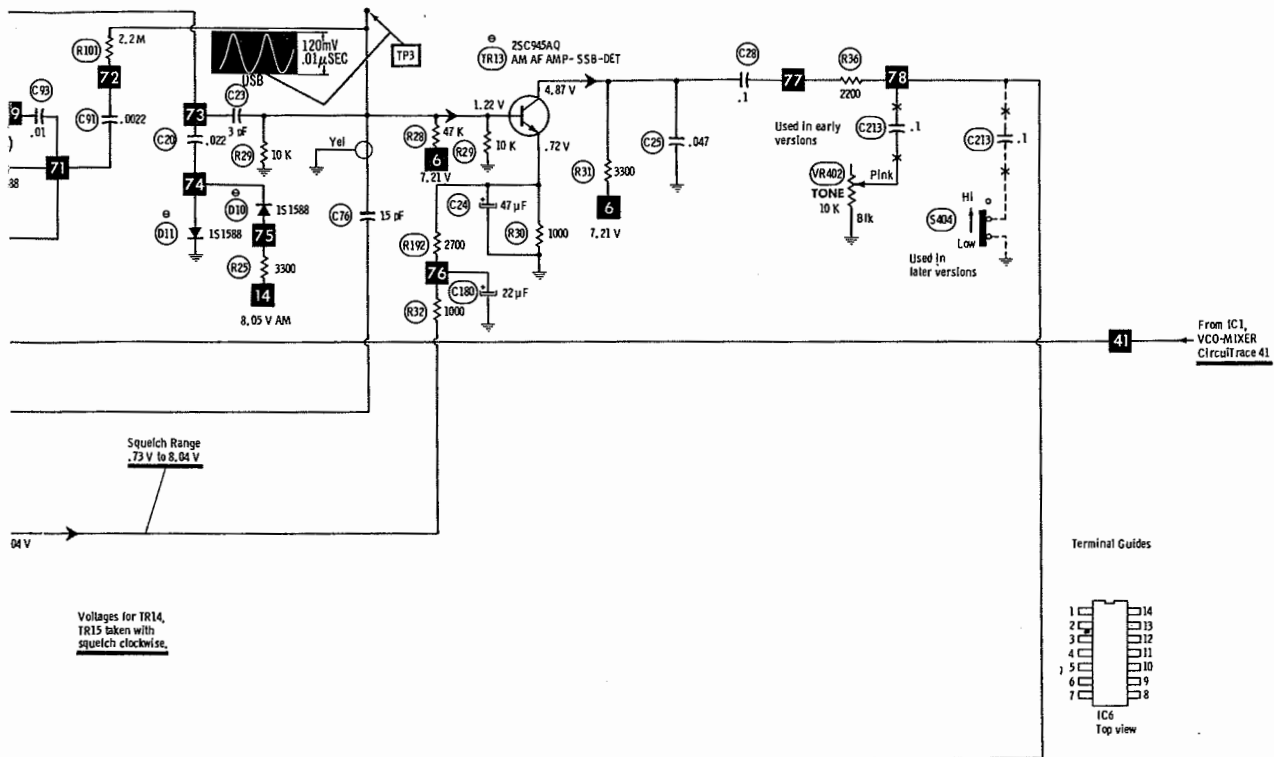
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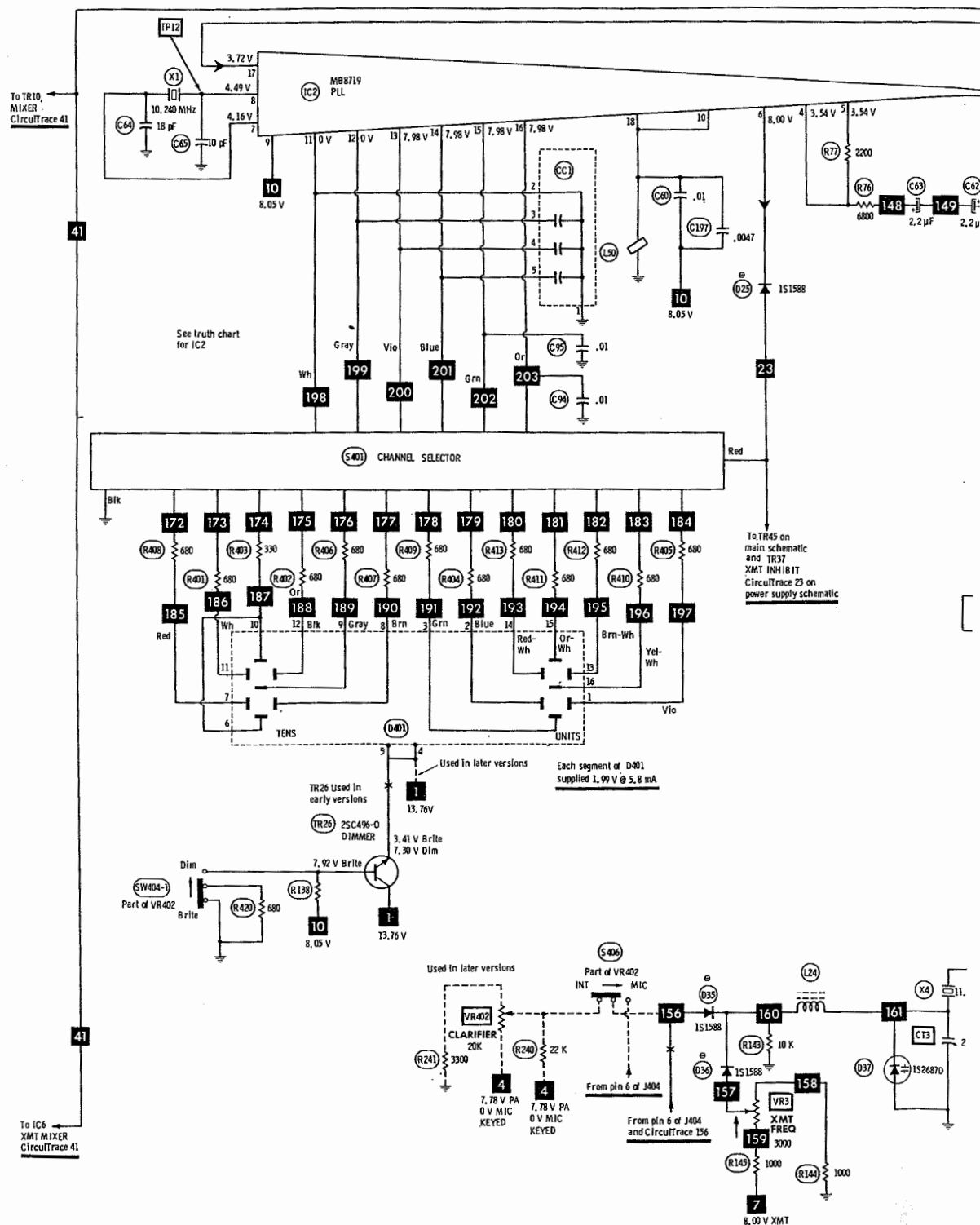


MAIN SCHEM



SCHEMATIC





Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Terminal identification may not be found on unit.
Resistors are 1/2W or less, 5% unless noted.
Value in () used in some versions.
Arrow head(s) at coils and transformers
indicates accessibility of tuning slug(s).

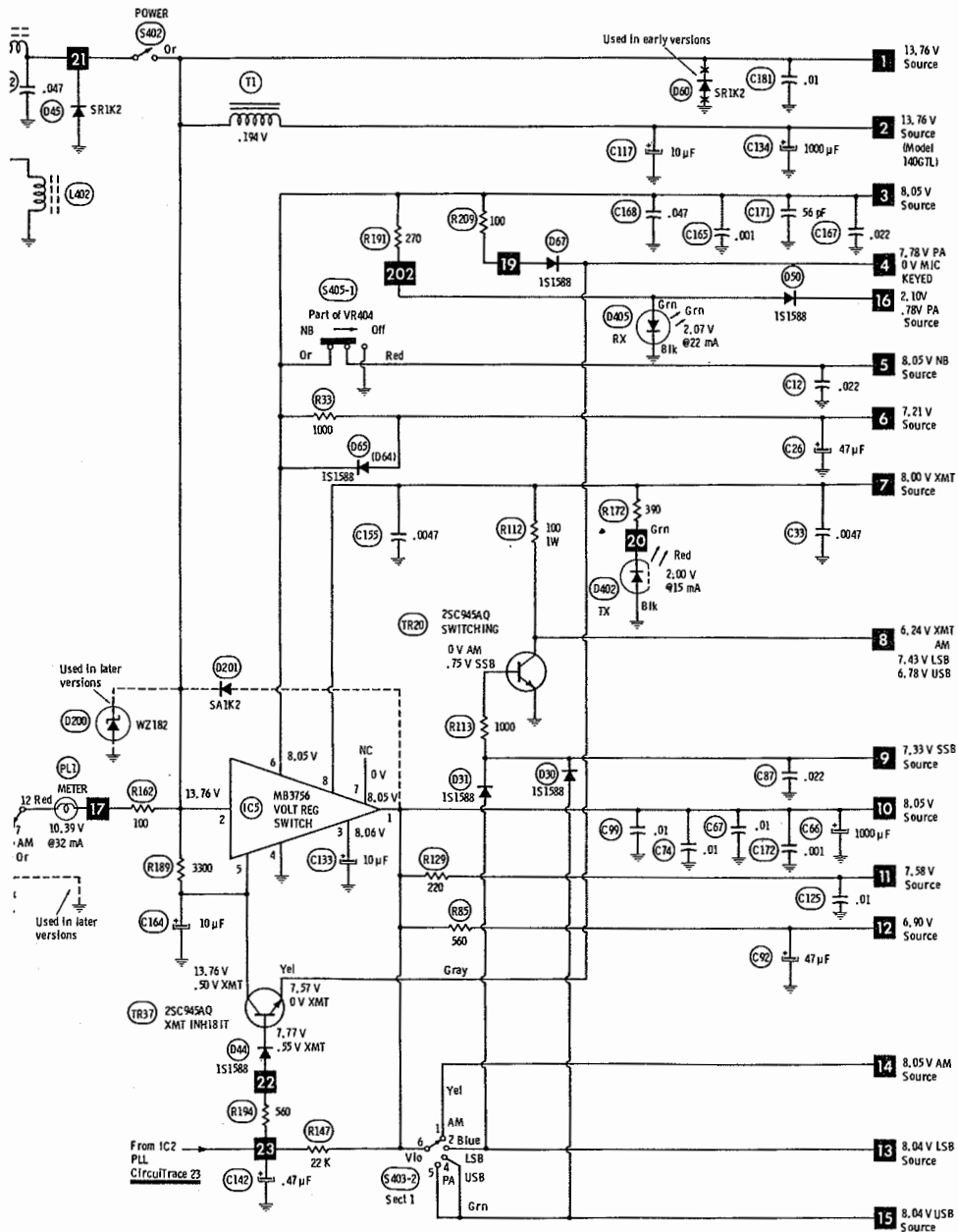
A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITTRACE®**

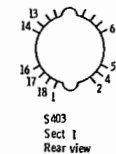
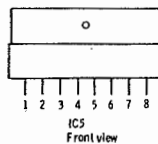
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- X— Circuitry not used in some versions.
- Circuitry used in some versions.
- ⊗ Nominal value
- ⊕ Common tie point
- ⊥ Ground
- ⊖ Signal path
- ⊖ Chassis
- ⊖ Voltage path
- ⊖ See parts list

Waveforms and Voltages taken in Channel 19
with switching in receive unless noted.
Item numbers in rectangles appear in the
alignment/adjustment instructions.
Supply voltage maintained as shown at input.



Terminal Guides



POWER SUPPLY SCHEMATIC

PARTS LIST AND DESCRIPTION

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

WIRING DATA

General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded) 23AWG	BELDEN No. 9471 (5')
Braided	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672		28AWG BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106		31AWG BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded) 23AWG	BELDEN No. 8415 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

PA
(Wh)

SEMICON

ITEM No.	TYPE No.
TR12	2SC167E
TR13	2SC167E
	2SC945E
TR14	2SA733F
	2SA733
TR15	2SC945E
	2SC945E
TR16	2SC173C
	2SC173C
TR17	2SC167E
	2SC167E
TR18	2SC167E
	2SC167E
TR19	2SC167E
	2SC167E
TR20	2SC145E
	2SC945E
TR21	2SC167E
	2SC167E
TR22	2SC167E
	2SC167E
TR23	2SC167E
	2SC167E
TR24	2SC167E
	2SC167E
TR25	2SC167E
	2SC167E
TR26	2SC496E
	2SC496E
TR27	2SC945E
	2SC945E
TR28	2SC945E
	2SC945E
TR29	2SC945E
	2SC945E
TR30	2SA733F
	2SA733
TR31	2SA733F
	2SA733
TR33	2SC945E
	2SC945E
TR34	2SC141
	2SC141
TR35	2SC945E
	2SC945E
TR36	2SC458E
	2SC458E
TR37	2SC945E
	2SC945E
TR38	2SC197
TR39	2SC130
TR40	2SC496E
	2SC496E
TR41	2SC196E
	2SC196E
TR42	2SC167E
	2SC167E
TR45	2SA733F
	2SA733

* Lead conf
/** Also avail
(1) Used in s

EL

C7
C1
C1
C1
C1
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C1

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	1N60	DG1N60	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D2	1N60	DG1N60	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D3	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D4	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D5	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D6	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D7	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D8	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D9	1N60	DG1N60	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D10	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D11	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D12	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D13	MC301	DAC301			HEPR2500	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D14	MC301	DAC301			HEPR2500				ECG610			
D15	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D16	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D17	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D18	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D19	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D20	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D21	1N60	DG1N60	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D22	1N60	DG1N60	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D23	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D24	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D25	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D26	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D27	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D28	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D29	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D30	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D31	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D32	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D33	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D34	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D35	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D36	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D37	1S2687D	DC687D			HEPR2502	REN 612	SK3100	RT-218	ECG612	TM116	WEP925	103-176
D38	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D39	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D40	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D41	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D42	1N60	DG1N60	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEP134	103-29001
D43	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D44	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D45	SR1K-2	DR2100	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
D46	MV-1Y	DVM1Y			PTC301	REN 601	SK3463		ECG601			
D47	MV-13YH	DV13YH			PTC302				ECG605			
D48	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D49	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D50	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D60	SR1K-2	DR2100	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
D61	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D62	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D65	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D67	1S1588	DS1588	GE-514	PTC214	HEPR9137	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
FET1	2SK19BL	QF19BL	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP920	121-756
	2SK19	QKS19	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP920	121-756
IC1	UHTC-007	NRC007										
IC2	MB8719	NC8719										
IC3	AN612	NBN612										
IC4	TA7222P	NA222P										
IC5	MB3756	ND3756										
IC6	S042P	NI042P										
TR1	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR2	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR3	2SC1730L	QSI730	GE-17*	PTC136*	HEPS0025*	REN 107	SK3018*	RT-107A	ECG316*	TM316*	WEP535	121-972*
	2SC1730	QSI730	GE-17*	PTC136*	HEPS0025*	REN 107	SK3018*	RT-107A	ECG316*	TM316*	WEP535	121-972*
TR4	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR5	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR6	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR7	2SA733P	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
	2SA733	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
TR8	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR9	2SC1674L	QSI674	GE-61	PTC132*	HEPS0010*	REN 229*	SK3246	RT-308	ECG229*	TM229*	WEP784	121-29021
	2SC1674	QSI674	GE-61	PTC132*	HEPS0010*	REN 229*	SK3246	RT-308	ECG229*	TM229*	WEP784	121-29021
TR10	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR11	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
TR12	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-79021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-79021
TR13	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR14	2SA733P	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
	2SA733	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
TR15	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR16	2SC1730L	QSI730	GE-17*	PTC136*	HEPS0025*	REN 107	SK3018*	RT-107A	ECG316*	TM316*	WEP535	121-972*
	2SC1730	QSI730	GE-17*	PTC136*	HEPS0025*	REN 107	SK3018*	RT-107A	ECG316*	TM316*	WEP535	121-972*
TR17	2SC1674L	QSI674	GE-61	PTC132*	HEPS0010*	REN 229*	SK3246	RT-308	ECG229*	TM229*	WEP784	121-29021
	2SC1674	QSI674	GE-61	PTC132*	HEPS0010*	REN 229*	SK3246	RT-308	ECG229*	TM229*	WEP784	121-29021
TR18	2SC1674L	QSI674	GE-61	PTC132*	HEPS0010*	REN 229*	SK3246	RT-308	ECG229*	TM229*	WEP784	121-29021
	2SC1674	QSI674	GE-61	PTC132*	HEPS0010*	REN 229*	SK3246	RT-308	ECG229*	TM229*	WEP784	121-29021
TR19	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR20	2SC145AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR21	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR22	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR23	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR24	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR25	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR26	2SC496-0	QSC496	GE-57	PTC163	HEPS5000	REN 295	SK3253	RT-162	ECG295	TM295/**	WEP913	121-29002
	2SC496	QSC496	GE-57	PTC163	HEPS5000	REN 295	SK3253	RT-162	ECG295	TM295/**	WEP913	121-29002
TR27	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR28	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR29	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
TR30	2SA733P	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
	2SA733	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
TR31	2SA733P	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
	2SA733	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
TR33	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR34	2SC1419C	QSI419	GE-66	PTC167	HEPS5027	REN 152	SK3054	RT-197	ECG152	TM152	WEP745	121-987-02
	2SC1419	QSI419	GE-66	PTC167	HEPS5027	REN 152	SK3054	RT-197	ECG152	TM152	WEP745	121-987-02
TR35	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR36	2SC458C	QSC458	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458	QSC458	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
TR37	2SC945AQ	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QSC945	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
TR38	2SC1973	QSI973	GE-335	PTC186		REN 235	SK3197	RT-146	ECG315	TM315	WEP914	921-1008
TR39	2SC1306	QSI306	GE-215	PTC186		REN 235	SK3197	RT-146	ECG315	TM235/**	WEP785	121-29039
TR40	2SC496-0	QSC496	GE-57	PTC163	HEPS5000	REN 295	SK3253	RT-162	ECG295	TM295/**	WEP913	121-29002
	2SC496	QSC496	GE-57	PTC163	HEPS5000	REN 295	SK3253	RT-162	ECG295	TM295/**	WEP913	121-29002
TR41	2SC1969B	QSI969	GE-216	PTC186		REN 236	SK3197	RT-158	ECG236	TM236	WEP840	121-29040
	2SC1969	QSI969	GE-216	PTC186		REN 236	SK3197	RT-158	ECG236	TM236	WEP840	121-29040
TR42	2SC1675L	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
	2SC1675	QSI675	GE-213	PTC132*	HEPS0025*	REN 229*	SK3122	RT-308	ECG229*	TM229*	WEP773	121-29021
TR45	2SA733P	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952
	2SA733	QTA733	GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP911	121-952

ROBYN MODEL SB-505D

* Lead configuration may vary from original.
/** Also available as exact type replacement.
(1) Used in some versions.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C7	.22 25V			TDC224M050EL	QDT1-10	SD50-R229
C13	.1 25V			TDC104M050EL	QDT1-2	SD50-R109
C15	2.2 25V		PC2-100	VTT2R2A50	QV1-19	EV-1517
C16	2.2 25V			TDC225M035FL	QDT1-31	SD35-2R29
C17	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C19	.22 25V			TDC224M050EL	QDT1-10	SD50-R229
C24	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C26	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C27	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C59	1 25V			TDC105M035EL		SD35-19
C62	2.2 25V			TDC225M035FL		SD35-2R29
C63	2.2 25V			TDC225M035FL		SD35-2R29
C66	1000 10V		PC1000-16	VTT1000L10	QV1-179	EV-1160
C72	4.7 10V			TDC475M010EL	QDT1-48	SD10-4R79
C73	4.7 25V		PC5-50	VTT47R50	QV1-27	EV-1319
C79	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C83	2.2 25V		PC2-100	VTT2R2A50	QV1-19	EV-1517
C84	22 6.3V			TDC226M015FL	QDT1-82	SD15-229
C90	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C92	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C107	220 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C108	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C109	22 6.3V			TDC226M015FL	QDT1-82	SD15-229
C112	4.7 25V		PC5-50	VTT47R50	QV1-27	EV-1319
C113	22 6.4V			TDC226M015FL	QDT1-82	SD15-229
C114	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C117	10 25V	(1)	PC10-25	VTT10B25	QV1-43	EV-1322
C118	470 10V		PC500-16	VTT470K16	QV1-149	EV-1150
C119	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C120	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C121	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C133	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C134	1000 25V		WBR1000-25*	VTT1000M25	QV1-185	EV-1360
C142	.47 50V		PC1-50	VTT47A63	QV1-3	EV-1610
C146	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C162	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C164	10 25V		PC10-25	VTT10B25	QV1-43	EV-1322
C169	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C180	22 10V		PC25-25	VTT22B16	QV1-55	EV-1224
C191	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C193	1 25V			TDC105M035EL		SD35-19
C198	.47					
C215	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226

* Axial replacement for radial device.

(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.	
						Q-LINE	GENERAL LINE
C1	.022 50V		DC-253	MGP025	TA125		TG-S25
C2	.022 50V		DC-253	MGP025	TA125		TG-S25
C3	.001 50V		DD-102		GP210		10TS-D10
C4	.022 50V		DC-253	MGP025	TA125		TG-S25
C5	.022 50V		DC-253	MGP025	TA125		TG-S25
	.001 50V		DD-102		GP210		10TS-D10
C6	.022 50V		DC-253	MGP025	TA125		TG-S25
C8	82 NPO 50V 5%		DTZ-82	NP082	CN0482		10TCC-Q82
C9	.001 50V		DD-102		GP210		10TS-D10
C10	100 N220 50V			*	*	*	10TCR-T10
C11	.022 50V		DC-253	MGP025	TA125		TG-S25
C12	.022 50V		DC-253	MGP025	TA125		TG-S25
C14	.022 50V		DC-253	MGP025	TA125		TG-S25
C18	.022 50V		DC-253	MGP025	TA125		TG-S25
C20	.022 50V		DC-253	MGP025	TA125		TG-S25
C21	5 NPO 50V			*	*	*	10TCC-V50
C22	3 NPO 50V		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C23	3 NPO 50V		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C25	.047 50V 10%			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C28	.1 50V 10%			WMF05P1	M192P1049R8	QFT2-215	1FT-P10
C29	12 NPO 50V				CN0412		10TCC-Q12
C30	.001 50V		DD-102		GP210		10TS-D10
C31	.001 50V		DD-102		GP210		10TS-D10
C32	.001 50V		DD-102		GP210		10TS-D10
C33	.0047 50V		DD-472	GP4700	GP247		56A-D47
C34	.001 50V		DD-102		GP210		10TS-D10
C35	.0047 50V		DD-472	GP4700	GP247		56A-D47
C36	4 NPO 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C37	.0047 50V		DD-472	GP4700	GP247		56A-D47
C38	2 NPO 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C39	.001 50V		DD-102		GP210		10TS-D10
C40	.001 50V		DD-102		GP210		10TS-D10
C41	.001 50V		DD-102		GP210		10TS-D10
C42	2 NPO 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C43	33 NPO 50V 5%		DTZ-33	NP033	CN0433		10TCC-Q33
C44	2 NPO 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C45	.022 50V		DC-253	MGP025	TA125		TG-S25
C46	.022 50V		DC-253	MGP025	TA125		TG-S25
C47	.022 50V		DC-253	MGP025	TA125		TG-S25
C48	.01 50V		UK50-103		MAG5011		
C49	.022 50V		DC-253	MGP025	TA125		TG-S25
C50	.022 50V		DC-253	MGP025	TA125		TG-S25
C51	.022 50V		DC-253	MGP025	TA125		TG-S25
C52	.022 50V		DC-253	MGP025	TA125		TG-S25
C55	.022 50V 10%			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C56	.022 50V		DC-253	MGP025	TA125		TG-S25
C57	27 NPO 50V 5%				CN0427		10TCC-Q27
C58	.001 50V 10%			DPMS6D1	M192P10292	QFT2-1	1FT-D10
C60	.01 50V		UK50-103		MAG5011		
C61	.1 50V 10%			WMF05P1	M192P1049R8	QFT2-215	1FT-P10
C64	18 NPO 50V				CN0418		10TCC-Q18
C65	10 NPO 50V				CN0410		10TCC-Q10
C67	.01 50V		UK50-103		MAG5011		
C68	.022 50V		DC-253	MGP025	TA125		TG-S25
C69	47 NPO 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C70	47 NPO 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C71	.047 50V 10%			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C74	.01 50V		UK50-103		MAG5011		
C75	.01 50V		UK50-103		MAG5011		
C76	15 NPO 50V 5%		DTZ-15	NP015	CN0415		10TCC-Q15
C77	.01 50V		UK50-103		MAG5011		
C78	.01 50V		UK50-103		MAG5011		
C80	4 NPO 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C81	270 N750 50V 10%						
C82	.0068 50V 10%			WMF1D68	M192P6829R8	QFT2-73	1FT-D68
C85	.0033 50V 10%			WMF1D33	M192P3329R8	QFT2-43	1FT-D33
C86	.0068 50V 10%			WMF1D68	M192P6829R8	QFT2-73	1FT-D68
C87	.022 50V		DC-253	MGP025	TA125		TG-S25
	.01 50V 10%			WMF1S1	M192P1039R8	QFT2-91	1FT-S10
C88	.047 50V			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C89	.01 50V 10%			WMF1S1	M192P1039R8	QFT2-91	1FT-S10
C91	.001 50V 10%			DPMS6D1	M192P10292	QFT2-1	1FT-D10
C93	.0022 50V			DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C94	.01 50V 10%			WMF1S1	M192P1039R8	QFT2-91	1FT-S10
C95	.01 50V		UK50-103		MAG5011		
C98	.001 50V		UK50-103		MAG5011		
C99	.01 50V		DD-102		GP210		10TS-D10
C100	.01 50V		UK50-103		MAG5011		
C101	.01 50V		UK50-103		MAG5011		
C102	470 50V		DD-471	GP470	GP347		10TS-T47
C103	100 NPO 50V 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C104	.01 50V		UK50-103		MAG5011		
C105	18 NPO 50V 5%				CN0418		10TCC-Q18
C106	10 NPO 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C110	.01 50V		UK50-103		MAG5011		
C111	.1 50V 10%			WMF05P1	M192P1049R8	QFT2-215	1FT-P10
C115	.022 50V 10%			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C116	.001 50V 10%			DPMS6D1	M192P10292	QFT2-1	1FT-D10
C122	.1 50V 10%			WMF05P1	M192P1049R8	QFT2-215	1FT-P10
C123	.01 50V		UK50-103		MAG5011		
C124	.01 50V		UK50-103		MAG5011		
C125	.01 50V		UK50-103		MAG5011		
C126	10 NPO 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C127	220 50V		DTZ-220				10TCC-T22
C128	470 50V		DD-471	GP470	GP347		10TS-T47
C129	.01 50V		UK50-103		MAG5011		
C130	.01 50V		UK50-103		MAG5011		
C131	.01 50V		UK50-103		MAG5011		
C135	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C136	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C137	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C138	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C139	1 NPO 50V				CN0510		10TCC-V10
C140	10 NPO 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C141	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C143	68 NPO 50V 5%		DTZ-68	NP068	CN0468		10TCC-Q68
C144	39 NPO 50V 5%				CN0439		10TCC-Q39
C145	180 N220 50V 10%			*	*	*	10TCR-T18
C147	1 NPO 50V				CN0510		10TCC-V10
C148	390 N750 50V 10%		DTN-390				10TCU-T39
C149	330 N750 50V 5%		DTN-330	N330	CN7333		10TCU-T33
C150	.1 50V 10%			WMF05P1	M192P1049R8	QFT2-215	1FT-P10
C151	470 N750 50V 5%		DTN-470				10TCU-T47
C152	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C153	.1 50V 10%			WMF05P1	M192P1049R8	QFT2-215	1FT-P10
C154	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C155	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C156	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C157	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C158	47 NPO 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C159	330 N750 50V 5%		DTN-330	N330	CN7333		10TCU-T33
C160	2 NPO 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C161	.01 50V 10%			WMF1S1	M192P1039R8	QFT2-91	1FT-S10
C163	120 N220 50V 10%			*	*	*	10TCR-T12
C165	.001 50V		DD-102		GP210		10TS-D10
C166	.022 50V		DC-253	MGP025	TA125		TG-S25
C167	.022 50V		DC-253	MGP025	TA125		TG-S25
C168	.047 50V			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C170	100 50V		DTZ-100	NP0100	CN0310		10TCC-T10
C171	56 NPO 50V 5%				CN0456		10TCC-Q56
C172	.001 50V		DD-102		GP210		10TS-D10
C173	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C174	220 N750 50V 10%		DTN-220	N220	CN7322		10TCU-T22
C175	33 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C176	.001 50V		DD-102		GP210		10TS-D10
C177	.022 50V		DC-253	MGP025	TA125		TG-S25
C178	.001 50V		DD-102		GP210		10TS-D10
C181	.01 50V		UK50-103		MAG5011		
C182	.047 50V		UK50-503		MAG5015		
C189	.01 50V		UK50-103		MAG5011		
C190	.047 50V 10%			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C192	.001 50V		DD-102		GP210		10TS-D10
C195	47 NPO 50V 10%		DTZ-47	NP047	CN0447		10TCC-Q47
C196	.01 50V		UK50-103		MAG5011		
C197	.0047 50V			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C202	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C203	.0047 50V		DD-472	GP4700	GP247		5GA-D47
	.022 50V		DC-253	MGP025	TA125		TG-S25
C204	.01 50V		UK50-103		MAG5011		
C205	.01 50V		UK50-103		MAG5011		
	.047 50V		UK50-503		MAG5015		
C206	.022 50V		DC-253	MGP025	TA125		TG-S25
C207	.1 50V		CK-104		MAG5001		
C208	.022 50V		DC-253	MGP025	TA125		TG-S25
C212	.01 50V		UK50-103		MAG5011		
C213	.1 50V 10%			WMF05P1	M192P1049R8	QFT2-215	1FT-P10
C214	.047 50V 10%			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C401	.001 50V						
C402	.022 50V		DC-253	MGP025	TA125		TG-S25
C404	.001 50V		CY15C102M	FA102K03	SM210	QFT2-1	1FT-D10
C405	.001 50V		CY15C102M	FA102K03	SM210	QFT2-1	1FT-D10
C406	.001 50V		CY15C102M	FA102K03	SM210	QFT2-1	1FT-D10
C407	.001 50V		CY15C102M	FA102K03	SM210	QFT2-1	1FT-D10
C415	.001 50V		CY15C102M	FA102K03	SM210	QFT2-1	1FT-D10
C416	.001 50V		CY15C102M	FA102K03	SM210	QFT2-1	1FT-D10
C427	.001 50V		CY15C102M	FA102K03	SM210	QFT2-1	1FT-D10

ROBYN MODEL SB-505D

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
CT1	20	510055				
CT2	20	510055				
CT3	20	510055				
CC1		NN0111 (1)				

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

(1) Consists of three capacitors.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFG. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR1	Sig Meter	10K	RS1033			U260R103B
VR2	Squelch Range	1000	RS1023			U260R102B
VR3	XMT Frequency	3000	RS3023			U260R502B
VR5	Carrier Balance	10K	RS1033			U260R103B
VR6	AM Power	5000	RS5023			U260R502B
VR7	RF ALC	10K	RS1033			U260R103B
VR8	RF Driver Bias	500	RS5013			U260R501B
VR9	RF Final Bias	5000	RS5023			U260R502B
VR10	TX Power Meter	100K	RS1043			U260R104B
VR200	F. Tune/Clarifier	20K	505020	B16-125		
VR401	Squelch	100K	520015			
VR402	Tone/Dim Switch	10K	505023	(18)		
VR402	Clarifier	20K	505020			
VR403	Volume/Power Switch	10K	520016			
VR404	RF Gain/NB Switch	10K	505022			
VR405	Mic Gain	1000	505021			

(18) Early Versions.

(19) Late Versions.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Noise Blanker	LL0051	LA-038	CBS512-7TC	
L2	Noise Blanker	LL0057	LA-179		
L3	AM IF (7.8MHz)	LL0168	LA-255		
L4	IF Amp (7.8MHz)	LL0176	LA-263		
L5	Mixer (7.8MHz)	LL0175	LA-262		
L6	Mixer (7.8MHz)	LL0170	LA-257		
L7	Mixer (7.8MHz)	LL0171	LA-258		
L8	Rec Mixer (27MHz)	LL0172	LA-259		
L9	RF Amp (27MHz)	LL0173	LA-260		
L10	Rec RF (27MHz)	LL0174	LA-261		
L11	RF Choke (470uH)	LL0072	LZ-012		
L12	Pi Filter (100uH)	LL0071	LZ-012		
L13	PLL	LL0162	LA-216		
L14	VCO (34MHz)	LL0060	LA-195		
L15	RF Choke (470uH)	LL0072	LZ-012		
L16	RF Choke (470uH)	LL0072	LZ-012		
L17	Carrier Shift (7.8MHz)	LL0163	LA-217		
L18	RF Choke	LL0169	LA-256		
L19	Oscillator (34.9825MHz)	LL0163	LA-217		
L20	Oscillator (34.9850MHz)	LL0164	LA-218		
L21	RF Choke (470uH)	LL0072	LZ-012		
L22	RF Choke (470uH)	LL0072	LZ-012		
L23	RF Choke (470uH)	LL0072	LZ-012		
L24	RF Choke (470uH)	LL0072	LZ-012		
L25	RF Choke (100uH)	LL0071	LZ-012		
L26	IF (7.8MHz)	LL0165	LA-219		
L27	XMT Mixer (35MHz)	LL0161	LA-160		
L28	Predriver (27MHz)	LL0166	LA-220		
L29	Predriver (27MHz)	LL0167	LA-254		
L30	XMT Drive (27MHz)	LL0178	LD-096		
L33	RF Choke	LL0179	LD-098		
L35	RF Choke	LL0179	LD-098		
L36	Loading Final (27MHz)	LL0062	LC-019	CB305	
L37	Pi Filter (27MHz)	LL0069	LE-051		
L38	Antenna Matching (27MHz)	LL0069	LE-051		
L39	Trap (54MHz)	LL0062	LC-019	CB305	
L401	RF Choke	LL0063	LD-013		
L402	RF Choke	LL0063	LD-013		
L403	RF Choke	LL0098	LD-089		

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFG. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	2.8A	.194	2.25mH	505045 TF-151(1) TF-147(2)			(1) Number on unit. (2) Used in some versions.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP401	3 1/2" PM, 8 Ohms	505040		

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F401	4A Quick Acting	505027 FS012(1)		MTH-4	H0J	312004	150145

(1) Number on unit.

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	505036				18-094	1	2	5	3	NC	4	

MIC includes Remote Fine Tune/Clarifier Control.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
D401	LED	DNR321	Channel Readout (1.99V @ 5.8mA each segment)
D402	LED	OLR124	Red (2V @ 15mA)
D405	LED	OPG24A	
FT1	Filter	505025	7.8MHz
FT2	Filter	505025	7.8MHz
J401	Jack	505039	PA Speaker
J402	Jack	505039	Extension Speaker
J403	Jack	500020	DC Power
J404	Jack	410010	Microphone
J405	Jack	510045	Antenna
L31	Ferrite Bead	LL0177	
L32	Ferrite Bead	LL0180	
L34	Ferrite Bead	LL0177	
L50	Ferrite Bead	LL0068	
L51	Ferrite Bead	LL0068	
L52	Ferrite Bead	LL0068	
L53	Ferrite Bead	LL0068	
L404	Ferrite Bead	LL0068	
L405	Ferrite Bead	LL0068	
M401	Meter	505035	S/R/PWR
PL1	Lamp	510010	Meter (10.39V @ 32mA)
S401	Switch	505041	Channel Selector
S403	Switch	505042	AM/LSB/USB/PA
X1	Crystal	XQ2400	10.24MHz
X2	Crystal	XA8025	7.8025MHz
X3	Crystal	XA7975	7.7975MHz
X4	Crystal	XE1125	11.1125MHz
	Printed Circuit Board	505002	Main
	Printed Circuit Board	505004	Channel Selector Switch
	Printed Circuit Board	505001	LED Channel Display
	Printed Circuit Board	505003	Mic Jack

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

ITEM	PART No.	ITEM	PART No.
Chassis, Front	505018	Knob, VR	510030
Cover, Bottom	505016	Mounting Bracket	505011
Cover, Top	505017	Panel Front, Chrome	505026
Knob, Channel Selector	510029	Panel Front, Face	505024

ROBYN MODEL SB-505D