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" DISPATCH (4003)

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206
 Printed in U. S. of America 8CE712

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.
Adjust VR201 in AC power supply for 13.8 volts DC at TP12.
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, L2, L3, L8, L9, L10, L11, L21, L23, L27..... 9440
L4, L5, L6..... 5009
L12, L13, L15..... 9091
VC1..... 8276

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP6.	Ch. 19	VC1	Adjust for 10.240MHz.
Input of oscilloscope to TP6.	Ch. 19	L27	Adjust for maximum RF at 10.240MHz.
Input of frequency counter and oscilloscope to TP10 (L23 secondary).	Ch. 19	L23	Adjust for maximum RF at 36.570MHz.
Input of DC meter to TP4.	Ch. 19	L22	Adjust for 2.85 volts.
Input of oscilloscope to TP3.	Ch. 19	L21	Adjust for maximum RF.
Input of frequency counter to TP3.	Ch. 1		Check for 37.660MHz. Check all channels. See Truth Chart for correct frequencies.
Input of frequency counter and oscilloscope to TP1.	Ch. 19 Xmt	L8	Adjust for maximum RF at 10.695MHz.
Input of frequency counter to antenna jack.	Ch. 19 Xmt	L23	Check for 27.185MHz. If necessary readjust for 27.185MHz.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Set generator output low enough to prevent AGC limiting.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP11. 455kHz,1000Hz @ 30% modulation.	Ch. 19 ANL Off Squelch MINIMUM	L6,L5,L4	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation.	Ch. 19 ANL Off Squelch MINIMUM	L3,L2,L1	Adjust for maximum output. (If necessary readjust L6, L5, L4).

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 50,000uV.	Ch. 19 ANL Off Squelch MINIMUM	VR2	AGC Adjust volume VR301 to obtain 0db. Decrease generator output to 50uV. Adjust VR2 so that audio signal does not drop more than 10db.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation. Output 150,000uV.	Ch. 19 ANL Off Squelch Maximum	VR4	SQUELCH RANGE Adjust VR4 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation. Output 100uV.	Ch. 19 ANL Off Squelch MINIMUM	VR1	SIGNAL METER Adjust VR1 for 9 scale of meter.

TRANSMITTER ALIGNMENT

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	L9,L10,L11 L12,L13,L15	Adjust for maximum RF output.
	Ch. 19	L15	Readjust for 4 watts maximum output.
Input of spectrum analyzer or harmonic meter to antenna jack.	Ch. 19	L301	Adjust for MINIMUM at 54MHz.

TRANSMITTER ADJUSTMENTS

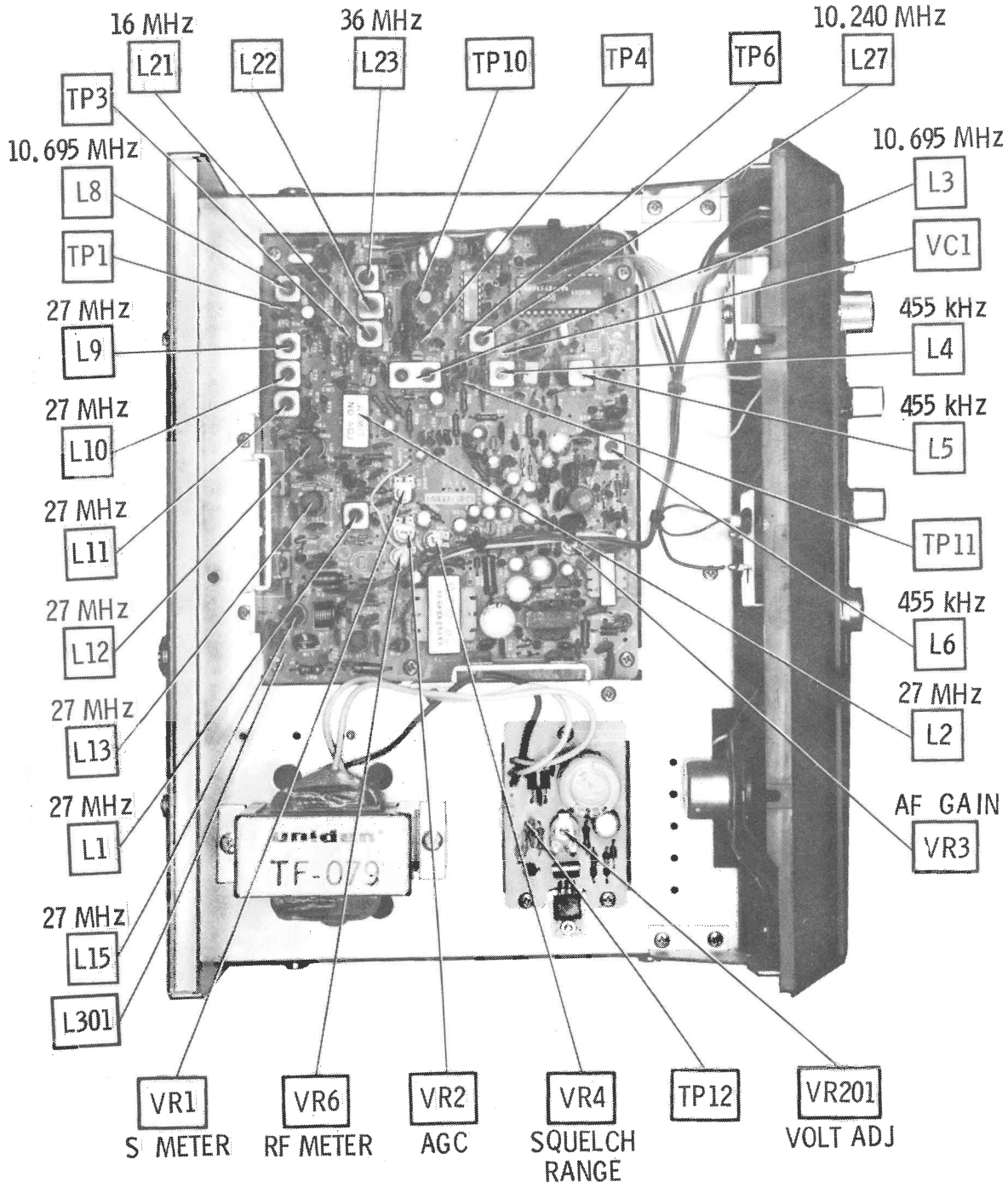
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of modulation meter to antenna jack. Inject a 1000Hz 5mV signal at MIC input.	Ch. 19	VR3	MIC GAIN Adjust for 100% modulation maximum.
Connect an RF Wattmeter and 50 ohm 25 watt dummy load to antenna connector.	Ch. 19	VR6	RF POWER METER Adjust VR6 so that panel meter agrees with RF wattmeter.

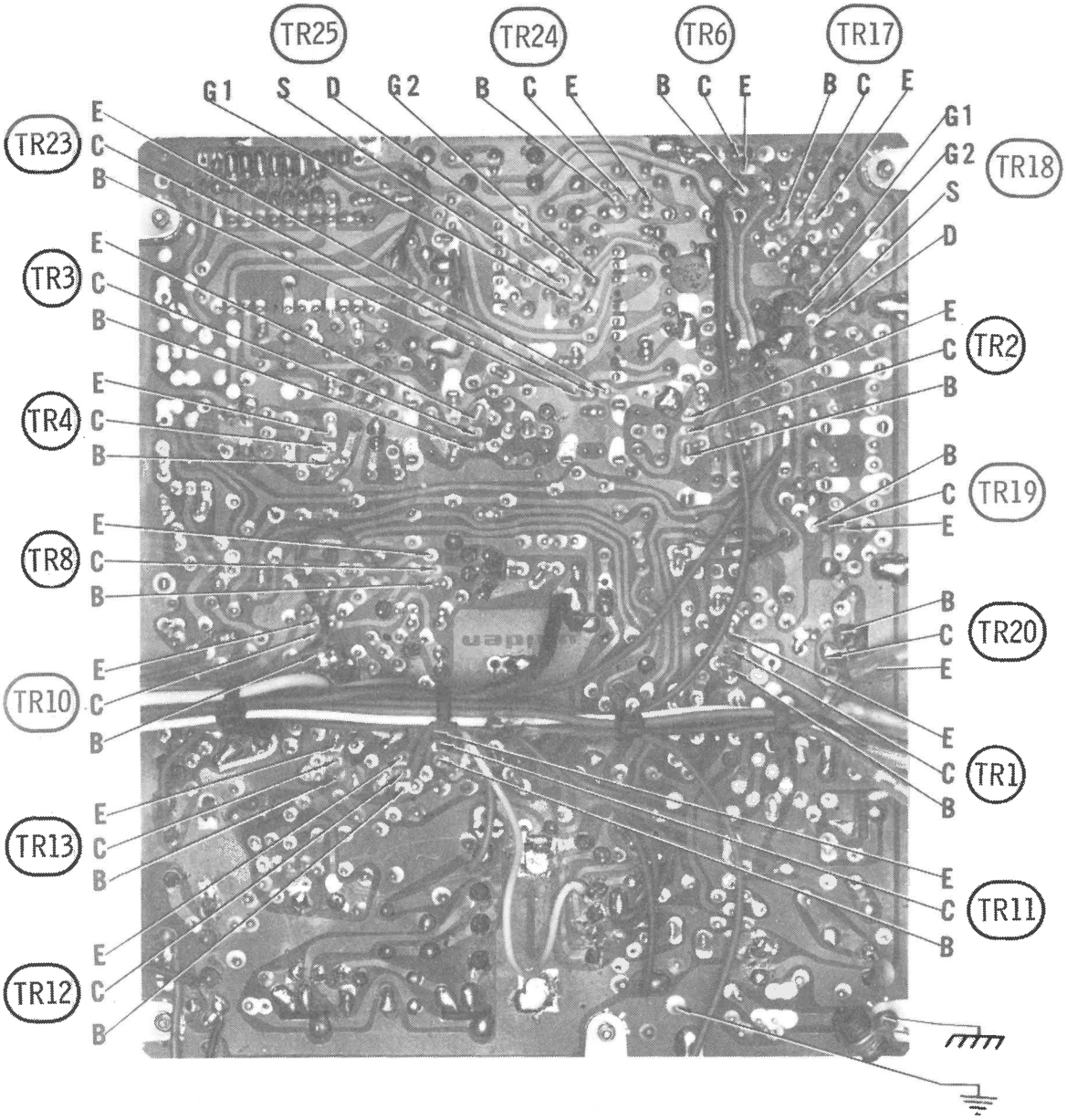
TRUTH CHART

1 = 4.60 Volts 0 = 0 Volts								
CHANNEL	IC3 PROGRAM DIVIDER PINS							REC & XMIT VCO OUTPUT IN MHz AT TP3
	19	18	17	16	15	14	13	
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

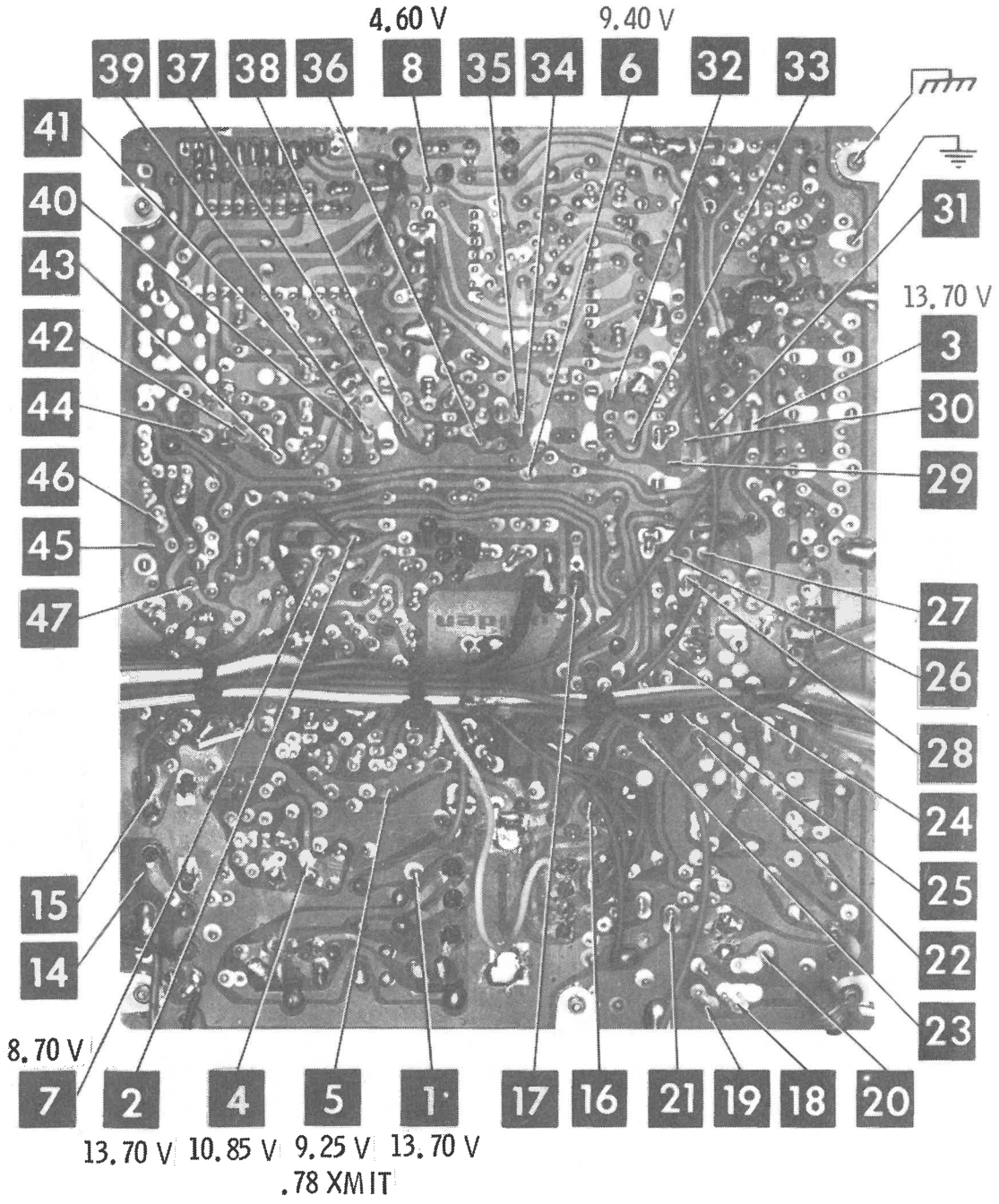
1 = 4.60 Volts 0 = 0 Volts								
CHANNEL	IC3 PROGRAM DIVIDER PINS							REC & XMIT VCO OUTPUT IN MHz AT TP3
	19	18	17	16	15	14	13	
21	0	1	1	0	1	0	0	37.910
22	0	1	1	0	1	0	1	37.920
23	0	1	1	1	0	0	0	37.950
24	0	1	1	0	1	1	0	37.930
25	0	1	1	0	1	1	1	37.940
26	0	1	1	1	0	0	1	37.960
27	1	0	0	0	0	0	0	37.970
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


16 MHz
L21
L22
36 MHz
L23
TP10
TP4
TP6
10.240 MHz
L27
TP3
10.695 MHz
L8
TP1
27 MHz
L9
27 MHz
L10
27 MHz
L11
27 MHz
L12
27 MHz
L13
27 MHz
L1
27 MHz
L15
L301
10.695 MHz
L3
VC1
455 kHz
L4
455 kHz
L5
TP11
455 kHz
L6
27 MHz
L2
AF GAIN
VR3
TF-079
VR1
S METER
VR6
RF METER
VR2
AGC
VR4
SQUELCH
RANGE
TP12
VR201
VOLT ADJ

CHASSIS-TOP


TR25
G1 S D G2
TR24
B C E
TR6
B C E
TR17
B C E
TR23
E C B
TR18
G1 G2 S D
TR3
E C B
TR2
E C B
TR4
E C B
TR19
B C E
TR8
E C B
TR20
B C E
TR10
E C B
TR1
E C B
TR13
E C B
TR11
E C B
TR12
E C B

MAIN BOARD


4.60 V
9.40 V
39
37
38
36
8
35
34
6
32
33
41
40
43
42
44
46
45
47
31
13.70 V
3
30
29
27
26
28
24
25
22
23
15
14
8.70 V
7
2
4
5
1
17
16
21
19
18
20
13.70 V
10.85 V
9.25 V
.78 XMIT
13.70 V

MAIN BOARD

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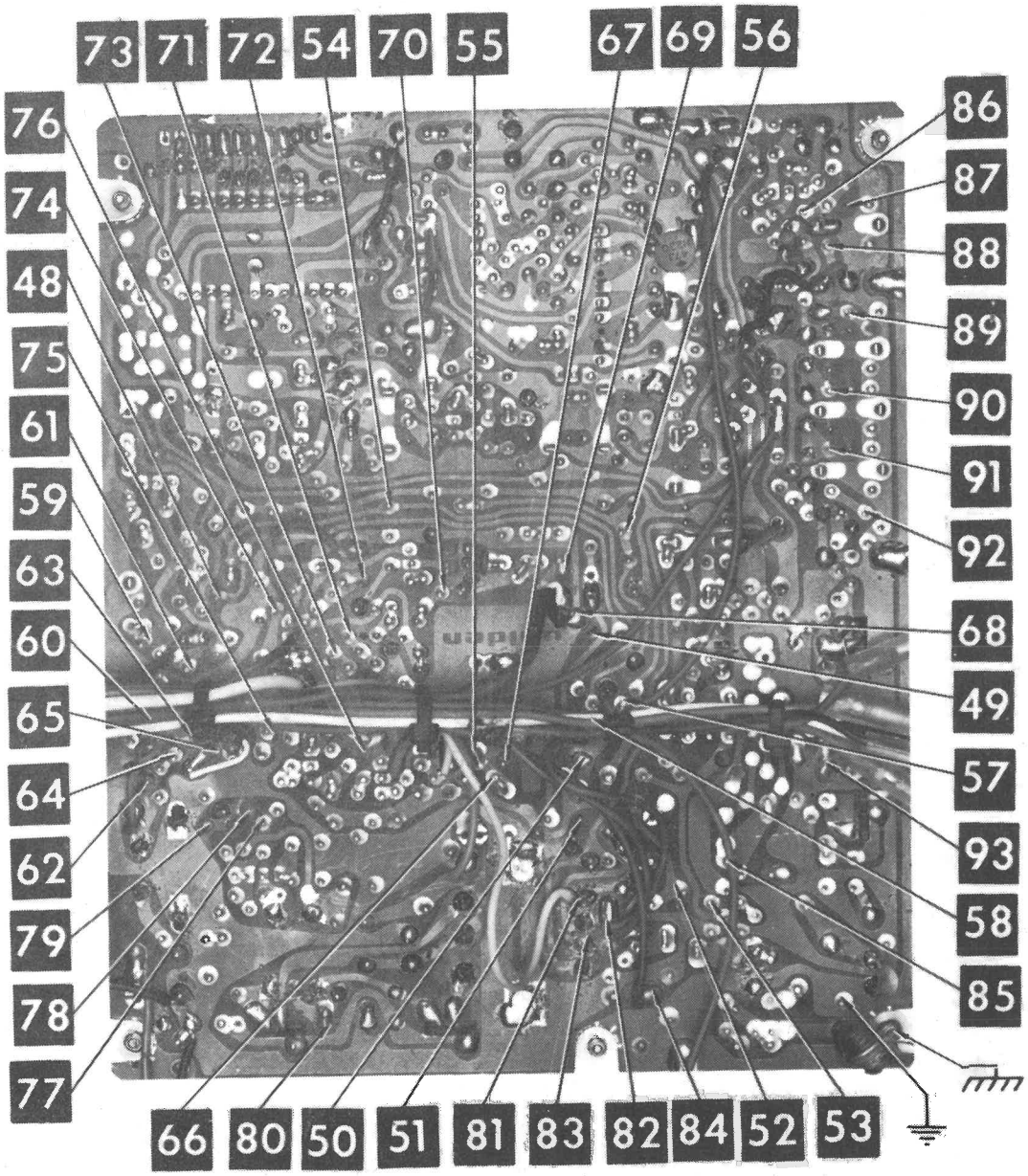
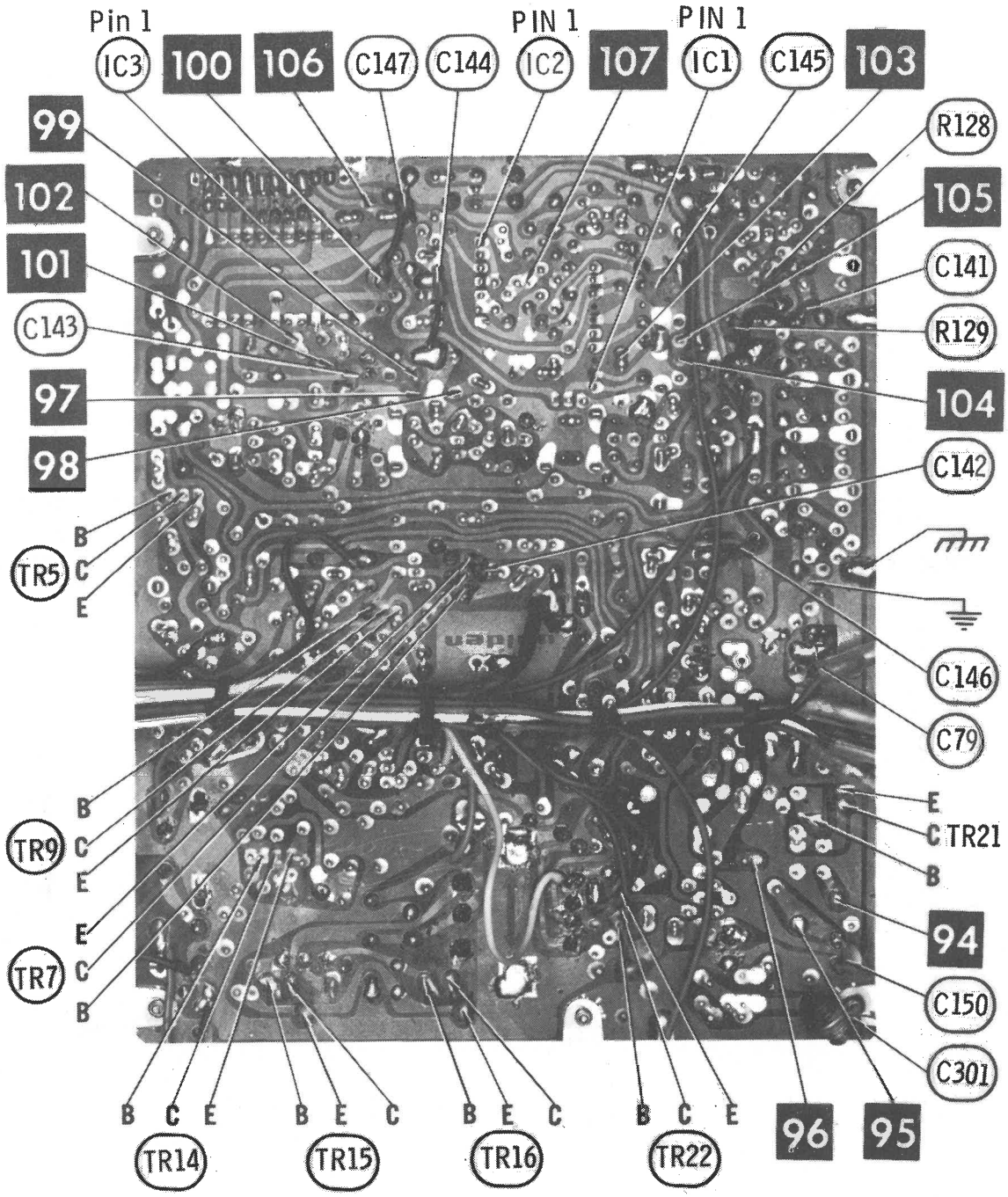
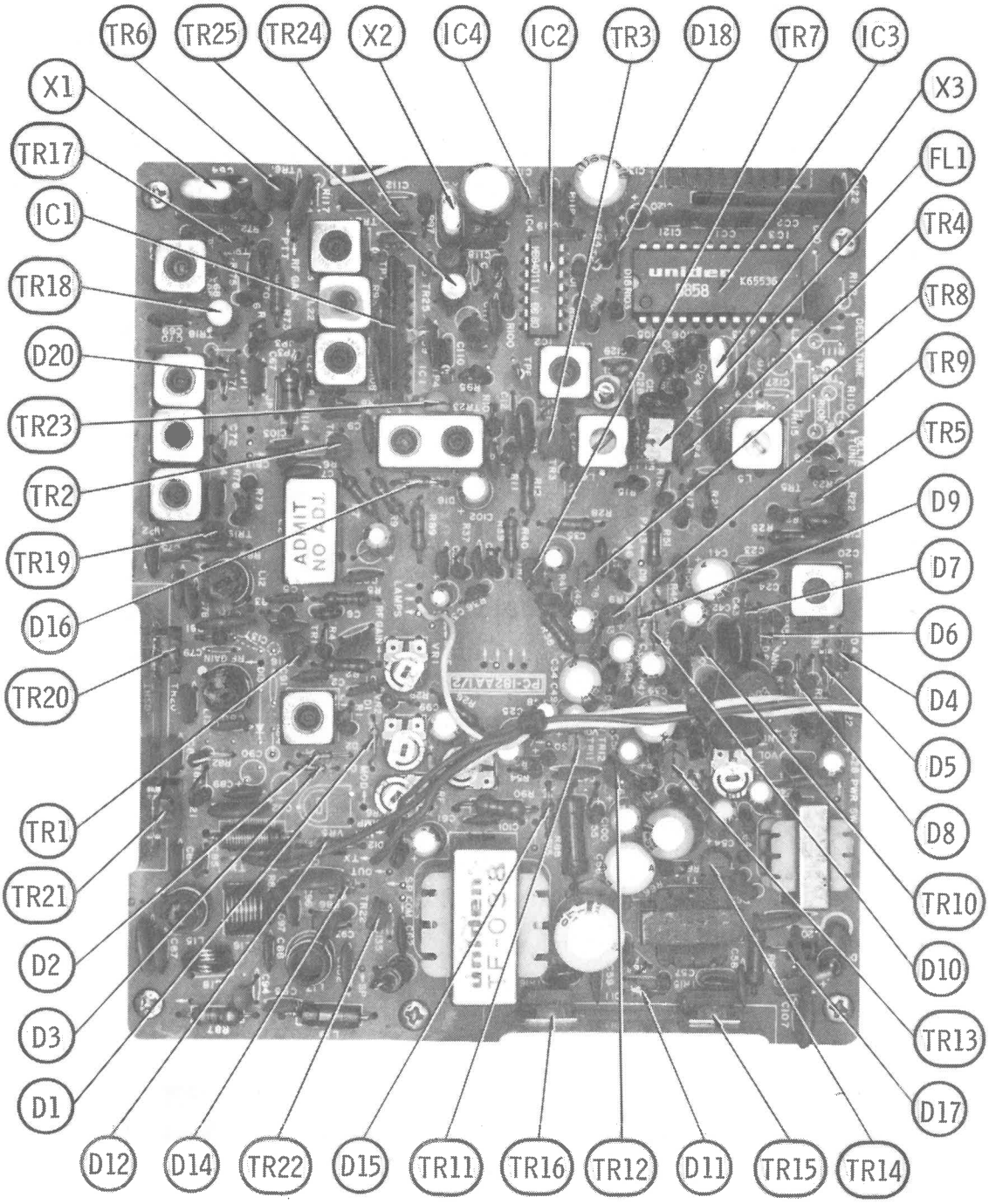


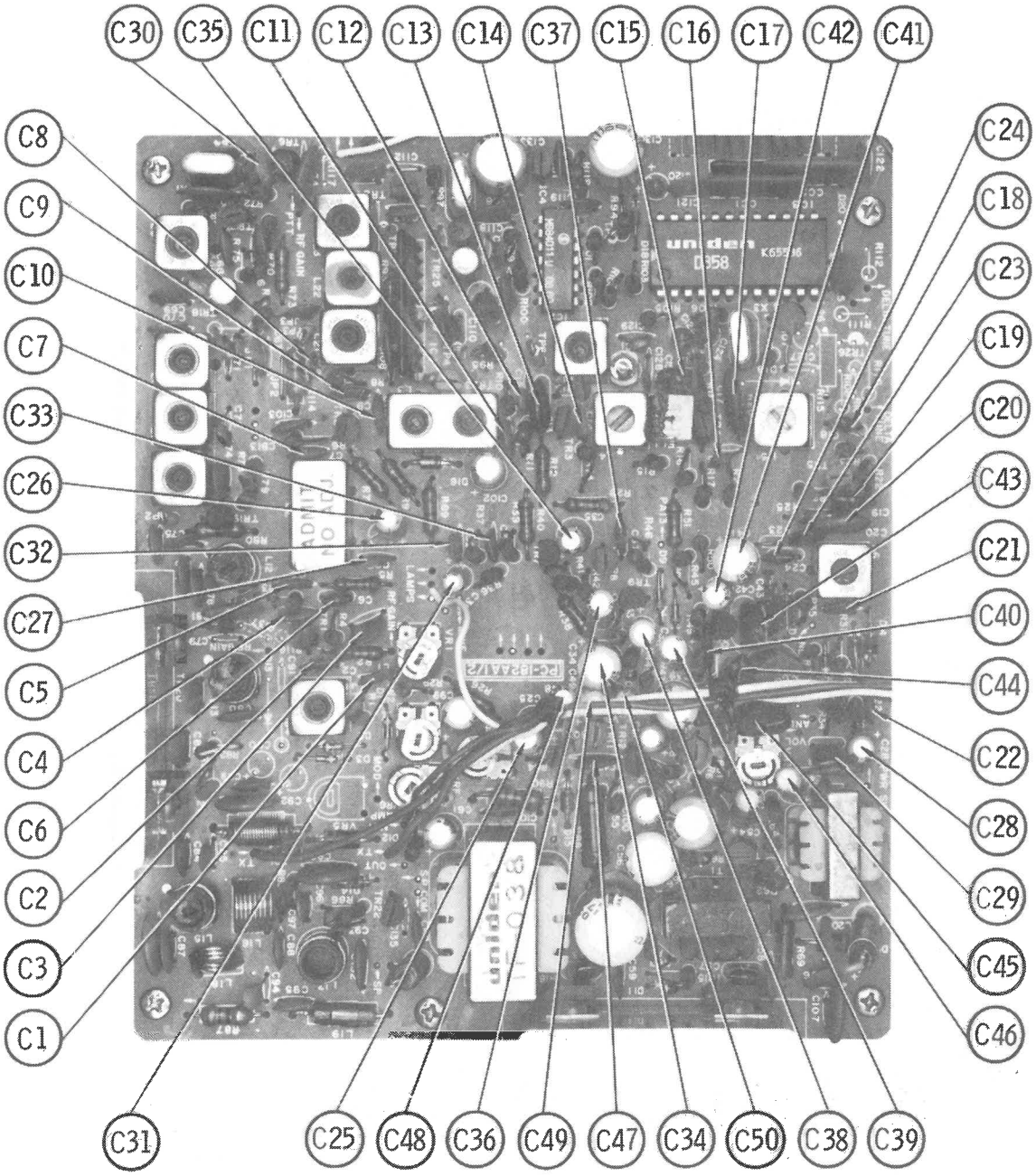
MAIN BOARD


Pin 1
IC3
100
106
C147
C144
PIN 1
IC2
107
PIN 1
IC1
C145
103
99
102
101
C143
97
98
R128
105
C141
R129
104
C142
B
C
E
TR5
C146
C79
B
C
E
TR9
E
TR21
B
E
C
TR7
B
94
C150
C301
B C E
TR14
B E C
TR15
B E C
TR16
B C E
TR22
96
95

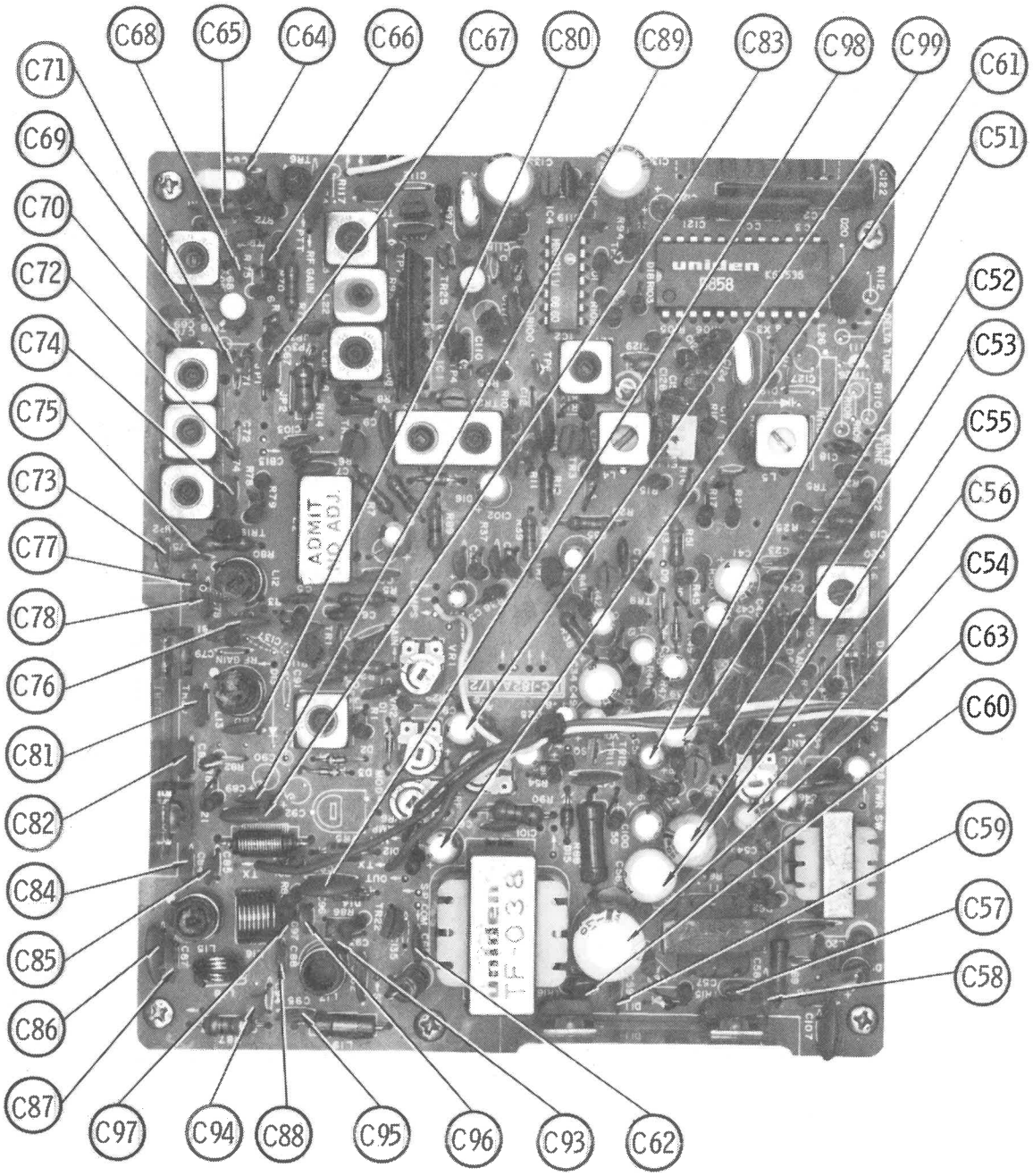
MAIN BOARD


TR6
TR25
TR24
X2
IC4
IC2
TR3
D18
TR7
IC3
X1
X3
TR17
FL1
IC1
TR4
TR18
TR8
D20
TR9
TR23
TR5
TR2
D9
TR19
D7
D16
D6
TR20
D4
D5
TR1
D8
TR21
TR10
D2
D10
D3
TR13
D1
D17
D12
D14
TR22
D15
TR11
TR16
TR12
D11
TR15
TR14

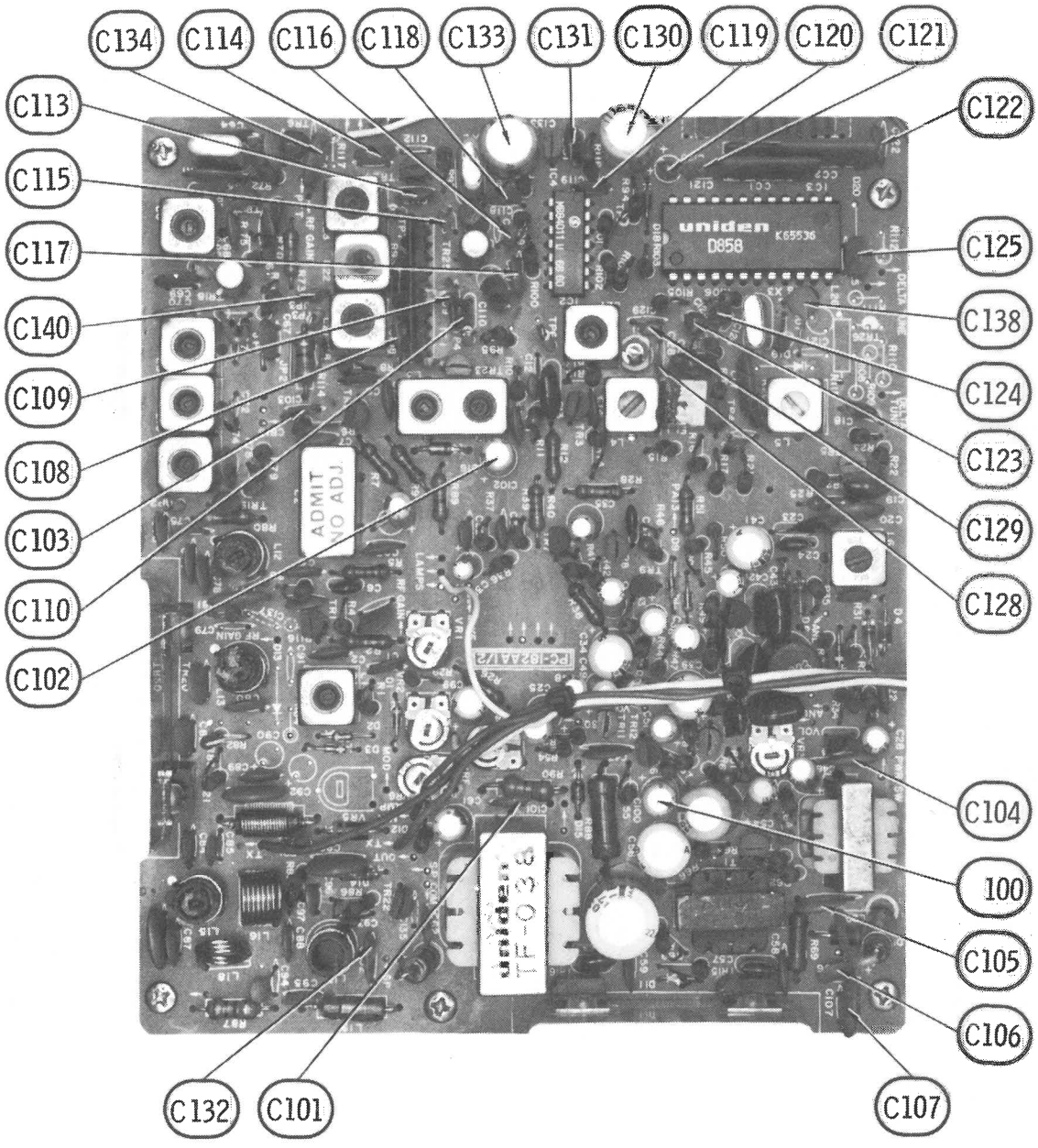
MAIN BOARD


C30
C35
C11
C12
C13
C14
C37
C15
C16
C17
C42
C41
C8
C9
C10
C7
C33
C26
C32
C27
C5
C4
C6
C2
C3
C1
C24
C18
C23
C19
C20
C43
C21
C40
C44
C22
C28
C29
C45
C46
C31
C25
C48
C36
C49
C47
C34
C50
C38
C39

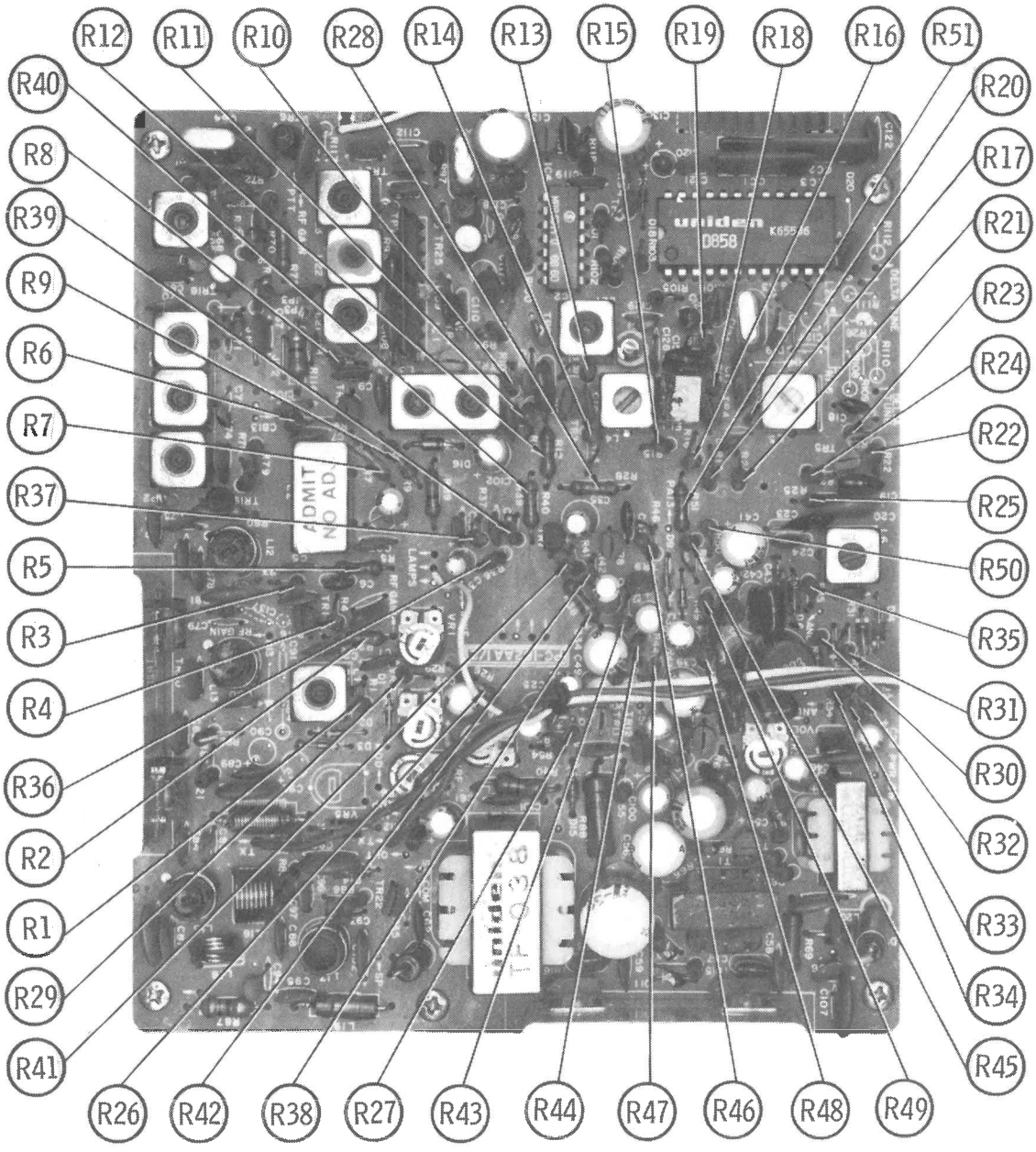
MAIN BOARD


C68
C65
C64
C66
C67
C80
C89
C83
C98
C99
C71
C61
C69
C51
C70
C72
C52
C74
C53
C75
C55
C73
C56
C77
C54
C78
C63
C76
C60
C81
C82
C59
C84
C57
C85
C58
C86
C87
C97
C94
C88
C95
C96
C93
C62
ADMIT
NO ADJ.
uniden
TF-038

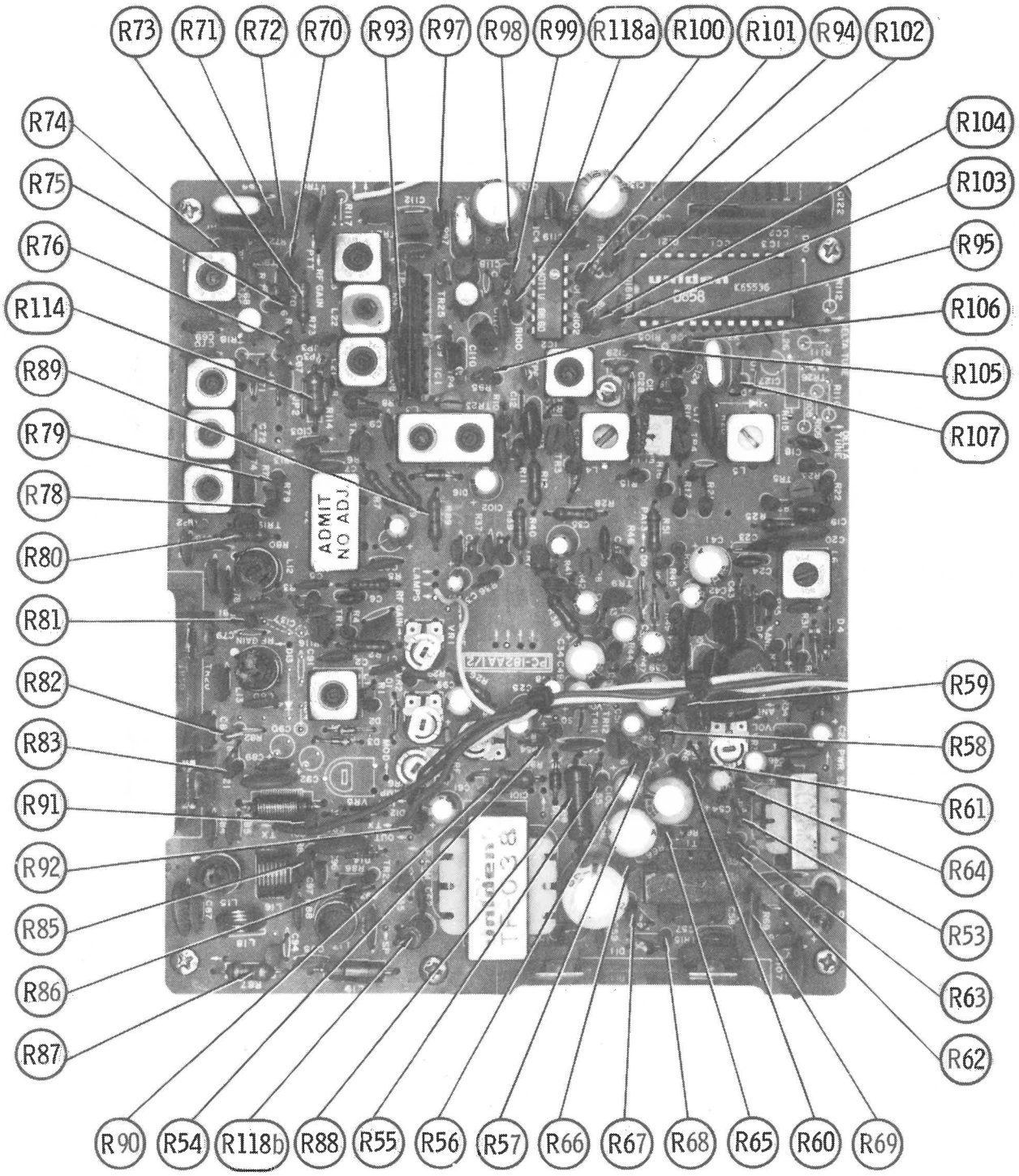
MAIN BOARD


C134
C114
C116
C118
C133
C131
C130
C119
C120
C121
C113
C122
C115
C125
C117
C138
C140
C124
C109
C123
C108
C129
C103
C128
C110
C102
C104
100
C105
C106
C132
C101
C107
unidan
D858
K65536
ADMIT
NO ADJ.
unidan
TF-038

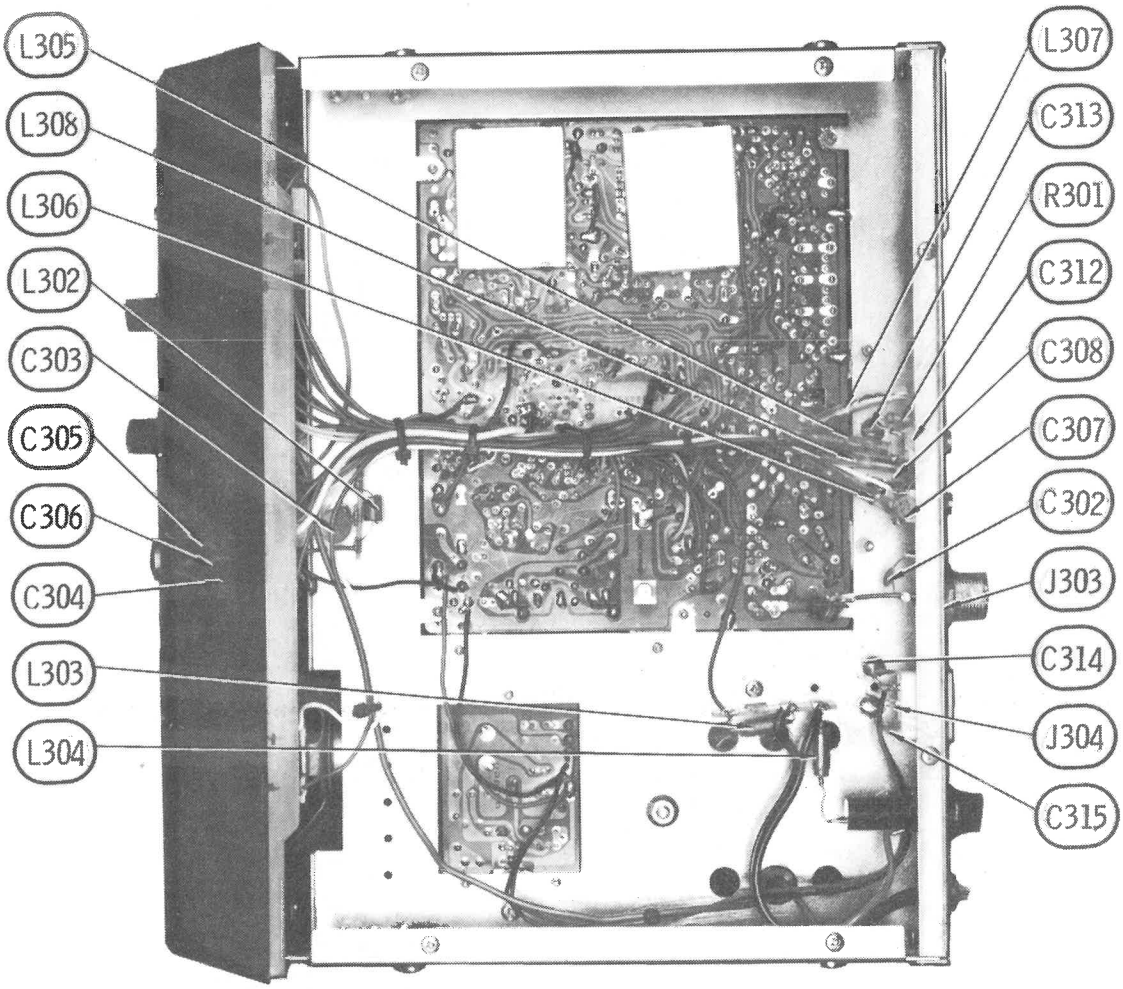
MAIN BOARD


R12
R11
R10
R28
R14
R13
R15
R19
R18
R16
R51
R40
R20
R8
R17
R39
R21
R9
R23
R6
R24
R7
R22
R37
R25
R5
R50
R3
R35
R4
R31
R36
R30
R2
R32
R1
R33
R29
R34
R41
R45
R26
R42
R38
R27
R43
R44
R47
R46
R48
R49

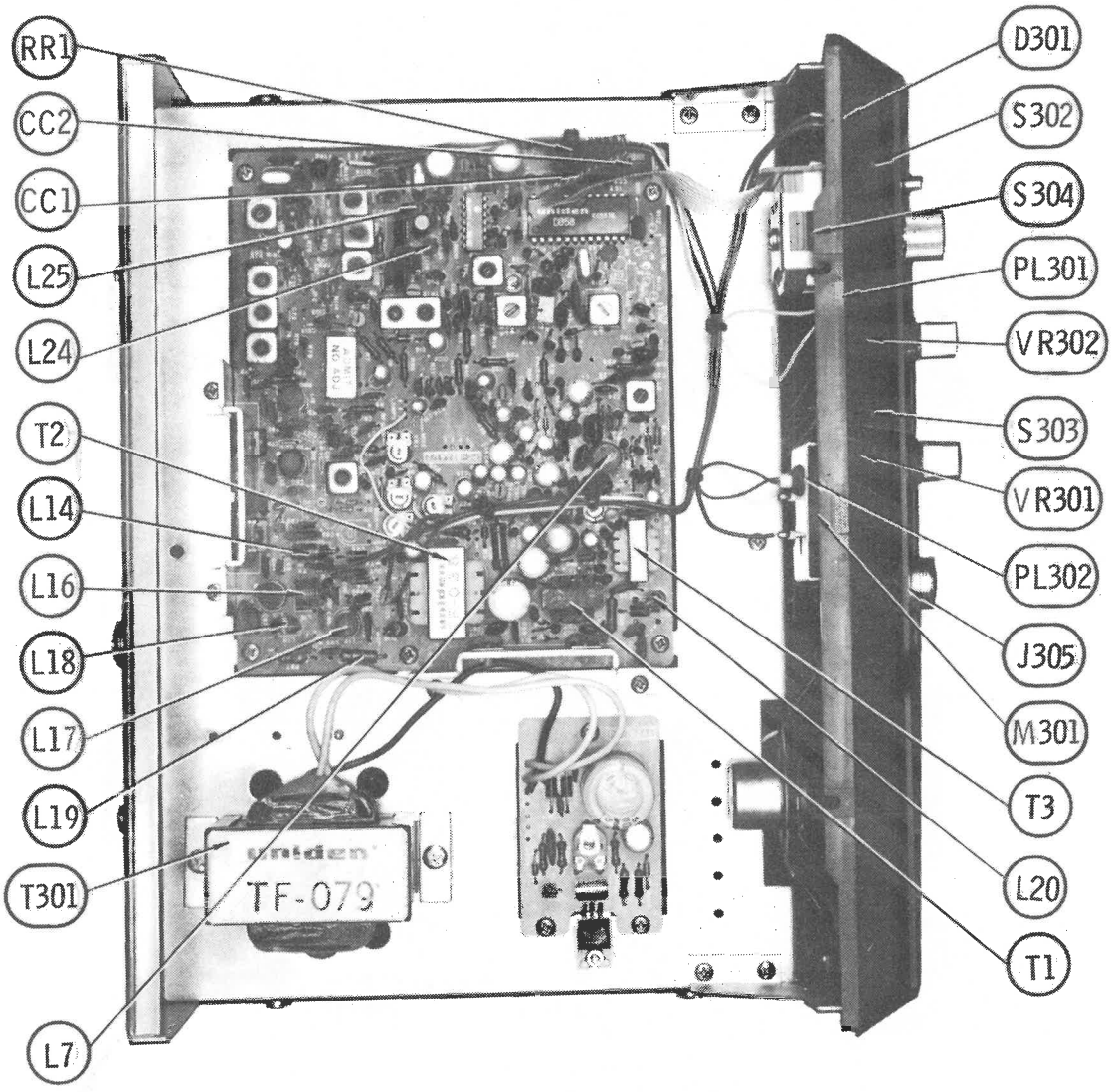
MAIN BOARD


R73
R71
R72
R70
R93
R97
R98
R99
R118a
R100
R101
R94
R102
R74
R75
R76
R114
R89
R79
R78
R80
R81
R82
R83
R91
R92
R85
R86
R87
R104
R103
R95
R106
R105
R107
R59
R58
R61
R64
R53
R63
R62
R90
R54
R118b
R88
R55
R56
R57
R66
R67
R68
R65
R60
R69
ADMIT
NO ADJ

MAIN BOARD



CHASSIS-BOTTOM


RR1
CC2
CC1
L25
L24
T2
L14
L16
L18
L17
L19
T301
L7
D301
S302
S304
PL301
VR302
S303
VR301
PL302
J305
M301
T3
L20
T1
uniden
TF-079

CHASSIS-TOP

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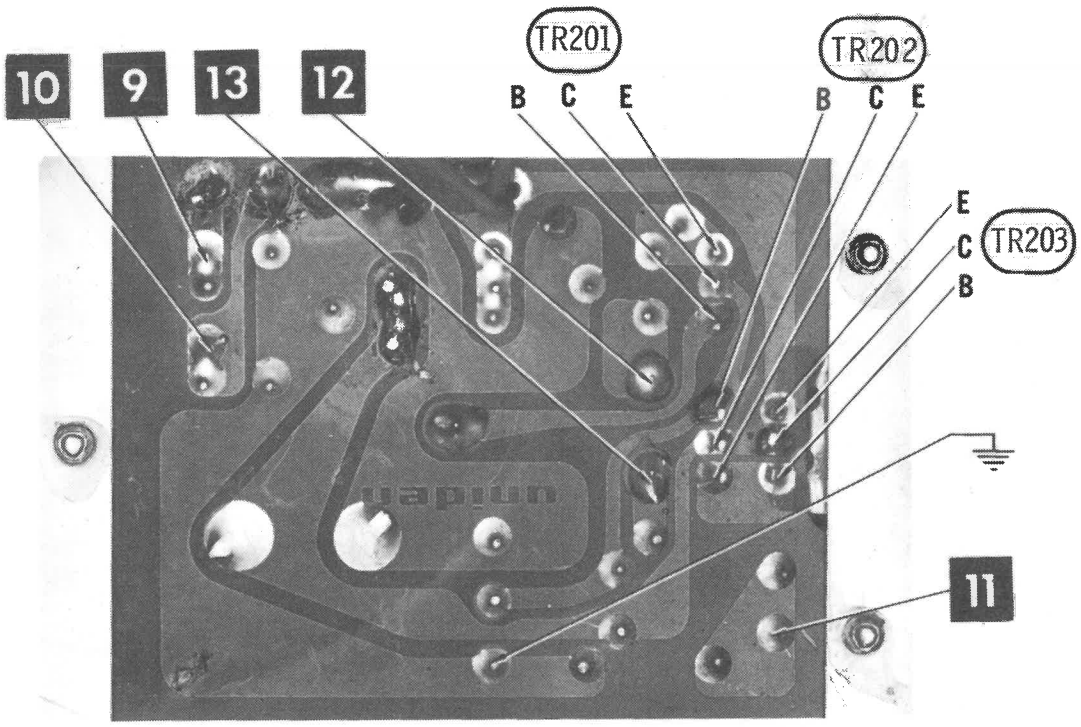
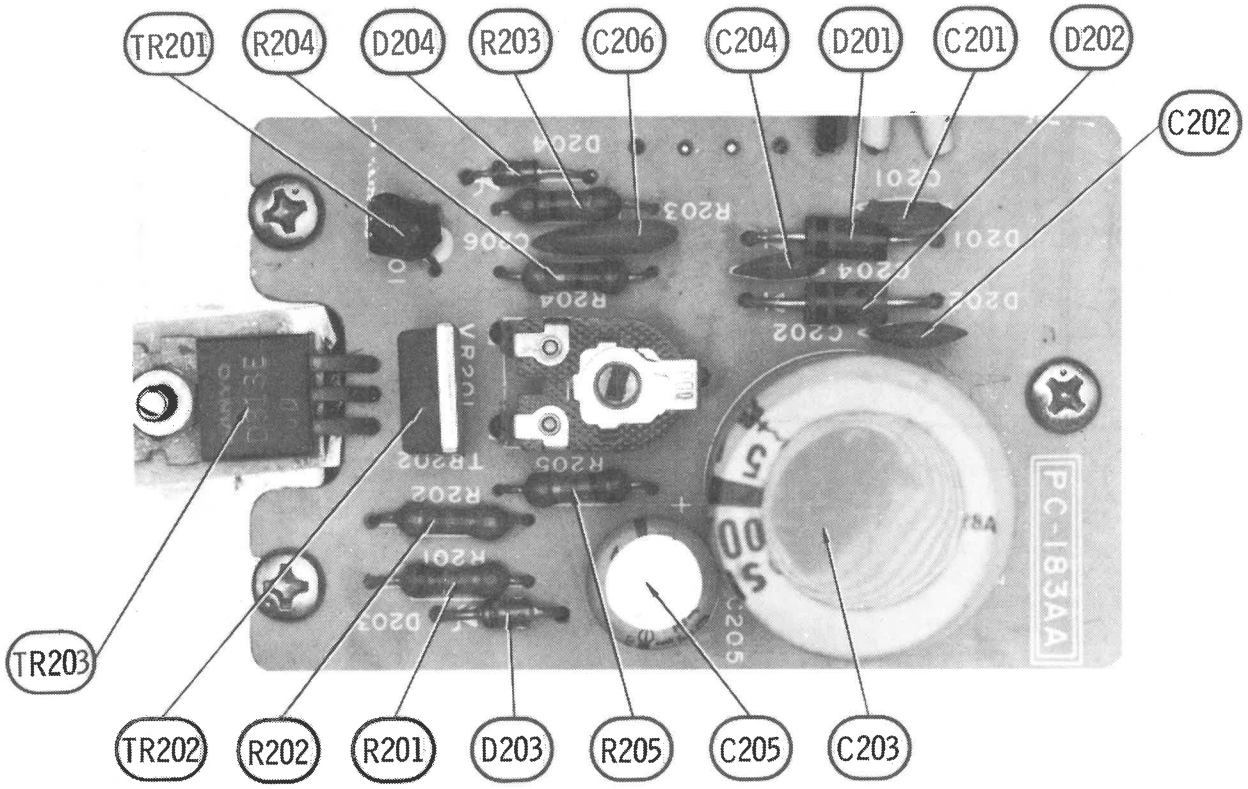
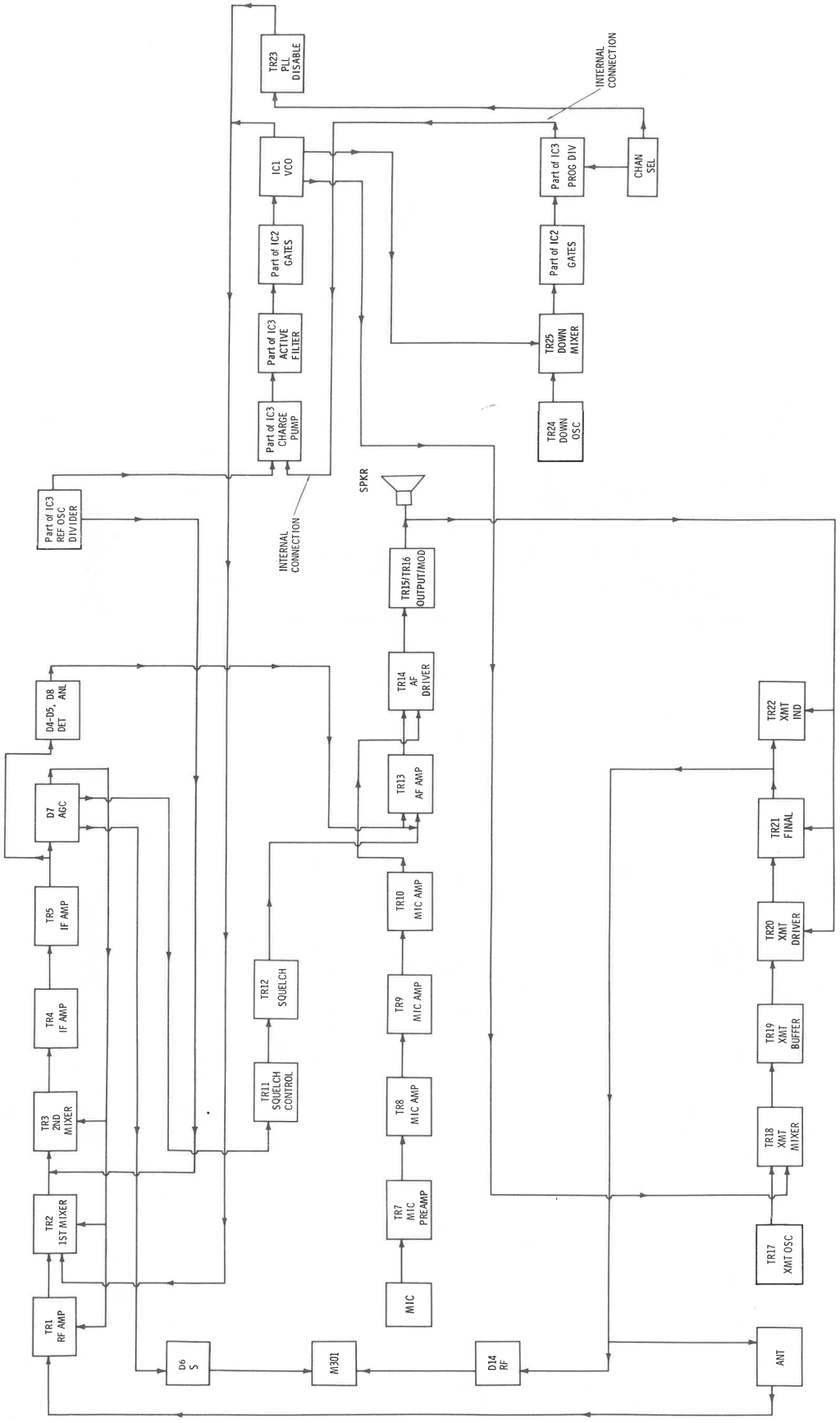
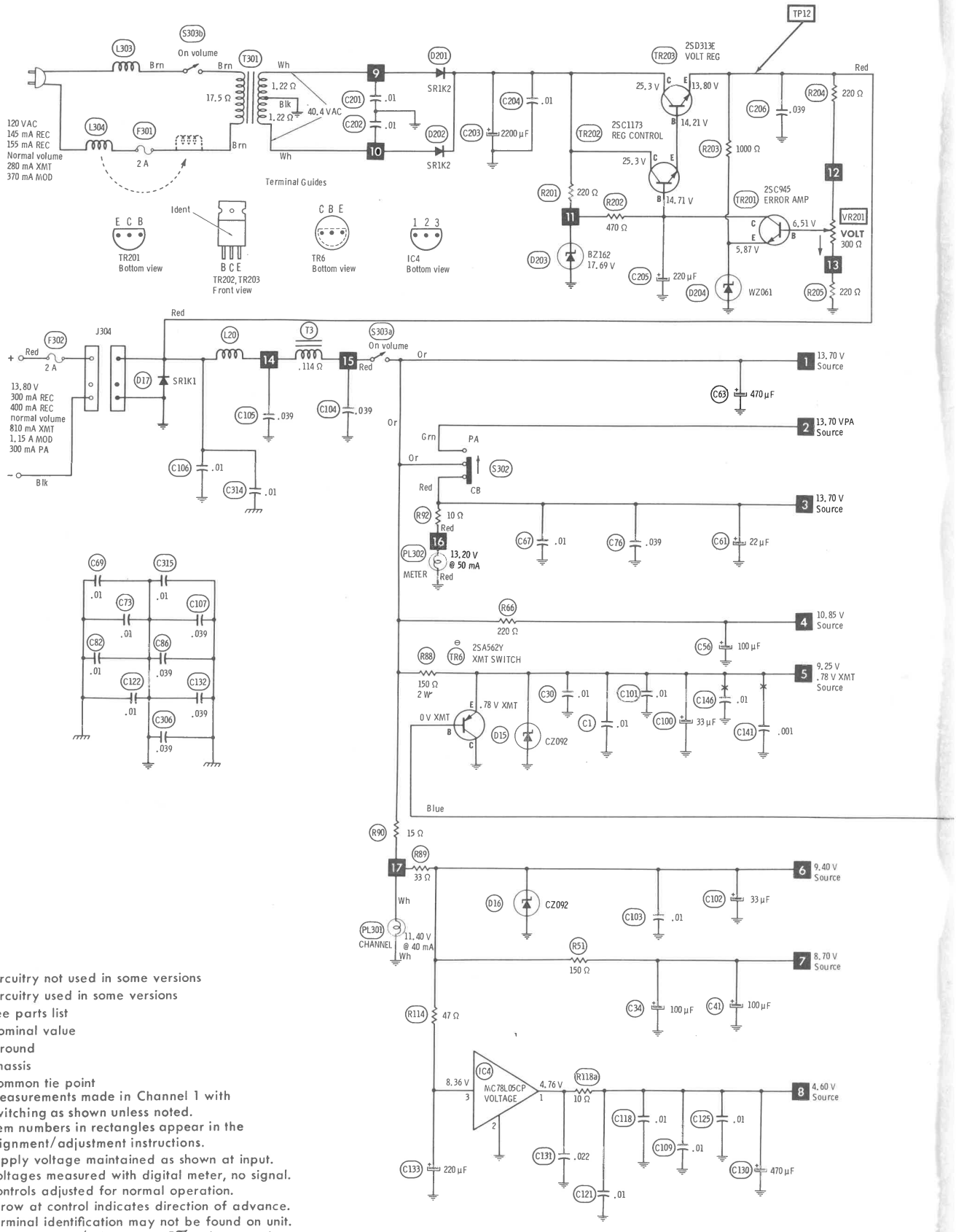




POWER SUPPLY BOARD



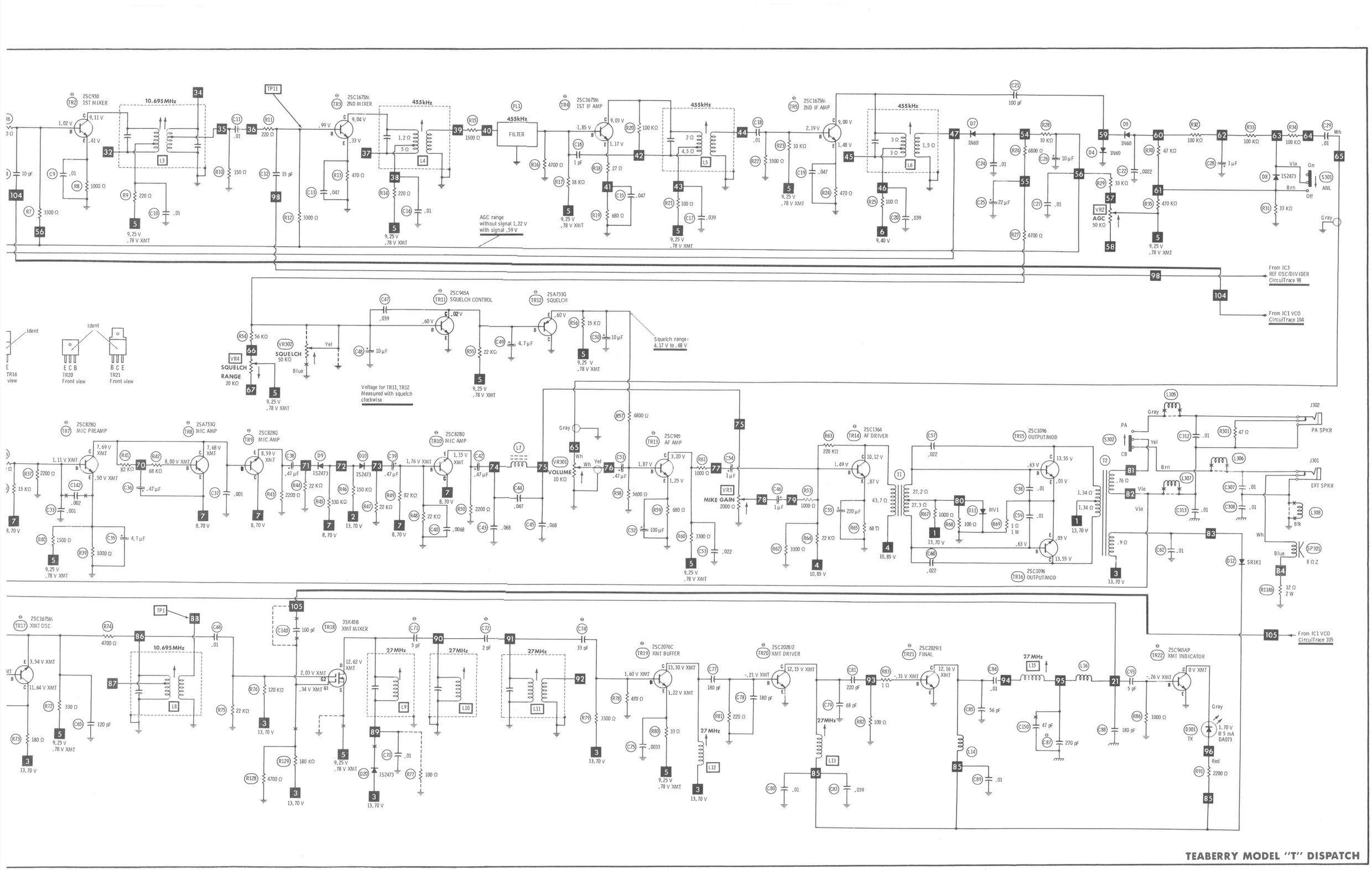
BLOCK DIAGRAM



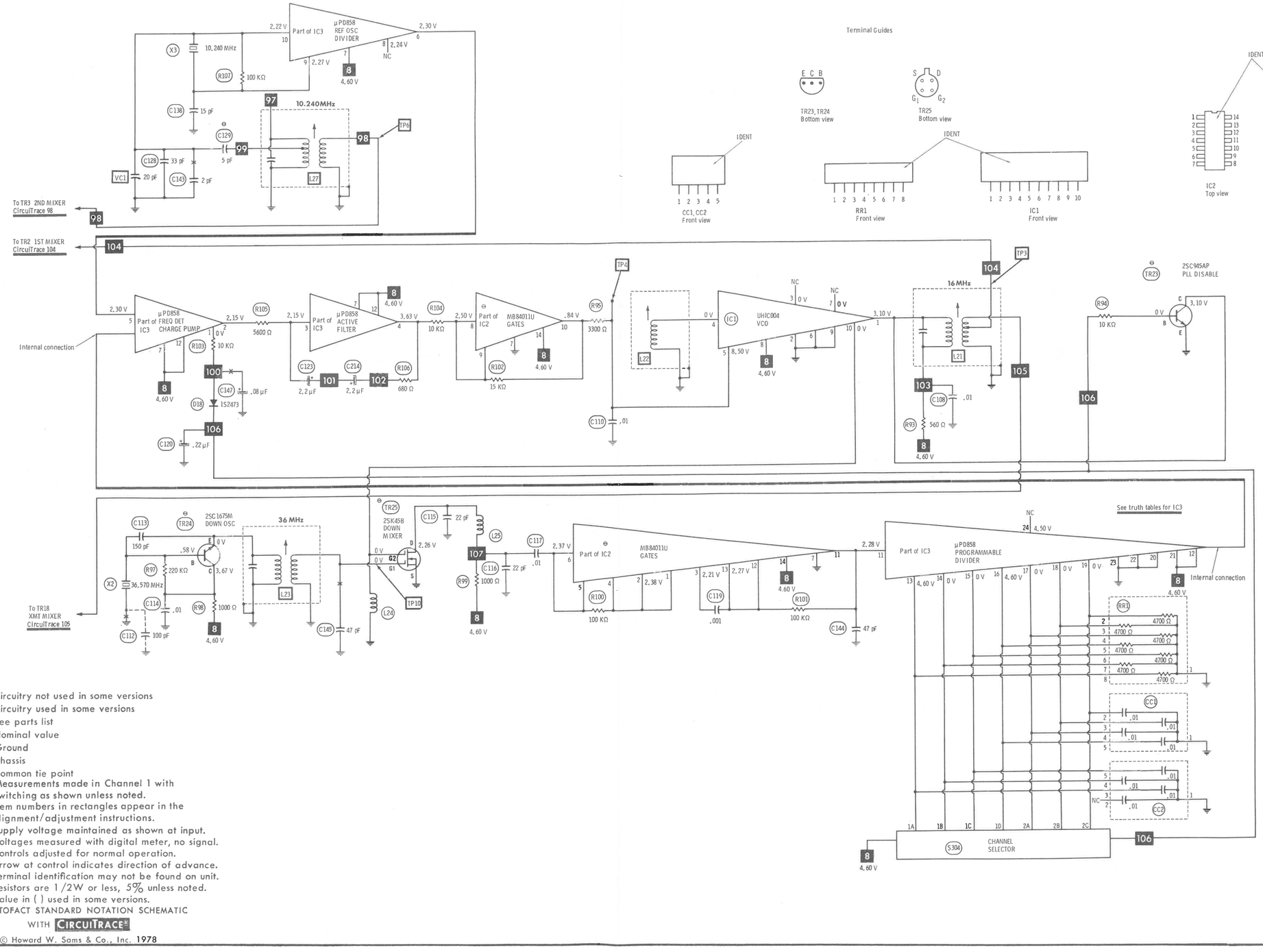
Circuitry not used in some versions
Circuitry used in some versions
⊖ See parts list
※ Nominal value
Ground
Chassis
Common tie point
Measurements made in Channel 1 with switching as shown unless noted.
Item numbers in rectangles appear in the alignment/adjustment instructions.
Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Arrow at control indicates direction of advance.
Terminal identification may not be found on unit.
Resistors are 1/2W or less, 5% unless noted.
Value in { } used in some versions.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE®

TR1 2SC930 RF AMP
TR2 2SC930 1ST MIXER
TR3 2SC1675M 2ND MIXER
TR4 2SC1675M 1ST IF AMP
TR5 2SC1675M 2ND IF AMP
27MHz
10.695MHz
455kHz
FILTER
AGC range without signal 1.22 V with signal .59 V
Terminal Guides
TR1 thru TR5 TR7 thru TR14 TR17, TR19, TR22 Bottom view
TR18 Bottom view
TR15, TR16 Front view
TR20 Front view
TR21 Front view
TR11 2SC945A SQUELCH CONTROL
TR12 2SA733Q SQUELCH
SQUELCH RANGE 20 KΩ
SQUELCH 50 KΩ
Voltage for TR11, TR12 Measured with squelch clockwise
Squelch range 4.17 V to .68 V
S METER 20 KΩ
RF METER 50 KΩ
MIC ASSEMBLY
TR7 2SC828Q MIC PREAMP
TR8 2SA733Q MIC AMP
TR9 2SC828Q MIC AMP
TR10 2SC828Q MIC AMP
TR13 2SC945 AF AMP
TR14 2SC1364 AF DRIVER
VOLUME 10 KΩ
MIKE GAIN 2000 Ω
TR17 2SC1675M XMT OSC
TR18 3SK45B XMT MIXER
TR19 2SC2076C XMT BUFFER
TR20 2SC2028/2 XMT DRIVER
TR21 2SC2029/1 FINAL
10.695 MHz
27MHz



TEABERRY MODEL "T" DISPATCH



A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

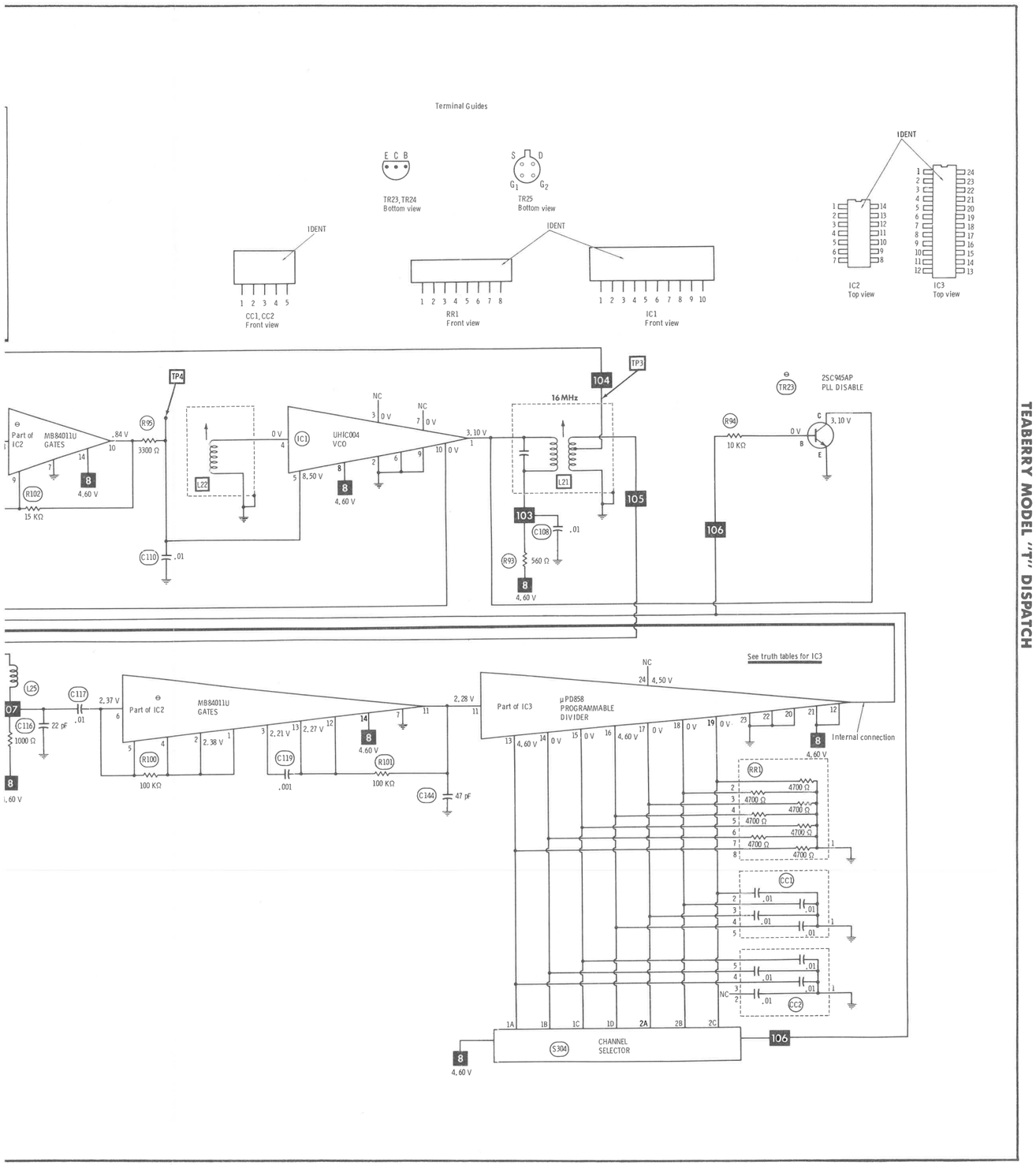
PARTS LIST AND

(When ordering parts, state

SEMICONDUCTORS (Selec

ITEM No.	TYPE No.	MFGR. PART No.	C E P
D1	1S2473	DDAY048001	GE-
D2	1S2473	DDAY048001	GE-
D3	1S2473	DDAY048001	GE-
D4	1N60AM	DDAY001001	1N6
D5	1N60AM	DDAY001001	1N6
D6	1N60AM	DDAY001001	1N6
D7	1N60AM	DDAY001001	1N6
D8	1S2473K	DDAY048007	GE-
D9	1S2473	DDAY048001	GE-
D10	1S2473	DDAY048001	GE-
D11	MV-1	DDFY007001	
D12	SR1K-1	DDAY002001	GE-
D14	1N60AM	DDAY001001	1N6
D15	CZ-092	DDAY010002	GEZ
D16	CZ-092	DDAY010002	GEZ
D17	SR1K-1	DDAY002001	GE-
D18	1S2473	DDAY048001	GE-
D20	1S2473	DDAY048001	GE-
D201	SR1K-2	DDAY002002	GE-
D202	SR1K-2	DDAY002002	GE-
D203	BZ-162	DDAY009003	GEZ
D204	WZ-061	DDAY008001	GEZ
IC1	UHIC004	DDEY087001	
IC2	MB84011U 84011	DDEY089001	
IC3	D858		
IC4	UPD858C MC78L05CP	DDEY055001	
	78L05AV 78L05	DDEY042001	
TR1	2SC930 2SC930D	DDBY261002	GE- GE-
TR2	2SC930 2SC930D	DDBY261002	GE- GE-
TR3	2SC1675M 2SC1675	DDBY259002	GE- GE-
TR4	2SC1675M 2SC1675	DDBY259002	GE- GE-
TR5	2SC1675M 2SC1675	DDBY259002	GE- GE-
TR6	2SA562Y 2SA562	DDBY004001	GE- GE-
TR7	2SC828Q 2SC828	DDBY262001	GE- GE-
TR8	2SA733Q 2SA733	DDBY003002	GE- GE-
TR9	2SC828Q 2SC828	DDBY262001	GE- GE-
TR10	2SC828Q 2SC828	DDBY262001	GE- GE-
TR11	2SC945A,P 2SC945	DDBY224006	GE- GE-
TR12	2SA733Q 2SA733	DDBY003002	GE- GE-
TR13	2SC945A,P 2SC945	DDBY224006	GE- GE-
TR14	2SC1364		GE-
TR15	2SC1364-6 2SC1096	DDBY233001 (12)	GE- GE-
TR16	2SC1096-4ZL 2SC1096	DDBY227004 (12)	GE- GE-
TR17	2SC1096-4ZL 2SC1675M 2SC1675	DDBY227004 DDBY259002	GE- GE- GE-
TR18	3SK45B 3SK45	DDCY104001	GE- GE-
TR19	2SC2076C 2SC2076CB 2SC2076	DDBY270001	GE- GE- GE-
TR20	2SC2028/2 2SC2028-B/20 2SC2028	(13) DDBY256002	GE- GE- GE-
TR21	2SC2029/1 2SC2029-B/10 2SC2029	DDBY257001	GE- GE- GE-
TR22	2SC945A,P 2SC945	DDBY224006	GE- GE-
TR23	2SC945A,P 2SC945	DDBY224006	GE- GE-
TR24	2SC1675M 2SC1675	DDBY259002	GE- GE-
TR25	3SK45B 3SK45	DDCY104001	GE- GE-
TR201	2SC945AR 2SC945	DDBY224004	GE- GE-
TR202	2SC1173-O 2SC1173	DDBY228001	GE- GE-
TR203	2SD313E 2SD313	DDBY407004	GE- GE-

* Lead configuration may vary fro
(12) RATING 10W @ 2A.
(13) RATING 5W @ 1.5A.



PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFGR. 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	1S2473	DDAY048001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D2	1S2473	DDAY048001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D3	1S2473	DDAY048001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D4	1N60AM	DDAY001001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D5	1N60AM	DDAY001001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D6	1N60AM	DDAY001001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D7	1N60AM	DDAY001001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D8	1S2473K	DDAY048007	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D9	1S2473	DDAY048001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D10	1S2473	DDAY048001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D11	MV-1	DDFY007001		PTC301		RE 250			ECG601			
D12	SR1K-1	DDAY002001	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-61
D14	1N60AM	DDAY001001	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D15	CZ-092	DDAY010002	GEZD-9.1	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139	1N4739A	WEP1109	103-272
D16	CZ-092	DDAY010002	GEZD-9.1	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139	1N4739A	WEP1109	103-272
D17	SR1K-1	DDAY002001	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-61
D18	1S2473	DDAY048001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D20	1S2473	DDAY048001	GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D201	SR1K-2	DDAY002002	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-61
D202	SR1K-2	DDAY002002	GE-504A	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116	1N4004	WEP156	212-61
D203	BZ-162	DDAY009003	GEZD-16	ZB16B		RE 122		RT-246	ECG5075A	1N4745A	WEP1160	
D204	WZ-061	DDAY008001	GEZD-6.2	ZB6.2B		RE 109		RT-237	ECG137A	1N4735A	WEP1154	
IC1	UHIC004	DDEY087001							ECG1203			
IC2	MB84011U 84011	DDEY089001							ECG4011 ECG4011			
IC3	D858 UPD858C	DDEY055001							ECG1198 ECG1198			
IC4	MC78L05CP 78L05AV 78L05	DDEY042001				RE 387-IC RE 387-IC RE 387-IC			ECG977 ECG977 ECG977			
TR1	2SC930 2SC930D	DDBY261002	GE-60* GE-60*	PTC132* PTC132*	2SC930 2SC930	RE 9 RE 9	SK3039* SK3039*	RT-308 RT-308	ECG229* ECG229*	2SC930 2SC930	WEP956* WEP956*	ZEN-127 ZEN-127
TR2	2SC930 2SC930D	DDBY261002	GE-60* GE-60*	PTC132* PTC132*	2SC930 2SC930	RE 9 RE 9	SK3039* SK3039*	RT-308 RT-308	ECG229* ECG229*	2SC930	WEP956* WEP956*	ZEN-127 ZEN-127
TR3	2SC1675M 2SC1675	DDBY259002	GE-213 GE-213	PTC139* PTC139*	2SC1675 2SC1675	RE 13* RE 13*	SK3124 SK3124	RT-308 RT-308	ECG229* ECG229*		WEP956* WEP956*	ZEN-127 ZEN-127
TR4	2SC1675M 2SC1675	DDBY259002	GE-213 GE-213	PTC139* PTC139*	2SC1675 2SC1675	RE 13* RE 13*	SK3124 SK3124	RT-308 RT-308	ECG229* ECG229*		WEP956* WEP956*	ZEN-127 ZEN-127
TR5	2SC1675M 2SC1675	DDBY259002	GE-213 GE-213	PTC139* PTC139*	2SC1675 2SC1675	RE 13* RE 13*	SK3124 SK3124	RT-308 RT-308	ECG229* ECG229*		WEP956* WEP956*	ZEN-127 ZEN-127
TR6	2SA562Y 2SA562	DDBY004001	GE-269 GE-269	PTC103* PTC103*	2SA562 2SA562	RE 197* RE 197*	SK3114 SK3114	RT-106 RT-106	ECG290 ECG290	2SA562 2SA562	WEP911 WEP911	121-986 121-986
TR7	2SC828Q 2SC828	DDBY262001	GE-61* GE-61*	PTC121* PTC121*	2SC828 2SC828	RE 192 RE 192	SK3122 SK3122	RT-302 RT-302	ECG199 ECG199	2SC828 2SC828	WEP828 WEP828	ZEN-119 ZEN-119
TR8	2SA733Q 2SA733	DDBY003002	GE-48 GE-48	PTC103* PTC103*	2SA733 2SA733	RE 219 RE 219	SK3138 SK3138	RT-303 RT-303	ECG294 ECG294	2SA733 2SA733	WEP916 WEP916	
TR9	2SC828Q 2SC828	DDBY262001	GE-61* GE-61*	PTC121* PTC121*	2SC828 2SC828	RE 192 RE 192	SK3122 SK3122	RT-302 RT-302	ECG199 ECG199	2SC828 2SC828	WEP828 WEP828	ZEN-119 ZEN-119
TR10	2SC828Q 2SC828	DDBY262001	GE-61* GE-61*	PTC121* PTC121*	2SC828 2SC828	RE 192 RE 192	SK3122 SK3122	RT-302 RT-302	ECG199 ECG199	2SC828 2SC828	WEP828 WEP828	ZEN-119 ZEN-119
TR11	2SC945A,P 2SC945	DDBY224006	GE-212 GE-212	PTC121* PTC121*	2SC945 2SC945	RE 192 RE 192	SK3124 SK3124	RT-107A RT-107A	ECG199 ECG199	2SC945 2SC945	WEP1945 WEP1945	121-Z9000 121-Z9000
TR12	2SA733Q 2SA733	DDBY003002	GE-48 GE-48	PTC103* PTC103*	2SA733 2SA733	RE 219 RE 219	SK3138 SK3138	RT-303 RT-303	ECG294 ECG294	2SA733 2SA733	WEP916 WEP916	
TR13	2SC945A,P 2SC945	DDBY224006	GE-212 GE-212	PTC121* PTC121*	2SC945 2SC945	RE 192 RE 192	SK3124 SK3124	RT-107A RT-107A	ECG199 ECG199	2SC945 2SC945	WEP1945 WEP1945	121-Z9000 121-Z9000
TR14	2SC1364 2SC1364-6	DDBY233001	GE-210* GE-210*	PTC121* PTC121*	2SC1364 2SC1364	RE 13* RE 13*	SK3124 SK3124	RT-308 RT-308	ECG123A* ECG123A*	2SC1364 2SC1364	WEP736* WEP736*	121-Z9000 121-Z9000
TR15	2SC1096 2SC1096-4ZL	(12) DDBY227004	GE-28 GE-28	PTC110 PTC110	2SC1096 2SC1096	RE 42 RE 42	SK3197 SK3197	RT-166 RT-166	ECG186A ECG186A	2SC1096 2SC1096	WEP1096 WEP1096	
TR16	2SC1096 2SC1096-4ZL	(12) DDBY227004	GE-28 GE-28	PTC110 PTC110	2SC1096 2SC1096	RE 42 RE 42	SK3197 SK3197	RT-166 RT-166	ECG186A ECG186A	2SC1096	WEP1096 WEP1096	
TR17	2SC1675M 2SC1675	DDBY259002	GE-213 GE-213	PTC139* PTC139*	2SC1675 2SC1675	RE 13* RE 13*	SK3124 SK3124	RT-308 RT-308	ECG229* ECG229*		WEP956* WEP956*	ZEN-127 ZEN-127
TR18	3SK45B 3SK45	DDCY104001	GE-FET-4 GE-FET-4	PTC182 PTC182	HEPF2004 HEPF2004	RE 199 RE 199	SK3050 SK3050	RT-181 RT-181	ECG222 ECG222		WEP905 WEP905	121-826 121-826
TR19	2SC2076C 2SC2076CB 2SC2076	DDBY270001	GE-210* GE-210* GE-210*	PTC121* PTC121* PTC121*	HEPS0015* HEPS0015* HEPS0015*	RE 13* RE 13* RE 13*	SK3122 SK3122 SK3122	RT-308 RT-308 RT-308	ECG123A ECG123A ECG123A		WEP736 WEP736 WEP736	121-722 121-722 121-722
TR20	2SC2028/2 2SC2028-B/20	(13) DDBY256002	GE-270 GE-270	PTC180 PTC180	HEPS3044 HEPS3044	RE 209 RE 209			ECG295 ECG295		WEP913 WEP913	
TR21	2SC2028 2SC2029/1 2SC2029-B/10	DDBY257001	GE-270 GE-333 GE-333	PTC180 PTC186 PTC186	HEPS3044	RE 209 RE 203 RE 203	SK3197 SK3197	RT-146 RT-146	ECG295 ECG235 ECG235		WEP913 WEP785 WEP785	
TR22	2SC2029 2SC945A,P 2SC945	DDBY224006	GE-333 GE-212 GE-212	PTC186 PTC121* PTC121*	2SC945 2SC945	RE 203 RE 192 RE 192	SK3197 SK3124 SK3124	RT-146 RT-107A RT-107A	ECG235 ECG199 ECG199	2SC945 2SC945	WEP785 WEP1945 WEP1945	121-Z9000 121-Z9000
TR23	2SC945A,P 2SC945	DDBY224006	GE-212 GE-212	PTC121* PTC121*	2SC945 2SC945	RE 192 RE 192	SK3124 SK3124	RT-107A RT-107A	ECG199 ECG199	2SC945 2SC945	WEP1945 WEP1945	121-Z9000 121-Z9000
TR24	2SC1675M 2SC1675	DDBY259002	GE-213 GE-213	PTC139* PTC139*	2SC1675 2SC1675	RE 13* RE 13*	SK3124 SK3124	RT-308 RT-308	ECG229* ECG229*		WEP956* WEP956*	ZEN-127 ZEN-127
TR25	3SK45B 3SK45	DDCY104001	GE-FET-4 GE-FET-4	PTC182 PTC182	HEPF2004 HEPF2004	RE 199 RE 199	SK3050 SK3050	RT-181 RT-181	ECG222 ECG222		WEP905 WEP905	121-826 121-826
TR201	2SC945AR 2SC945	DDBY224004	GE-212 GE-212	PTC121* PTC121*	2SC945 2SC945	RE 192 RE 192	SK3124 SK3124	RT-107A RT-107A	ECG199 ECG199	2SC945 2SC945	WEP1945 WEP1945	121-Z9000 121-Z9000
TR202	2SC1173-O 2SC1173	DDBY228001	GE-215 GE-215	PTC186 PTC186	2SC1173 2SC1173	RE 201 RE 201	SK3197 SK3197	RT-160 RT-160	ECG236 ECG236	2SC1173 2SC1173	WEP840 WEP840	
TR203	2SD313E 2SD313	DDBY407004	GE-241 GE-241	PTC154 PTC154		RE 205 RE 205	SK3054 SK3054	RT-154 RT-154	ECG196 ECG196		WEP756 WEP756	

* Lead configuration may vary from original.
(12) RATING 10W @ 2A.
(13) RATING 5W @ 1.5A.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C25	22 16V	CELF312200	PC25-25	VTT22B16	QV1-55	EV-1224
C26	10 16V	CELF311000	PC10-25	VTT10B25	QV1-41	EV-1222
C28	1 50V	CELF811090	PC1-50	VTT1A50	QV1-11	EV-1615
C31	.1 16V	CAAH311086		TDC104M050EL	QDT1-2	SD50-R109
C34	100 10V	CELF111010	PC100-10	VTT100E10	QV1-93	EV-1130
C35	4.7 25V	CELF514790	PC5-50	VTT4R7B50	QV1-27	EV-1319
C36	.47 50V	CELF814780	PC1-50	VTTR47A63	QV1-3	EV-1610
C38	.47 50V	CELF814780	PC1-50	VTTR47A63	QV1-3	EV-1610
C39	.47 50V	CELF814780	PC1-50	VTTR47A63	QV1-3	EV-1610
C41	100 10V	CELF111010	PC100-10	VTT100E10	QV1-93	EV-1130
C42	.47 50V	CELF814780	PC1-50	VTTR47A63	QV1-3	EV-1610
C46	1 50V	CELF811090	PC1-50	VTT1A50	QV1-11	EV-1615
C48	10 16V	CELF311000	PC10-25	VTT10B25	QV1-41	EV-1222
C49	4.7 25V	CELF514790	PC5-50	VTT4R7B50	QV1-27	EV-1319
C50	10 16V	CELF311000	PC10-25	VTT10B25	QV1-41	EV-1222
C51	.47 50V	CELF814780	PC1-50	VTTR47A63	QV1-3	EV-1610
C52	100 10V	CELF111010	PC100-10	VTT100E10	QV1-93	EV-1130
C54	1 50V	CELF811090	PC1-50	VTT1A50	QV1-11	EV-1615
C55	220 16V	CELF312210	PC250-25	VTT220H16	QV1-117	EV-1240
C56	100 16V	CELF311010	PC100-16	VTT100F16	QV1-95	EV-1230
C61	22 16V	CELF312200	PC25-25	VTT22B16	QV1-55	EV-1224
C63	470 16V	CELF314710	PC500-16	VTT470K16	QV1-151	EV-1250
C99	47 10V	CELF114700	PC50-16	VTT47D16	QV1-73	EV-1226
C100	33 16V	CELF313300	PC30-25	VTT33D25	QV1-63	EV-1325
C102	33 16V	CELF313300	PC30-25	VTT33D25	QV1-63	EV-1325
C120	.22 16V	CAAH312286		TDC224M050EL	QDT1-10	SD50-R229
C123	2.2 16V	CSEN312296		TDC225M035FL		SD35-2R29
C124	2.2 16V	CSEN312296		TDC225M035FL		SD35-2R29
C130	470 6.3V	CELF904710	PC500-16	VTT470K16	QV1-149	EV-1150
C133	220 16V	CELF312210	PC250-25	VTT220H16	QV1-117	EV-1240
C147	.08					
C203	2200 25V	CEZY003001	WBR2000-25	TC2520A	QE1-645	TVA-1213.5
C205	220 16V	CELF312210	PC250-25	VTT220H16	QV1-117	EV-1240

CAPACITORS

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
C1	.01 50V		UK50-103		MAG5011		
C2	.01 50V		UK50-103		MAG5011		
C3	.01 50V		UK50-103		MAG5011		
C4	.01 50V		UK50-103		MAG5011		
C5	.01 50V		UK50-103		MAG5011		
C6	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C7	.01 50V		UK50-103		MAG5011		
C8	10 NPO 50V 10%		DTZ-10	NP010	CN0410		10TCC-Q10
C9	.01 50V		UK50-103		MAG5011		
C10	.01 50V		UK50-103		MAG5011		
C11	.01 50V		UK50-103		MAG5011		
C12	15 50V 10%		DTZ-15	NP015	CN0415		10TCC-Q15
C13	.047 50V 10%			DPMS2S47	EWF1A147	QFT2-171	1FT-S47
C14	.01 50V 10%		UK50-103		MAG5011		
C15	.047 50V 10%			DPMS2S47	EWF1A147	QFT2-171	1FT-S47
C16	1 NPO 50V ±.25	CCCB811091					
C17	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C18	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C19	.047 50V 10%			DPMS2S47	EWF1A147	QFT2-171	1FT-S47
C20	.039 50V 10%				M192P3939R8	QFT2-159	1FT-S39
C21	100 50V 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C22	.0022 50V 10%				M192P2229R8		192P2229R8
C23	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C24	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C27	.01 50V		UK50-103		MAG5011		
C29	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C30	.01 50V		UK50-103		MAG5011		
C32	.001 50V		DD-102		GP210		10TS-D10
C33	.001 50V		DD-102		GP210		10TS-D10
C37	.001 50V 10%			DPMS6D1	EWF1A210	QFT2-1	1FT-D10
C40	.0068 50V 10%			WMF1D68	EWF1A268	QFT2-73	1FT-D68
C43	.068 50V 10%			WMF1S68	EWF1A168	QF1-195	1PB-S68
C44	.047 50V 10%			DPMS2S47	EWF1A147	QFT2-171	1FT-S47
C45	.068 50V 10%			WMF1S68	EWF1A168	QF1-195	1PB-S68
C47	.039 50V				M192P3939R8	QFT2-59	1FT-S39
C53	.022 50V 10%				M192P2239R8	QFT2-127	1FT-S22
C57	.022 50V 10%				M192P2239R8	QFT2-127	1FT-S22
C58	.01 50V		UK50-103		MAG5011		
C59	.01 50V		UK50-103		MAG5011		
C60	.022 50V 10%				M192P2239R8	QFT2-127	1FT-S22
C62	.01 50V		UK50-103		MAG5011		
C64	390 50V 10%		DD-391	GP390	GP339		10TS-T39
C65	120 NPO 10%		DTZ-120		CN0312		10TCC-T12
C66	.01 50V		UK50-103		MAG5011		
C67	.01 50V		UK50-103		MAG5011		
C68	.01 50V		UK50-103		MAG5011		
C69	.01 50V		UK50-103		MAG5011		
C70	.01 50V		UK50-103		MAG5011		
C71	5 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47
	3 NPO 50V ±.25	CCCB813091					
C72	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
	3 NPO 50V ±.25	CCCB813091					
C73	.01 50V		UK50-103		MAG5011		

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
C74	33 NPO 5%		DTZ-33	NP033	CN0433		10TCC-Q33
	22 50V 10%		DTZ-22	NP022	CN0422		10TCC-Q22
C75	.0033 50V		DD-332	GP3300	GP233	QC2-107	5GA-D33
C76	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C77	180 50V 10%		DTZ-180				10TCC-T18
C78	180 50V 10%		DTZ-180				10TCC-T18
C79	68 50V 10%		DTZ-68	NP068	CN0468		10TCC-Q68
C80	.01 50V		UK50-103		MAG5011		
C81	220 50V 10%		DTZ-220				10TCC-T22
C82	.01 50V		UK50-103		MAG5011		
C83	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C84	.01 50V		UK50-103		MAG5011		
C85	56 50V 10%				CN0456		10TCC-Q56
C86	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C87	270 50V 10%		DTZ-270				10TCC-T27
C88	180 10%		DD-181		GP318		10TS-T18
	270 50V 10%		DTZ-270				10TCC-T27
C89	.01 50V		UK50-103		MAG5011		
C93	5 NPO 50V ±.25	CCCB815091					
C94	22 50V 10%		DTZ-22	NP022	CN0422		10TCC-Q22
C95	180 50V 10%		DD-181		GP318		10TS-T18
C96	27 N220 50V 10%	CCRB812705			*		10TCR-Q27
C97	2 NPO 50V ±.25	CCCB812091					
C98	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C101	.01 50V		UK50-103		MAG5011		
C103	.01 50V		UK50-103		MAG5011		
C104	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C105	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C106	.01 50V		UK50-103		MAG5011		
C107	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C108	.01 50V		UK50-103		MAG5011		
C109	.01 50V		UK50-103		MAG5011		
C110	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C112	100 50V 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C113	150 50V 10%		DTZ-150		CN0315		10TCC-T15
C114	.01 50V		UK50-103		MAG5011		
C115	22 50V 10%		DTZ-22	NP022	CN0422		10TCC-Q22
C116	22 50V 10%		DTZ-22	NP022	CN0422		10TCC-Q22
C117	.01 50V		UK50-103		MAG5011		
C118	.01 50V		UK50-103		MAG5011		
C119	.01 50V		UK50-103		MAG5011		
C121	.01 50V		UK50-103		MAG5011		
C122	.01 50V		UK50-103		MAG5011		
C125	.01 50V		UK50-103		MAG5011		
C128	33 NPO 50V 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C129	5 N220				*		10TCR-V50
	.01 50V		UK50-103		MAG5011		
C131	.022 50V 10%				M192P2239R8	QFT2-127	1FT-S22
C132	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C134	.039 50V				M192P3939R8	QFT2-159	1FT-S39
C138	15 NPO 10%		DTZ-15	NP015	CN0415		10TCC-Q15
C140	100 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C141	.001		DD-102		GP210		10TS-D10
C142	.002 50V 10%			DPMS6D2	PVC622		6PS-D20
C143	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C144	47 N220 5%				*		10TCR-Q47
C145	47 N220 5%				*		10TCR-Q47
C146	.01 50V		UK50-103		MAG5011		
C150	47		DTZ-47	NP047	CN0447		10TCC-Q47
C201	.01 50V		UK50-103		MAG5011		
C202	.01 50V		UK50-103		MAG5011		
C204	.01 50V		UK50-103		MAG5011		
C206	.039 50V				M192P3939R8		192P3939R8
C301	47 NPO 5%		DTZ-47	NP047	CN0447		10TCC-Q47
C302	120		DTZ-120		CN0312		10TCC-T12
C303	.039 50V				M192P3939R8		192P3939R8
C304	.039 50V				M192P3939R8		192P3939R8
C305	.001 50V		DD-102		GP210		10TS-D10
C306	.039 50V				M192P3939R8		192P3939R8
C307	.01 50V		UK50-103		MAG5011		
C308	.01 50V		UK50-103		MAG5011		
C312	.01 50V		UK50-103		MAG5011		
C313	.01 50V		UK50-103		MAG5011		
C314	.01		UK50-103		MAG5011		
C315	.01 50V		UK50-103		MAG5011		
CC1		HHAY003001(1)					
CC2		HHAY003001(1)					
VC1	20	CCVY023005					

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
(1) Consists of four .01pF capacitors.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	S Meter	20K	RRVY182006				U260R253B
VR2	AGC	50K	RRVY182007				U260R504B
VR3	Mike Gain	2000	RRVY182003				U260R252B
VR4	Squelch Range	20K	RRVY182006				U260R253B
VR6	RF Meter	50K	RRVY182007				U260R504B
VR201	Voltage	300	RRVY104002	T-300 (3)		MTC32L1 (3)	X201R351B (3)
VR301	Volume/Switch	10K	RRVY206001	F2-10K(1), SSK012,KR7	NP-10K-Z(1), UP-C-400,NWE-20	RU14A,SL36, SL1500,US-43	BU1(1),CF61, SS1,WF
VR302	Squelch	50K	RRVY071001				

(1) Enlarge mounting hole.
(3) For horizontal mounting, bend the two outside terminals to fit PC board. Use jumper to connect center terminal to PC board.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

RESISTORS (Power and Special)

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

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.

(1) Consists of eight 470 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	CBS740-T	
L2	RF Amp (27MHz)	LLAY154001	LA-154		
L3	IF (10.695MHz)	LLAY153001	LA-153		
L4	IF (455kHz)	LLAY163001	LA-163		
L5	IF (455kHz)	LLAY164001	LA-164		
L6	IF (455kHz)	LLAY107001	LA-107	8517	
L7	RF Choke (33uH)	LLZY01519	LZ-015		
L8	IF (10.695MHz)	LLAY120001	LA-120		
L9	IF Mixer (27MHz)	LLAY148001	LA-148		
L10	IF Mixer (27MHz)	LLAY148001	LA-148		
L11	IF Mixer (27MHz)	LLAY146001	LA-146		
L12	XMT Buffer	LLCY019001	LC-019	CB305	
L13	XMT Driver	LLCY017001	LC-017	CB303	
L14	RF Choke	LLDY012001	LD-012	4588	
L15	Final (27MHz)	LLCY019001	LC-019	CB305	
L16	RF Choke	LLEY062001	LE-062		
L17	RF Choke	LLCY119001	LC-119		
L18	RF Choke	LLEY063001	LE-063		
L19	RF Choke	LLDY066001	LD-066		
L20	RF Choke	LLDY027001	LD-027		
L21	VCO Output (16MHz)	LLAY192001	LA-192		
L22	VCO Input	LLAY187001	LA-187		
L23	Down OSC (36MHz)	LLAY186001	LA-186		
L24	RF Choke (1.5uH)	LLZY002003	LZ-002		
L25	RF Choke (100uH)	LLZY001013	LZ-001		
L27	Ref Osc (10.240MHz)	LLAY182001	LA-182		
L301	Ant Match (27MHz)	LLCY122001	LC-122		
L302	RF Choke	LLCY132001	LC-132		
L303	RF Choke	LLDY027001	LD-027		
L304	RF Choke	LLDY027001	LD-027		
L305	RF Choke				
L306	RF Choke				
L307	RF Choke				
L308	RF Choke				

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.	
T3	1.25A	.114	1mH	TTFY017001 TF-017(1)	TR507		(1) Number on unit.

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	1	1CT		TTFY011001 TF-011(1)	TR635		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE			REPLACEMENT DATA			NOTES
	PRI.	SEC.		MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	32	1 8	2 18	TTFY038001 TF-038 (1)	TR754	MCB-8	(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T301	120V AC @ 370mA DC	40.4V DC @ 1500mA AC	TTFY079001 TF-079 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP301	4" PM 8 Ohms	ASPY003001	4A1Z8	

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

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
F301	Quick Acting (2A)	ZFSY001007	WWZY001001	AGC	HKL	312002		FG2-2
F302	Quick Acting (2A)	ZFSY001007	WZDZ070088	AGC	HDJ	312002	150145	FG2-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
D301	LED	DDAY073001	LR0702R
FL1	Filter	FFLY019001	455kHz (FL-019)
J301	Jack	JJKY010001	External Speaker (JK-010)
J302	Jack	JJKY010001	PA (JK-010)
J303	Jack	JJKY035001	Antenna (JK-035)
J304	Jack	JJKY052001	DC Power
J305	Jack	JJKY058001	MIC (JK-058)
M301	Meter	ZMTY028001	S-RF (MT-028)
PL301	Lamp	VPLY005012	Channel (11.90V @ 40mA) (PL-005)
PL302	Lamp	VPLY005003	Meter (13.20V @ 50mA) (PL 005)
S301	Switch	SSNY054001	ANL (SW-054)
S302	Switch	SSWY054001	CB-PA (SW-054)
S304	Switch	SSRY153001	Channel Selector (SR-153)
X1	Crystal	QQXY078001	10.695MHz (QX-078)
X2	Crystal	QQXY079001	36.570MHz (QX-079)
X3	Crystal	QQXY077001	10.240MHz (QX-077)
	Cord	WZDZ070088	DC (W-070088)
	Cord	WWZY001001	AC (WZ-001)
	PC Board	PPCY182011	Main (PC-182AA)
	PC Board	PPCY183011	Power Supply (PC-183AA)

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

ITEM	PART No.
Chassis	MDBP203893
Control Plate	MDNP303916
Front Panel	MDMP103915

ITEM	PART No.
Knob, Channel	MDMP403879
Knob, Control	MDMP402825

WIRING DATA

General-use Hook-up Wire (available in 5 colors) BELDEN No. 8523
Shielded Hook-up Wire (spiral wrapped) . . . . . BELDEN No. 8421
(braided) . . . . . BELDEN No. 8401
Speaker Cable (available in 4 colors) . . . . . BELDEN No. 8782
Bonding Strap . . . . . BELDEN No. 8672
AC Power Cord . . . . . (6') BELDEN No. 17106
(9') BELDEN No. 17109

Coiled Microphone Cable
3-conductor (1 shielded) 23AWG BELDEN No. 9471 (5')
BELDEN No. 8497 (6')
BELDEN No. 9472 (7-1/2')
28AWG BELDEN No. 9466 (6')
31AWG BELDEN No. 9468 (10')
4-conductor (unshielded) 23AWG BELDEN No. 8415 (6')
5-conductor (1 shielded) 28AWG BELDEN No. 9467 (6')
BELDEN No. 9465 (7-1/2')