

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

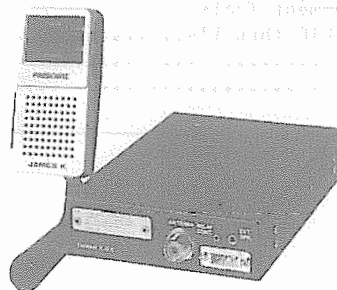
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(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 1015001, JAMES K.

MANUFACTURER'S SPECIFICATIONS

SPECIFICATIONS

GENERAL

Channels:	40
Frequency Coverage:	26.965 MHz to 27.405 MHz
Frequency Control:	Phase Locked Loop (PLL) Circuit.
Frequency Tolerance:	±0.005%
Operating Temperature Range:	-30°C to +50°C
Microphone/Speaker:	Plug-in type, dynamic.
Input Voltage:	13.8V DC nominal. (positive or negative ground)
Current Drain:	Transmit: AM full mod. 1.5 A. Receive: Squelched, 0.3 A. Full audio output: 1.0 A.
Antenna Connector:	UHF SO-239
Size:	5-3/4"(W) x 7-7/8"(D) x 1-1/2"(H)
Weight:	3.5 Pounds

TRANSMITTER

Power Output:	4 watts.
Modulation:	High and low level Class B amplitude modulation.
Frequency Response:	300 to 3000 Hz.
Output Impedance:	50 ohms, unbalanced.

RECEIVER

Sensitivity:	0.5 μ V or less for 10 dB (S+N)/N.
Selectivity:	6 dB @7 KHz, 60 dB @10 KHz.
Image Rejection:	80 dB
I.F. Frequencies:	Double conversion; 1st: 10.695 MHz. 2nd: 455 KHz.
Automatic Gain Control:	Less than 10 dB change in audio output for inputs from 1.5 to 50,000 microvolts.
Squelch:	Adjustable; threshold less than 1 μ V.
Audio Output Power:	5 watts (maximum)

Courtesy of the Manufacturer

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

© 1979 Howard W. Sams & Co., Inc. Printed in U. S. of America GCE1079

PRESIDENT MODEL 1015001, JAMES K.

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 L4, L8, L10 thru L14.....9440

L6, L7.....5000, 5009, 8276, 8728, 8728A, 9089

L15, L17, L20.....9440, 8728, 8728A

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIEVER	ADJUST	REMARKS
Input of frequency counter to TP4. (IC1 Pin 13).	Ch. 19		Check for 10.240MHz.
Input of oscilloscope to TP3 (IC1 Pin 22).	Ch. 19	L8	Adjust for maximum. (1.7V p-p typical) (See Figure 1.)
Input of DC meter to TP2. (Junction of R77 and R78).	Ch. 40, XMT	L10	Adjust for 4.00 volts. Check for approximately 2.52V on Channel 12.

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. Squelch MINIMUM, Volume maximum.

TEST EQUIPMENT	TRANSCIEVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP5 (Base of TR4). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	L7, L6	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	L4, L3, L2, L1, L11	Adjust for maximum output. Readjust L6 and L7 for maximum.

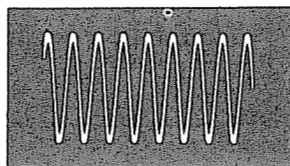


FIGURE 1

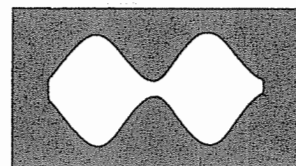


FIGURE 2

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to maximum.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output .5uV.	Ch. 19	VR1	IF GAIN Adjust for 1.4 volts on AC VTVM.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 700uV.	Ch. 19	VR3	SQUELCH RANGE Adjust so squelch just breaks.

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
Input of RF wattmeter to antenna input.	Ch. 19, XMT	L12, L13, L14, L15, L17	Adjust for maximum RF output.
Input of RF wattmeter to antenna input.	Ch. 19, XMT	L17	Adjust for 4 watts output on RF wattmeter.
Input of spectrum analyzer or harmonic meter to antenna input.	Ch. 19, XMT	L20	Adjust for MINIMUM at 54MHz (2nd harmonic).

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. Set MIC GAIN (VR301) fully clockwise.

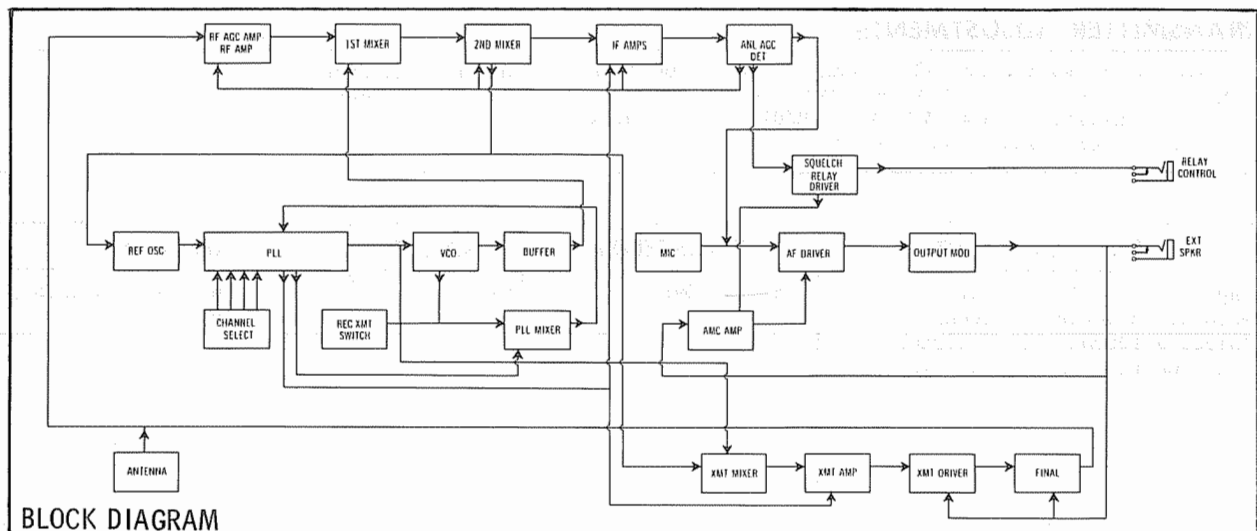
See page 4 for channel frequencies.

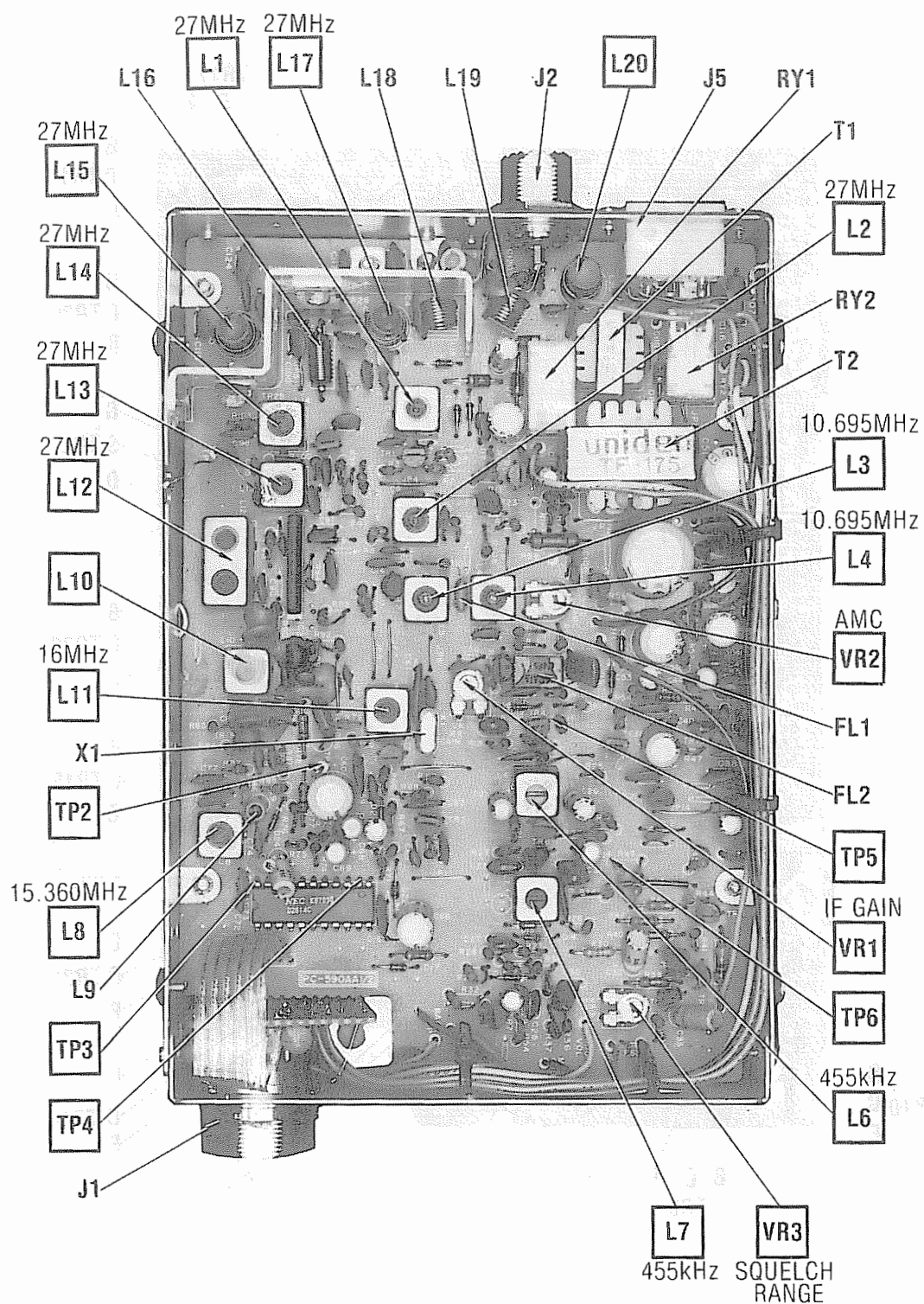
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz, 120mV signal at TP6 (Junction of R36 and R46).	Ch. 19, XMT	VR2	Adjust for 95% modulation. (See Figure 2.)

PRESIDENT MODEL 1015001, JAMES K.

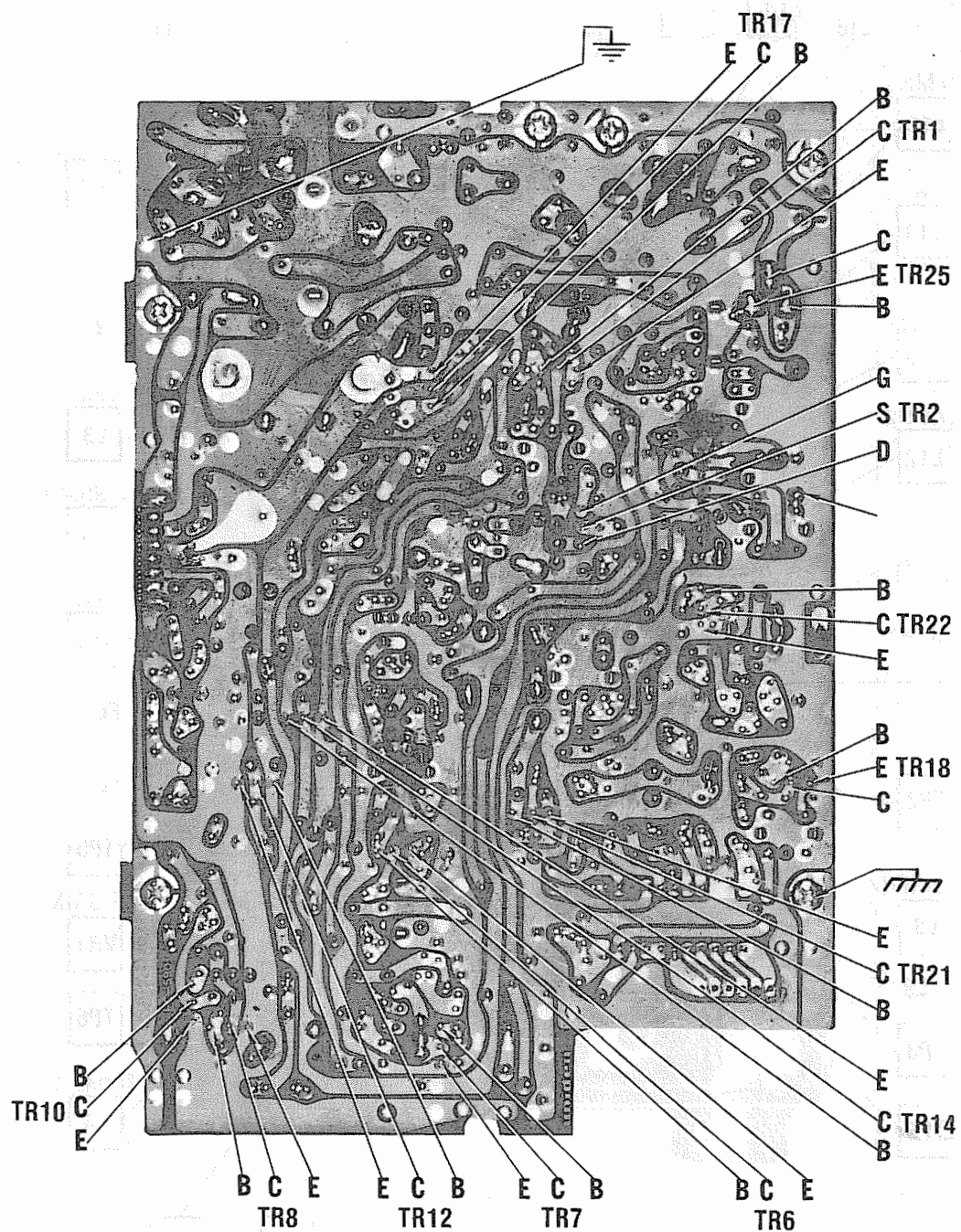
TRUTH CHART

CHANNEL	1 = 5.12 Volts 0 = 0 Volts CHANNEL INPUT CODES								REC DIVIDER INPUT IN MHz AT TP3	XMT DIVIDER INPUT IN MHz AT TP3	RECEIVE VCO OUTPUT IN MHz AT TR19	XMT VCO OUTPUT IN MHz AT TR19
	IC1 PINS											
	6	5	4	3	2	1						
1	0	0	0	0	0	1			.910	1.365	16.270	16.725
2	0	0	0	0	1	0			.920	1.375	16.280	16.735
3	0	0	0	0	1	1			.930	1.385	16.290	16.745
4	0	0	0	1	0	0			.950	1.405	16.310	16.765
5	0	0	0	1	0	1			.960	1.415	16.320	16.775
6	0	0	0	1	1	0			.970	1.425	16.330	16.785
7	0	0	0	1	1	1			.980	1.435	16.340	16.795
8	0	0	1	0	0	0			1.000	1.455	16.360	16.815
9	0	0	1	0	0	1			1.010	1.465	16.370	16.825
10	0	1	0	0	0	0			1.020	1.475	16.380	16.835
11	0	1	0	0	0	1			1.030	1.485	16.390	16.845
12	0	1	0	0	1	0			1.050	1.505	16.410	16.865
13	0	1	0	0	1	1			1.060	1.515	16.420	16.875
14	0	1	0	1	0	0			1.070	1.525	16.430	16.885
15	0	1	0	1	0	1			1.080	1.535	16.440	16.895
16	0	1	0	1	1	0			1.100	1.555	16.460	16.915
17	0	1	0	1	1	1			1.110	1.565	16.470	16.925
18	0	1	1	0	0	0			1.120	1.575	16.480	16.935
19	0	1	1	0	0	1			1.130	1.585	16.490	16.945
20	1	0	0	0	0	0			1.150	1.605	16.510	16.965
21	1	0	0	0	0	1			1.160	1.615	16.520	16.975
22	1	0	0	0	1	0			1.170	1.625	16.530	16.985
23	1	0	0	0	1	1			1.200	1.655	16.560	17.015
24	1	0	0	1	0	0			1.180	1.635	16.540	16.995
25	1	0	0	1	0	1			1.190	1.645	16.550	17.005
26	1	0	0	1	1	0			1.210	1.665	16.570	17.025
27	1	0	0	1	1	1			1.210	1.675	16.580	17.035
28	1	0	1	0	0	0			1.230	1.685	16.590	17.045
29	1	0	1	0	0	1			1.240	1.695	16.600	17.055
30	1	1	0	0	0	0			1.250	1.705	16.610	17.065
31	1	1	0	0	0	1			1.260	1.715	16.620	17.075
32	1	1	0	0	1	0			1.270	1.725	16.630	17.085
33	1	1	0	0	1	1			1.280	1.735	16.640	17.095
34	1	1	0	1	0	0			1.290	1.745	16.650	17.105
35	1	1	0	1	0	1			1.300	1.755	16.660	17.115
36	1	1	0	1	1	0			1.310	1.765	16.670	17.125
37	1	1	0	1	1	1			1.320	1.775	16.680	17.135
38	1	1	1	0	0	0			1.330	1.785	16.690	17.785
39	1	1	1	0	0	1			1.340	1.795	16.700	17.155
40	0	0	0	0	0	0			1.350	1.805	16.710	17.165

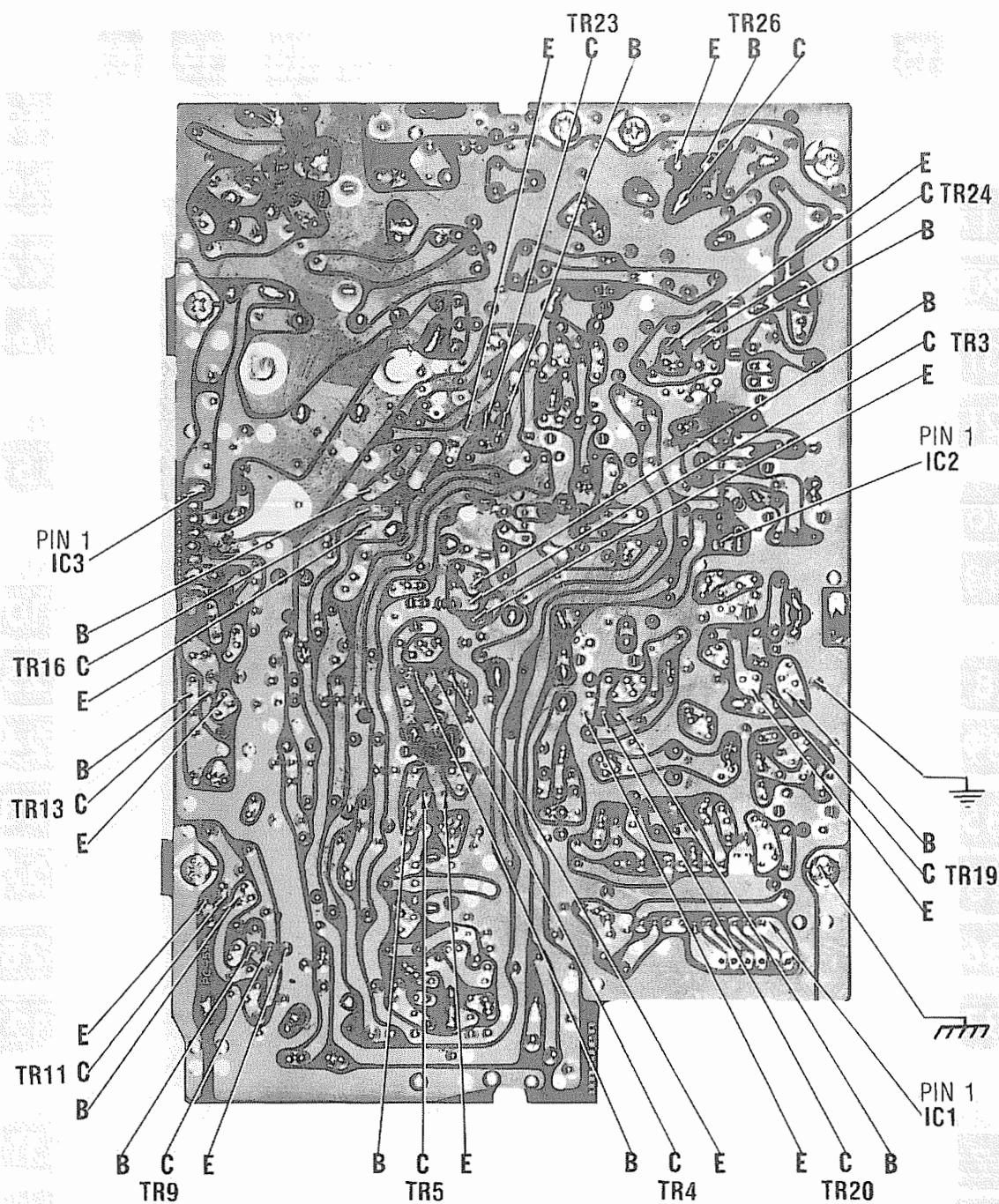




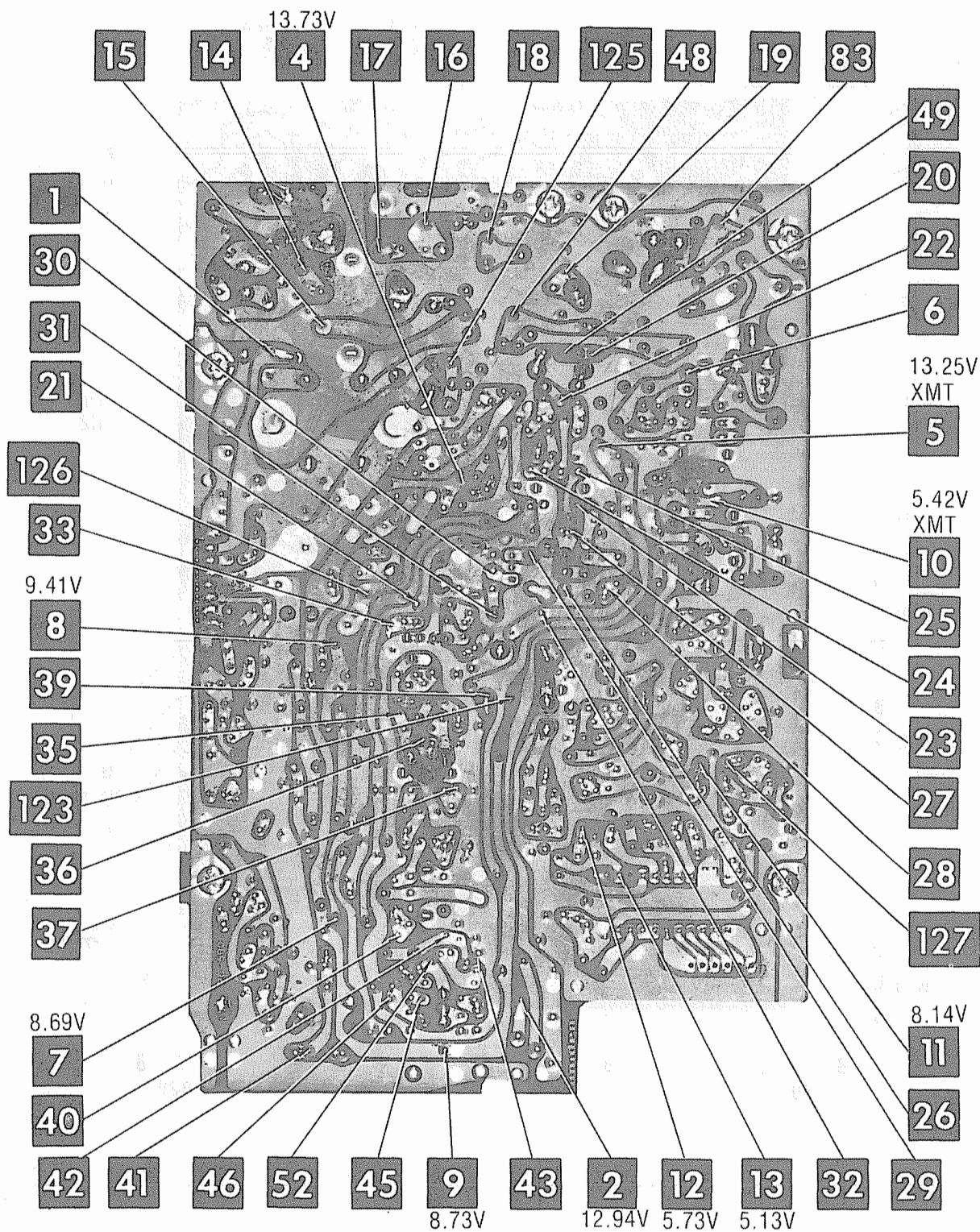
CHASSIS BOTTOM



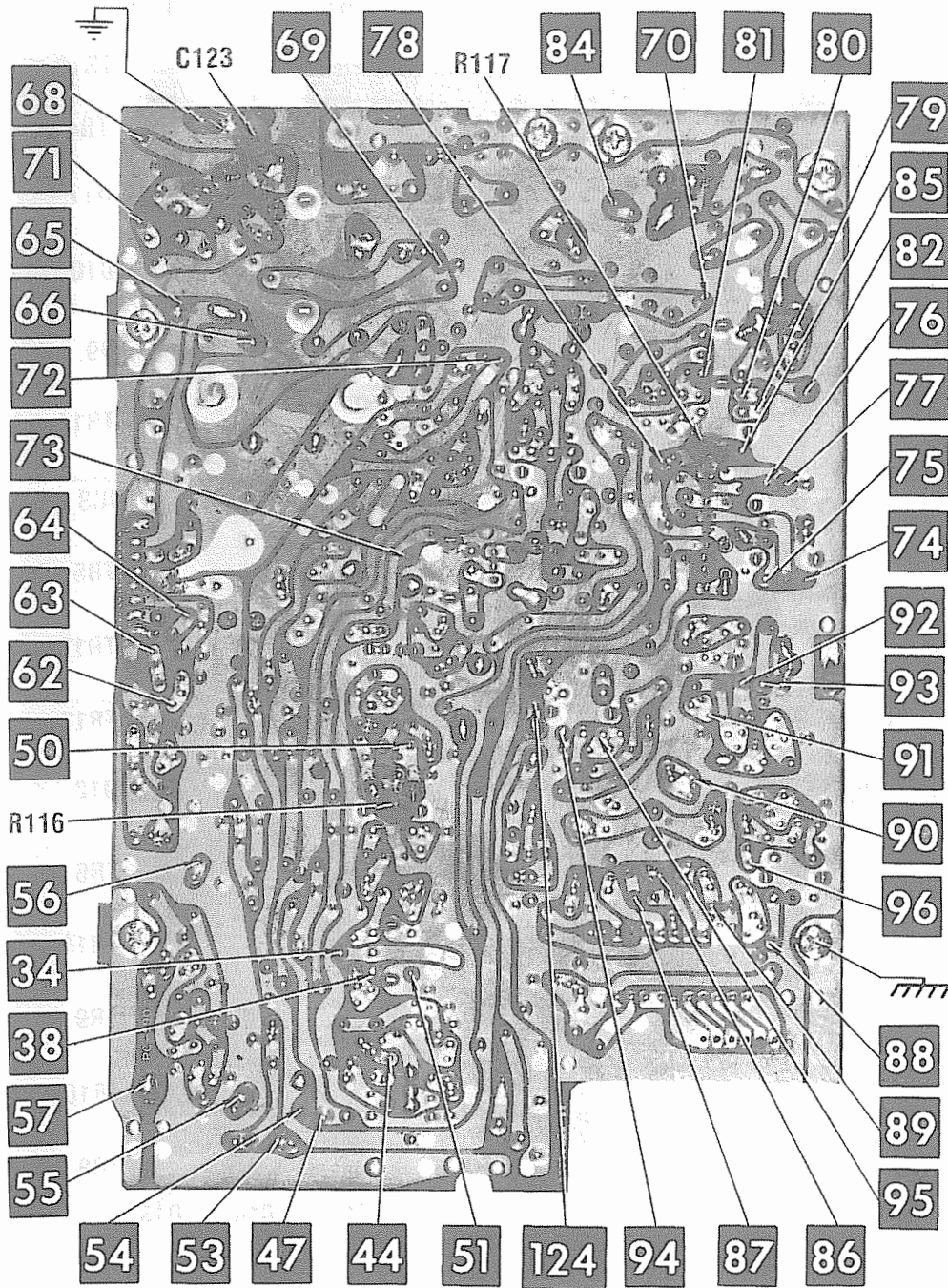
MAIN BOARD



MAIN BOARD

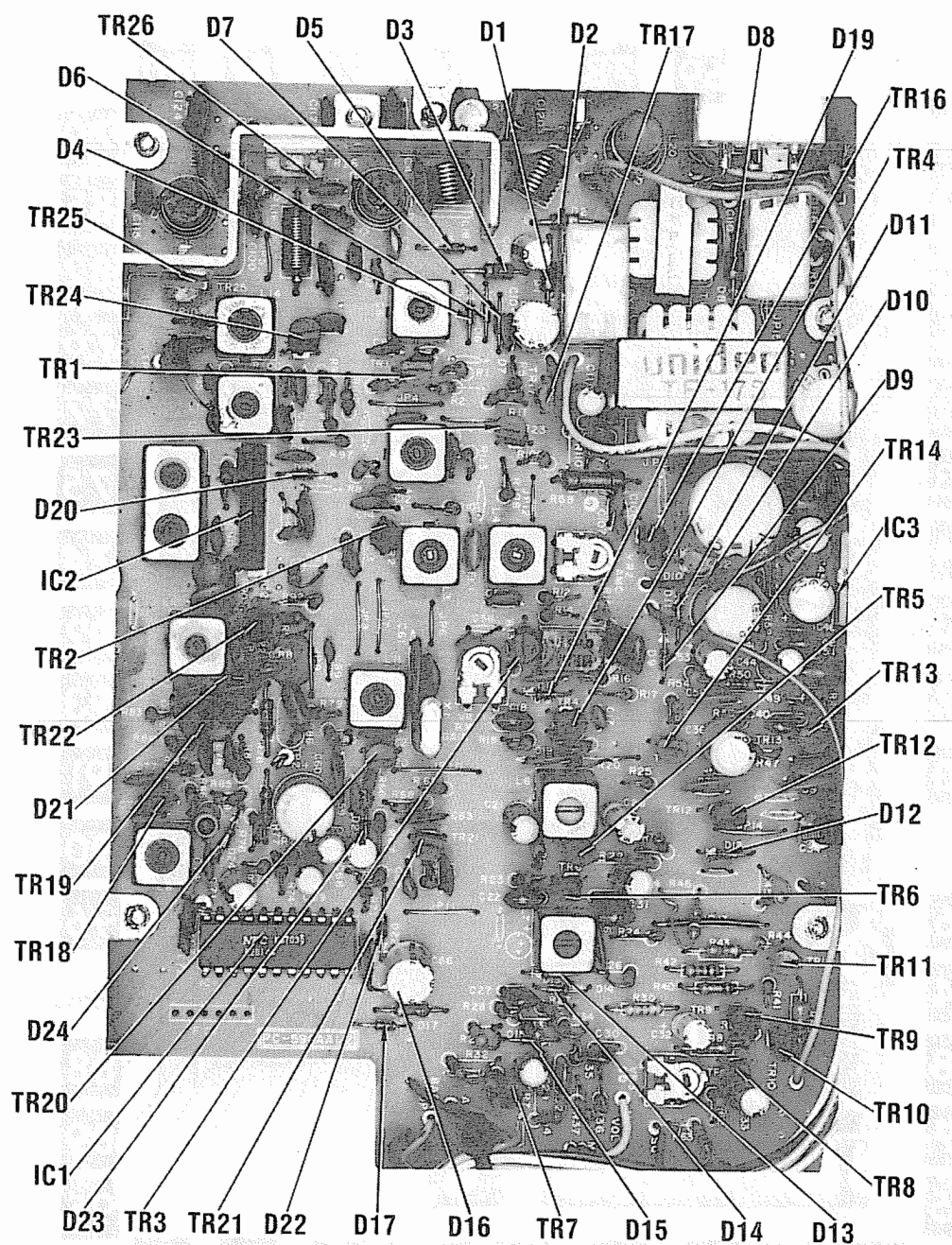


MAIN BOARD

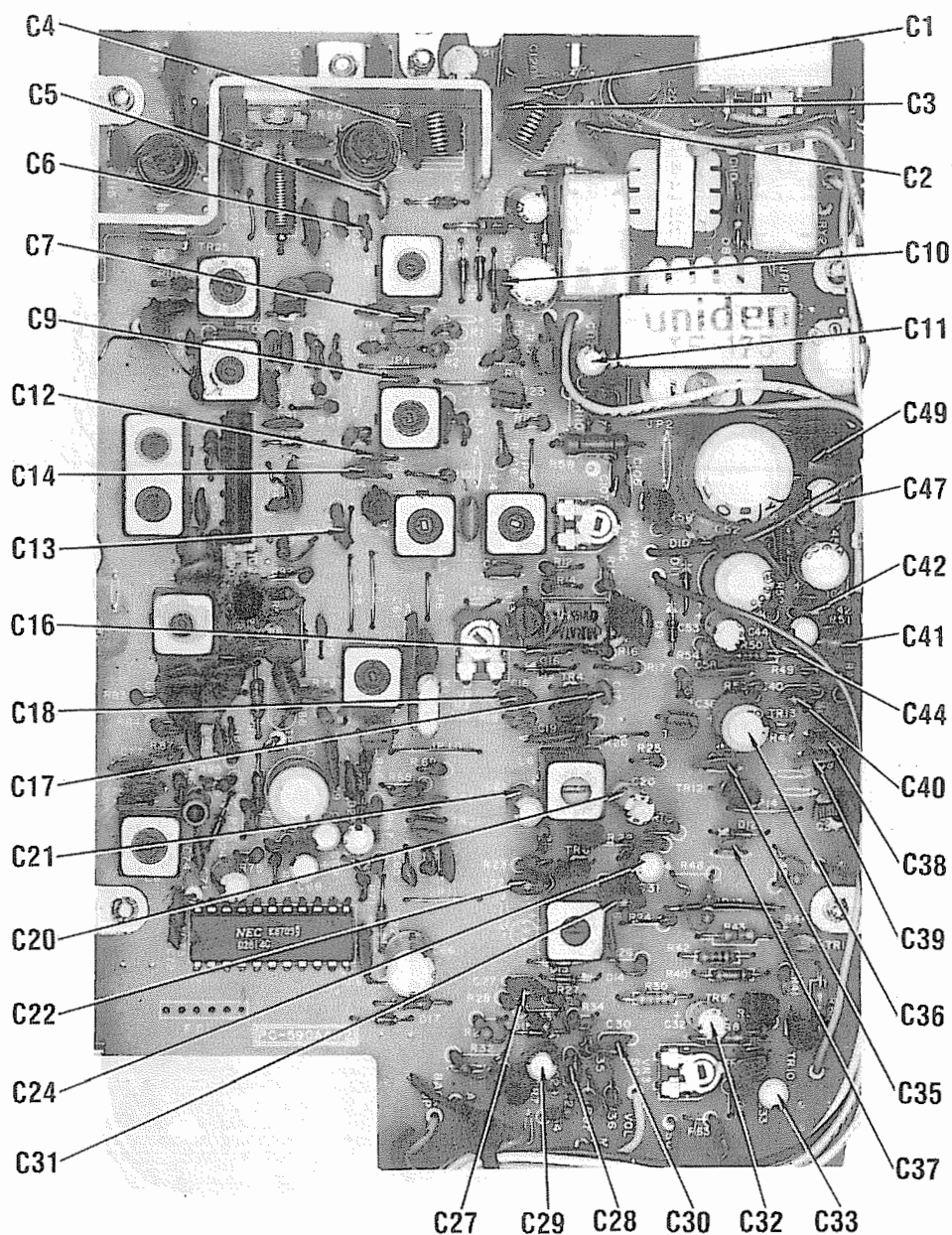


PRESIDENT MODEL 1015001, JAMES K.

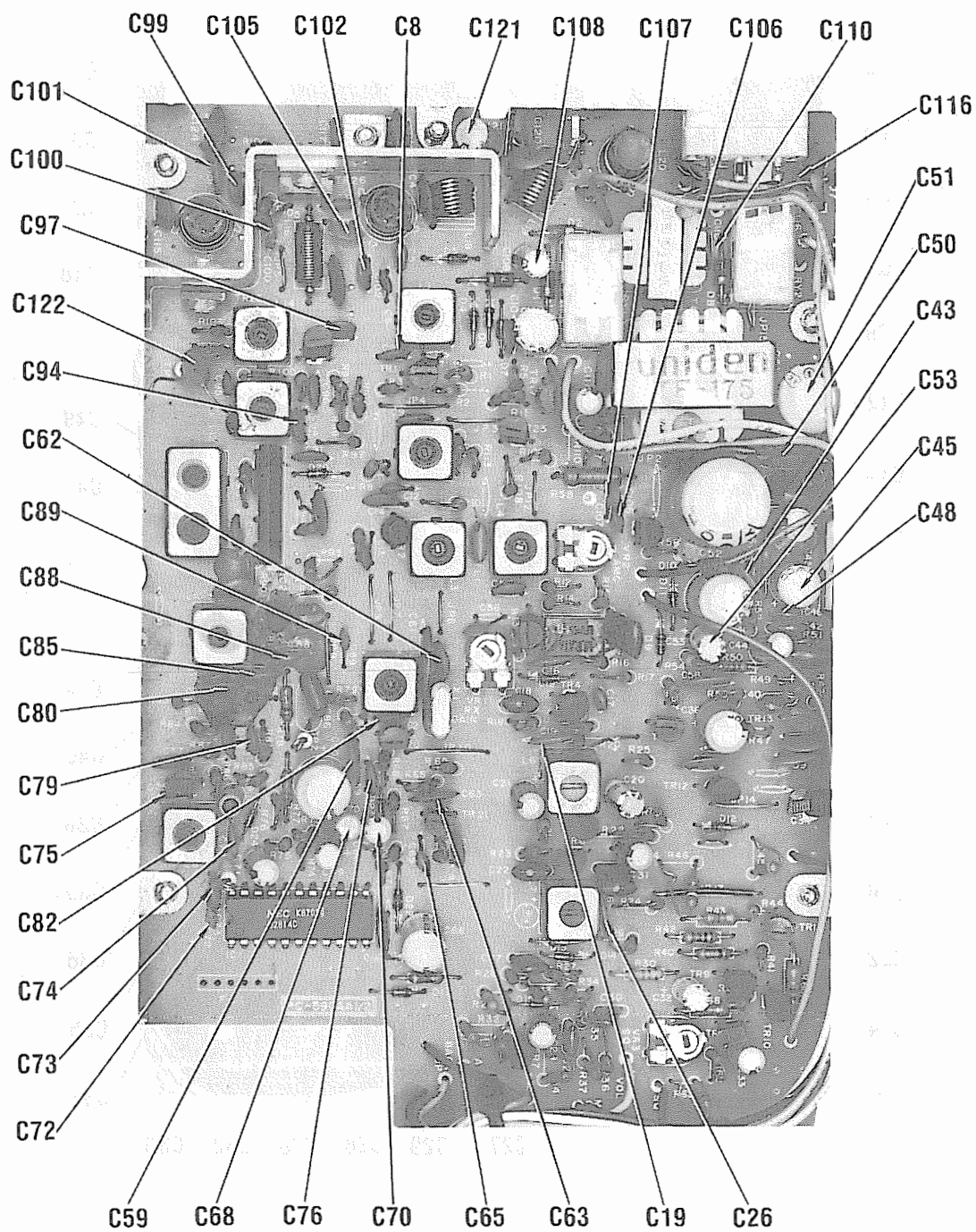
MAIN BOARD



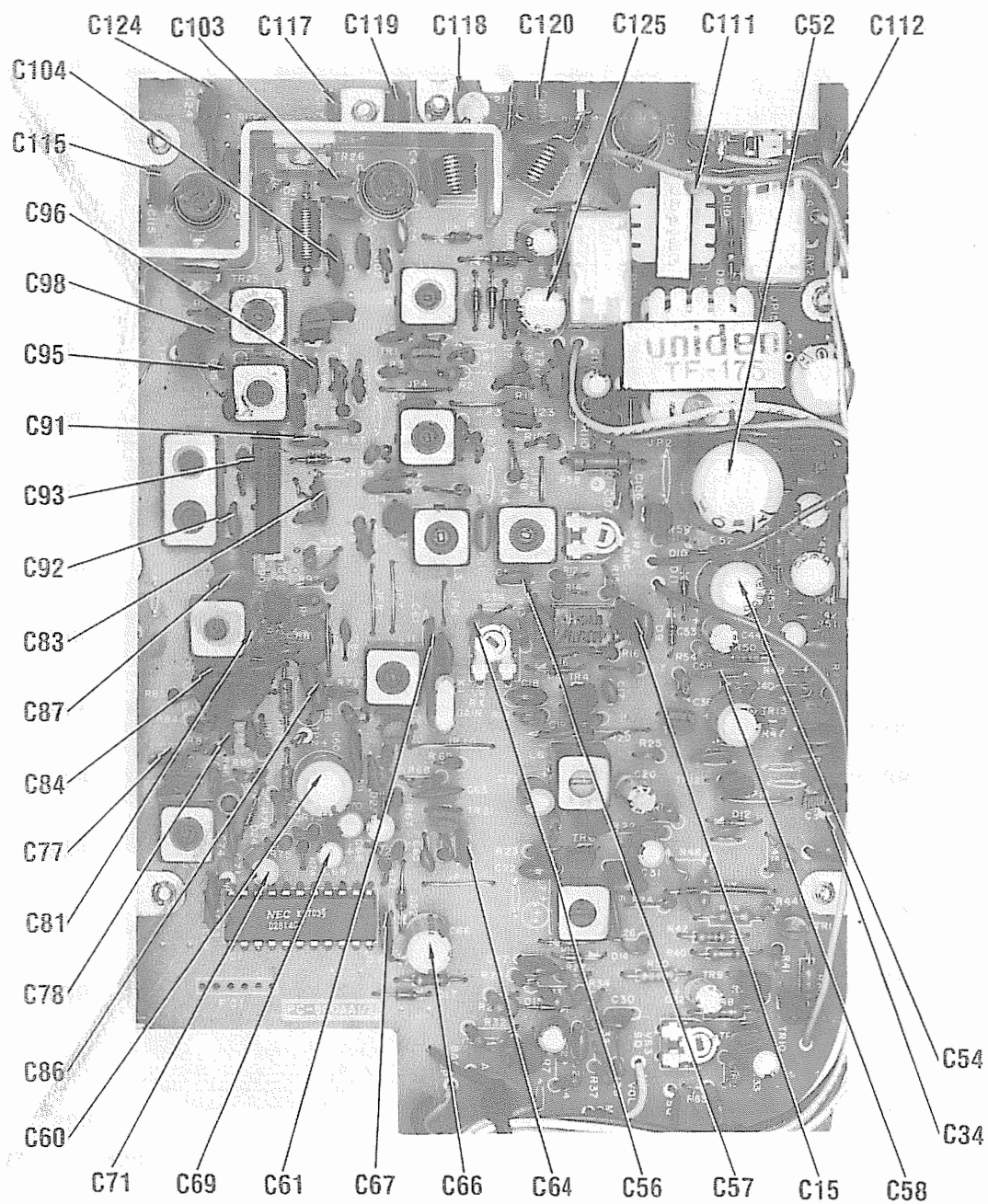
MAIN BOARD



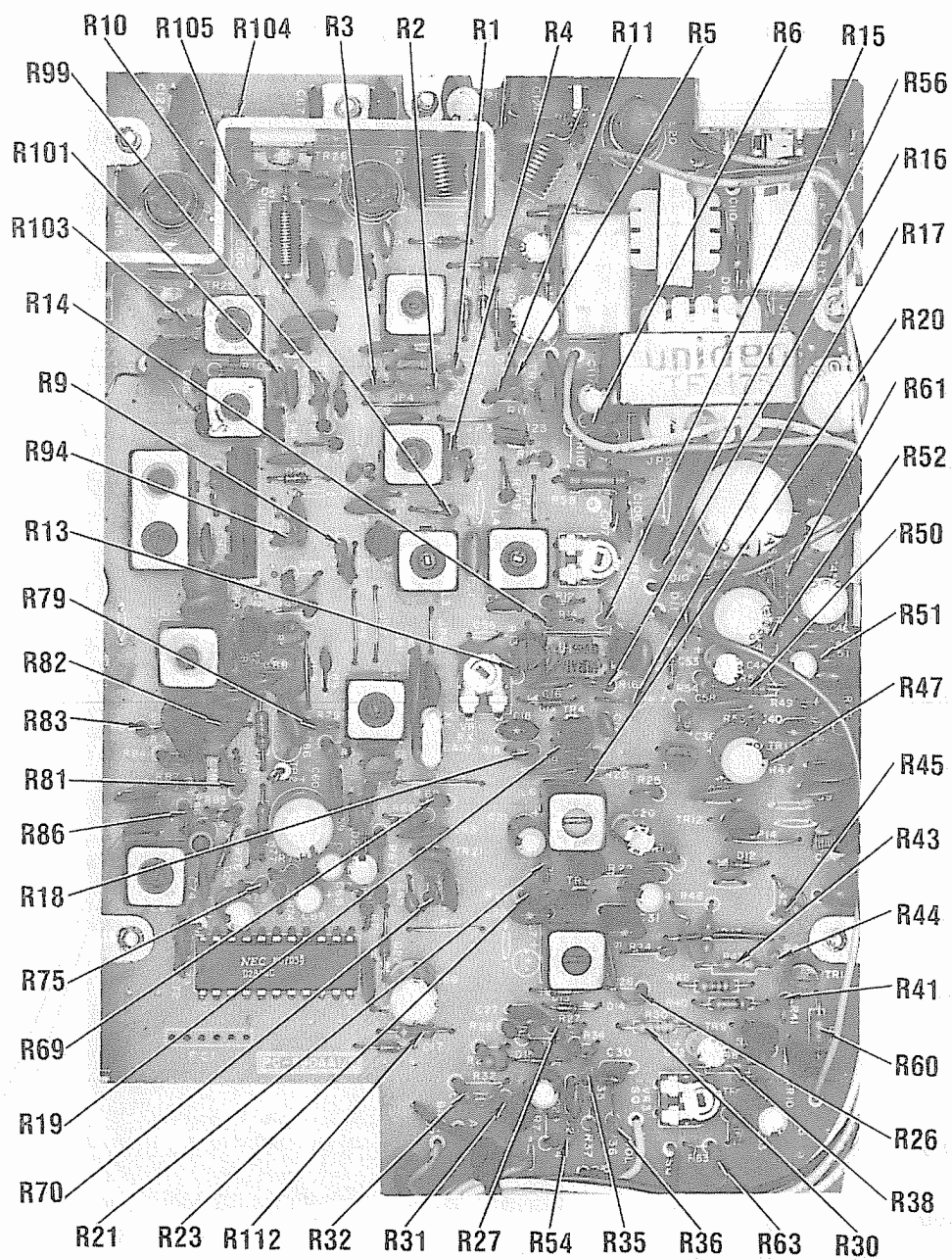
MAIN BOARD



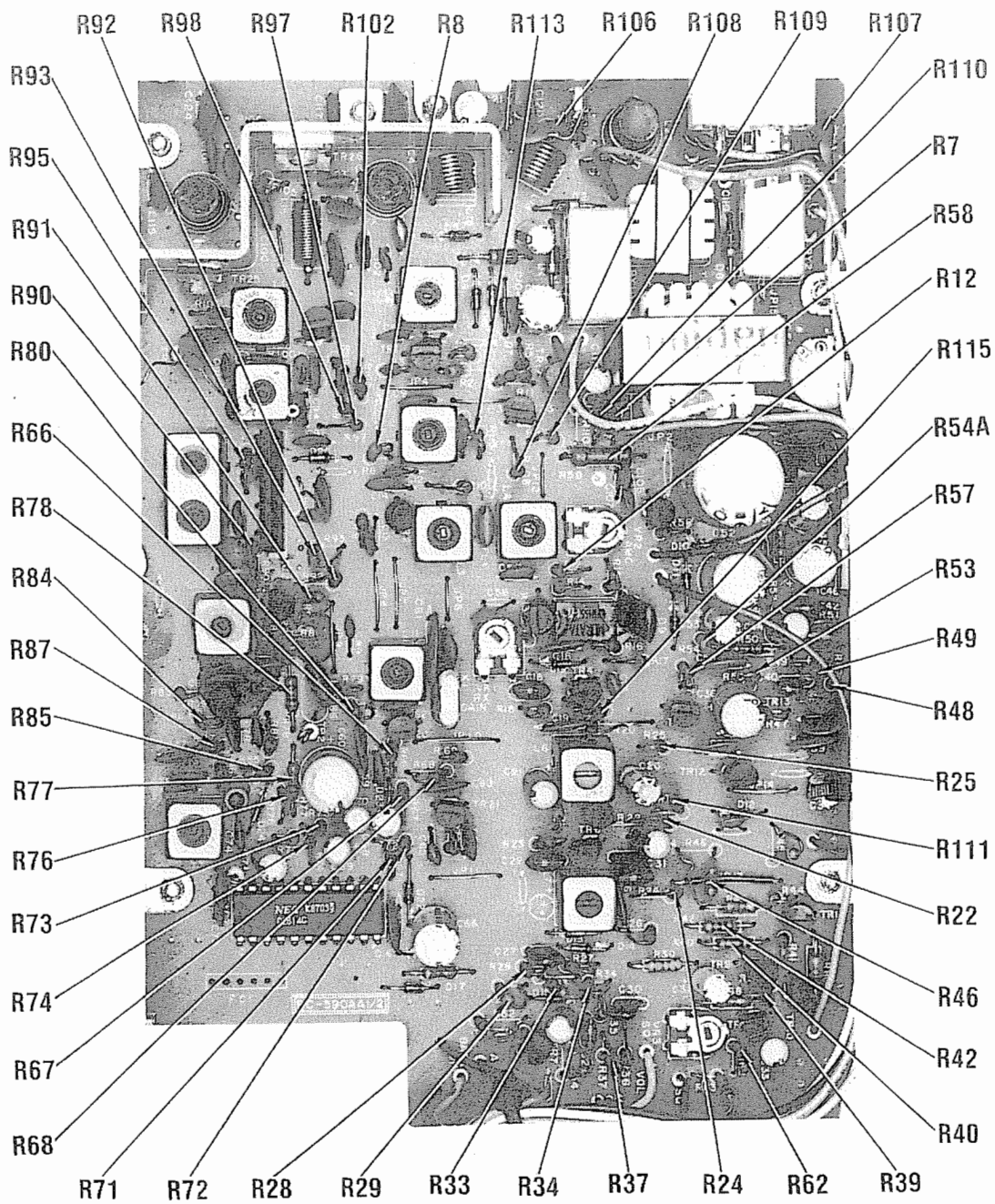
MAIN BOARD



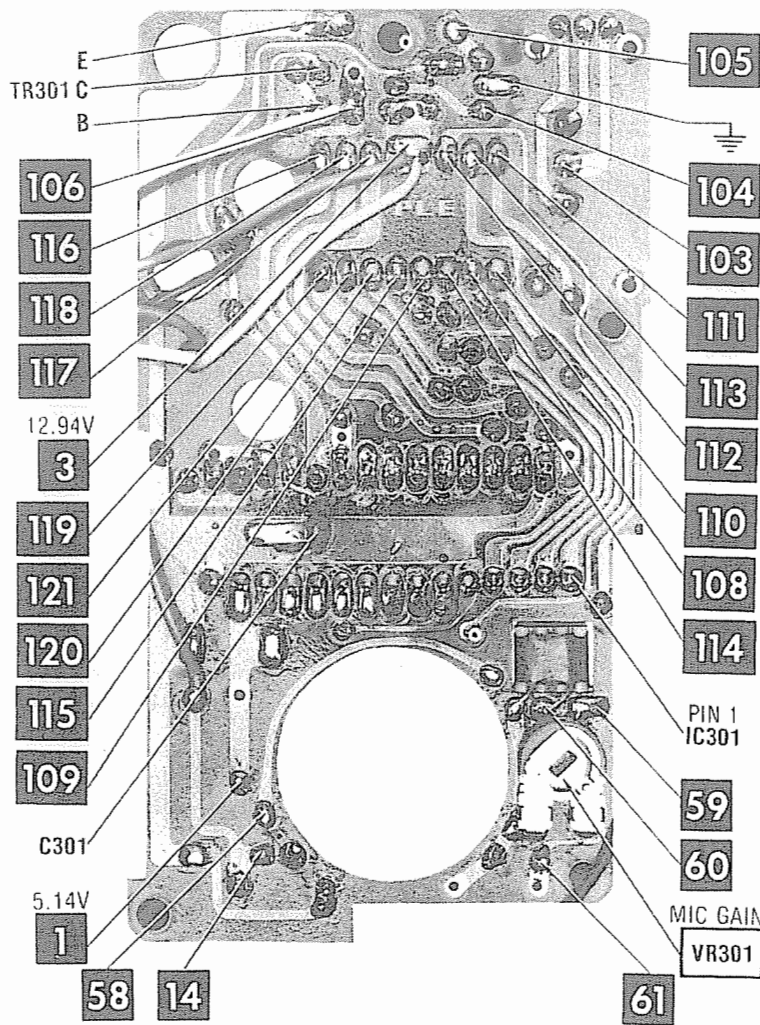
MAIN BOARD



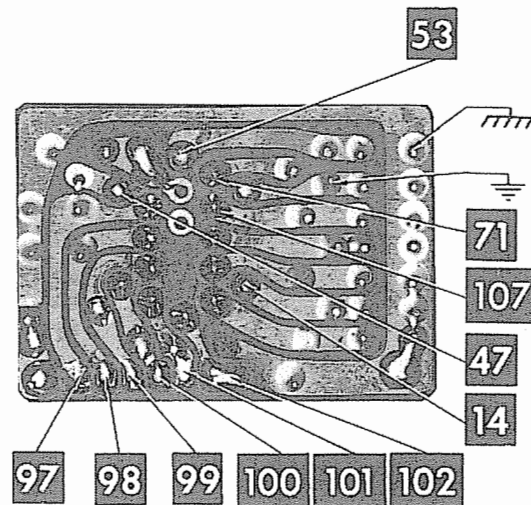
MAIN BOARD



MAIN BOARD

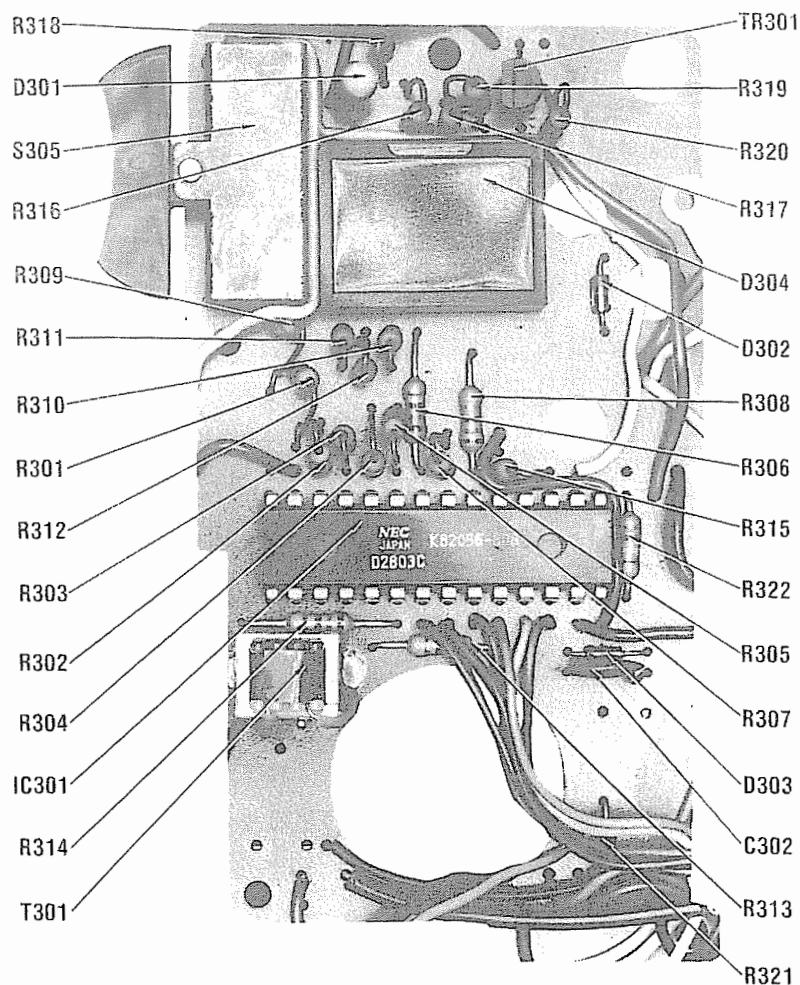


MIC BOARD

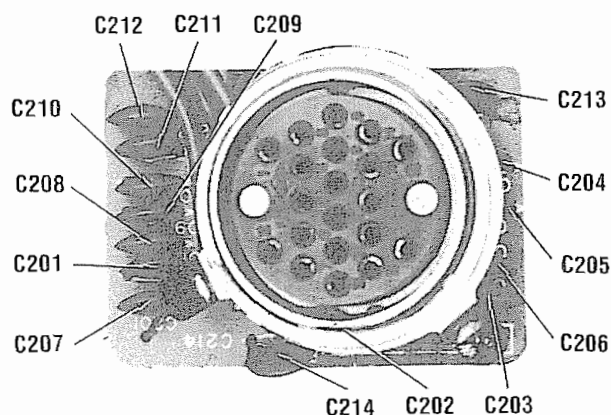


MIC JACK BOARD

PARTS LIST A (When ordering parts,



MIC BOARD



MIC JACK BOARD

SEMICONDUCTOR

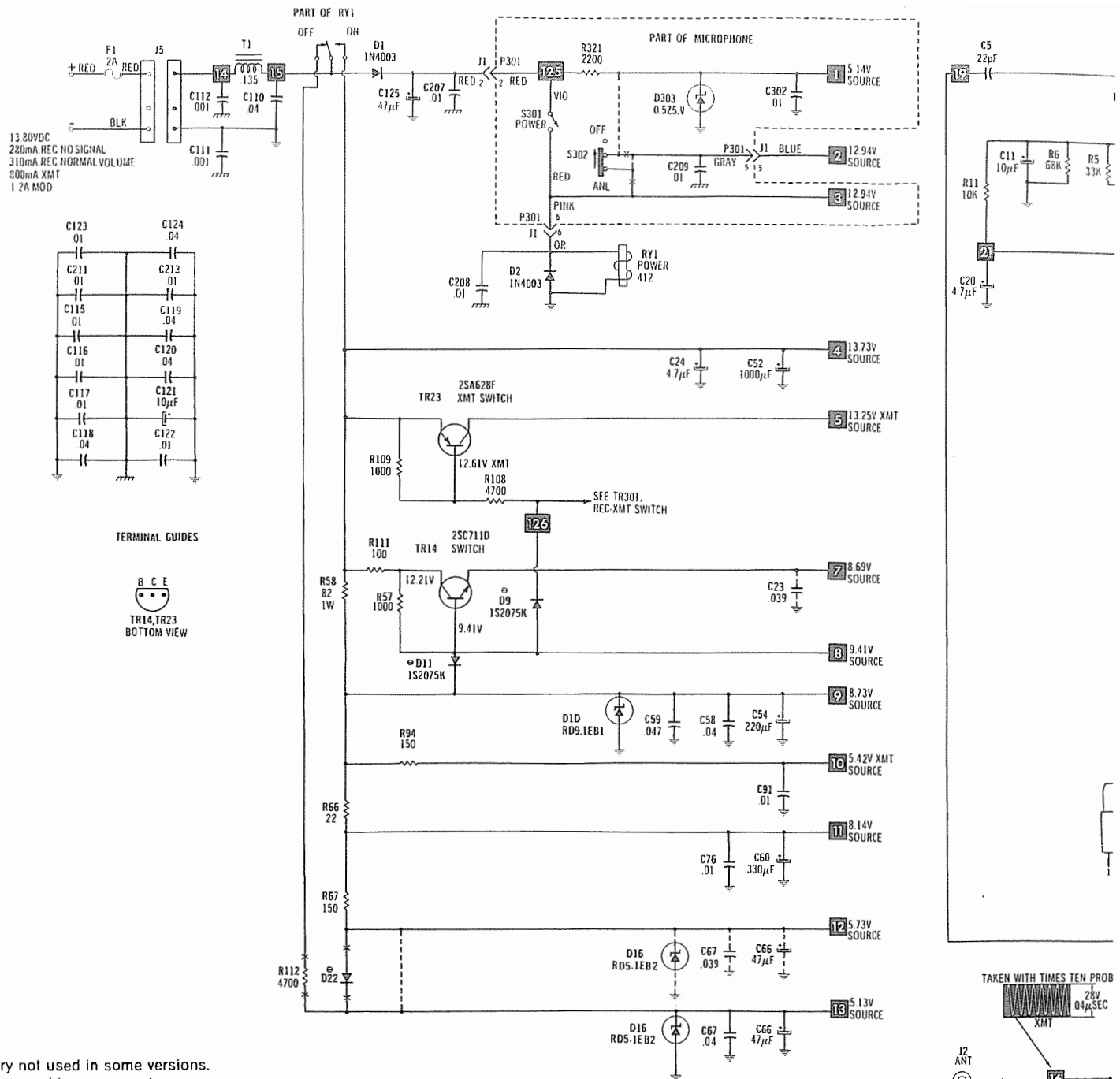
ITEM No.	TYPE No.	P.
D1	1N4003 1S2075K	2000- 2000-
D2	1N4003	2000-
D3	1N4003	2000-
D4	1S2075K 1S2076	2000-
D5	1S2075K 1S2076	2000-
D6	1S2075K 1S2076	2000-
D7	1S2075K 1S2076	2000-
D8	1N4003	2000-
D9	1S2075K 1S2076	2000-
D10	RD9.1EB1	2000-
D11	1S2075K 1S2076	2000-
D12	1S2075K 1S2076	2000-
D13	1S2075K 1S2076	2000-
D14	1S2075K 1S2076	2000-
D15	1S2075K 1S2076	2000-
D16	RD5.1EB2	2000-
D17	1S2075K 1S2076	2000-
D19	1S2075K 1S2076	2000-3
D20	1S2075K 1S2076	2000-3
D21	1S2688EA	2000-3
D22		
D23		
D24		
D302	1S1588	2000-3
D303	0.525, 1U	2000-3
IC1	D2814C UPD2814C	2000-01
IC2	TA7310P	2000-01
IC3	MB3712	2000-01
IC301	D2803C UPD2803C	2000-01
TR1	2SC763C	2000-26
TR2	2SK198L	2000-11
TR3	2SC7100	2000-26
TR4	2SC7100	2000-26
TR5	2SC7100	2000-26
TR6	2SC7100	2000-26
TR7	2SC7110	2000-26
TR8	2SC7110	2000-26
TR9	2SC7110	2000-26
TR10	2SC7110	2000-26
TR11	2SD3550	2000-26
TR12	2SC7110	2000-26
TR13	2SC7110	2000-26
TR14	2SC7110	2000-26
TR16	2SA628F	2000-26
TR17	2SC7110	2000-26
TR18	2SC7100	2000-26
TR19	2SC7100	2000-26
TR20	2SC7100	2000-26
TR21	2SC7100	2000-26
TR22	2SC7100	2000-26
TR23	2SA628F	2000-26
TR24	2SC7100	2000-26
TR25	2SC2028B/ 20	2000-270
TR26	2SC2029/1 2SC2029B/ 10	2000-271
TR301	2SC1815Y	2000-245

* Lead configuration may vary
/** Also available as exact

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

EM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
	1H4003	2000-304	GE-504A	1H4003	REN 116	SK3312	ECG116	TM116	WEP156	212-76-02
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1H4003	2000-304	GE-504A	1H4003	REN 116	SK3312	ECG116	TM116	WEP156	212-76-02
	1H4003	2000-304	GE-504A	1H4003	REN 116	SK3312	ECG116	TM116	WEP156	212-76-02
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1H4003	2000-304	GE-504A	1H4003	REN 116	SK3312	ECG116	TM116	WEP156	212-76-02
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	RD9.1EB1	2000-321	ZM5.10			SK3784/5018A	ECG5018A	TM5018	WEP1419/5018	103-279-18
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	RD5.1EB2	2000-321	ZM5.10			SK3776/5010A	ECG5010A	TM5010	WEP1411/5010	103-279-10
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
	1S2076		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-287
	1S2075K	2000-345	GE-300	PTC214	REN 177	SK3100/519				

Lead configuration may vary from original.
Also available as exact type replacement.



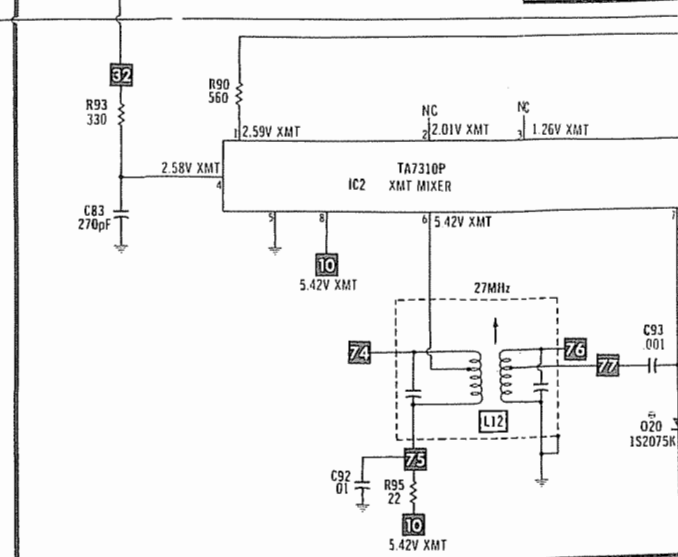
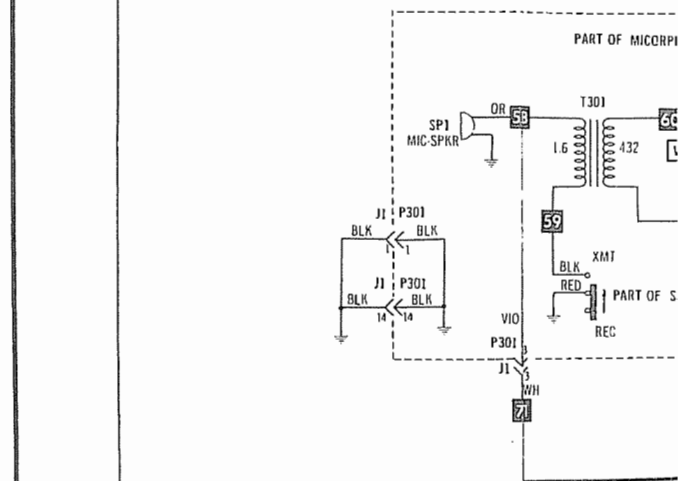
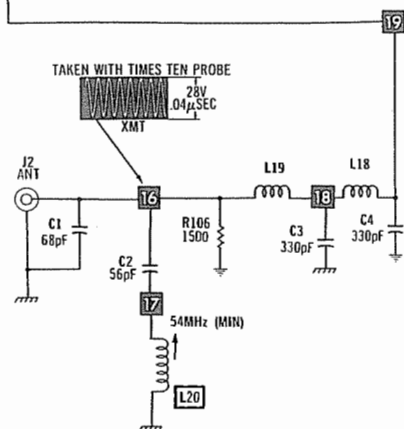
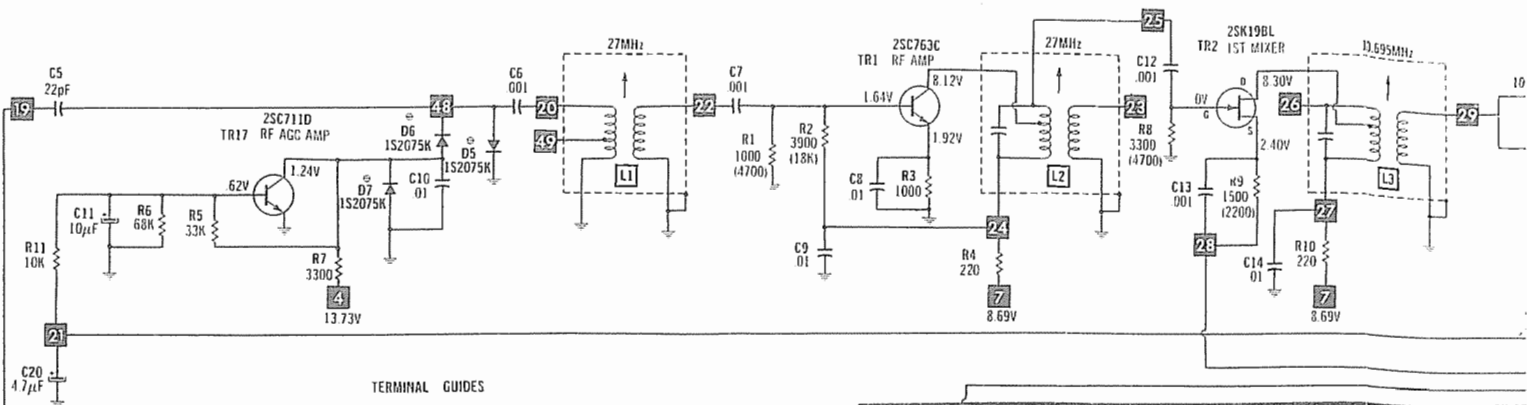
- Circuitry not used in some versions.
 - - - Circuitry used in some versions.
 - ※ Nominal value
 - ▽ Common tie point
 - ⊥ Ground
 - ⏏ Chassis
 - ⊕ See parts list
- Waveforms and Voltages taken in Channel 19 with switching in receive unless noted. Item numbers in rectangles appear in the alignment/adjustment 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).

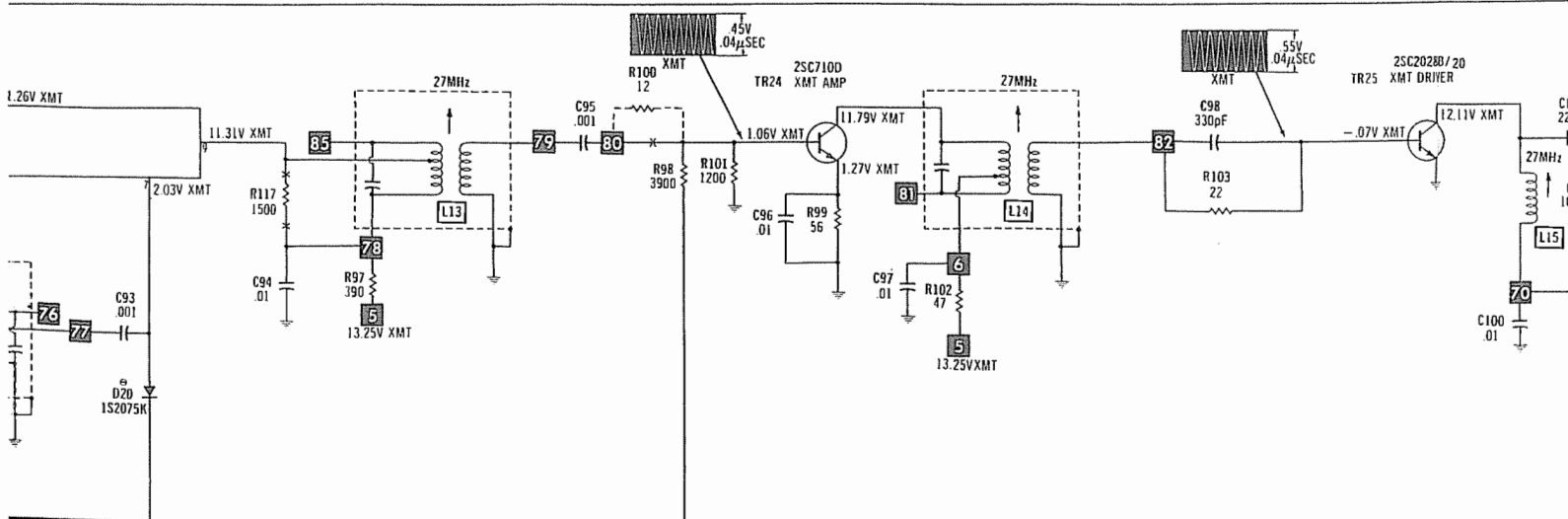
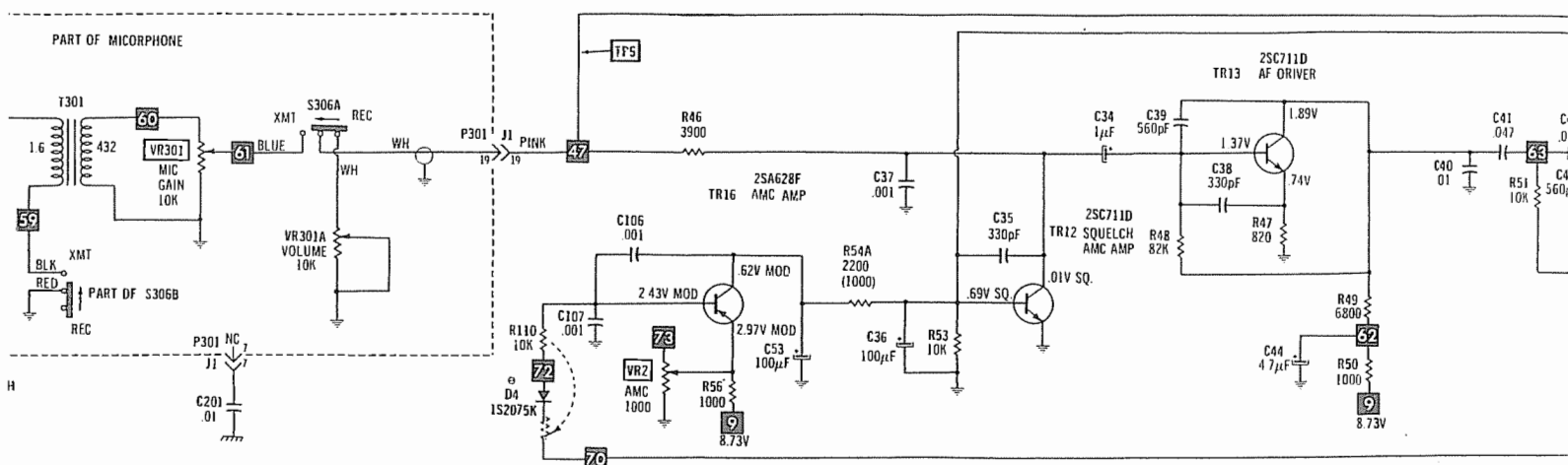
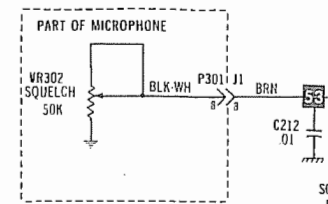
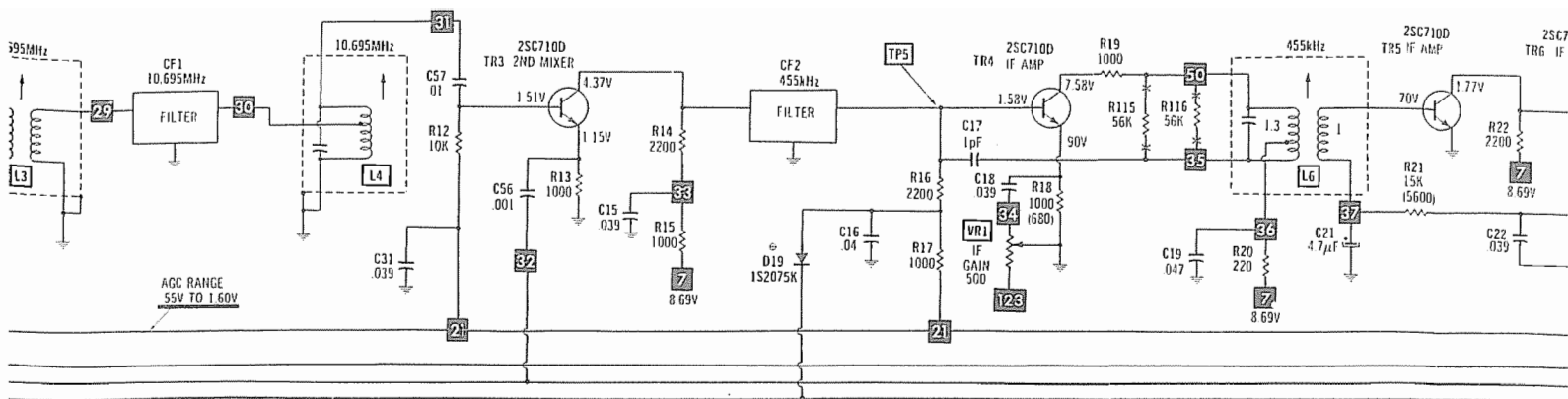
A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITACE**

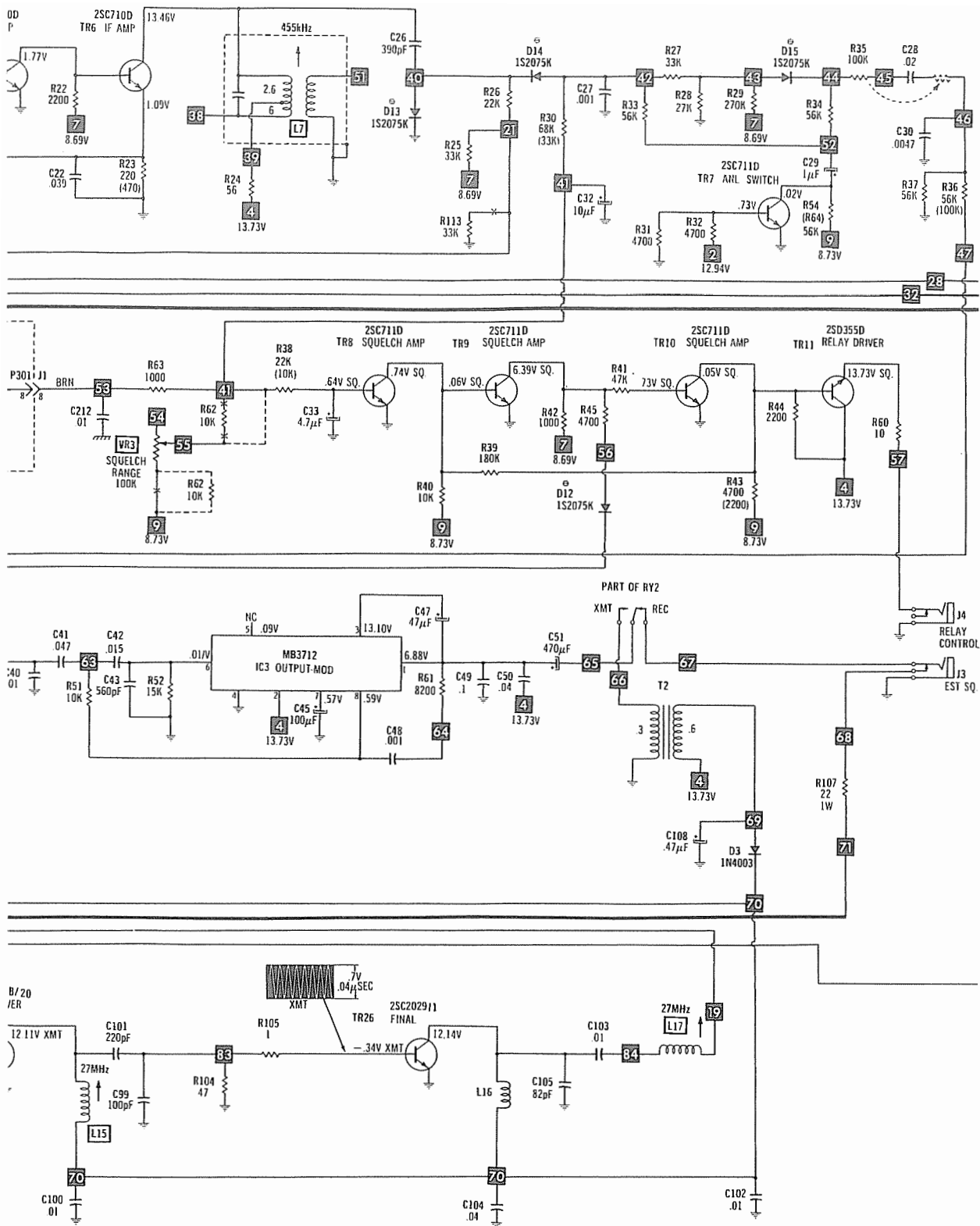
© Howard W. Sams & Co., Inc. 1979

POWER SUPPLY SCHEMATIC





MAIN SCHEMATIC





PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFRG. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C11	4.7 25V	1800-304	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C20	10 16V	1800-306	PC10-25	VTT10B25	QV1-41	EV-1222
C21	4.7 25V	1800-304	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C24	4.7 25V	1800-304	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C29	1 50V	1800-302	PC1-50	VTT1A50	QV1-11	EV-1615
C32	10 16V	1800-306	PC10-25	VTT10B25	QV1-41	EV-1222
C33	4.7 25V	1800-304	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C34	1 50V	1800-302	PC1-50	VTT1A50	QV1-11	EV-1615
C36	100 10V	1800-310	PC100-10	VTT100E10	QV1-93	EV-1131
C44	4.7 25V	1800-304	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C45	100 10V	1800-310	PC100-10	VTT100E10	QV1-93	EV-1131
C47	47 10V	1800-316	PC50-16	VTT47D16	QV1-73	EV-1226
C51	470 16V	1800-309	PC500-16	VTT470K16	QV1-151	EV-1251
C52	1000 16V	1800-328	PC1000-16	VTT1000L16	QV1-183	EV-1261
C53	47 50V	1800-301	PC1-50	VTT47A63	QV1-3	EV-1610
C54	220 10V	1800-325	PC250-10	VTT220F10	QV1-115	EV-1140
C60	330 10V	1800-326	WBR300-35*	VTT330G10	QV1-131	EV-1145
C66	47 16V	1800-316	PC50-16	VTT47D16	QV1-73	EV-1226
C68	47 50V	1800-301	PC1-50	VTT47A63	QV1-3	EV-1610
C69	2.2 50V	1800-303	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C70	2.2 50V	1800-303	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C71	10 16V	1800-306	PC10-25	VTT10B25	QV1-41	EV-1222
C108	47 50V	1800-301	PC1-50	VTT47A63	QV1-3	EV-1610
C121	10 25V	1800-330	PC10-25	VTT10B25	QV1-73	EV-1422
C125	47 16V	1800-316	PC50-16	VTT47D16	QV1-73	EV-1226

CAPACITORS

ITEM No.	RATING	MFRG. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	68 50V 10%	1800-007	GP68	GP468		10TS-Q68
C2	56 50V 10%			GP456		10TS-Q56
C3	330 50V 10%		GP330	GP333		10TS-T33
C4	330 50V 10%		GP330	GP333		10TS-T33
C5	22 H220 50V 10%			*		10TCR-Q22
C6	.001 50V			GP210		10TS-D10
C7	.001 50V			GP210		10TS-D10
C8	.01 50V			MAG5011		
C9	.01 50V			MAG5011		
C10	.01 50V			MAG5011		
C12	.001 50V	1800-003		GP210		10TS-D10
C13	.001 50V			GP210		10TS-D10
C14	.01 50V			MAG5011		
C15	.039 50V		OPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C16	.04 25V			GP140		5GA-S40
C17	1 50V NFO					
C18	.039 50V		DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C19	.047 25V			MAG2515		HY-735
C22	.039 50V		DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C23	.039 25V			GP140		5GA-S40
C26	390 50V 10%	1800-098	GP390	GP339		10TS-T39
C27	.001 50V 10%		DPMS6D1	EWFI A210	QFT2-1	1FT-D10
C28	.02 50V		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C30	.0047 100V 10%		WMF1047	M192P4729R8	QFT2-63	1FT-D47
C31	.039 50V		OPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C35	330 50V 10%		GP330	GP333		10TS-T33
C37	.001 50V			GP210		10TS-D10
C38	330 50V 10%		GP330	GP333		10TS-T33
C39	500 50V 10%			GP356		10TS-T56
C40	.01 50V 10%		WMF1S1	EWFI A110	QFT2-91	1FT-S10
C41	.047 50V 10%	1800-001	OPMS2S47	EWFI A147	QFT2-171	1FT-S47
C42	.015 50V 10%		WMF1S15	M192P1539R8	QFT2-105	1FT-S15
C43	560 50V 10%			GP356		10TS-T56
C48	.001 50V 10%		DPMS6D1	EWFI A210	QFT2-1	1FT-D10
C49	.1 50V 10%		WMF0SP1	EW05010	QFT2-215	1FT-P10
C50	.04 50V 10%			GP140		5GA-S40
C56	.001 50V			GP210		10TS-D10
C57	.01 50V			MAG5011		
C58	.04 25V			GP140		5GA-S40
C59	.047 25V			MAG2515		HY-735
C61	220 H220 50V 10%	1800-098		*		10TCP-T22
C62	47 H220 50V 10%			*		10TCP-Q47
C63	560 50V 10%			GP356		10TS-T56
C64	180 50V 10%			GP318		10TS-T18
C65	12 50V 10%			GP412A	QC2-11	5GAQ12
C67	.04 25V			GP140		5GA-S40
C72	5 50V			GP550A	QC2-1	5GAV50
C73	100 50V 10%		GP100	GP310		10TS-T10
C74	.01 50V			MAG5011		
C75	47 50V 10%		GP47	GP447A	QC2-31	5GAQ47
C76	.01 50V	1800-098		MAG5011		
C77	220 50V 10%			GP322		10TS-T22
C78	.01 50V			MAG5011		
C79	47 50V 10%		GP47	GP447A	QC2-31	5GAQ47
C80	220 H750 50V 10%		N68	CN7322		10TCU-T22
C81	68 H750 50V 10%			CN7468		10TCU-Q68
C82	.01 50V			MAG5011		

PRESIDENT MODEL 1015001, JAMES K.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C83	270 50V 10%	1800-147	GP270	GP327	QF1-195	10TS-T27
C84	27 11750 50V 10%			CN7427		10TCU-Q27
C85	68 11220 50V 10%	1800-146		*	QC2-11	10TCR-Q68
C86	.068 50V 10%		WMF1568	ENF1A168		1PB-S68
C87	39 11220 50V 10%			*	QC2-27	10TCR-Q39
C88	12 50V 10%			GP412A		56AQ12
C89	33 50V 10%		GP33	GP433A		56AQ33
C91	.01 50V			MAG5011		
C92	.01 50V			MAG5011		
C93	.001 50V			GP210		10TS-010
C94	.01 50V			MAG5011		
C95	.001 50V			GP210		10TS-010
C96	.01 50V			MAG5011		
C97	.01 50V			MAG5011		
C98	330 50V 10%		GP330	GP333		10TS-T33
C99	100 50V 10%		GP100	GP310		10TS-T10
C100	.01 50V			MAG5011		
C101	220 50V 10%			GP322		10TS-T22
C102	.01 50V			MAG5011		
C103	.01 50V			MAG5011		
C104	.04 25V			GP140		56A-S40
C105	82 50V NPO 10%			GP482		10TS-Q82
C106	.001 50V			GP210		10TS-010
C107	.001 50V			GP210		10TS-010
C110	.04 50V			GP140		56A-S40
C111	.001 50V			GP210		10TS-010
C112	.001 50V			GP210		10TS-010
C115	.01 50V			MAG5011		
C116	.01 50V			MAG5011		
C117	.01 50V			MAG5011		
C118	.04 25V			GP140		56A-S40
C119	.04 25V			GP140		56A-S40
C120	.04 25V			GP140		56A-S40
C122	.01 50V			MAG5011		
C123	.01 50V			MAG5011		
C124	.04 25V			GP140		56A-S40
C201	.01 50V			MAG5011		
C202	.01 50V			MAG5011		
C203	.01 50V			MAG5011		
C204	.01 50V			MAG5011		
C205	.01 50V			MAG5011		
C206	.01 50V			MAG5011		
C207	.01 50V			MAG5011		
C208	.01 50V			MAG5011		
C209	.01 50V			MAG5011		
C210	.01 50V			MAG5011		
C211	.01 50V			MAG5011		
C212	.01 50V			MAG5011		
C213	.01 50V			MAG5011		
C214	.01 50V			MAG5011		
C301	.0022		DPMS6022	M192P2229RB	QFT2-27	1FT-022
C302	.01 50V			MAG5011		

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFR. PART No.	MALLORY PART No.	TRW PART No.
VR1	IF Gain	500	1900-205	0911H501	U260R501B
VR2	AMC	1000	1900-220	0911H102	U260R102B
VR3	Squelch Range	100K	1900-211	0911H104	U260R104B
VR301	Mic Gain	10K	1900-203	0911H103	U260R103B
VR301A	Volume/Power Switch	10K	1900-146		
VR302	Squelch	50K	1900-147		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Rec Antenna (27MHz)	2200-001	LA-029	CBS740-T	
L2	Rec RF (27MHz)	220-082	LA-138		
L3	Mixer (10.695MHz)	2200-004	LA-181		
L4	Mixer (10.695MHz)	2200-004	LA-181		
L6	IF (455kHz)	2200-048	LA-204		
L7	IF (455kHz)	2200-086	LA-276		
L8	PLL (15.360MHz)	2200-518	LA-286		
L9	RF Choke (100uH)	2200-202	LZ-016		
L10	VCO	2200-083	LA-165		
L11	Buffer (16MHz)	2200-047	LA-201		
L12	XMT Mixer (27MHz)	2200-045	LA-198	CBS717-TC	
L13	XMT Mixer (27MHz)	2200-084	LA-088		
L14	XMT (27MHz)	2200-085	LA-208		
L15	XMT Driver (27MHz)	2200-020	LC-072		
L16	RF Choke	2200-017	LD-033		
L17	Final (27MHz)	2200-020	LC-072		
L18	Pi Filter	2200-088	LE-092		
L19	Antenna Matching	2200-089	LE-093		
L20	TVI Trap (54MHz)	2200-020	LC-072		

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.	
T1	1.2A	.135	.05mH	2300-001			

TRANSFORMER (MODULATION)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	1	2.2		2600-011			

TRANSFORMER (MIC)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T301	16	4000	2600-012			

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	2" PM 16 Ohms			Also used as microphone.

PRESIDENT MODEL 1015001, JAMES K.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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	2A Quick-Acting	2800-001	(1)	AGC-2	HRK	312002	150145	FG2-2

(1) Part of DC Power Cord.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	2200-301	(10.695MHz) FFLY048001 (FL-048)
CF2	Filter	2200-302	(455kHz) FFLY06600 (FL-066)
0301	LED	2000-343	XMT-RED (1.91V @ 4.8mA) REC-GREEN (1.96V @ 10mA) (TRLG-101)(MK-15-31)
0304	LED	2000-306	Channel Indicator Tens & Units (Each Segment supplied with 2.0V @ 7mA) (UR-202)(MK-15-30)
J1	Jack	1100-024	Mic (JK-127) JJKY127001
J2	Jack	1100-002	Antenna (JK-035) JJKY035001
J3	Jack	1100-021	EXT Sp (JK-089) JJKY089001
J4	Jack	1100-025	Relay Control (JK-126) JJKY126001
J5	Jack	1100-003	DC Power (JK-052) JJKY052001
Mic	Mic & Speaker	3200-008	Mic-Speaker Assembly (MK-118)
P301	Plug		Mic
RY1	Relay	2400-004	Power (412 Ohm) (RL-031) ZRLY031001
RY2	Relay	2400-004	XMT (412 Ohm) (RL-031) ZRLY031001
S301	Switch		Power (Part of VR301)
S302	Switch	300-019	Off/AML (KSR-112A) (MK-15-21)
S303	Switch	3000-019	CH9/Off (KSR-112A) (MK-15-21)
S304	Switch	3000-019	Channel Lock On/Off (MK-15-21) (KSR-112A)
S305	Switch	3000-017	Channel Select (Seesaw) Down/Up (PM-00239)(MK-15-19)
S306A	Switch	3000-018	XMT/Rec (Part of Mic Assembly) (Push Type SW-00831)
S306B	Switch		XMT/Rec (Part of Mic Assembly) (push Type SW/00831)
X1	Crystal	2100-013	(10.240MHz) (QX-074) QQXY074001
	Cord	2700-201	Mic Curled (PM-00251)
	Cord	2700-001	DC Power (W-070229)
	P.C. Board		Main (PC-S90AA)
	P.C. Board	3500-058	Mic Jack PC-S91AA

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Front	3200-101	Knob	1300-023
Cabinet, Rear	3200-102	Knob, Hooked, Mic	3200-104
Cover Bottom (MDDP305550)	3300-129		

WIRING DATA

Cable (Speaker)(Unshielded).....	Use BELOEN No. 8782 (AWG24)(4 colors)
Shielding Strap.....	Use BELOEN No. 8660 (3/16" width)
Hook-up Wire (General Use).....	Use BELOEN No. 8524 (AWG22)(13 colors)
Hook-up Wire (Shielded).....	Use BELOEN No. 8401 (Braided Shield)(1 conductor)(AWG25)
	Use BELOEN No. 8421 (Spiral Shield)(1 conductor)(AWG25)
	Use BELOEN No. 8737 (Spiral Shield)(2 conductor)(AWG22)