



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 "T" Bear

MANUFACTURER'S SPECIFICATIONS

GENERAL

Channels	40
Frequency Range	26.965 MHz to 27.405 MHz
Frequency Control	PLL Synthesized
Antenna Impedance	50 ohm
Power Input	13.8V DC
Accessories	DC Power Cord, Detachable Dynamic Microphone, Microphone Hanger

TRANSMITTER

Output Power	4 watts
Emission Type	6A3
Hum and Noise	Better than -60 dB
Frequency Tolerance	0.003%
Modulation Percentage (Peak)	100%

RECEIVER

Sensitivity at 10 dB S + N/N	1.0 μ V
Sensitivity for 500 mW Audio Output	0.5 μ V
Squelch Threshold	1.0 μ V
Squelch Deepest Point	500 μ V
"S" Meter S-9	50 μ V
Maximum AF Output Power	4 watts
AF Output Power/10% Distortion	3 watts
Selectivity BW @ 6 dB Down	-60 dB
Image Rejection	-50 dB
Speaker Impedance	8 ohms

PUBLIC ADDRESS

Output Power @ 10% Distortion	3 watts
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Courtesy of the Manufacturer

TEABERRY MODEL "T" BEAR

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

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Printed in U. S. of America 7CE642

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.
 Suggested Alignment Tools: GC ELECTRONICS
 L6, L7, L8, L10, L11, L12, L15 5009
 L1, L2, L3, L4, L5, L16, L17, L18, L20, L21, L24, L27, L28 9440

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope to TP1.	Ch. 19	L5	Adjust for maximum.
Input of frequency counter to TP1.	Ch. 19		Check for 10.240MHz.
Input of DC meter to TP5.	Ch. 19	L20	Adjust for 3.0 volts.
Input of oscilloscope to TP6.	Ch. 19	L21	Adjust for maximum.
Input of frequency counter to TP6.	Ch. 19	L24	Adjust for 37.880MHz.

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	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP10. (Base of TR3). 455kHz, 1000Hz @ 30% modulation.	Ch. 19 RF Gain - Maximum Squelch - Min	L8, L7, L6	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	L4, L3, L2, L1	Adjust for maximum output. It may be necessary to readjust L6, L7, and L8.
Output of signal generator thru .01uF to antenna jack. 23.5MHz unmodulated. Input of RF VTVM to TP7.	Ch. 19	L28, L27	Adjust for maximum.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output .9uV.	Ch. 19 RF Gain - Maximum Volume - Maximum Squelch - Min ANL - Off	VR2	AGC Adjust VR2 for 2 volts audio.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 500uV.	Ch. 19	VR3	SQUELCH RANGE Set squelch control VR302 fully clockwise. Adjust VR3 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19	VR1	S METER Adjust for 9 on S scale of meter.

TEABERRY MODEL "T" BEAR

TRANSMITTER ALIGNMENT

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector at all times.

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

See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope to TP3.	Ch. 19	L18, L17	Adjust for maximum.
	Ch. 19	L16, L15, L12, L11	Adjust for maximum.
	Ch. 19	L12	Adjust for 3.8 watts.
Tunable field strength meter set at 54MHz.	Ch. 19	L10	Adjust for MINIMUM signal.

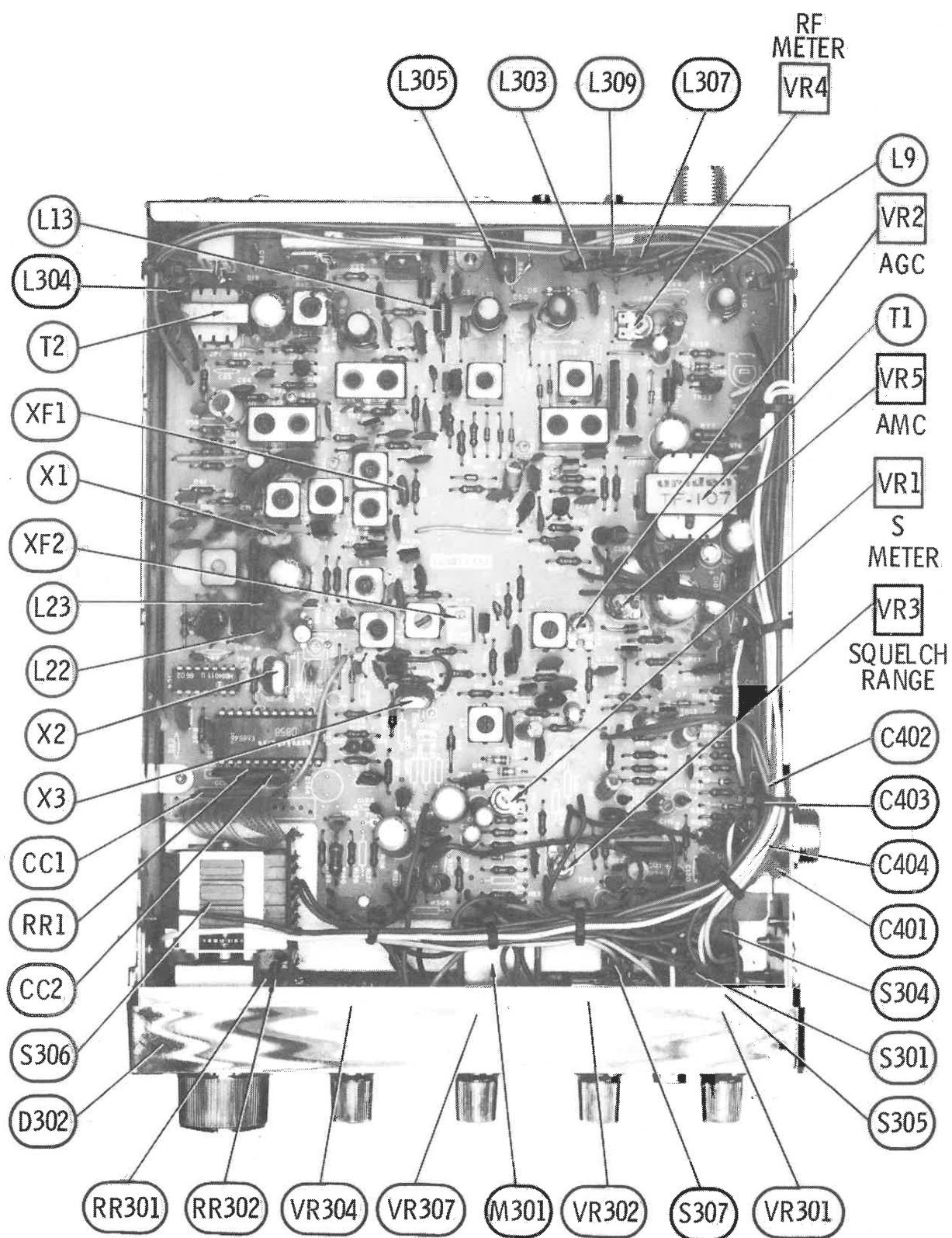
TRANSMITTER ADJUSTMENTS

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector at all times.

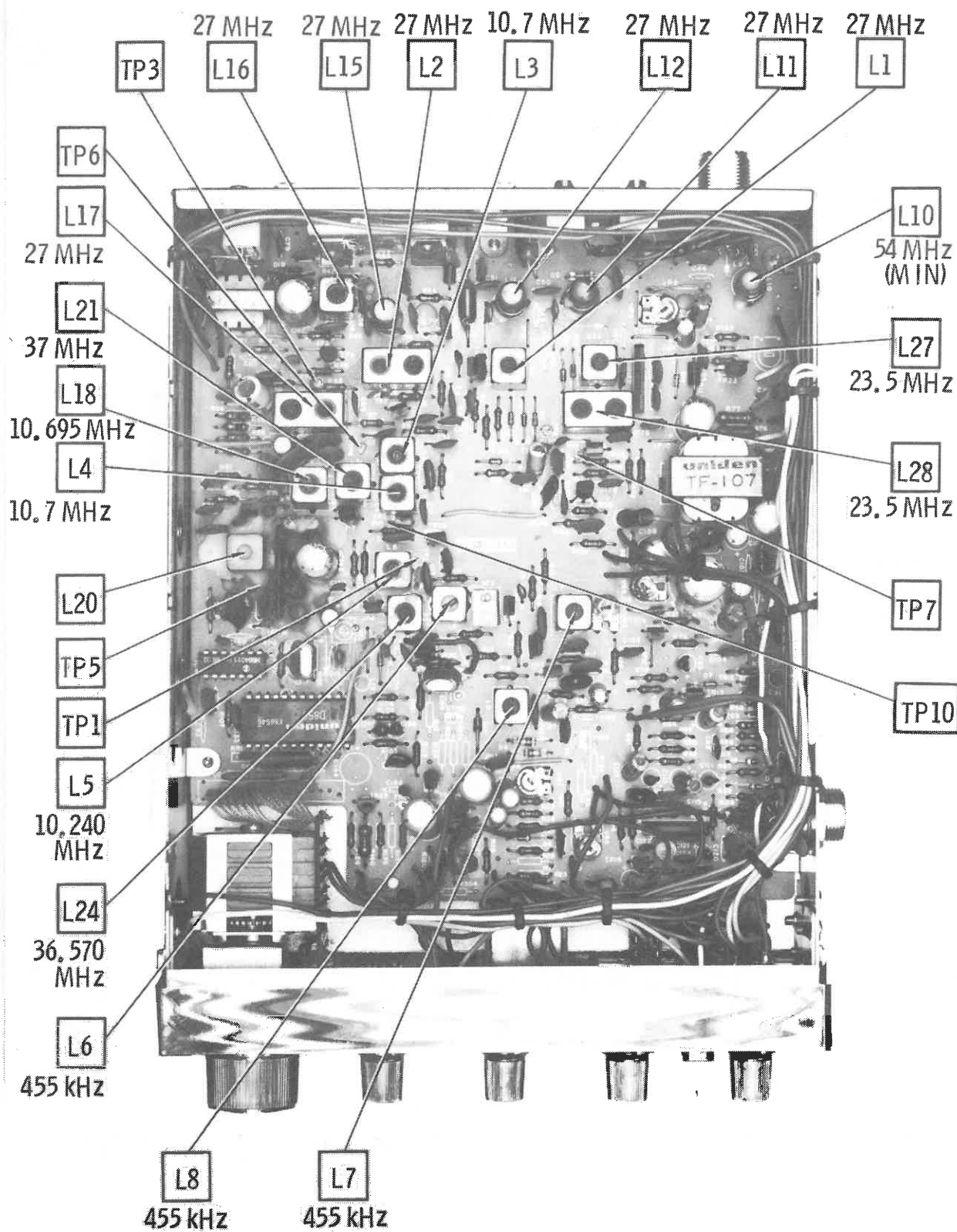
NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.

See page 4 for channel frequencies.

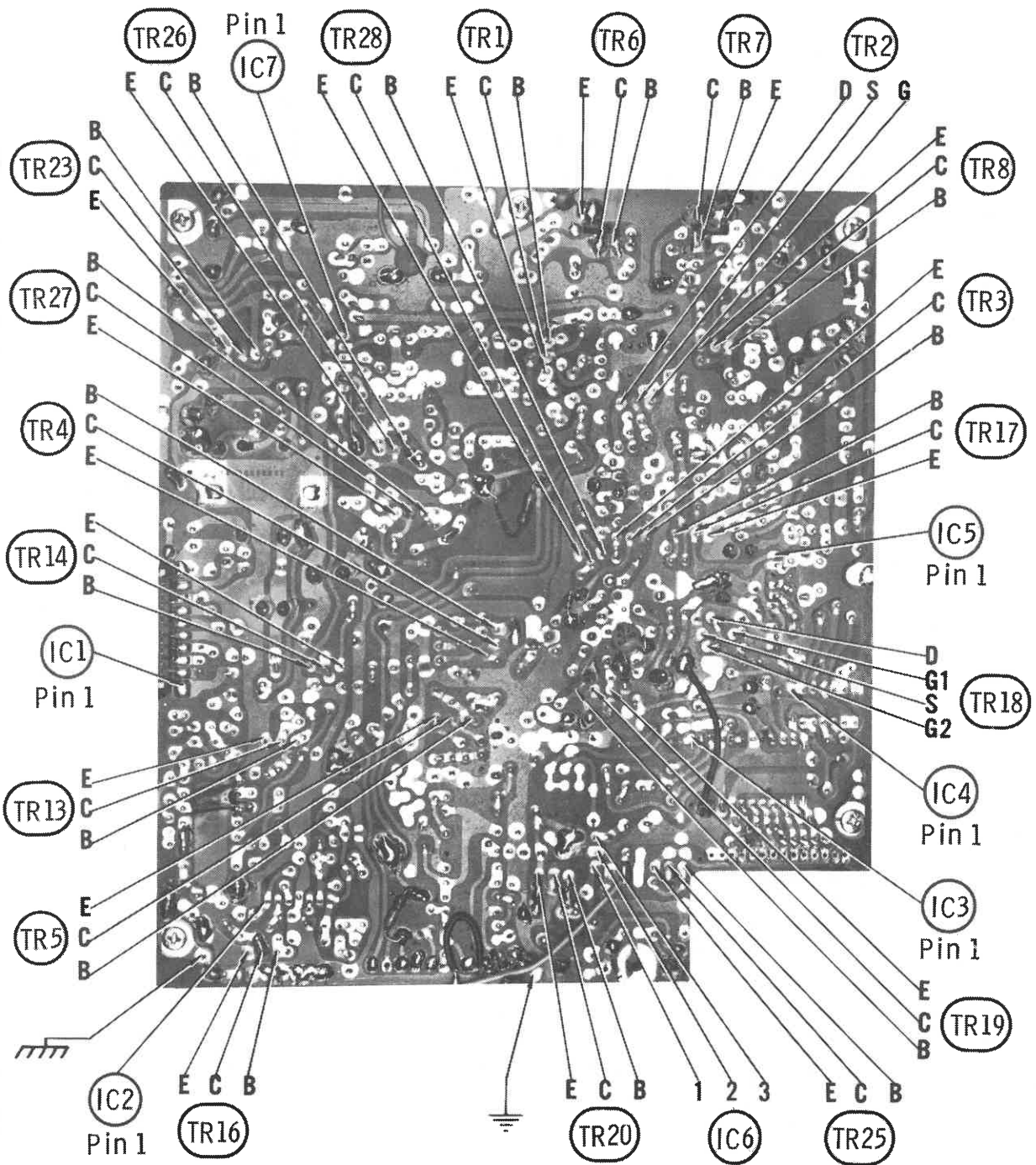
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 1000Hz 10mV signal at mic input.	Ch. 19 Mic Gain - Maximum	VR5	AMC Adjust VR5 for 95% modulation.
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.	Ch. 19	VR4	RF PANEL METER Adjust VR4 so that RF panel meter agrees with RF wattmeter.



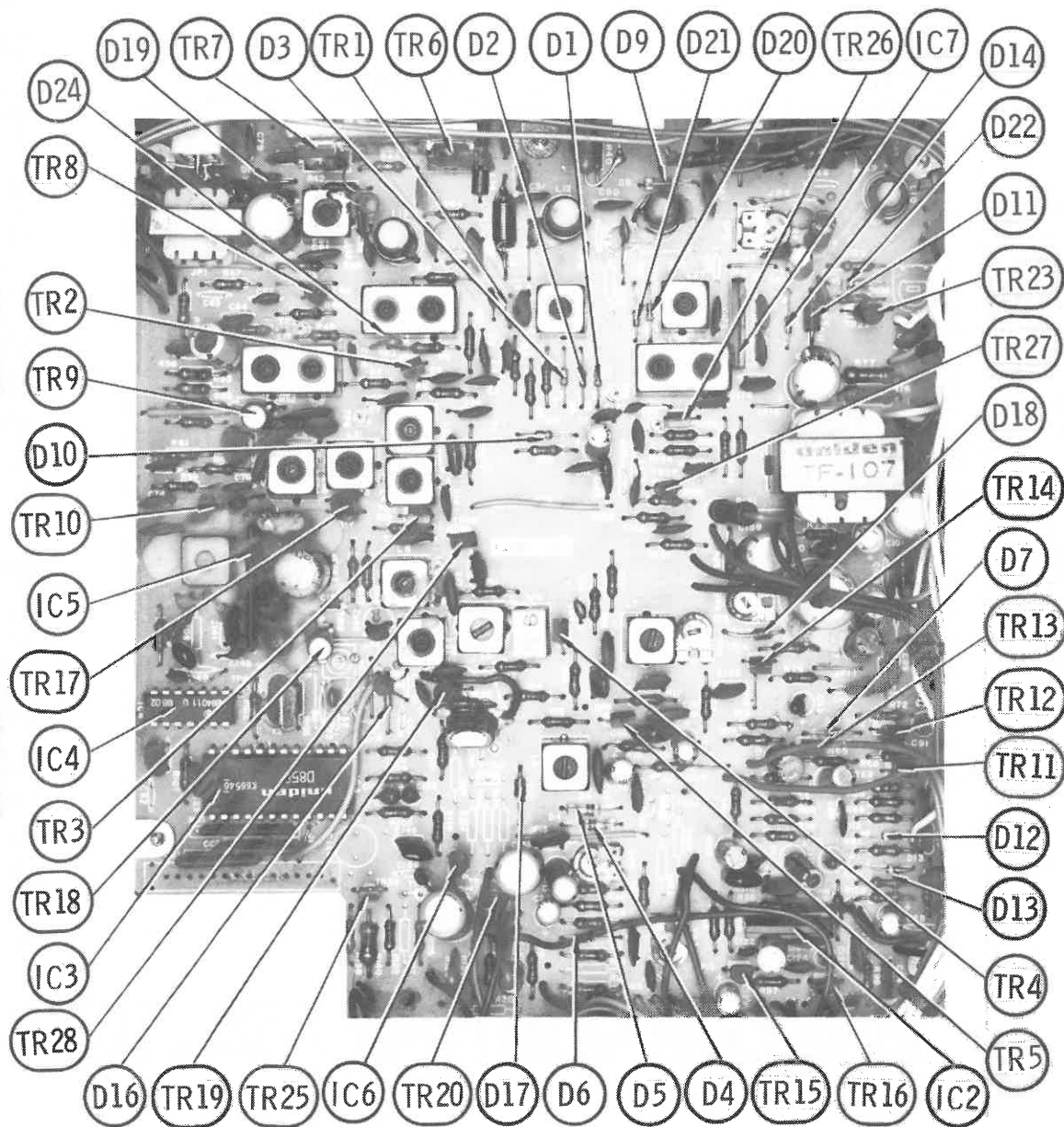
CHASSIS - BOTTOM



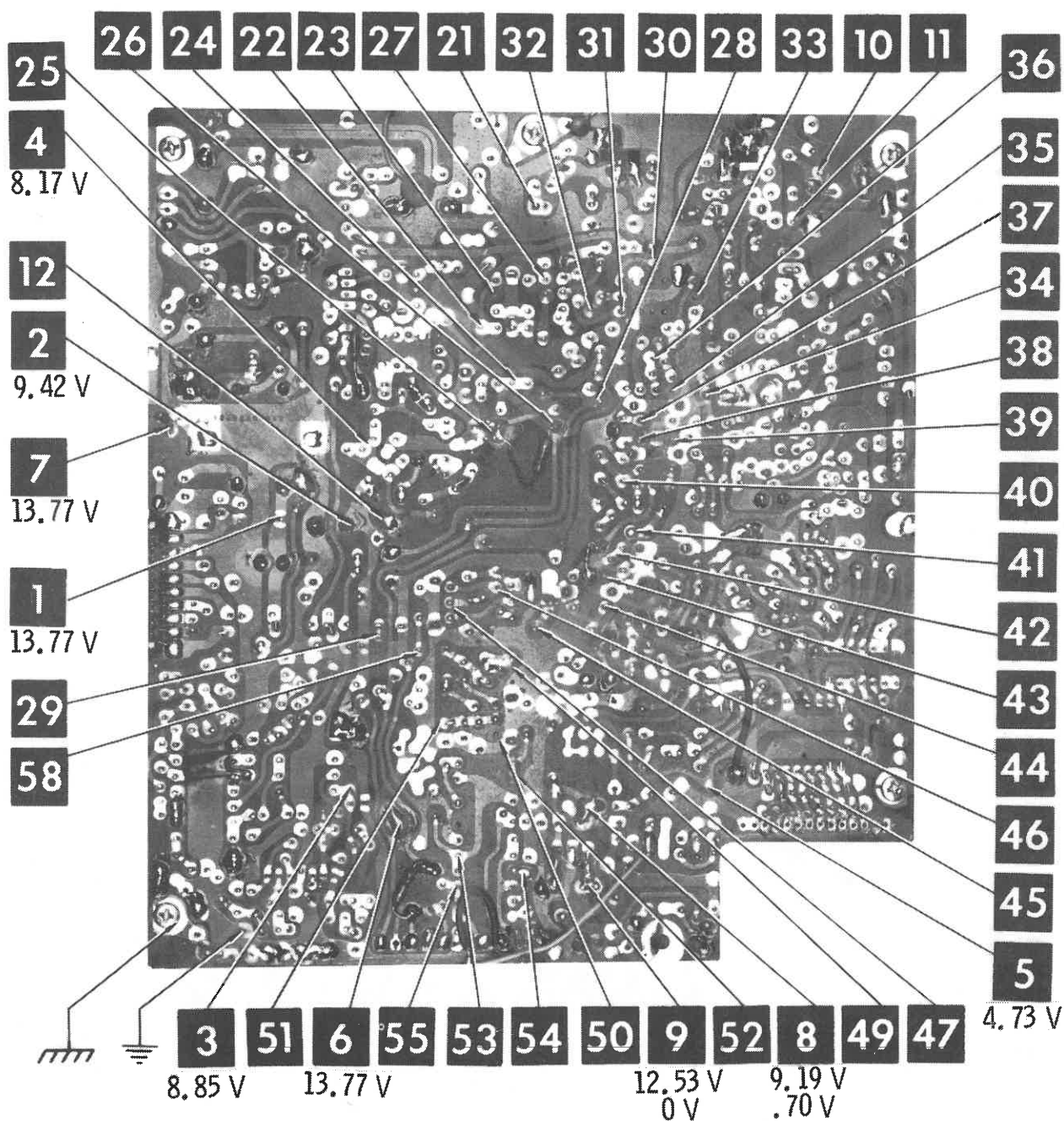
CHASSIS - BOTTOM



MAIN BOARD

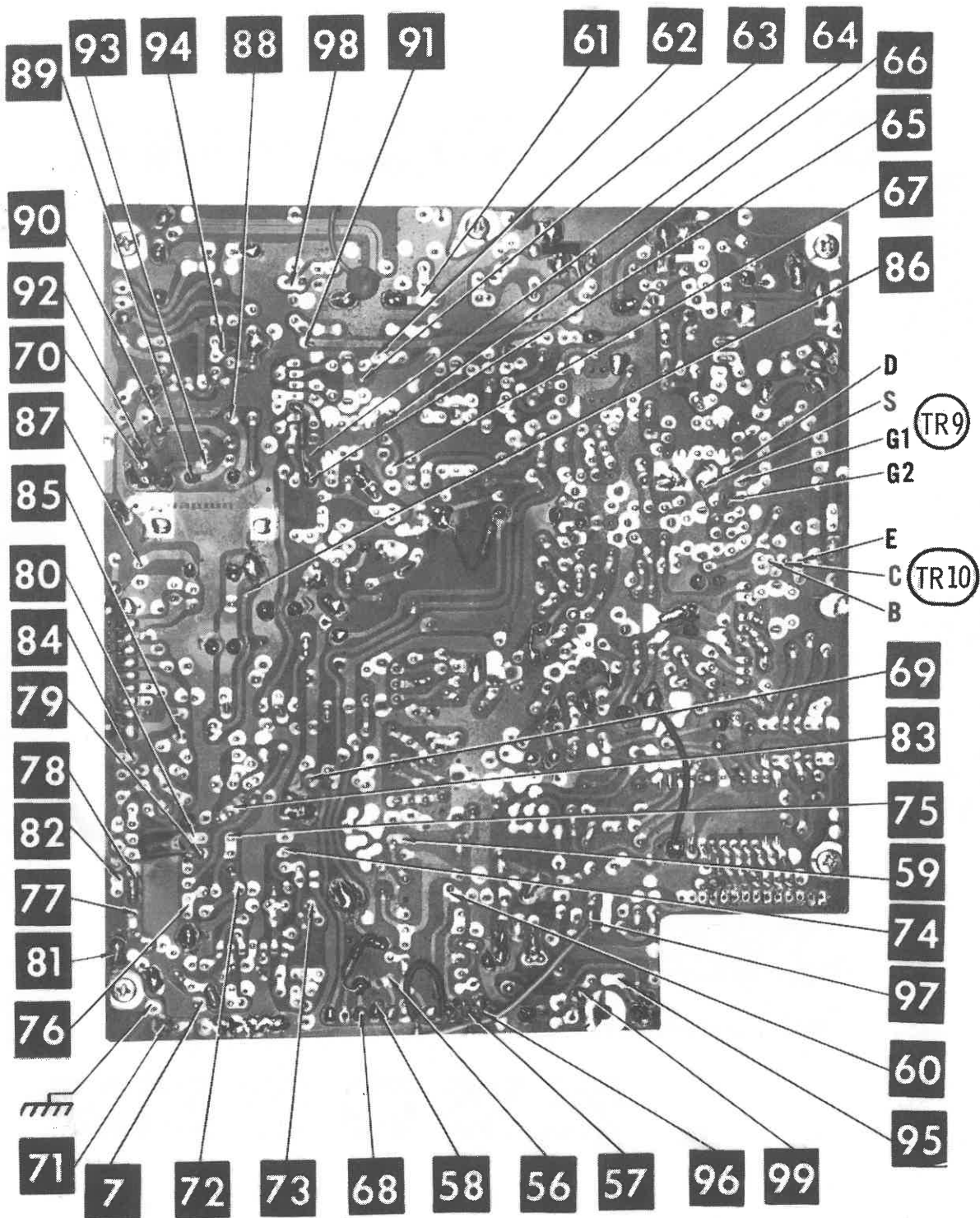


MAIN BOARD



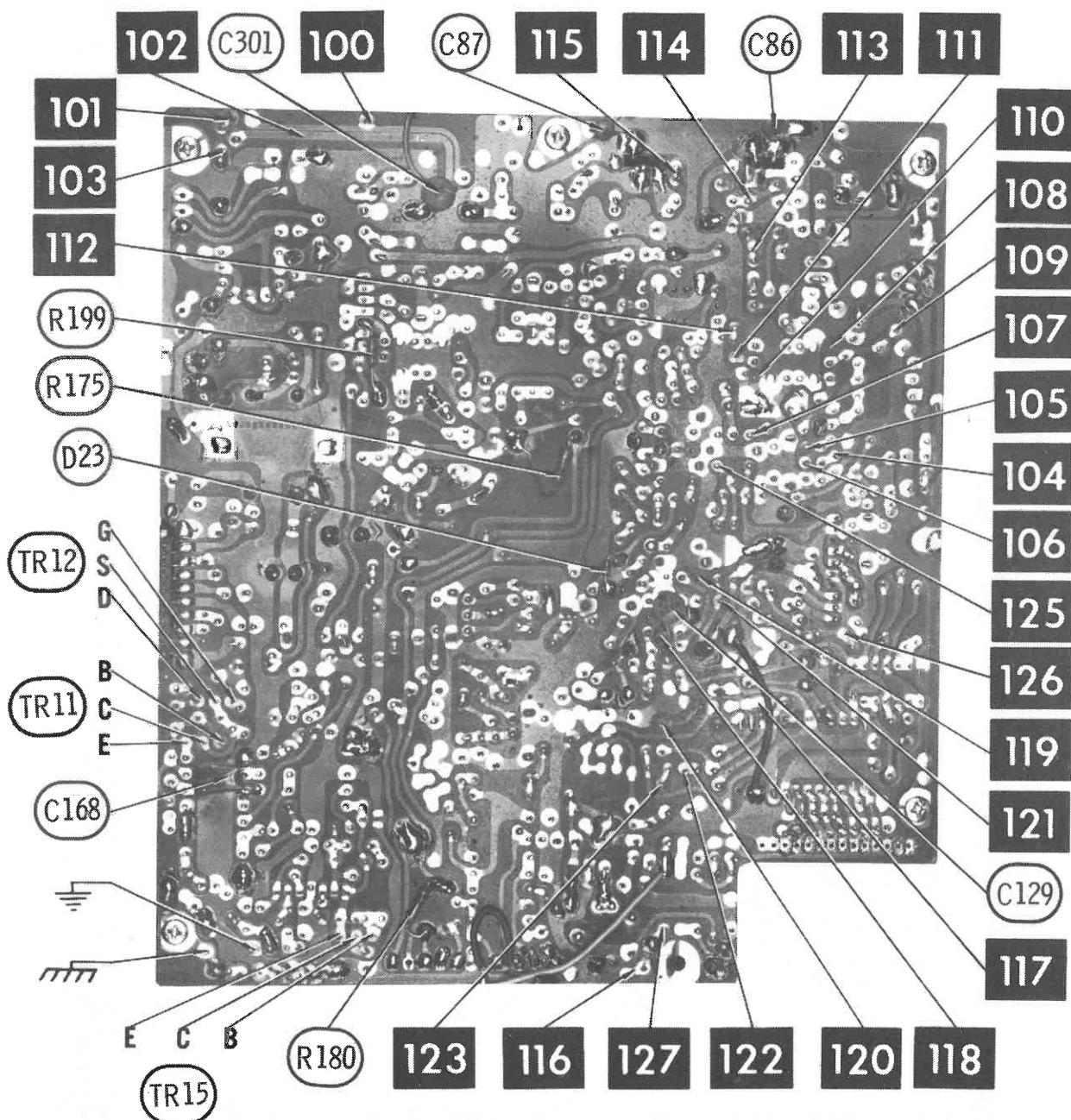
● TRANSMIT

MAIN BOARD

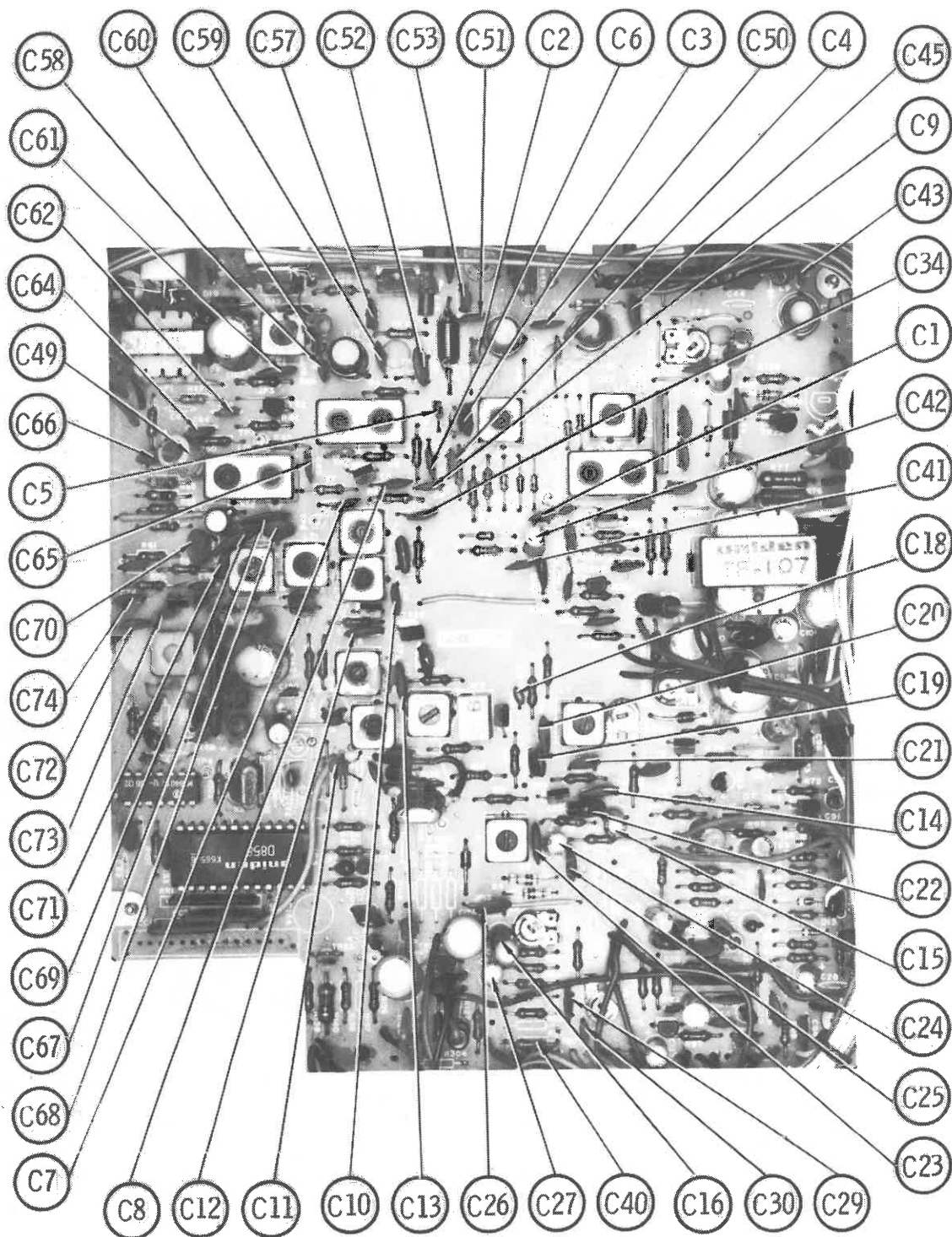


TEABERRY MODEL "T" BEAR

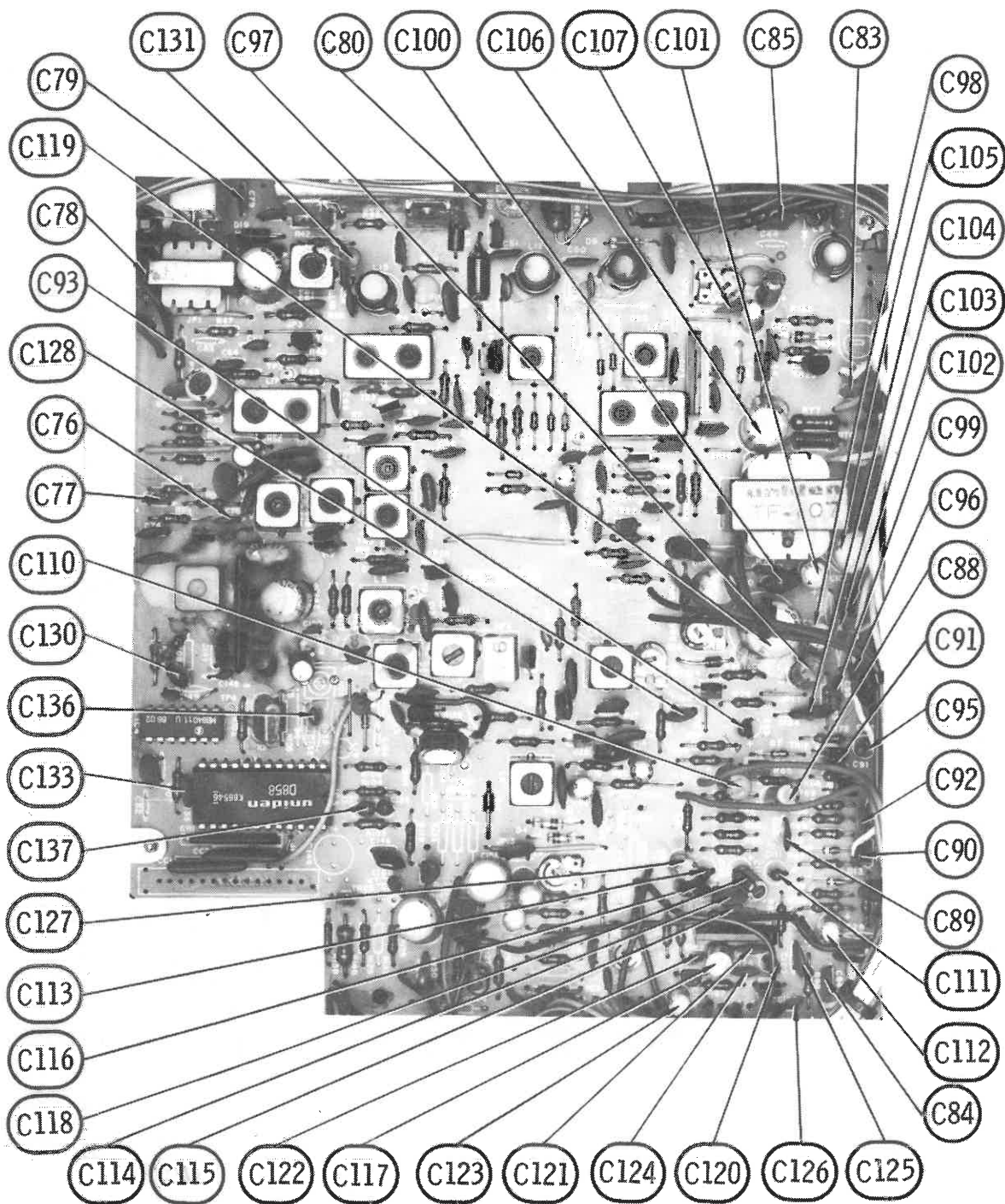
MAIN BOARD



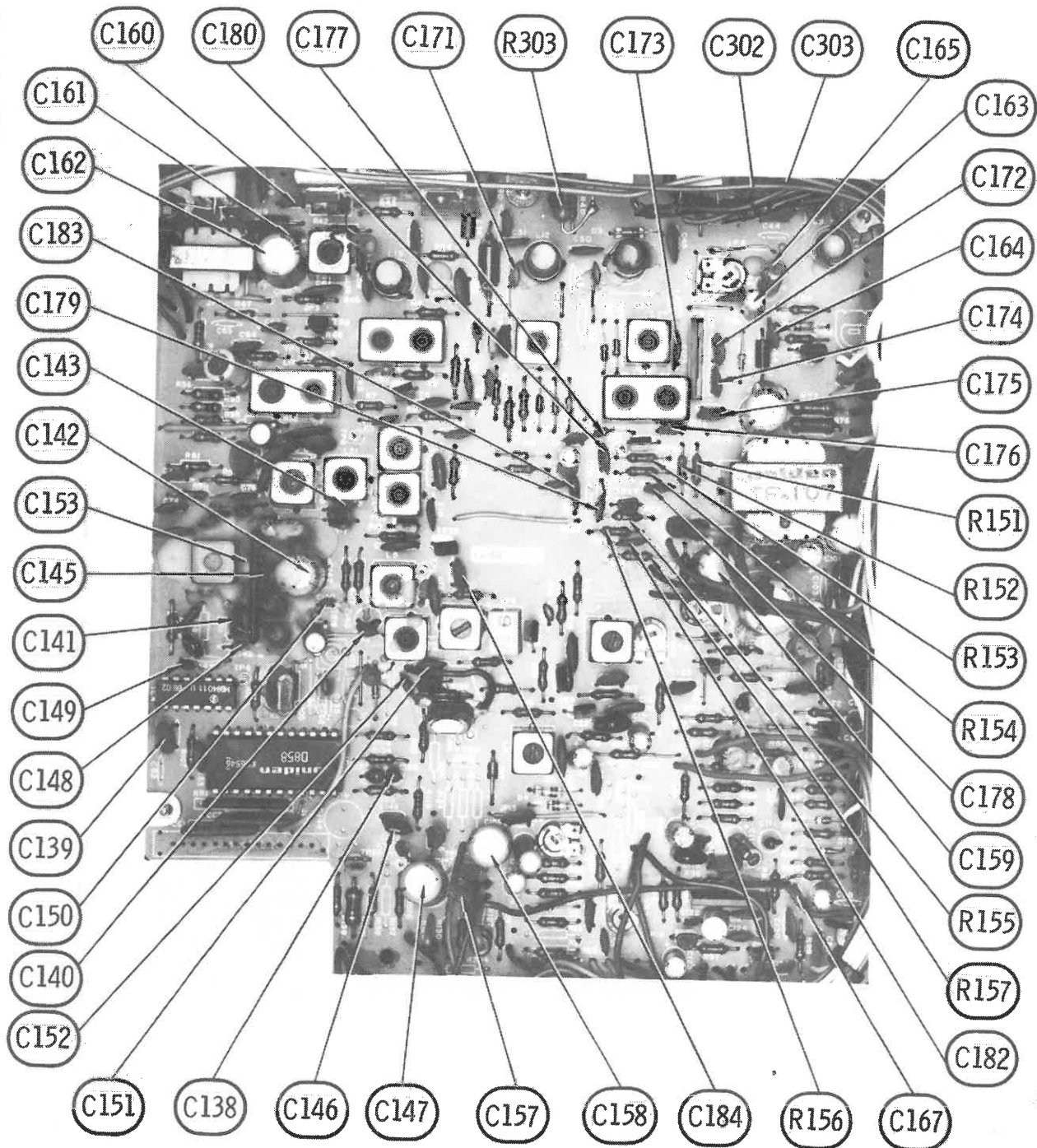
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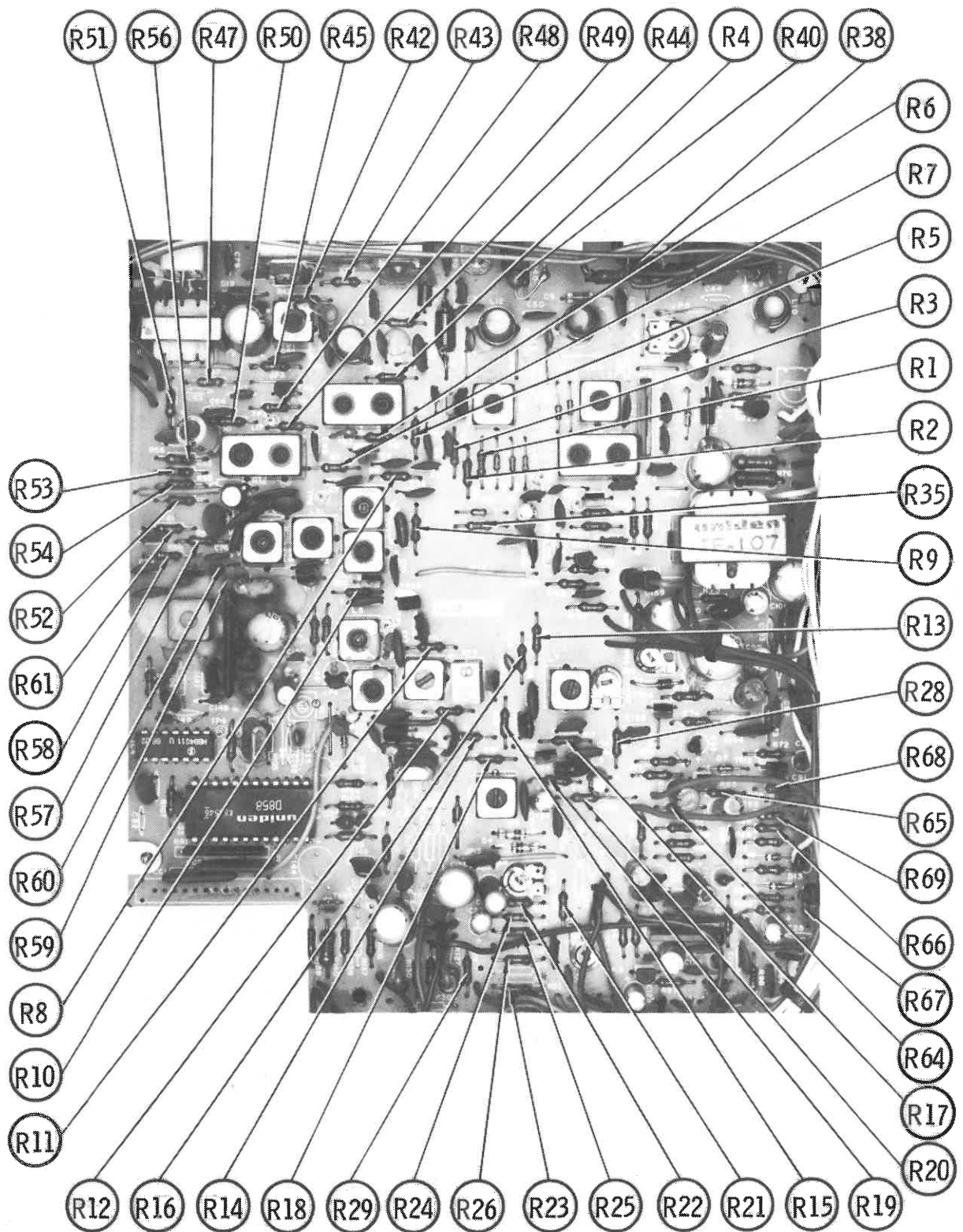
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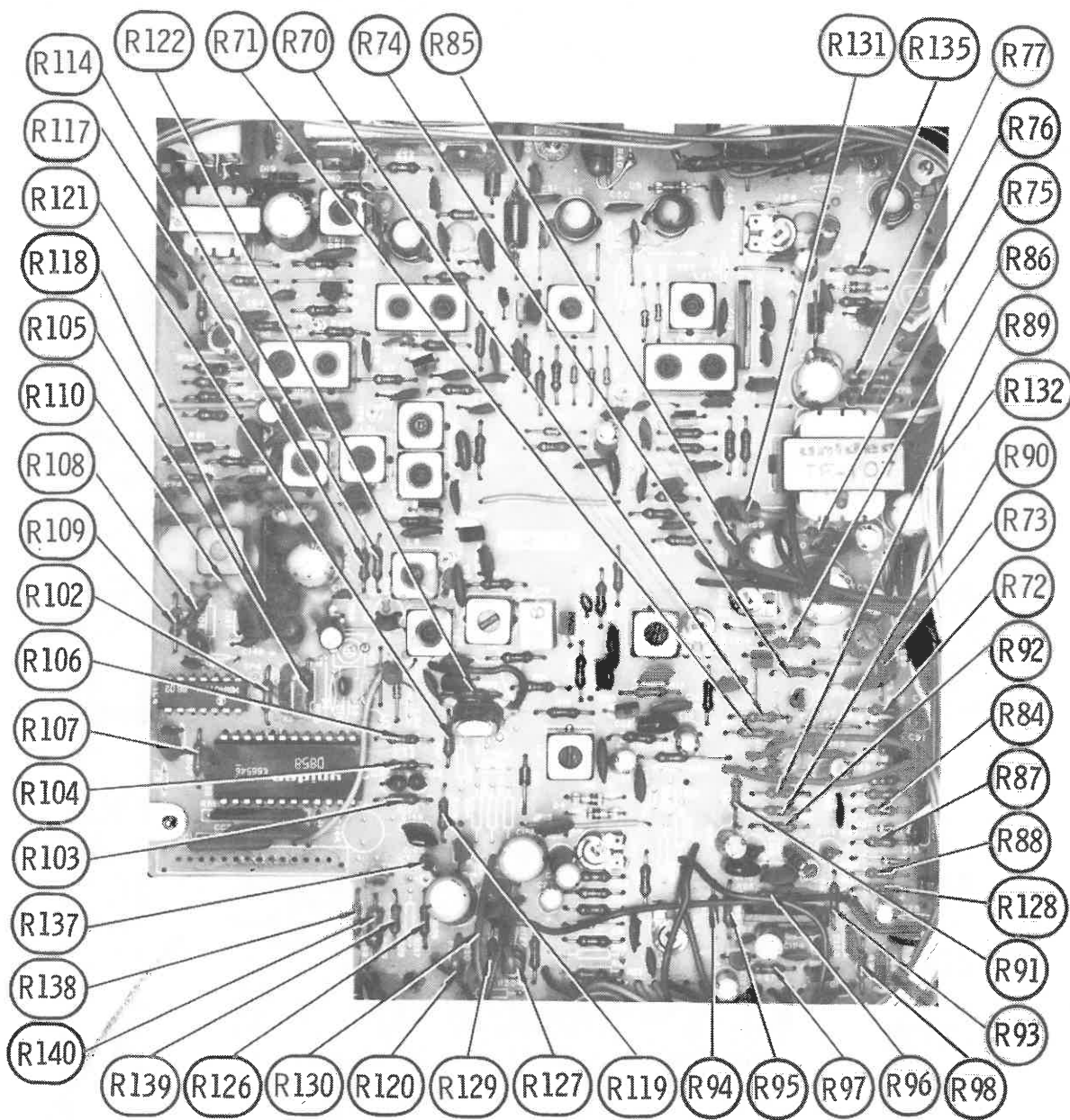
MAIN BOARD



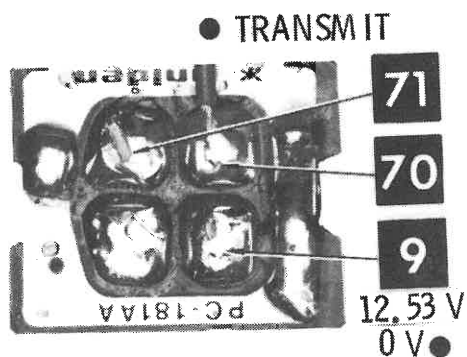
MAIN BOARD



MAIN BOARD

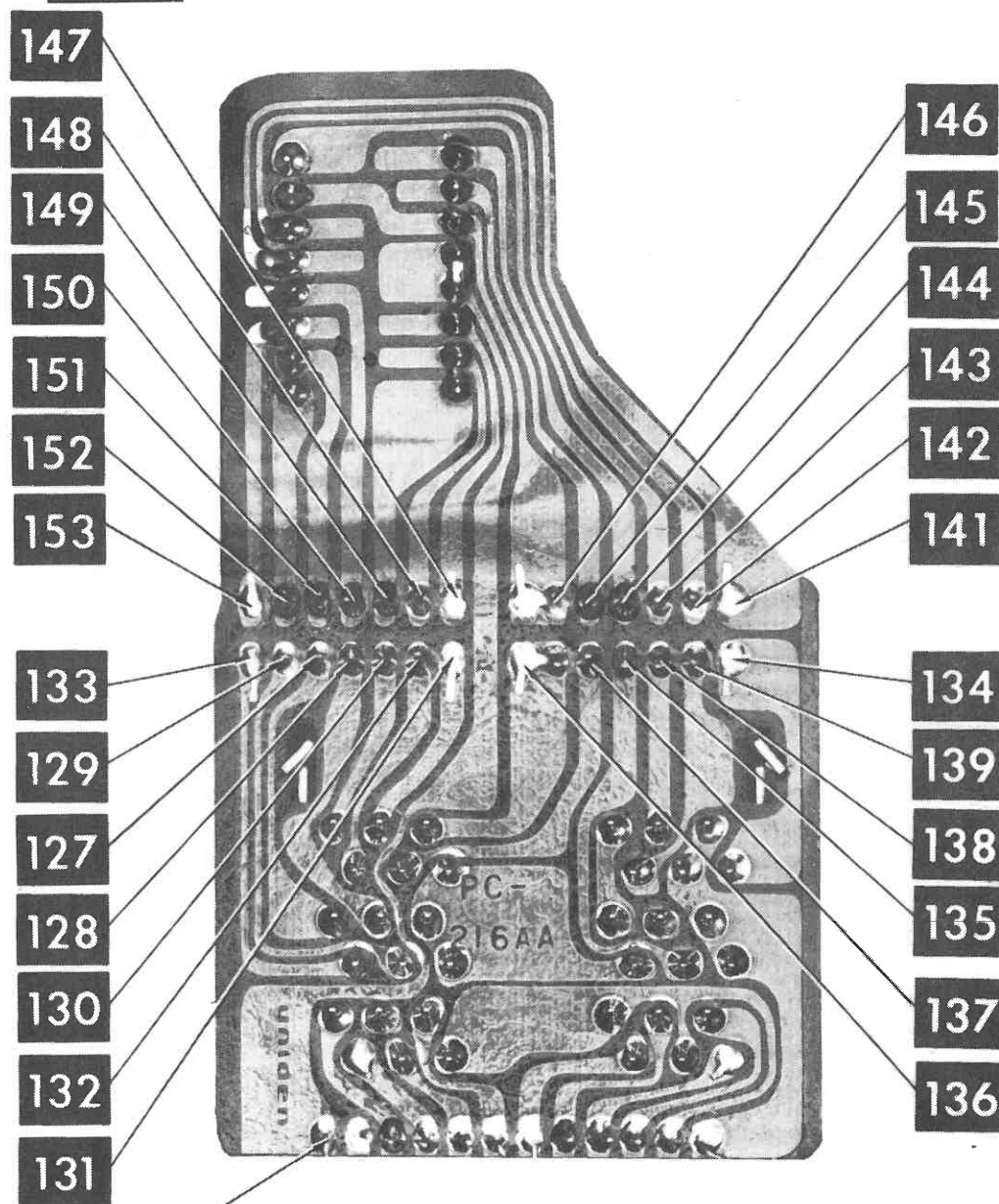


MAIN BOARD

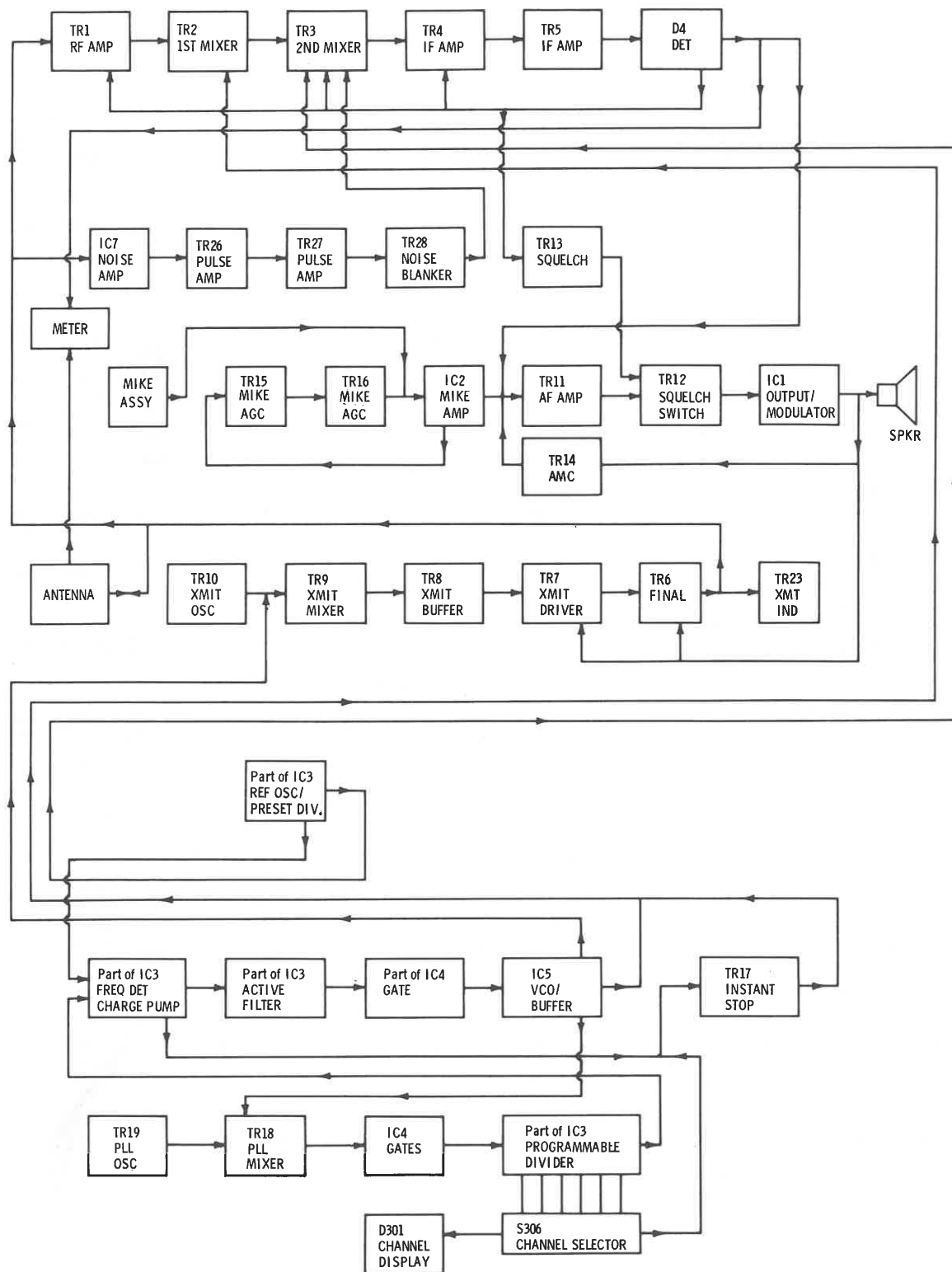


MIC JACK BOARD

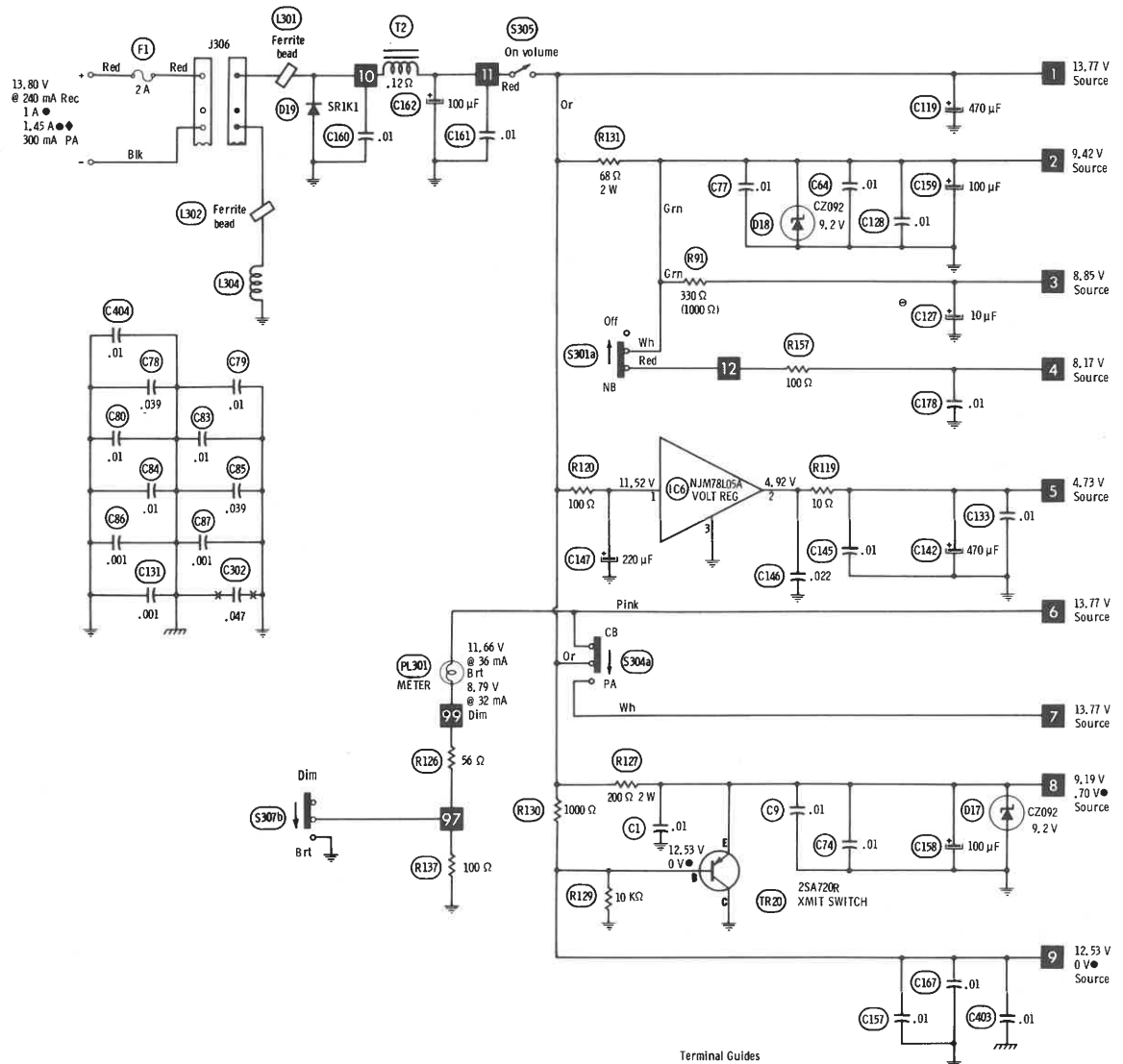
A Howard W. Sams CIRCUITRACE® Photo



SWITCH BOARD



BLOCK DIAGRAM



— 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

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Arrow at control indicates direction of advance.

Terminal identification may not be found on unit.

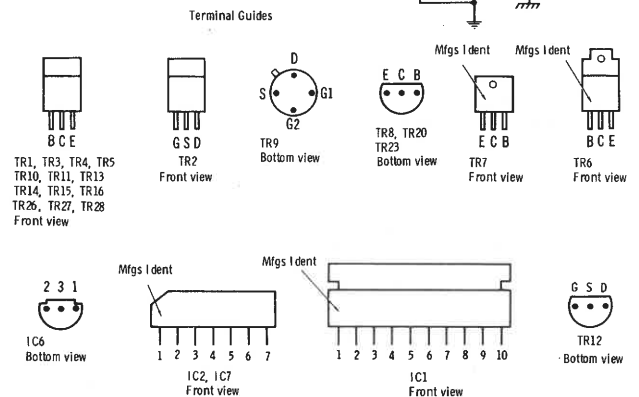
Resistors are 1/2W or less, 5% unless noted.

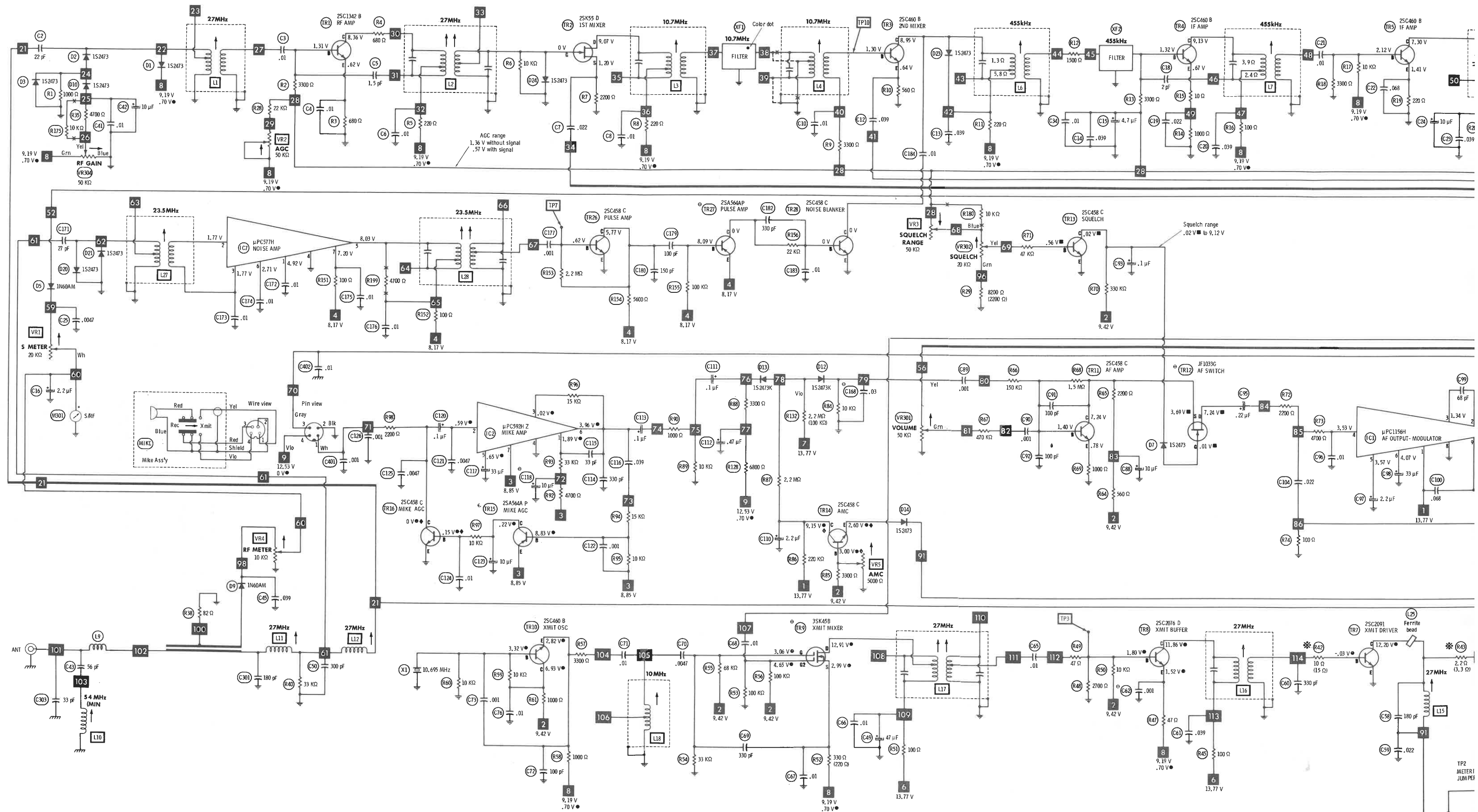
Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

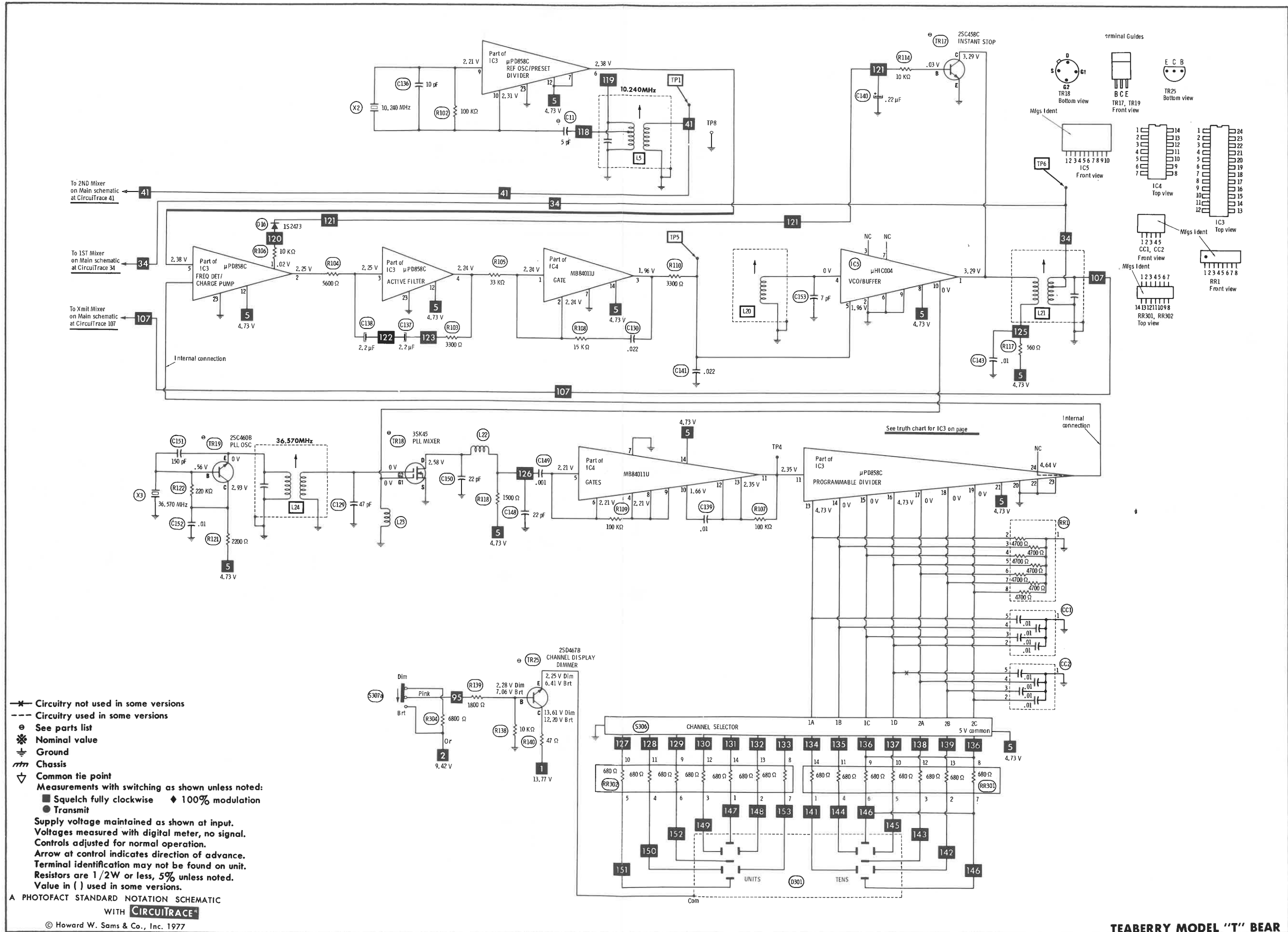
WITH CIRCUITRACE™

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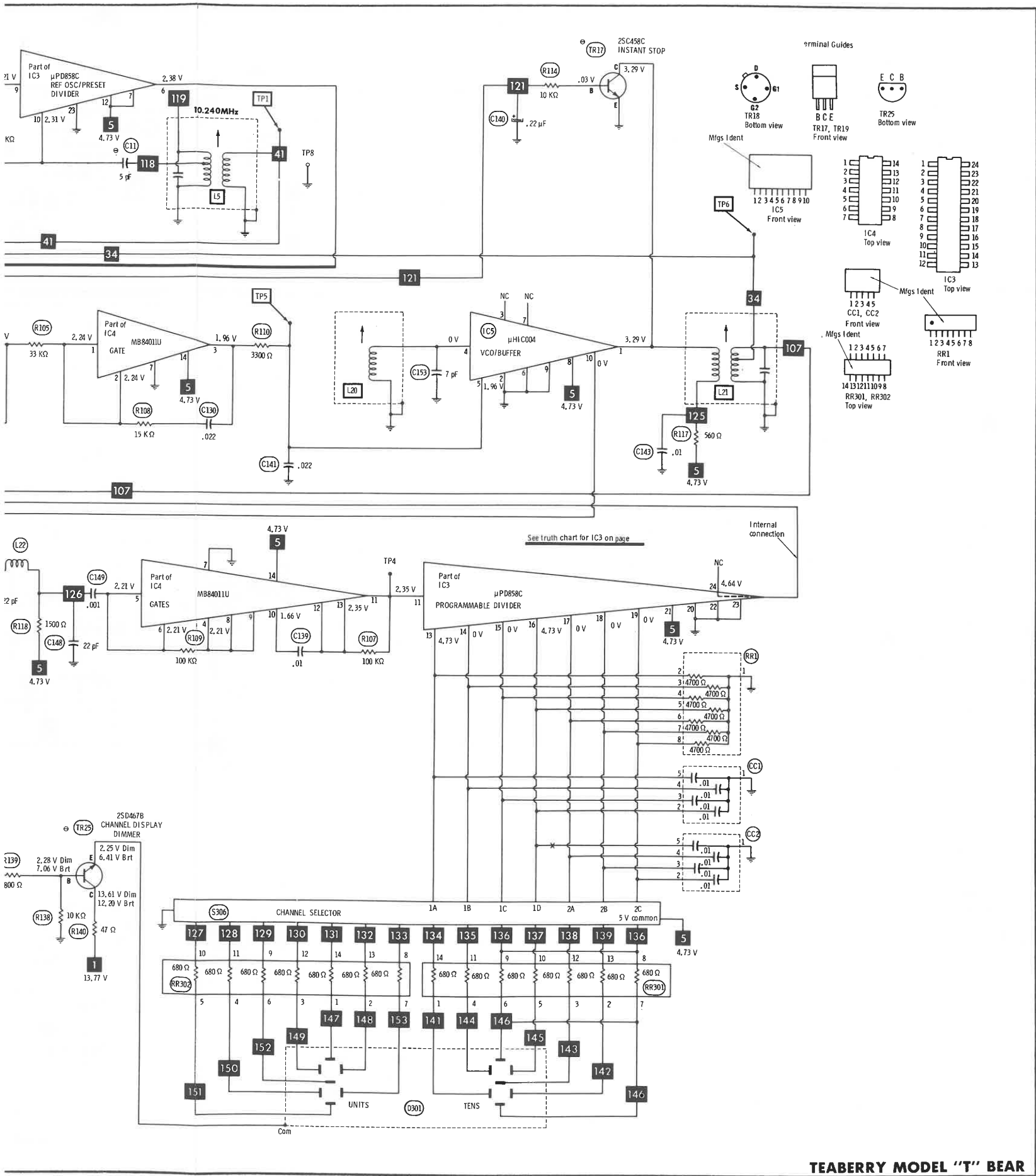






1 = 4.73 Volts

CHANNEL	IC3 PROGRAM DIVIDER				
	PINS				
	19	18	17	16	15
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	0	0
4	0	0	1	0	0
5	0	0	1	0	1
6	0	0	1	0	1
7	0	0	1	0	1
8	0	0	1	1	0
9	0	0	1	1	0
10	0	1	0	0	0
11	0	1	0	0	0
12	0	1	0	0	0
13	0	1	0	0	1
14	0	1	0	0	1
15	0	1	0	0	1
16	0	1	0	1	0
17	0	1	0	1	0
18	0	1	1	0	0
19	0	1	1	0	0
20	0	1	1	0	0



TEABERRY MODEL "T" BEAR

TRUTH CHART

1 = <u>4.73</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC3 PROGRAM DIVIDER							REC & XMIT
	PINS							VCO OUTPUT IN MHZ
	19	18	17	16	15	14	13	AT TP6
1	0	0	0	1	0	0	1	37.660
2	0	0	1	0	0	0	0	37.670
3	0	0	1	0	0	0	1	37.680
4	0	0	1	0	0	1	1	37.700
5	0	0	1	0	1	0	0	37.710
6	0	0	1	0	1	0	1	37.720
7	0	0	1	0	1	1	0	37.730
8	0	0	1	1	0	0	0	37.750
9	0	0	1	1	0	0	1	37.760
10	0	1	0	0	0	0	0	37.770
11	0	1	0	0	0	0	1	37.780
12	0	1	0	0	0	1	1	37.800
13	0	1	0	0	1	0	0	37.810
14	0	1	0	0	1	0	1	37.820
15	0	1	0	0	1	1	0	37.830
16	0	1	0	1	0	0	0	37.850
17	0	1	0	1	0	0	1	37.860
18	0	1	1	0	0	0	0	37.870
19	0	1	1	0	0	0	1	37.880
20	0	1	1	0	0	1	1	37.900

1 = <u>4.73</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC3 PROGRAM DIVIDER							REC & XMIT VCO OUTPUT IN MHz AT TP6
	19	18	17	16	15	14	13	
21	0	1	1	0	1	0	0	37.910
22	0	1	1	0	1	0	1	37.920
23	0	1	1	1	0	0	0	37.950
24	0	1	1	0	1	1	0	37.930
25	0	1	1	0	1	1	1	37.940
26	0	1	1	1	0	0	1	37.960
27	1	0	0	0	0	0	0	37.970
28	1	0	0	0	0	0	1	37.980
29	1	0	0	0	0	1	0	37.990
30	1	0	0	0	0	1	1	38.000
31	1	0	0	0	1	0	0	38.010
32	1	0	0	0	1	0	1	38.020
33	1	0	0	0	1	1	0	38.030
34	1	0	0	0	1	1	1	38.040
35	1	0	0	1	0	0	0	38.050
36	1	0	0	1	0	0	1	38.060
37	1	0	1	0	0	0	0	38.070
38	1	0	1	0	0	0	1	38.080
39	1	0	1	0	0	1	0	38.090
40	1	0	1	0	0	1	1	38.100

PARTS LIST AND DESCRIPTION

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

WIRING DATA

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D3	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D4	1N60AM	DDAY001022	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1N60AM	DDAY001022	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1S2473K	DDAY048013	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D7	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D9	1N60AM	DDAY001022	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D10	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	SR1K-1	DDAY002001	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D12	1S2473K	DDAY048013	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	1S2473K	DDAY048013	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D14	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D16	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D17	CZ-092	DDAY010006	GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D18	CZ-092	DDAY010006	GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D19	SR1K-1	DDAY002001	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D20	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D21	1S2473	DDAY048012	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D22	1N60AM	DDAY001022	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D23	1S2473	DDAY048009	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D24	1S2473	DDAY048009	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC1	UPC1156H	DDEY091001								ECG1194
IC2	UPC592H2	DDEY097001								ECG1195
IC3	UPD858C	DDEY055001								ECG1198
IC4	MB84011U	DDEY089001								ECG4011
IC5	UHC-004	DDEY087001								
IC6	NJM78L05AV	DDEY088001					RE 387-IC			ECG977
IC7	UPC577H	DDEY064001	GEIC-140	WEP939			RE 341-M			ECG1082
TR1	2SC1342B	DDBY287001	GE-61 *	TR-24 *	PTC136 *	HEPS0014 *	RE 9 *	SK3018 *	RT-108A *	ECG229 *
TR2	2SK55D	DDCY006001	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
TR3	2SC460B	DDBY277002	GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
TR4	2SC460B	DDBY277002	GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
TR5	2SC460B	DDBY277002	GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
TR6	2SC2029/1 (11)		GE-333	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
	2SC2092	DDBY289001 (1)(12)(14)	GE-337	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
TR7	2SC2091	DDBY288001 (13)	GE-270	WEP913	PTC180		RE 209			ECG295
TR8	2SC2076D, CB	DDBY270001	GE-210 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A
TR9	3SK45B	DDCY104001	GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
TR10	2SC460B	DDBY277002	GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
TR11	2SC458C	DDBY273001	GE-210 *	(IR)2SC458B	PTC121 *	HEPS0009 *	RE 13 *	SK3124	RT-187	ECG123A *
TR12	JF1033G		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	2SK55D	DDCY006001 (1)	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
TR13	2SC458C	DDBY273001	GE-210 *	(IR)2SC458B	PTC121 *	HEPS0009 *	RE 13 *	SK3124	RT-187	ECG123A *
TR14	2SC458C	DDBY273001	GE-210 *	(IR)2SC458B	PTC121 *	HEPS0009 *	RE 13 *	SK3124	RT-187	ECG123A *
TR15	2SA564P		GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA844C	DDBY008001 (1)	GE-244 *	TR-30 *	PTC103 *	HEPS0019 *	RE 18 *	SK3114	RT-126A *	ECG129 *
TR16	2SC458C	DDBY273001	GE-210 *	(IR)2SC458B	PTC121 *	HEPS0009 *	RE 13 *	SK3124	RT-187	ECG123A *
TR17	2SC458C	DDBY273001	GE-210 *	(IR)2SC458B	PTC121 *	HEPS0009 *	RE 13 *	SK3124	RT-187	ECG123A *
TR18	3SK45		GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
	3SK45B-09	DDCY104003 (1)	FE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
TR19	2SC460B	DDBY277002	GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
TR20	2SA720R		GE-82	TR-20	PTC177	HEPS0026	RE 211	SK3114	RT-126A	ECG298
	2SA673C	DDBY007002 (1)	GE-269	TR-28 *	PTC103 *	HEPS0026	RE 197 *	SK3114	RT-115 *	ECG290
TR23	2SC1364		GE-210 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 13 *	SK3124	RT-308	ECG123A *
	2SC458C	DDBY273001 (1)	GE-210 *	(IR)2SC458B	PTC121 *	HEPS0009 *	RE 13 *	SK3124	RT-187	ECG123A *
TR25	2SD467B,C	DDBY410002	GE-243 *	TR-87 *	PTC178	HEPS3001 *	RE 17 *	SK3024 *	RT-114 *	ECG128 *
TR26	2SC458C	DDBY273001	GE-210 *	(IR)2SC458B	PTC121 *	HEPS0009 *	RE 13 *	SK3124	RT-187	ECG123A *
TR27	2SA564AP		GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA844C	DDBY008001 (1)	GE-244 *	TR-30 *	PTC103 *	HEPS0019 *	RE 18 *	SK3114	RT-126A *	ECG129 *
TR28	2SC458C	DDBY273001	GE-210 *	(IR)2SC458B	PTC121 *	HEPS0009 *	RE 13 *	SK3124	RT-187	ECG123A *

* Lead configuration may vary from original.

(1) Used in some versions.

(11) Rating, 10 WATT @ 2.0 AMP.

(12) Rating, 12 WATT @ 5.0 AMP.

(13) Rating, 5.0 WATT @ 1.0 AMP.

(14) Note Lead Configuration Difference.

TEABERRY MODEL "T" BEAR

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C15	4.7 25V	CELZ514790	PC5-50	VTT4R7B50	QV1-27	EV-1319
C16	2.2 25V	CELZ512290	PC2-100	VTT2R2A50	QV1-19	EV-1517
C24	10 16V	CELZ311000	PC10-25	VTT10B25	QV1-41	EV-1222
C27	1 50V	CELZ811090	PC1-50	VTT1A50	QV1-11	EV-1615
C42	10 16V	CELZ311000	PC10-25	VTT10B25	QV1-41	EV-1222
C49	47 16V	CELZ314700	PC50-16	VTT47D16	QV1-73	EV-1226
C88	10 16V	CELZ311000	PC10-25	VTT10B25	QV1-41	EV-1222
C93	.1 16V	CAAZ311086		TDC104M050EL	QDT1-2	SD50-R109
C95	.22 16V	CAAZ312286		TDC224M050EL	QDT1-10	SD50-R229
C97	2.2 25V	CELZ512290	PC2-100	VTT2R2A50	QV1-19	EV-1517
C98	33 16V	CELZ313300	PC30-25	VTT33D25	QV1-63	EV-1325
C101	33 16V	CELZ313300	PC30-25	VTT33D25	QV1-63	EV-1325
C105	220 16V	CELZ312210	PC250-25	VTT220H16	QV1-117	EV-1240
C106	220 16V	CELZ312210	PC250-25	VTT220H16	QV1-117	EV-1240
C110	2.2 25V	CELZ512290	PC2-100	VTT2R2A50	QV1-19	EV-1517
C111	.1 16V	CAAZ311086		TDC104M050EL	QDT1-2	SD50-R109
C112	.47 50V	CELZ814780	PC1-50	VTT47A63	QV1-3	EV-1610
C113	.1 16V	CAAZ311086		TDC104M050EL	QDT1-2	SD50-R109
C117	33 16V	CELZ313300	PC30-25	VTT33D25	QV1-63	EV-1325
C118	10 16V	CELZ311000	PC10-25	VTT10B25	QV1-41	EV-1222
C119	470 16V	CELZ314710	PC500-16	VTT470K16	QV1-151	EV-1250
C120	.1 16V	CAAZ311086		TDC104M050EL	QDT1-2	SD50-R109
C123	10 16V	CELZ311000	PC10-25	VTT10B25	QV1-41	EV-1222
C127	10 16V	CELZ311000	PC10-25	VTT10B25	QV1-41	EV-1222
C137	2.2 16V	CSEZ312296		TDC225M035FL		SD35-2R29
C138	2.2 16V	CSEZ312296		TDC225M035FL		SD35-2R29
C140	.22 16V	CAAZ312286		TDC224M050EL	QDT1-10	SD50-R229
C142	470 6.3V	CELZ904710	PC500-16	VTT470K16	QV1-149	EV-1150
C147	220 16V	CELZ312210	PC250-25	VTT220H16	QV1-117	EV-1240
C158	100 16V	CELZ311010	PC100-16	VTT100F16	QV1-95	EV-1230
C159	100 16V	CELZ311010	PC100-16	VTT100F16	QV1-95	EV-1230
C162	100 25V	CELZ511010	PC100-25	VTT100G25	QV1-97	EV-1330
C163	1 50V	CELZ811090	PC1-50	VTT1A50	QV1-11	EV-1615
C165	2.2 25V	CELZ512290	PC2-100	VTT2R2A50	QV1-19	EV-1517

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	.01 25V	CCRZ812204	DC-103	MGP01	TA110	QC2-141	TG-S10
C2	22 N220 50V				*		10TCR-Q22
C3	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C4	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C5	1.5 NPO 50V		DTZ-1R5	NP01P5	CN0515		10TCC-V15
C6	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C7	.022 25V		UK25-223				HY-725
C8	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C9	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C10	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C11	5 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C12	.039 25V	CCRZ812091			GP140		56A-S40
C13	.039 25V				GP140		56A-S40
C14	.039 25V				GP140		56A-S40
C18	2 N220 50V				*		
C19	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C20	.039 25V				GP140		56A-S40
C21	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C22	.068 50V			WMF1S68	EWFA1A168	QF1-195	1PB-S68
C23	.039 25V				GP140		56A-S40
C25	.0047 25V		DD-472	GP4700	GP247		56A-D47
C26	.0047 25V		DD-472	GP4700	GP247		56A-D47
C29	.0047 25V		DD-472	GP4700	GP247		56A-D47
C30	.01 25V	(1)	DC-103	MGP01	TA110	QC2-141	TG-S10
C34	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C40	.001 25V		DD-102G	GP1000	GP210	QC2-81	56A-D10
C41	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C43	56 50V		DD-560		GP456		10TS-Q56
C45	.039 25V				GP140		56A-S40
C50	300 50V		DD-301	GP300	GP330		10TS-T30
C51	.0047 25V		DD-472	GP4700	GP247		56A-D47
C52	.039 25V				GP140		56A-S40
C53	100 50V		DD-101	GP100	GP310		10TS-T10
C57	220 50V		DD-221		GP322		10TS-T22
C58	180 50V		DD-181		GP318		10TS-T18
C59	.022 25V		UK25-223				HY-725
C60	330 50V	(1)	DD-331	GP330	GP333		10TS-T33
C61	.039 25V				GP140		56A-S40
C62	.001 25V		DD-102G	GP1000	GP210	QC2-81	56A-D10
C64	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C65	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C66	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C67	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C68	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-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
C69	330 N220 50V	CCRZ813314			*		10TCR-T33
C70	.0047 25V		DD-472	GP4700	GP247		5GA-D47
C71	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C72	100 N220 50V	CCRZ811014			*		10TCR-T10
C73	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C74	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C76	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C77	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C78	.039 25V				GP140		5GA-S40
C79	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C80	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C83	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C84	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C85	.039 25V				GP140		5GA-S40
C86	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C87	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C89	.001 50V			DPMS6D1	EWFA1210	QF1-1	1PB-D10
C90	.001 50V			DPMS6D1	EWFA1210	QF1-1	1PB-D10
C91	100 50V		DD-101	GP100	GP310		10TS-T10
C92	100 50V		DD-101	GP100	GP310		10TS-T10
C96	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C99	68 50V		DD-680	GP68	GP468		10TS-Q68
C100	.068 50V			WMF1S68	EWFA1168	QF1-195	1PB-S68
C102	.068 50V			WMF1S68	EWFA1168	QF1-195	1PB-S68
C103	220 50V		DD-221		GP322		10TS-T22
C104	.022 50V			DPMS2S22	EWFA122	QF1-127	1PB-S22
C107	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C114	330 50V		DD-331	GP330	GP333		10TS-T33
C115	33 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C116	.039 50V			DPMS6S39	PVC6139		6PS-S39
C121	.0047 25V		DD-472	GP4700	GP247		5GA-D47
C122	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C124	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C125	.0047 25V		DD-472	GP4700	GP247		5GA-D47
C126	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C128	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C129	47 N470 50V	CCRZ814704			*		10TCT-Q47
C130	.022 50V			DPMS2S22	EWFA122	QF1-127	1PB-S22
C131	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C133	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C136	10 N220 50V	CCRZ811004			*		10TCR-Q10
C139	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C141	.022 50V			DPMS2S22	EWFA122	QF1-127	1PB-S22
C143	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C145	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C146	.022 50V			DPMS2S22	EWFA122	QF1-127	1PB-S22
C148	22 50V		DTZ-22	NP022	CN0422		10TCC-Q22
C149	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C150	22 50V		DTZ-22	NP022	CN0422		10TCC-Q22
C151	150 50V		DD-151		GP315		10TS-T15
C152	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C153	7 N220 50V	CCRZ817091			*		10TCR-V68
C157	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C160	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C161	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C164	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C167	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C168	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C171	27 N220 50V	CCRZ812704			*		10TCR-Q27
C172	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C173	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C174	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C175	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C176	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C177	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C178	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C179	100 50V		DD-101	GP100	GP310		10TS-T10
C180	150 50V		DD-151		GP315		10TS-T15
C182	330 50V		DD-331	GP330	GP333		10TS-T33
C183	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C184	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C301	180 50V		DD-181		GP318		10TS-T18
C302	.047 25V		UK25-503		MAG2515		HY-735
C303	33 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C401	.001 25V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C402	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C403	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
C404	.01 25V		DC-103	MGP01	TA110	QC2-141	TG-S10
CC1	.01	HHAY003001					
CC2	.01	HHAY003001					

TEABERRY MODEL "T" BEAR

*Not normally in distributor's stock. Available thru distributor on order to manufacturer.
(1) Used in some versions.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	S Meter	20K	RRVY133007				
VR2	AGC	50K	RRVY133009				
VR3	Squelch Range	50K	RRVY133009				
VR4	RF Meter	10K	RRVY133006				
VR5	AMC	5000	RRVY133005				
VR301	Volume/Switch	50K	RRVY197001				
VR302	Squelch	20K	RRVY049001				
VR304	RF Gain	50K	RRVY071001				
VR307	Tone	100K	RRVY048001				

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
RR1	Resistor Network		HHAY006001 (1)	RR302	Resistor Network		HHAY008001 (2)
RR301	Resistor Network		HHAY008001 (2)				

(1) Consists of seven 4700-ohm resistors.

(2) Consists of seven 680-ohm resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Rec Antenna (27MHz)	LLAY029001	LA-029	CB3740-T	
L2	Rec RF (27MHz)	LLAY194001	LA-194		
L3	IF (10.7MHz)	LLAY180001	LA-180	CBS715-TC	
L4	IF (10.7MHz)	LLAY181001	LA-181		
L5	Ref Oscillator(10.24MHz)	LLAY182001	LA-182		
L6	IF (455kHz)	LLAY163001	LA-163		
L7	IF (455kHz)	LLAY183001	LA-183		
L8	IF (455kHz)	LLAY184001	LA-184		
L9	RF Choke	LLDY073001	LD-073		
L10	TVI Trap (54MHz)	LLCY017001	LC-017	CB303	
L11	Pi Filter (27MHz)	LLCY020001	LC-021	CB306	
L12	Final (27MHz)	LLCY018001	LC-018	CB304	
L13	RF Choke	LLDY012001	LD-012	4588	
L15	Xmit Driver (27MHz)	LLCY017001	LC-017	CB303	
L16	Xmit Buffer (27MHz)	LLAY189001	LA-189		
L17	Xmit Mixer (27MHz)	LLAY185001	LA-185		
L18	Xmit Oscillator (10.695MHz)	LLAY193001	LA-193		
L20	VCO Buffer (37MHz)	LLAY187001	LA-187		
L21	VCO Buffer (37MHz)	LLAY188001	LA-188		
L22	RF Choke (100uH)	LLZY001013	LZ-001		
L23	RF Choke (1.5uH)	LLZY002003	LZ-002		
L27	PLL Oscillator(36.750MHz)	LLAY186001	LA-186		
L27	Noise Amp (23.5MHz)	LLAY029001	LA-029	CBS740-T	
L28	Noise Amp (23.5MHz)	LLAY155001	LA-155		
L303	RF Choke	LLDY080001	LD-080		
L304	RF Choke	LLDY080001	LD-080		
L305	RF Choke	LLDY080001	LD-080		
L307	RF Choke	LLDY080001	LD-080		
L309	RF Choke	LLDY080001	LD-080		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.	
T2	1.45A	.14	1.62mA	TTFY017001 TF-017 (1)	TR507		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	81.9	1 2 8 109.5	TTFY070001 TF-107 (1)		MCB-49	(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP301	4" PM 8 Ohms	ASPY003001	4A05Z8R	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	2 Amp	ZFSY001005	WZDZ070088	AGC2	HDJ	312002	150145	FG2-2

TEABERRY MODEL "T" BEAR

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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	AMKY041001	18-032	18-034	18-010	18-092	1	2	4	3	NC	2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
D301	Led	DDAY084001	Channel
D302	Led	DDAY073001	Mod.
J301	Jack	JJKY035001	Antenna
J303	Jack	JJKY010001	PA
J304	Jack	JJKY010001	External Speaker
J306	Jack	JJKY052001	Power
J401	Jack	JJKY072001	Microphone
L14	Ferrite Bead	LLDY075001	
L25	Ferrite Bead	LLDY075001	
L301	Ferrite Bead	LLDY072001	
L302	Ferrite Bead	ZYYY043001	
M301	Meter	ZMTY087001	S/Rf
PL301	Lamp		Meter (36mA @ 11.66V Brite/32mA @ 8.79V Dim)
S301	Switch	SSWY093001	ANL/NB
S304	Switch	SSUY093001	CB/PA
S305	Switch		Power (Part of Volume Control)
S306	Switch	SSRY155001	Channel Selector
S307	Switch	SSWY093001	Meter Indicator Dimmer
X1	Crystal	QQXY078001	10.695MHz (Xmit Osc)
X2	Crystal	QQXY077001	10.240MHz (Ref Osc)
X3	Crystal	QQXY079001	36.570MHz (PLL Osc)
XF1	Ceramic Filter	FFLY047001	10.7MHz
XF2	Ceramic Filter	FFLY049001	455kHz
	Flat Cable	WWFY0041003	
	Printed Circuit Board	PPCY198011	Main (PC-198AA)
	Printed Circuit Board	PPCY181011	Microphone (PC-181AA)
	Printed Circuit Board	PPCY216011	Channel Selector (PC-216AA)

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

ITEM	PART No.	ITEM	PART No.
Cabinet Top	MDBP203846	Knob, Channel	MDMP404296
Cabinet Bottom	MDBP203847	Knob, Switch	MDMP404319
Microphone Hanger	MDBP402919	Channel Indicator Window	MDAP404321
Escutcheon	MDMP204318	Mounting Bracket	MDBP303848
Knob, Control	MDMP402825		