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 TRC-426 (21-1533)

MANUFACTURER'S SPECIFICATIONS

GENERAL

Channels	: All 40 CB channels 26.965 to 27.405 MHz
Power Requirement	: 12 volts DC, positive or negative ground (20 watts)
Current Drain	: 300 – 1600 mA (from no signal receive to full modulation on transmit)
PA Power	: 5 watts
Microphone	: Dynamic with push-to-talk switch, coiled cable and locking-type DIN plug
Built-in Speaker	: 3" (7.7 cm)
Semiconductors	: 4 FETs, 31 Transistors, 1 LSI, 4 ICs, 3 LEDs, 43 Diodes and 1 Thermistor
Dimensions	: 5-5/16" x 9" x 9-3/16" (13.5 cm x 22.9 cm x 23.3 cm) (HWD)
Weight	: 4 lbs. 9 ozs. (2.05 kg)

RECEIVER

Sensitivity	: 0.5 μV for 10 dB S/N
Adjacent Channel Rejection	: 70 dB
Audio Distortion	: Less than 10% at 4 watts output
Spurious Rejection Ratio	: 70 dB
Spurious Cabinet Radiation	: Less than 5 μV (FCC limitation)
I.F.	: 10.695 MHz, 455 kHz
Squelch	: Adjustable from 0.5 μV to 1 mV

TRANSMITTER

Power Output	: 4 watts maximum
Modulation	: 90 – 100%
Spurious Radiation	: –65 dB or better
Emission Type	: 6A3
Frequency Tolerance	: Better than 0.002%
Antenna Impedance	: 50 ohms (SO-239 receptacle)

Courtesy of the Manufacturer

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

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:
L101,L102,L103,L804,L805,L806,L807,L901,L903,
F901.....9440
L801,L802,L803,T301,T302,T303.....5000,5009,8276,8728,9089
L905.....9300,9302,9304

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope to TP1 (L801 secondary).	Ch. 19	L801	Adjust for Maximum RF (700mV p-p typical). See Figure 1.
Input of frequency counter to TP1 (L801 secondary).	Ch. 19 Delta Tune 0	CT801	Adjust for 10.240MHz.
Input of DC meter to TP2 (Junction of R824 and R823).	Ch. 1	L802	Adjust for 1.50 volts. Check for approximately 3.00 volts on channel 40.
Input of oscilloscope to TP3 (L803 secondary).	Ch. 19	L803	Adjust for Maximum RF (200mV p-p typical). See Figure 2.
Input of frequency counter to TP3 (L803 secondary).	Ch. 1 Delta Tune 0		Check for 16.270MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP4 (IC802 Pin 7).	Ch. 1 XMT		Check for 16.725MHz. Check all channels. (See Truth Chart for correct frequencies.)

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Set generator output low enough to prevent AGC limiting. Preset controls as follows, unless otherwise noted: RF Gain Max,Squelch Min,Delta Tune 0,Ch.9/SCAN/Out-Out,Tone Hi,NB/ANL-Out.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator to TP5 (Q302 base). 455kHz,1000Hz @ 30% modulation.	Ch. 19	T303,T302	Adjust for Maximum audio output.
Output of signal generator to antenna input. 27.185MHz,1000Hz @ 30% modulation.	Ch. 19	T301,L103, L102,L101	Adjust for Maximum audio output. Readjust T302 and T303 for Maximum.

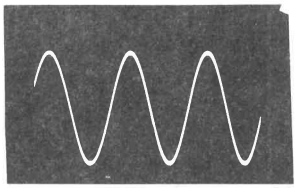


FIGURE 1

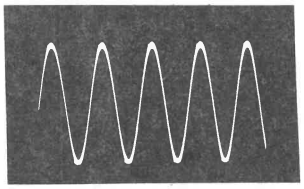


FIGURE 2

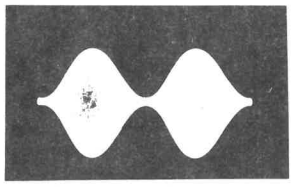


FIGURE 3

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Preset controls as follows, unless otherwise noted: RF Gain Max,Squelch MIN,Delta Tune 0,
Ch. 9/SCAN/Out Out,Tone Hi,NB/ANL Out.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of DC meter to TP6 (Q506 base). No signal input.	Ch. 19	VR7	IF AGC Adjust for 1.00 volts.
Output of signal generator to antenna input. 27.185MHz,1000Hz @ 30% modulation. Output 1uV.	Ch. 19 Volume Maximum	VR1	RF AGC Adjust for 2.00 volts rms (.5 watts) audio output.
Output of signal generator to antenna input. 27.185MHz,1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 Squelch Maximum	VR5	SQUELCH RANGE Adjust so that squelch just breaks.
Output of signal generator to antenna input. 27.185MHz,1000Hz @ 30% modulation.	Ch. 19	VR3	RX SIGNAL METER Adjust for 9 on RX SIGNAL scale of meter.

TRANSMITTER ALIGNMENT

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input.	Ch. 19	L804,L805, L806,L807, L901,L903	Adjust for Maximum RF output.

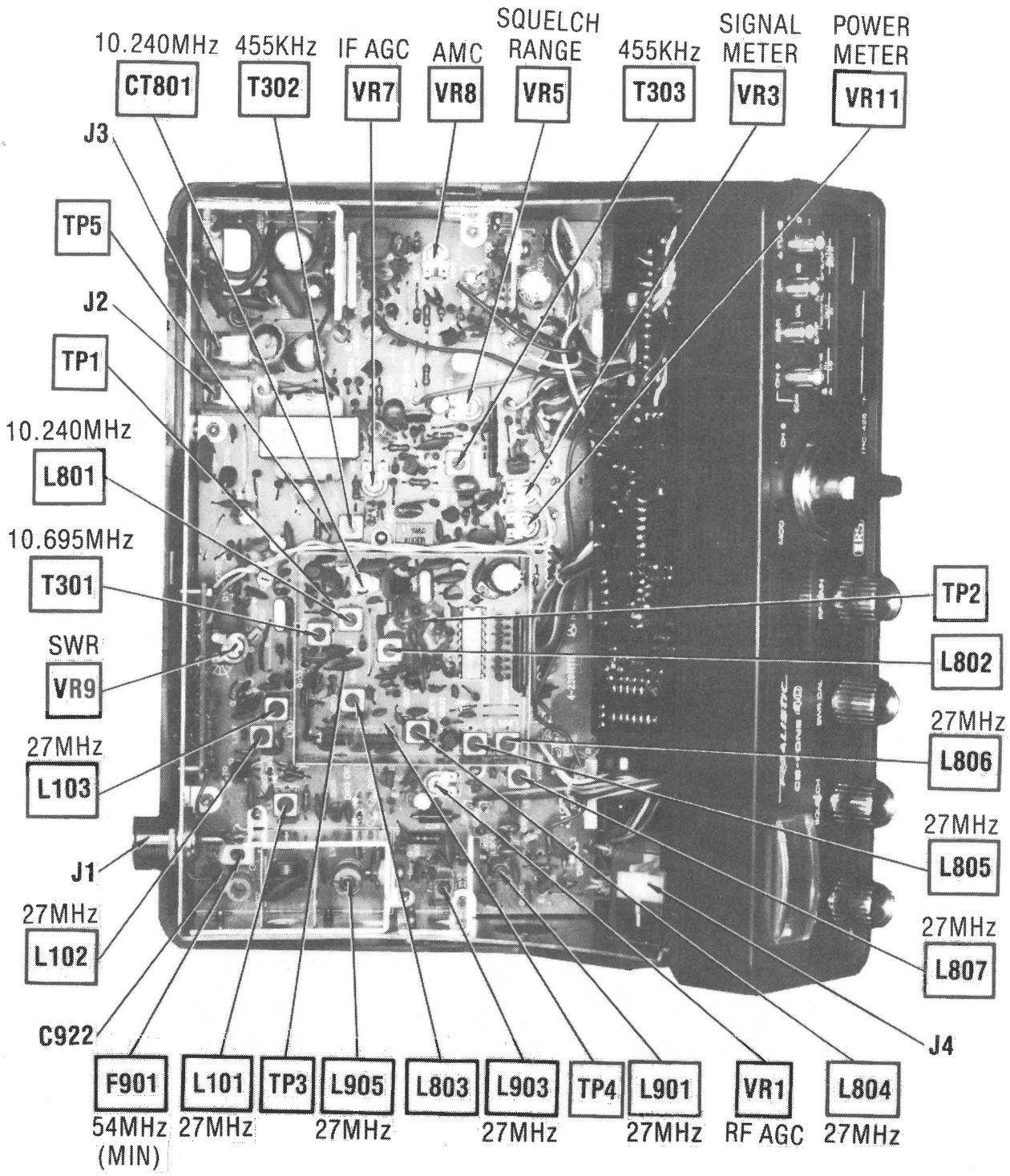
TRANSMITTER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope to modulation meter to antenna input. Inject a 1000Hz, 20mV audio signal at mic input.	Ch. 19	VR8	AMC Adjust for 100% modulation Maximum. See Figure 3.
Input of RF wattmeter to antenna input.	Ch. 19	VR11	TX POWER METER At 4.0 watts RF output adjust for 4 on TX PWR scale of meter.

TRUTH CHART

CHANNEL	1 = 7.62 Volts 0 = .53 Volts CHANNEL INPUT CODES PINS								REC VCO OUTPUT IN MHz AT TP3	XMT VCO OUTPUT IN MHz AT TP4	
	17	16	15	14	13	12	11	10			
1	1	1	1	1	1	1	1	1	16.270	16.725	
2	1	1	1	0	0	0	0	1	16.280	16.735	
3	1	1	1	0	1	0	0	1	16.290	16.745	
4	1	1	1	1	1	0	1	0	16.310	16.765	
5	1	1	1	0	1	0	0	0	16.320	16.775	
6	1	1	1	0	0	0	1	0	16.330	16.785	
7	1	1	1	1	1	1	0	1	16.340	16.795	
8	1	1	1	0	0	0	0	0	16.360	16.815	
9	1	1	1	1	1	0	0	0	16.370	16.825	
10	1	1	0	0	0	1	0	0	16.380	16.835	
11	1	1	0	1	1	1	1	1	16.390	16.845	
12	1	1	0	0	0	0	0	1	16.410	16.865	
13	1	1	0	0	1	0	0	1	16.420	16.875	
14	1	1	0	1	1	0	1	0	16.430	16.885	
15	1	1	0	0	1	0	0	0	16.440	16.895	
16	1	1	0	0	0	0	1	0	16.460	16.915	
17	1	1	0	1	1	1	0	1	16.470	16.925	
18	1	1	0	0	0	0	0	0	16.480	16.935	
19	1	1	0	1	1	0	0	0	16.490	16.945	
20	1	0	1	0	0	1	0	0	16.510	16.965	
21	1	0	1	1	1	1	1	1	16.520	16.975	
22	1	0	1	0	0	0	0	1	16.530	16.985	
23	1	0	1	0	1	0	0	1	16.560	17.015	
24	1	0	1	1	1	0	1	0	16.540	16.995	
25	1	0	1	0	1	0	0	0	16.550	17.005	
26	1	0	1	0	0	0	1	0	16.570	17.025	
27	1	0	1	1	1	1	0	1	16.580	17.035	
28	1	0	1	0	0	0	0	0	16.590	17.045	
29	1	0	1	1	1	0	0	0	16.600	17.055	
30	1	0	0	0	0	1	0	0	16.610	17.065	
31	1	0	0	1	1	1	1	1	16.620	17.075	
32	1	0	0	0	0	0	0	1	16.630	17.085	
33	1	0	0	0	1	0	0	1	16.640	17.095	
34	1	0	0	1	1	0	1	0	16.650	17.105	
35	1	0	0	0	1	0	0	0	16.660	17.115	
36	1	0	0	0	0	0	1	0	16.670	17.125	
37	1	0	0	1	1	1	0	1	16.680	17.135	
38	1	0	0	0	0	0	0	0	16.690	17.145	
39	1	0	0	1	1	0	0	0	16.700	17.155	
40	0	1	0	0	0	1	0	0	16.710	17.165	


10.240MHz
CT801
455KHz
T302
IF AGC
VR7
AMC
VR8
SQUELCH
RANGE
VR5
455KHz
T303
SIGNAL
METER
VR3
POWER
METER
VR11
J3
TP5
J2
TP1
10.240MHz
L801
10.695MHz
T301
SWR
VR9
27MHz
L103
J1
27MHz
L102
C922
F901
54MHz
(MIN)
L101
27MHz
TP3
L905
27MHz
L803
L903
27MHz
TP4
L901
27MHz
VR1
RF AGC
L804
27MHz
TP2
L802
27MHz
L806
27MHz
L805
27MHz
L807
J4

CHASSIS-TOP

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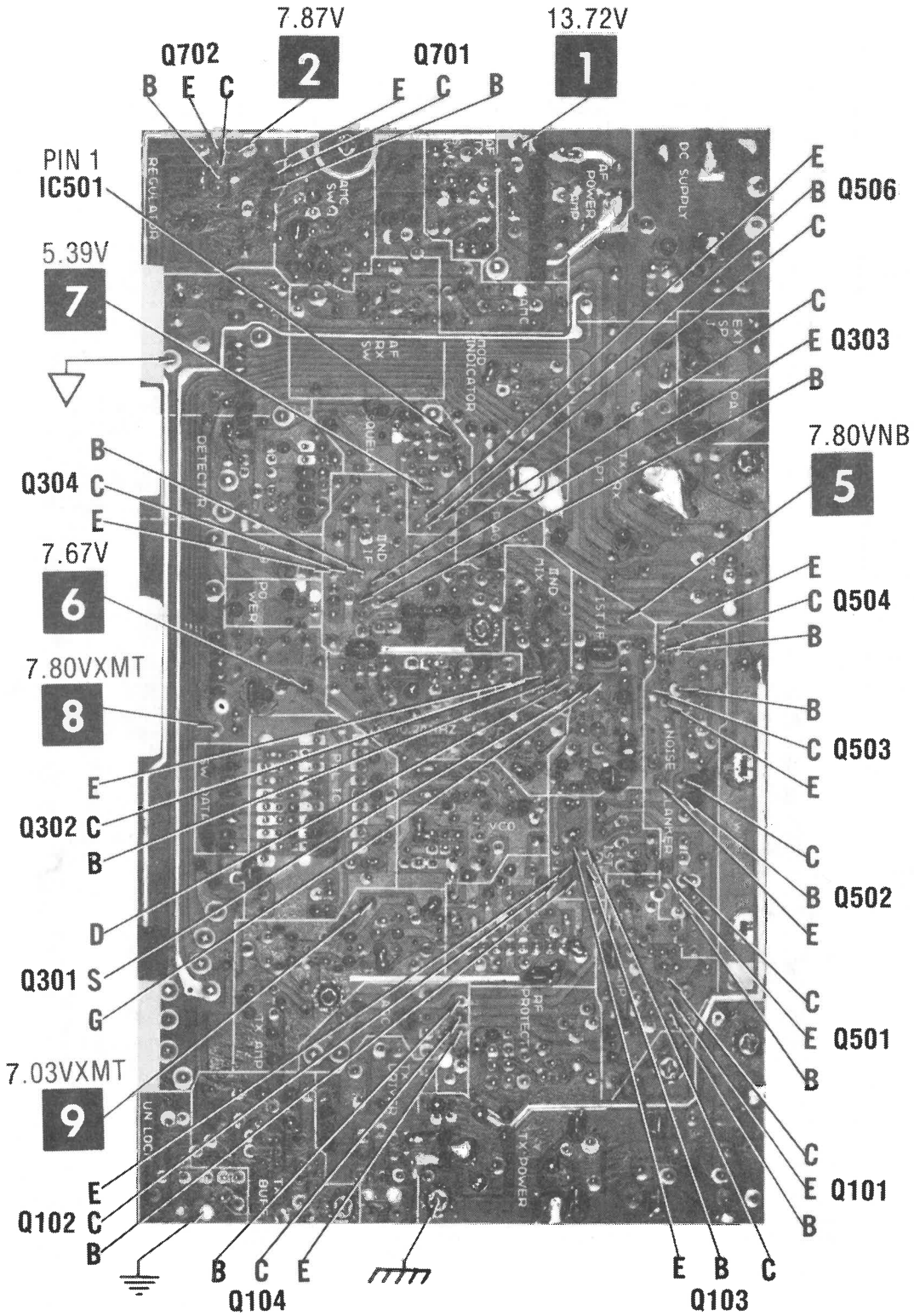

MAIN BOARD

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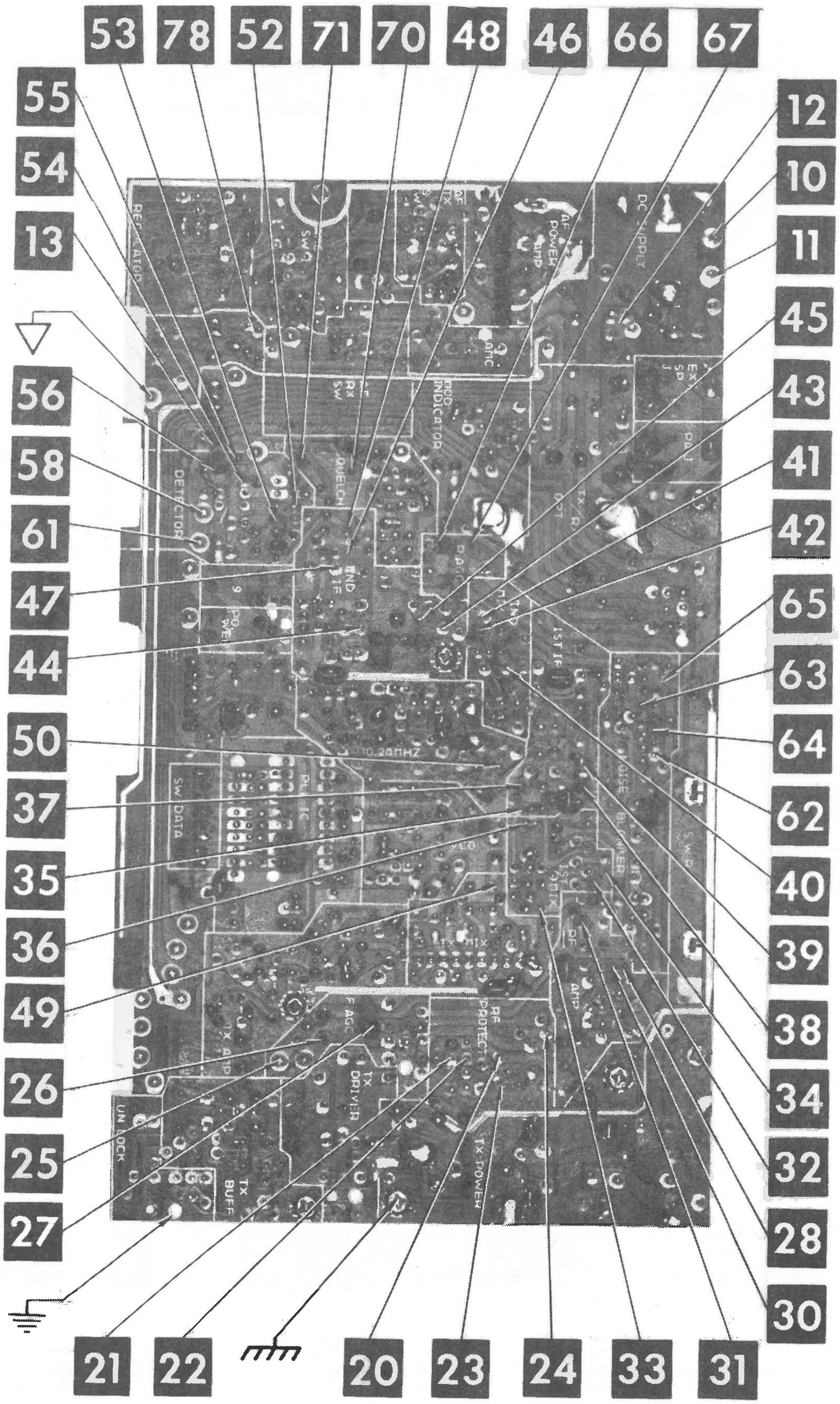
REALISTIC MODEL TRC-426



MAIN BOARD

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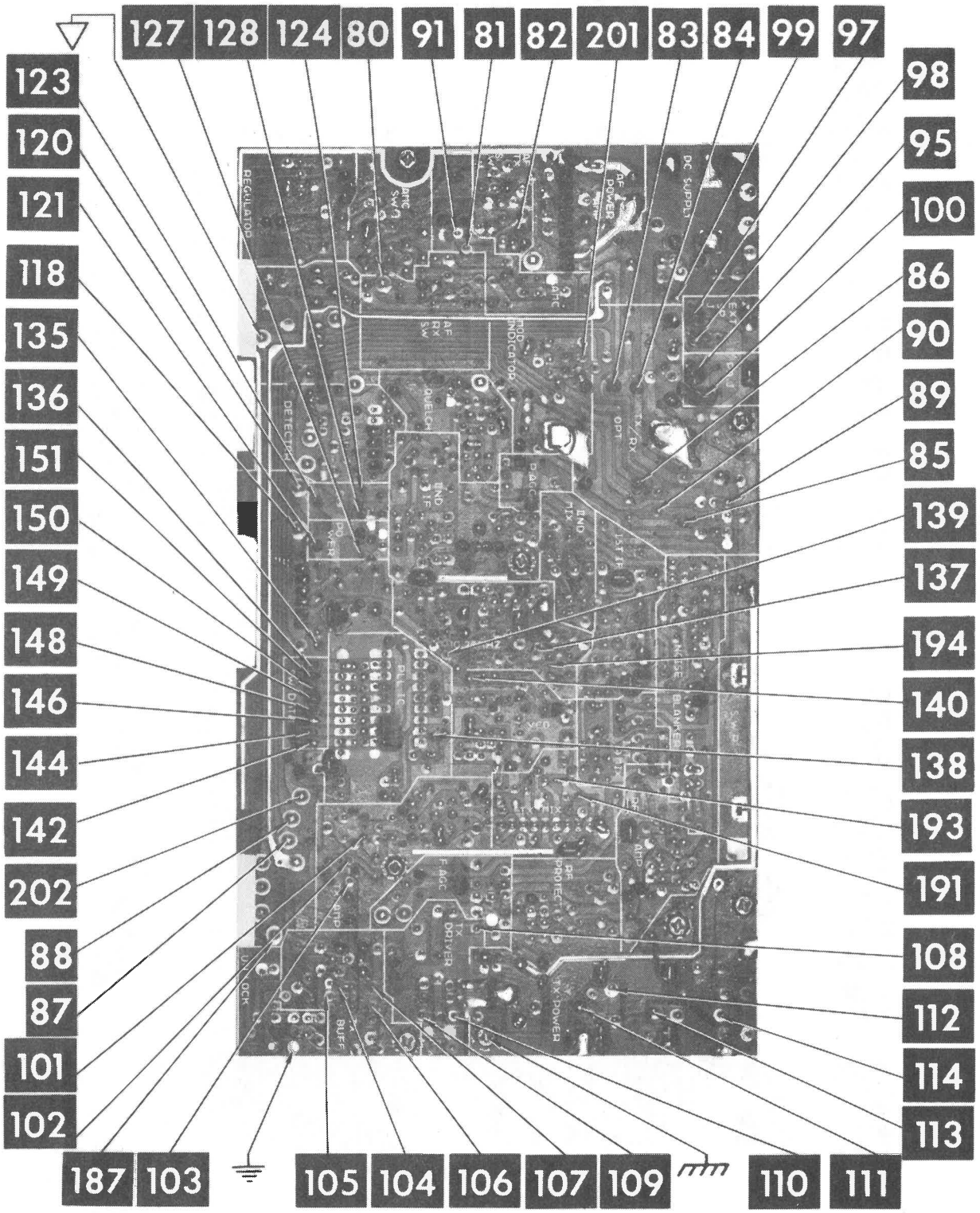
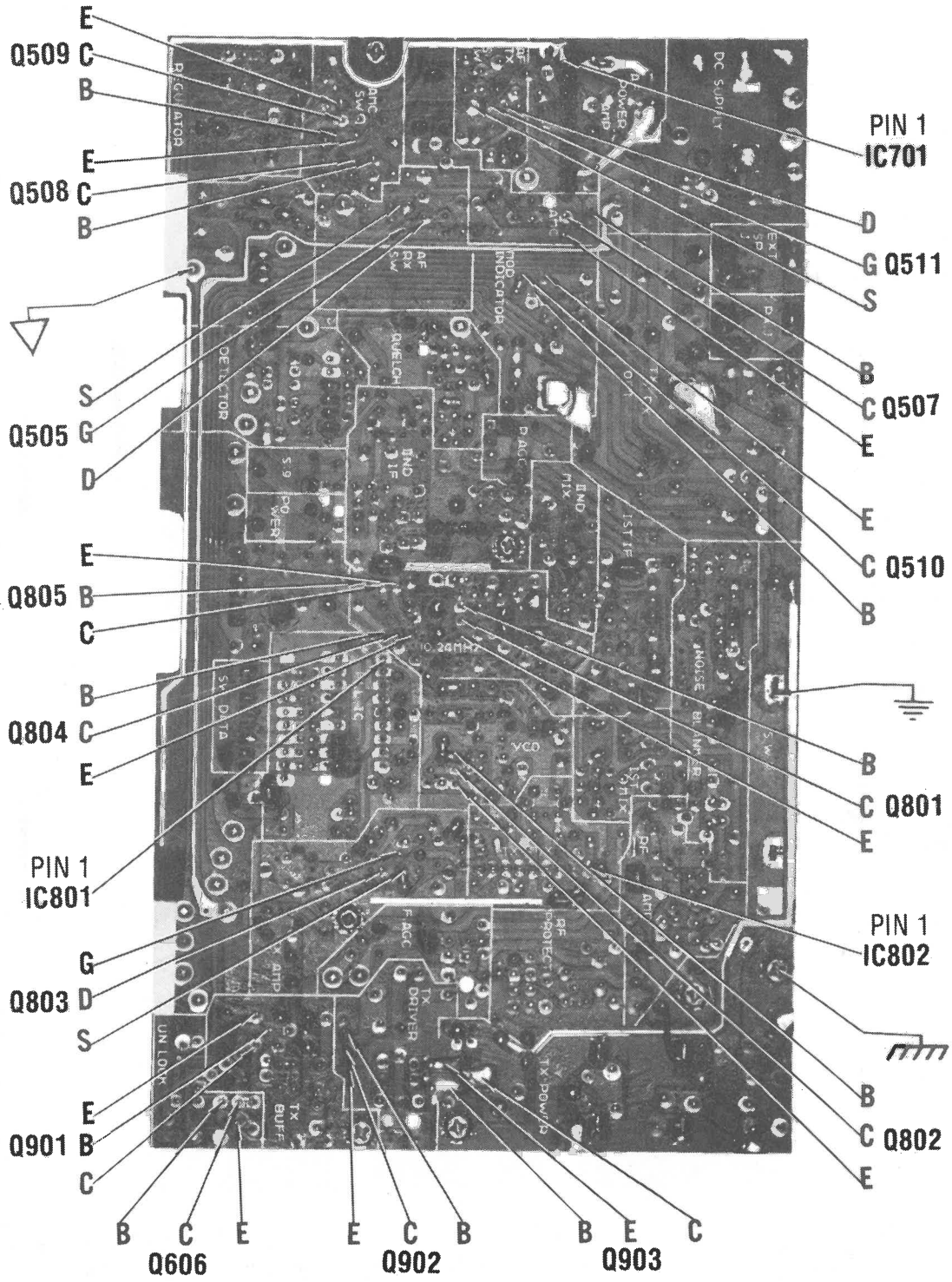
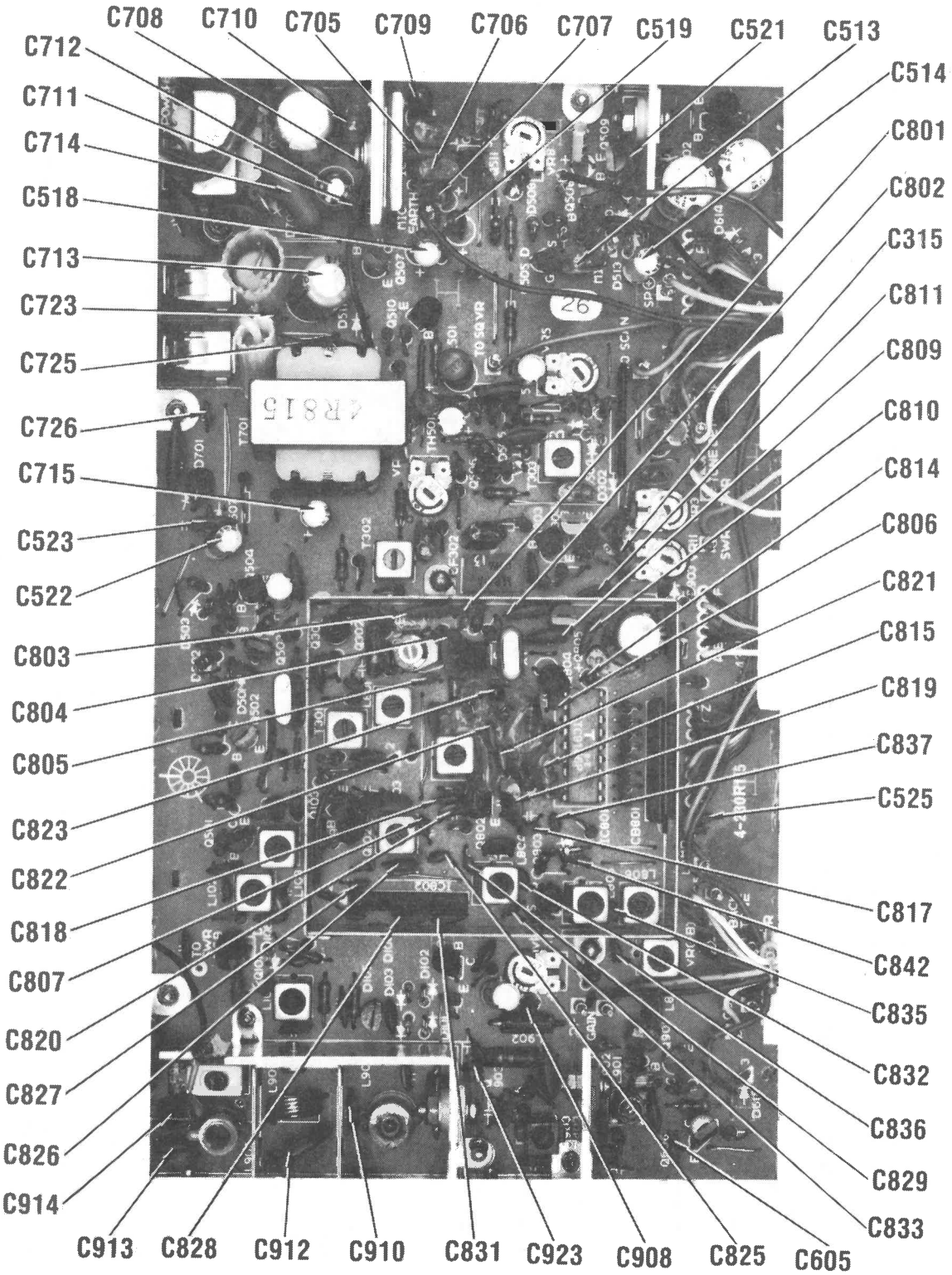


MAIN BOARD


E
Q509 C
B
E
Q508 C
B
S
Q505 G
D
E
Q805 B
C
B
Q804 C
E
PIN 1
IC801
G
Q803 D
S
E
Q901 B
C
B C E
Q606
E C B
Q902
B E C
Q903
PIN 1
IC701
D
G Q511
S
B
C Q507
E
E
C Q510
B
B
C Q801
E
PIN 1
IC802
B
C Q802
E
REGULATOR
DC SUPPLY
POWER AMP
DETECTOR
SQUELCH
MOD INDICATOR
10.24MHz
VCO
TX DRIVER
TX BUFF
TX AMP
F AGC
RF PROTECT
NOISE BLANK

MAIN BOARD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C711
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C518
C315
C713
C811
C723
C809
C725
C810
C726
C814
C715
C806
C523
C821
C522
C815
C803
C819
C804
C837
C805
C525
C823
C822
C817
C818
C842
C807
C835
C820
C832
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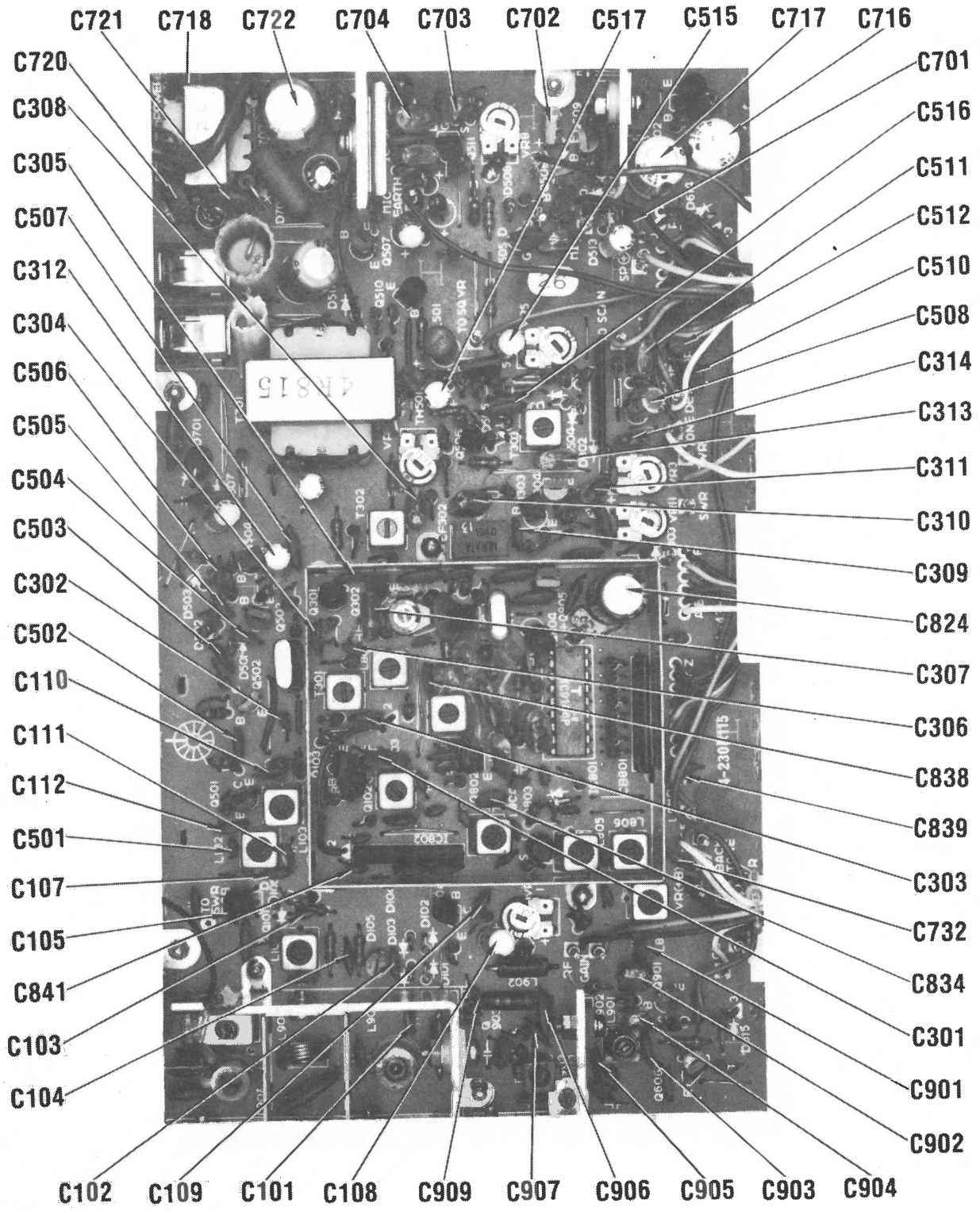
C605

MAIN BOARD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C302
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C110
C111
C112
C501
C107
C105
C841
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C701
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C511
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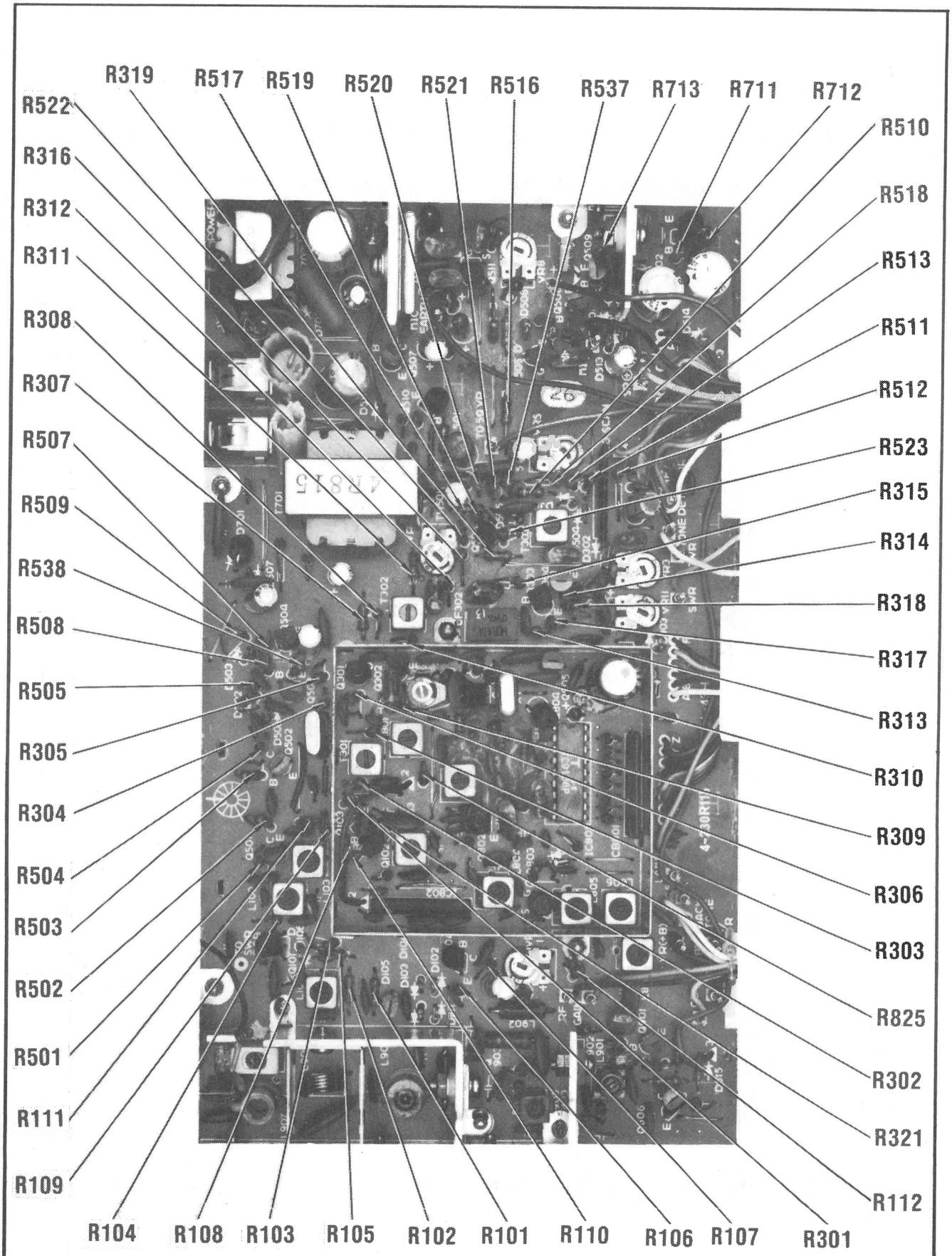
MAIN BOARD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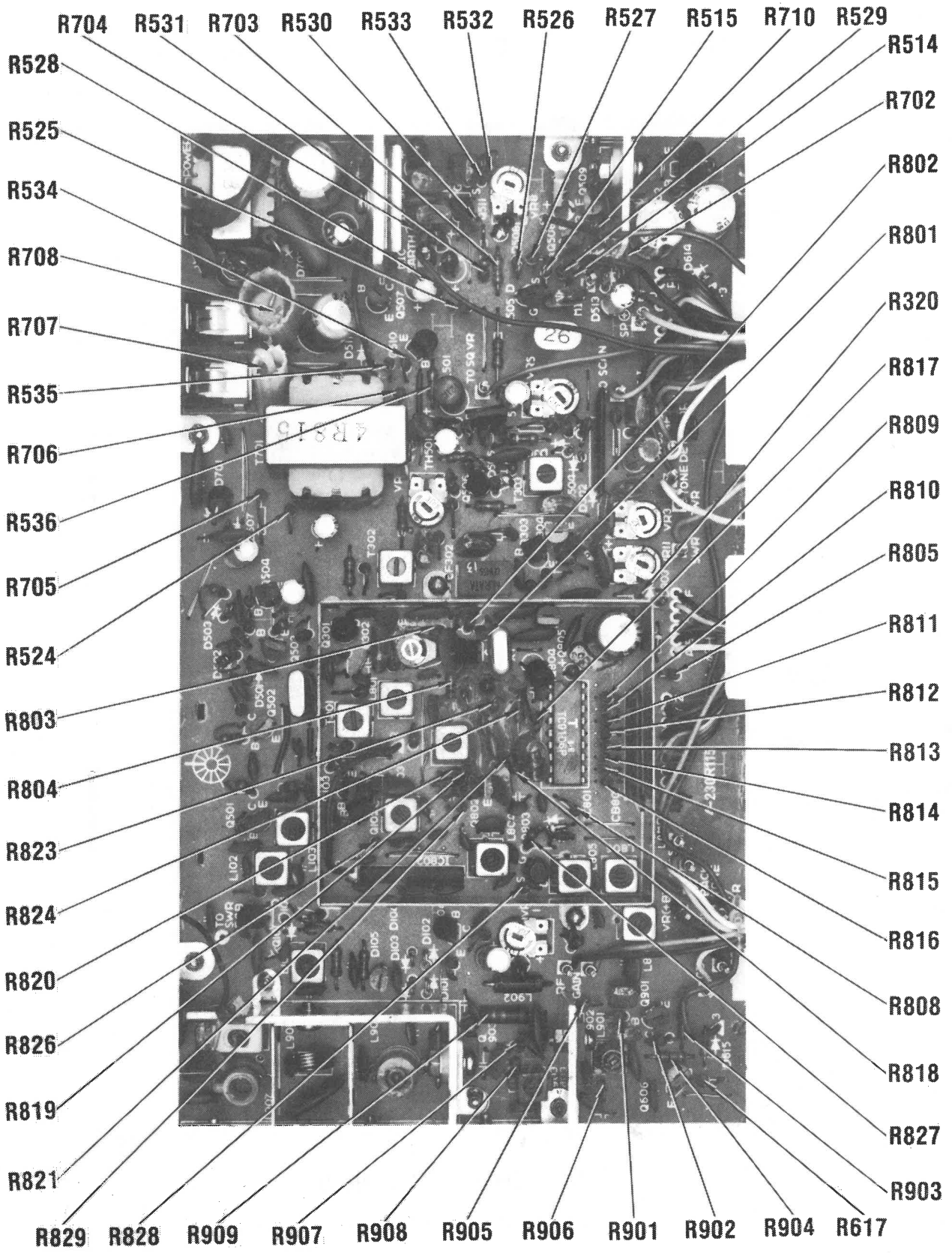
R301

MAIN BOARD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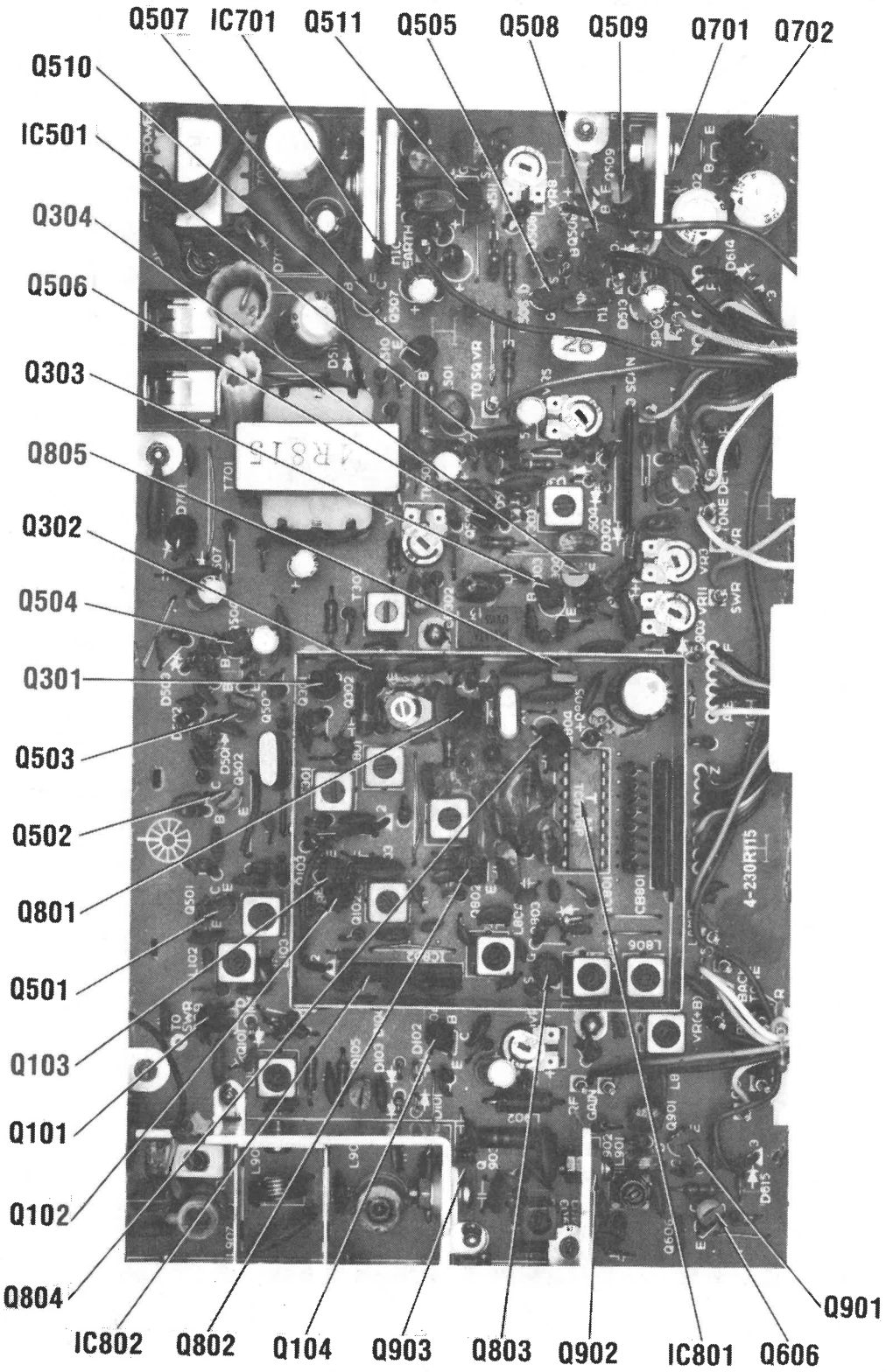
R617

MAIN BOARD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IC501
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Q503
Q502
Q801
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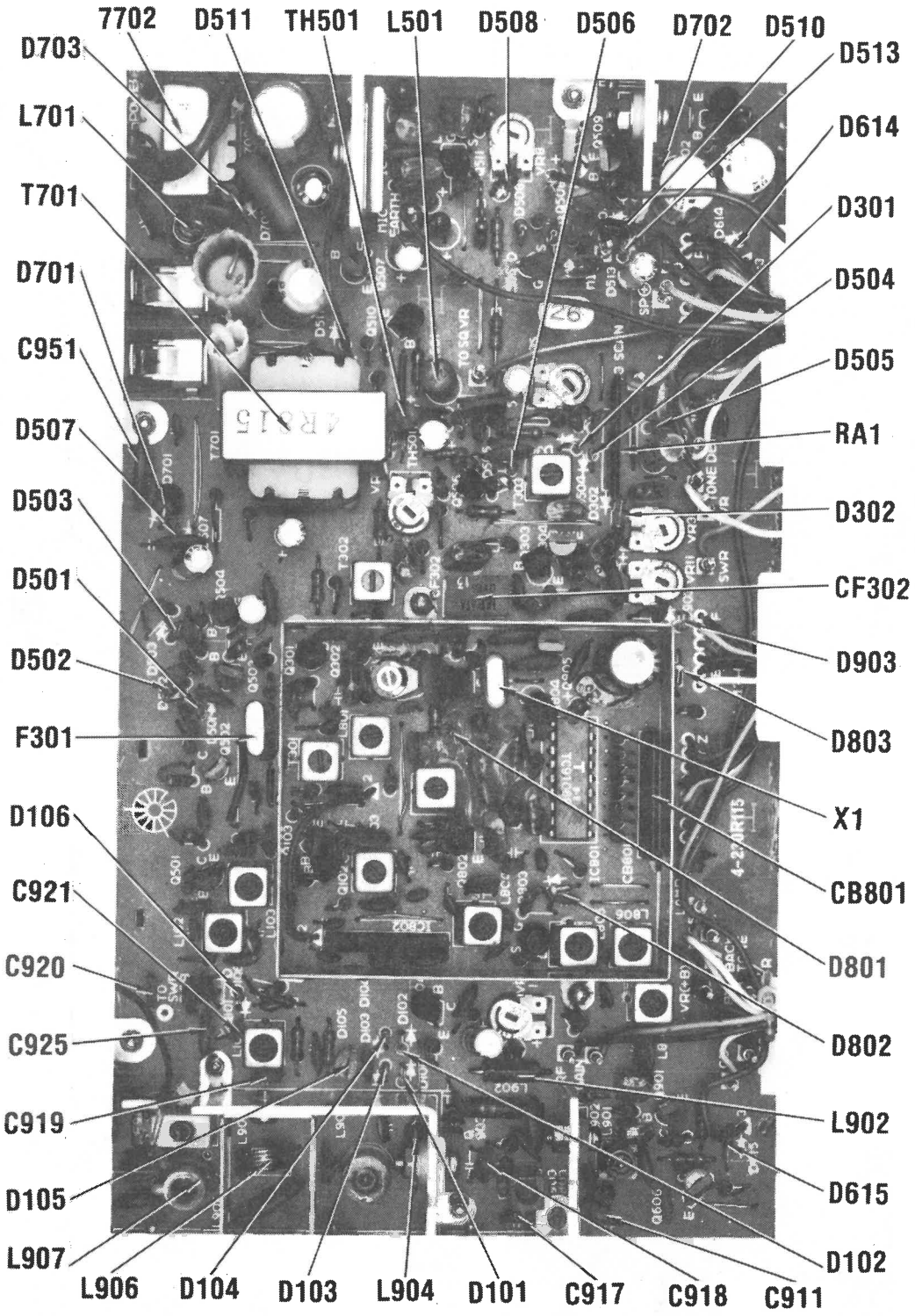
Q606
Q901

MAIN BOARD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D507
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D802
C925
L902
C919
D615
D105
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C918
C911

MAIN BOARD

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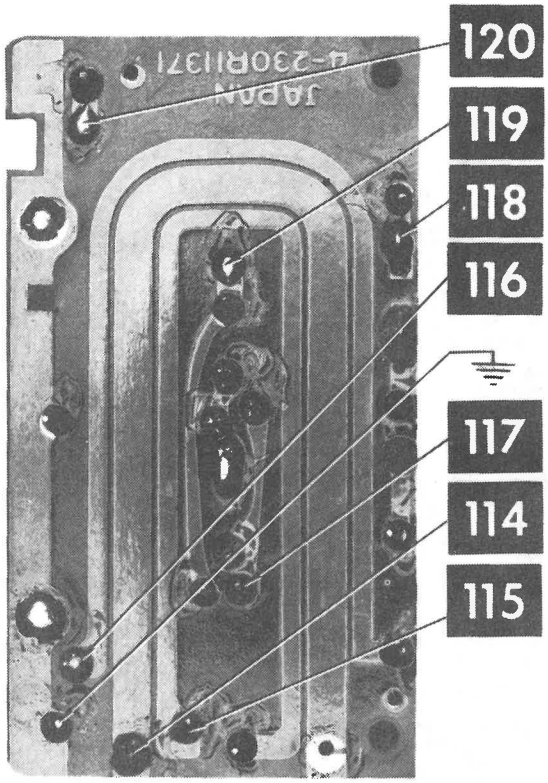

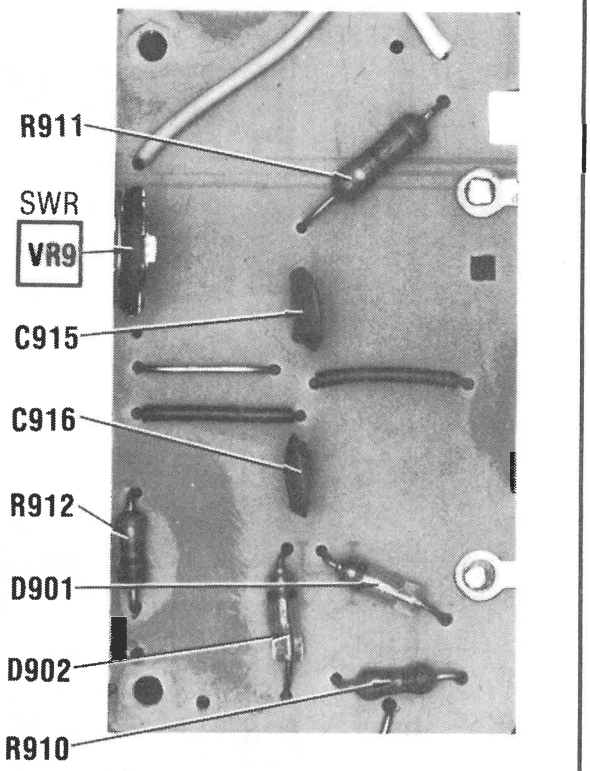

SWR BOARD

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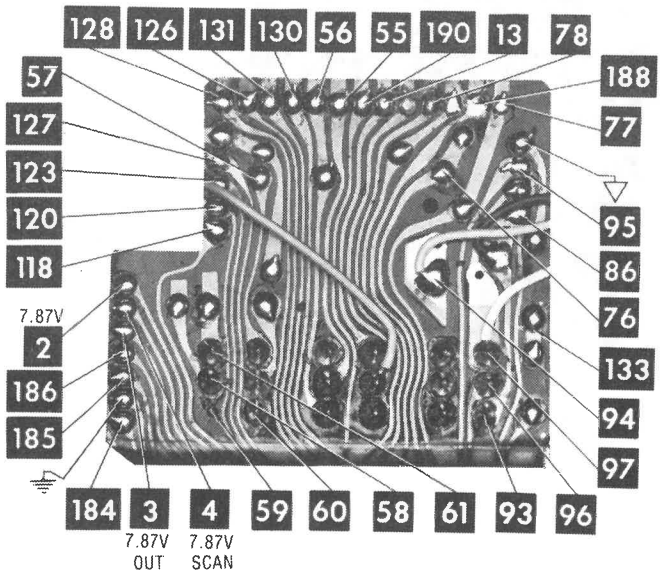

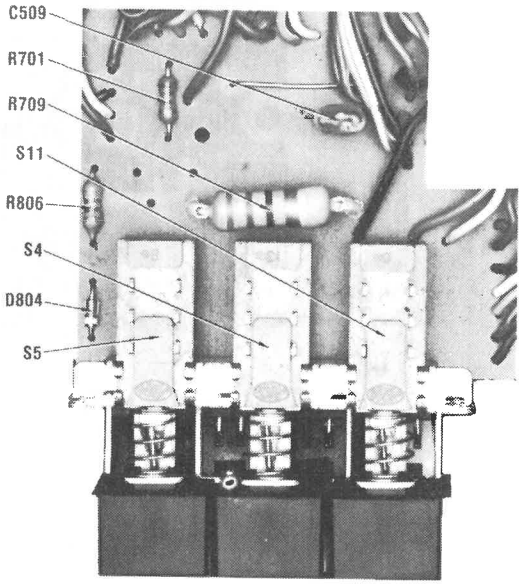

SWITCH BOARD

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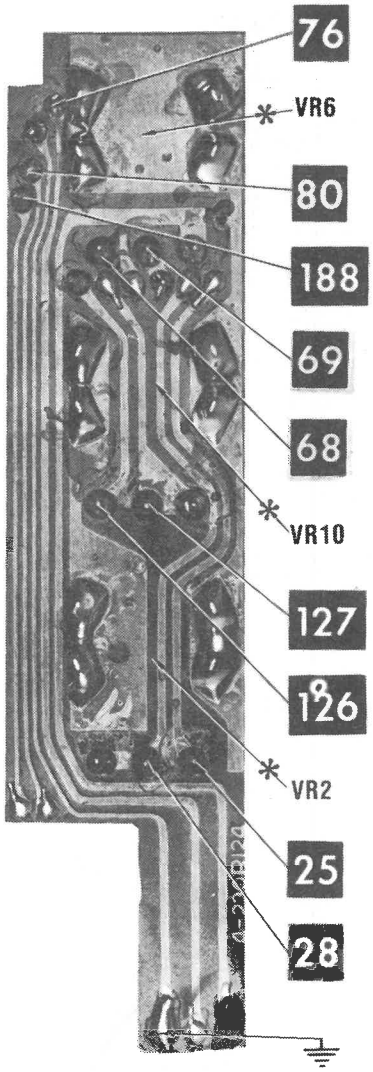

* LOCATED ON TOP OF BOARD

CONTROL BOARD

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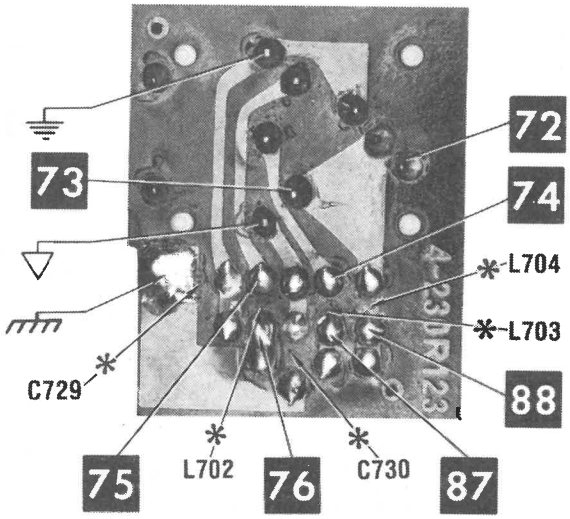

* LOCATED ON TOP OF BOARD

MIC JACK BOARD

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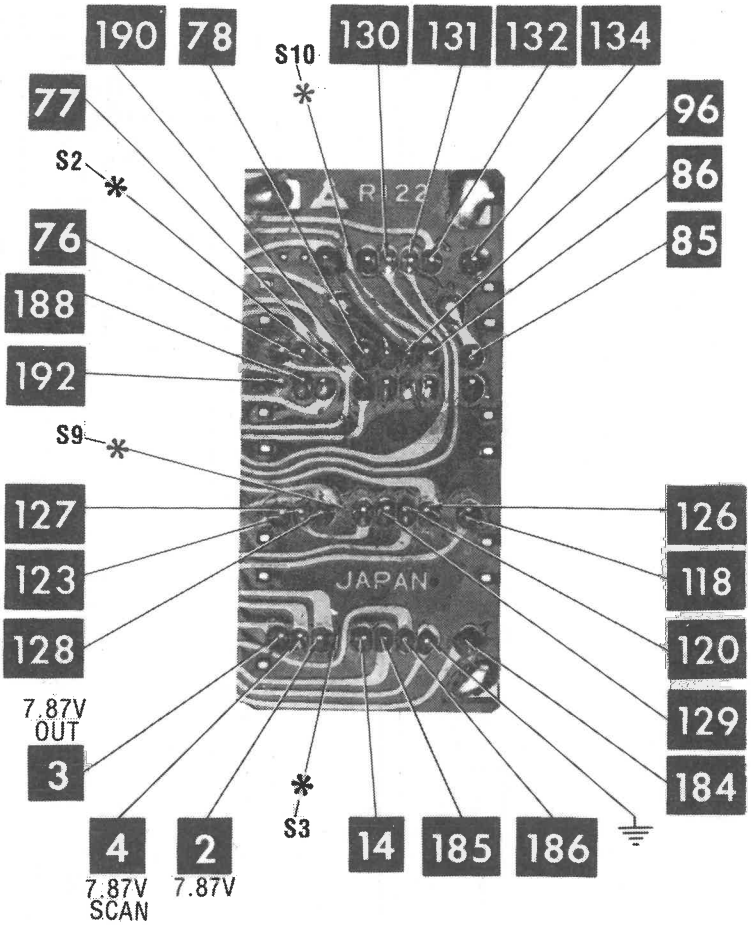
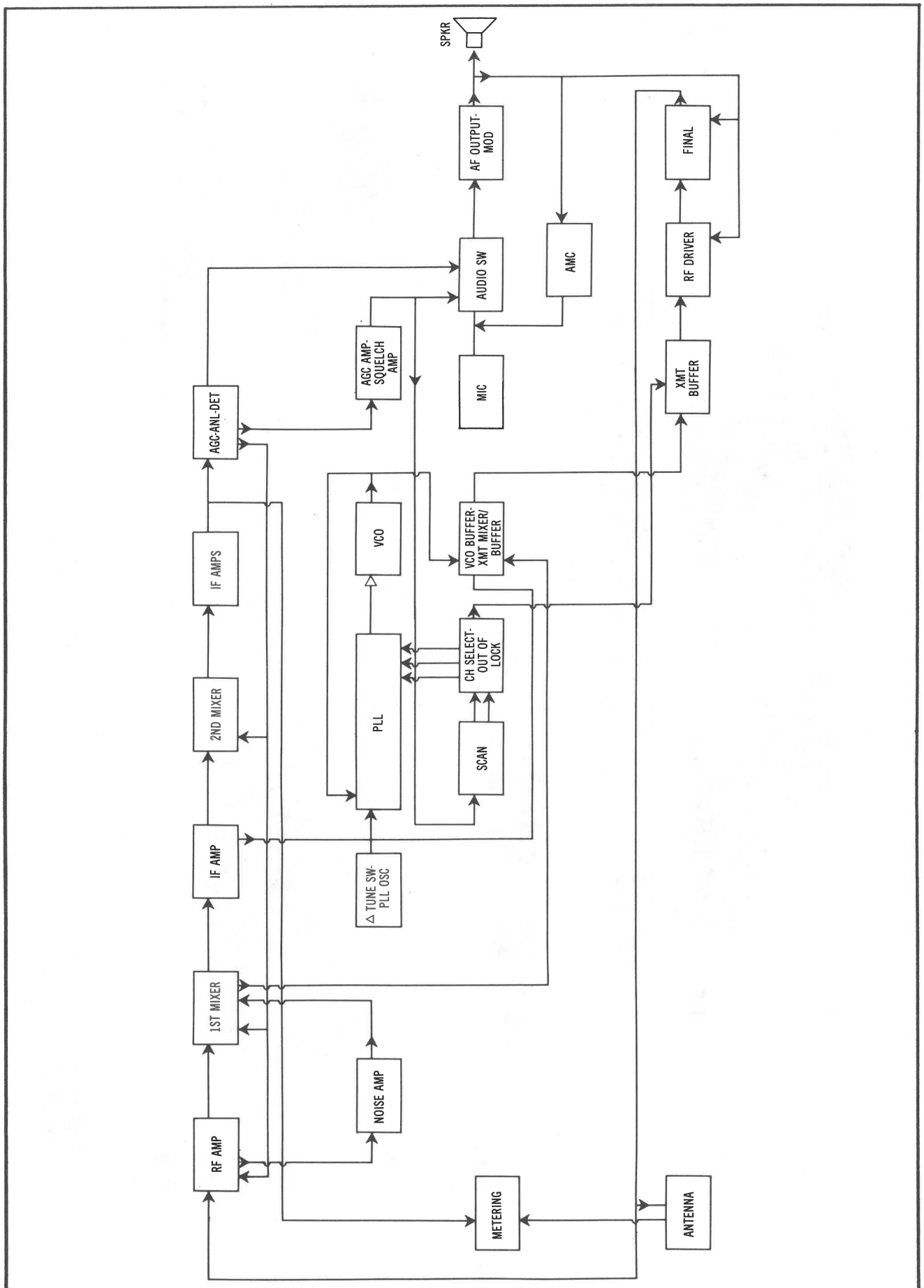


* LOCATED ON TOP OF BOARD

SWITCH BOARD



BLOCK DIAGRAM

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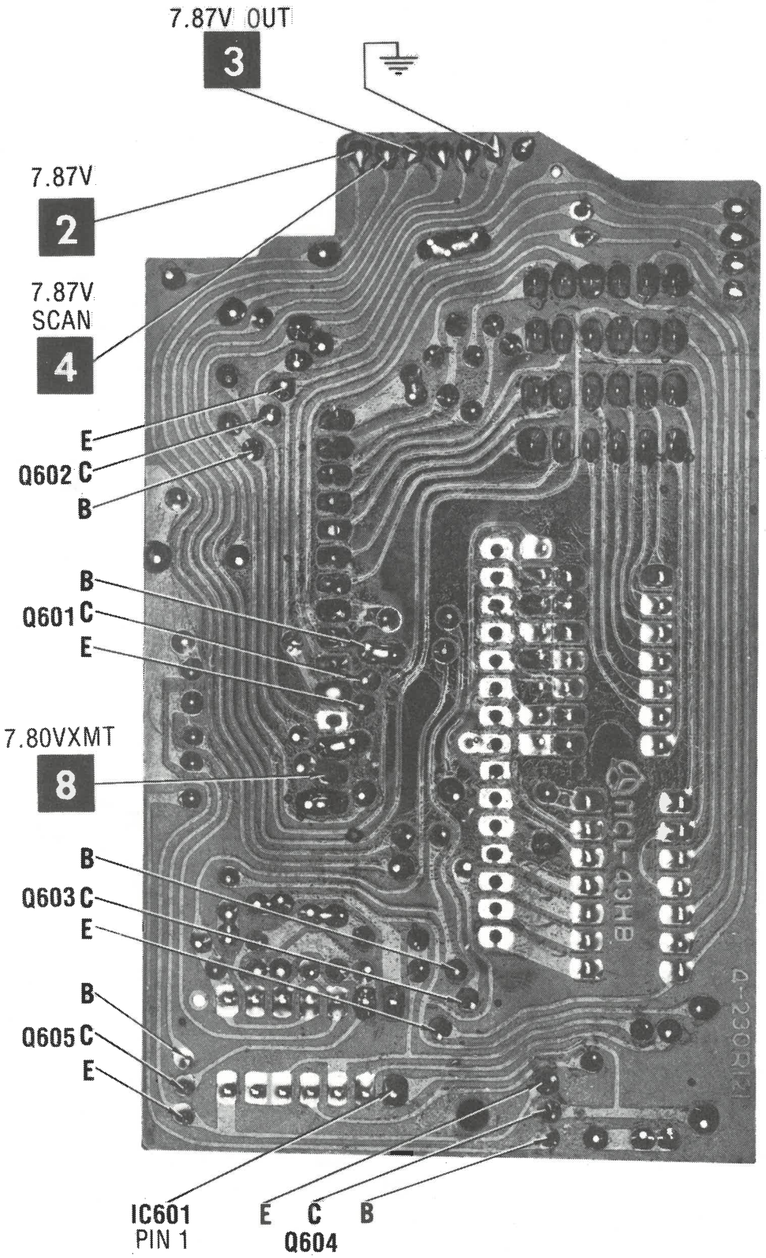

CH. SWITCH & SCAN BOARD

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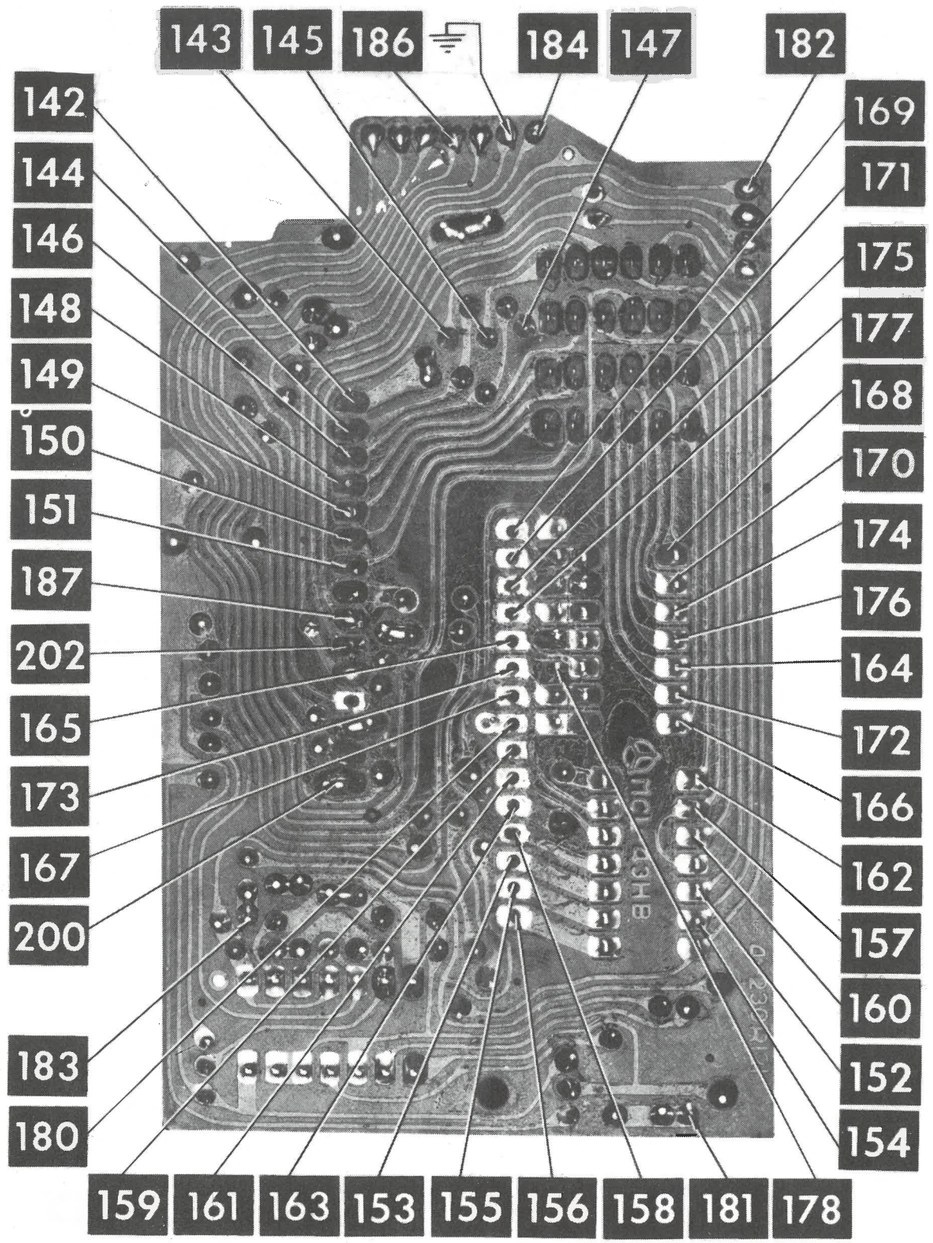
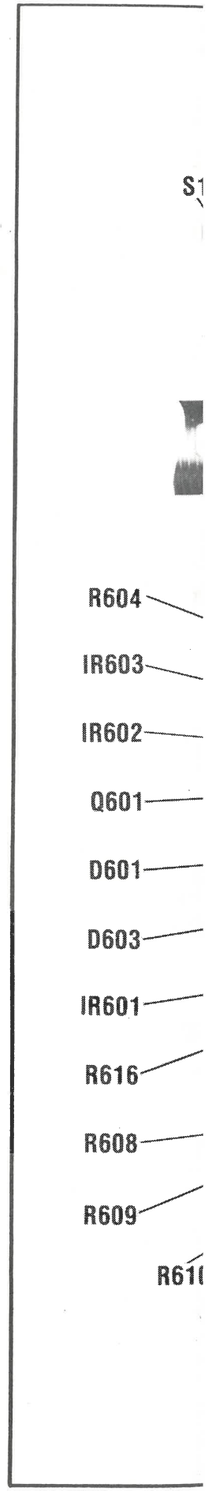
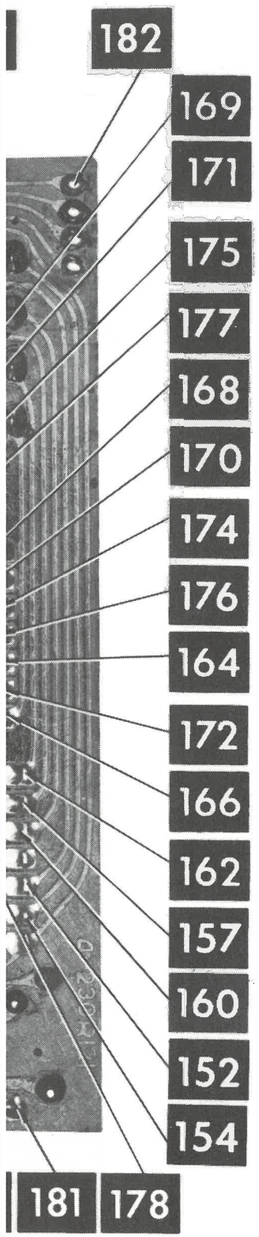


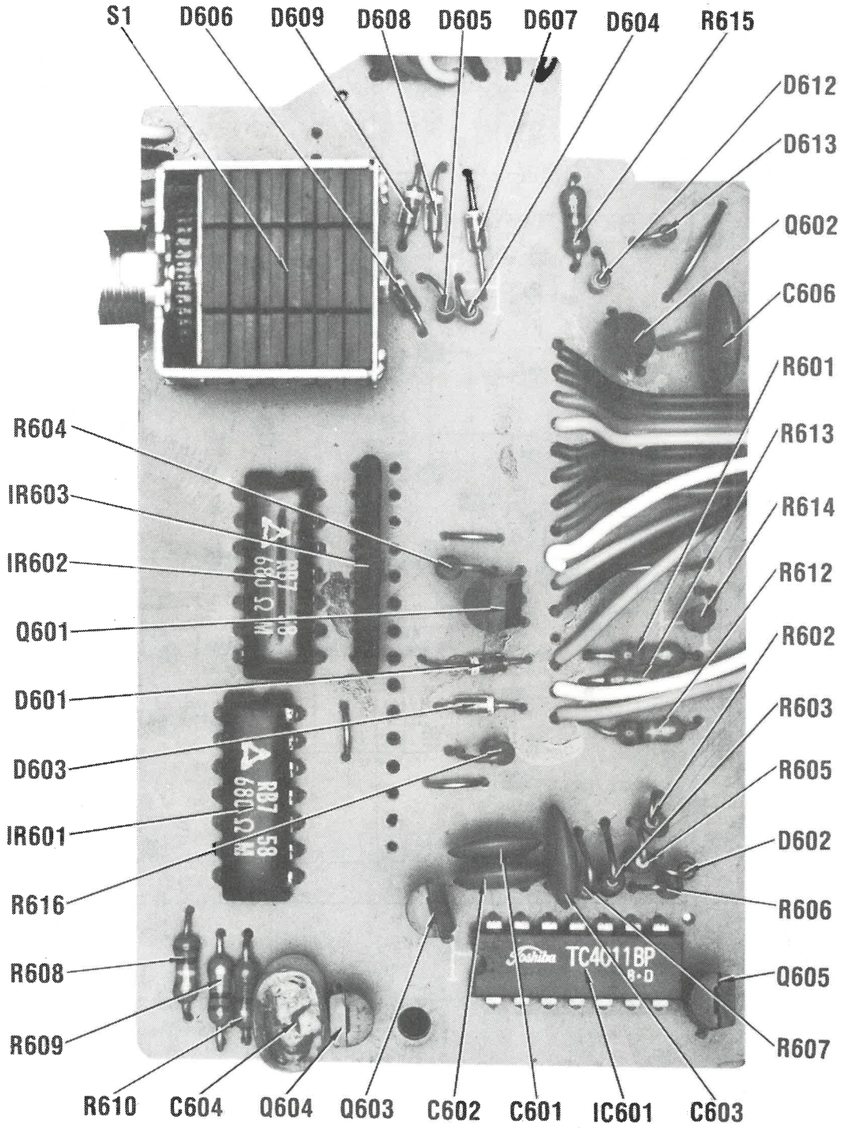
CH. SWITCH & SCAN BOARD



oward W. Sams CIRCUITRACE® Photo



ITCH & SCAN BOARD



CHANNEL SWITCH-SCAN BOARD

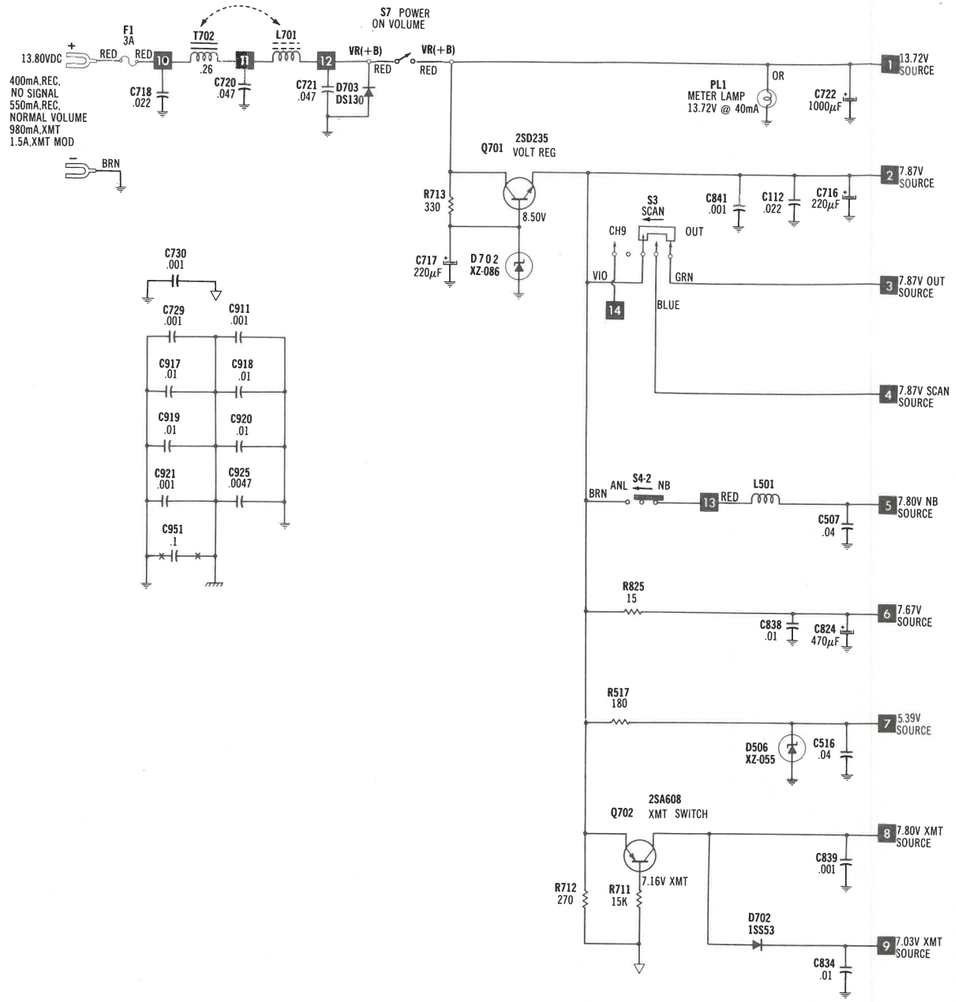
PARTS LIST AND DESCRIPTION

(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.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D101	ITT73		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D102	ITT73		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D103	ITT73		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D104	ITT73		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D105	1SV77			PTC311			ECG611	TM611		103-146
D106	ITT73		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D301	ITT73		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D302	1S188		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D501	1S188		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D502	1S188		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D503	1S1555		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D504	ITT73		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D505	ITT73		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D506	XZ-055		GEZD-5.6	ZB5.6B	REN 136	SK3057/136A	ECG136A	TM136A/**	WEP1104	103-Z9007
D507	1S1587		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D508	VD1220			PTC302			ECG605	TM605		
D510	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D511	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D513	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D601	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D602	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D603	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D604	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D605	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D606	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D607	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D608	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D609	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D612	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D613	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D614	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D615	1SS53		GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D701	DS130		GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D702	XZ-086		GEZD-8.7		REN 5073	SK3749/5073A	ECG5073A	TM5073A	WEP1155	
D703	DS130		GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D801	ITT310G		GE-90		REN 614		ECG614	TM614	WEP200	103-219
D802	1SS53		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D803	1SS53		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D804	1SS53		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D901	1SS53		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
D902	1S188		1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134	103-Z9001
D903	ITT73		GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
IC501	M51202									
IC601	TC4011		GE-4011			SK4011	ECG4011B	TM4011B		
IC701	TA7205AP		GEIC-179	PTC780	REN 1155	SK3231/1155	ECG1155	TM1155	WEP949	
	TA7205		GEIC-179	PTC780	REN 1155	SK3231/1155	ECG1155	TM1155	WEP949	
IC801	TC9106P					SK3830				
IC802	TA7320									
Q101	2SC1393		GE-62*	PTC136*	REN 123A*	SK3246/229	ECG123A*	TM123A*	WEP736*	121-Z9000A*
Q102	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q103	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q104	2SC945L		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972
Q301	2SK19Y		GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920	121-756
	2SK19		GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920	121-756
Q302	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q303	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q304	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q501	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q502	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q503	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q504	2SA608		GE-82*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159*	WEP62	121-Z9003
Q505	2SK30AY		GE-FET-1	PTC151*	REN 132*	SK3112	ECG132*	TM132*	WEP801*	121-756*
	2SK30		GE-FET-1	PTC151*	REN 132*	SK3112	ECG132*	TM132*	WEP801*	121-756*
Q506	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q507	2SA608		GE-82*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159*	WEP62	121-Z9003
Q508	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q509	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q510	2SA608		GE-82*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159*	WEP62	121-Z9003
Q511	2SK30AY		GE-FET-1	PTC151*	REN 132*	SK3112	ECG132*	TM132*	WEP801*	121-756*
	2SK30		GE-FET-1	PTC151*	REN 132*	SK3112	ECG132*	TM132*	WEP801*	121-756*
Q601	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q602	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q603	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q604	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q605	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q606	2SC536		GE-212	PTC121*	REN 199	SK3122	ECG199	TM199	WEP536	121-972
Q701	2SD325		GE-28	PTC110	REN 186	SK3197/235	ECG186	TM186/**	WEP745	121-Z9008
Q702	2SA608		GE-82*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159*	WEP62	121-Z9003
Q801	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q802	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q803	2SK19GR		GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920	121-756
	2SK19		GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920	121-756
Q804	2SC930		GE-60*	PTC132*	REN 229	SK32356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q805	2SC930		GE-60*	PTC132*	REN 229	SK3356	ECG229*	TM229*/**	WEP380	121-Z9021*
Q901	2SC1175		GE-210	PTC123*	REN 123A*	SK3444/123A	ECG123A*	TM123A*	WEP774	121-Z9000A*
	BC546		GE-210	PTC123*	REN 123A*	SK3444/123A	ECG123A*	TM123A*	WEP774	121-Z9000A*
Q902	2SC2314		GE-270	PTC180	REN 295	SK3253/295	ECG295	TM295	WEP913	121-880
	2SC2814		GE-270	PTC180	REN 295	SK3253/295	ECG295	TM295	WEP913	121-880
	2SC1957		GE-270	PTC180	REN 295	SK3253/295	ECG295	TM295	WEP913	121-880
Q903	2SC2078		GE-215	PTC186	REN 235	SK3197/235	ECG235	TM235	WEP785	121-Z9039
	2SC1909		GE-215	PTC186	REN 235	SK3197/235	ECG235	TM235	WEP785	121-Z9039

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

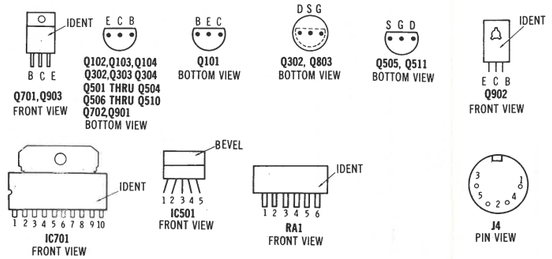


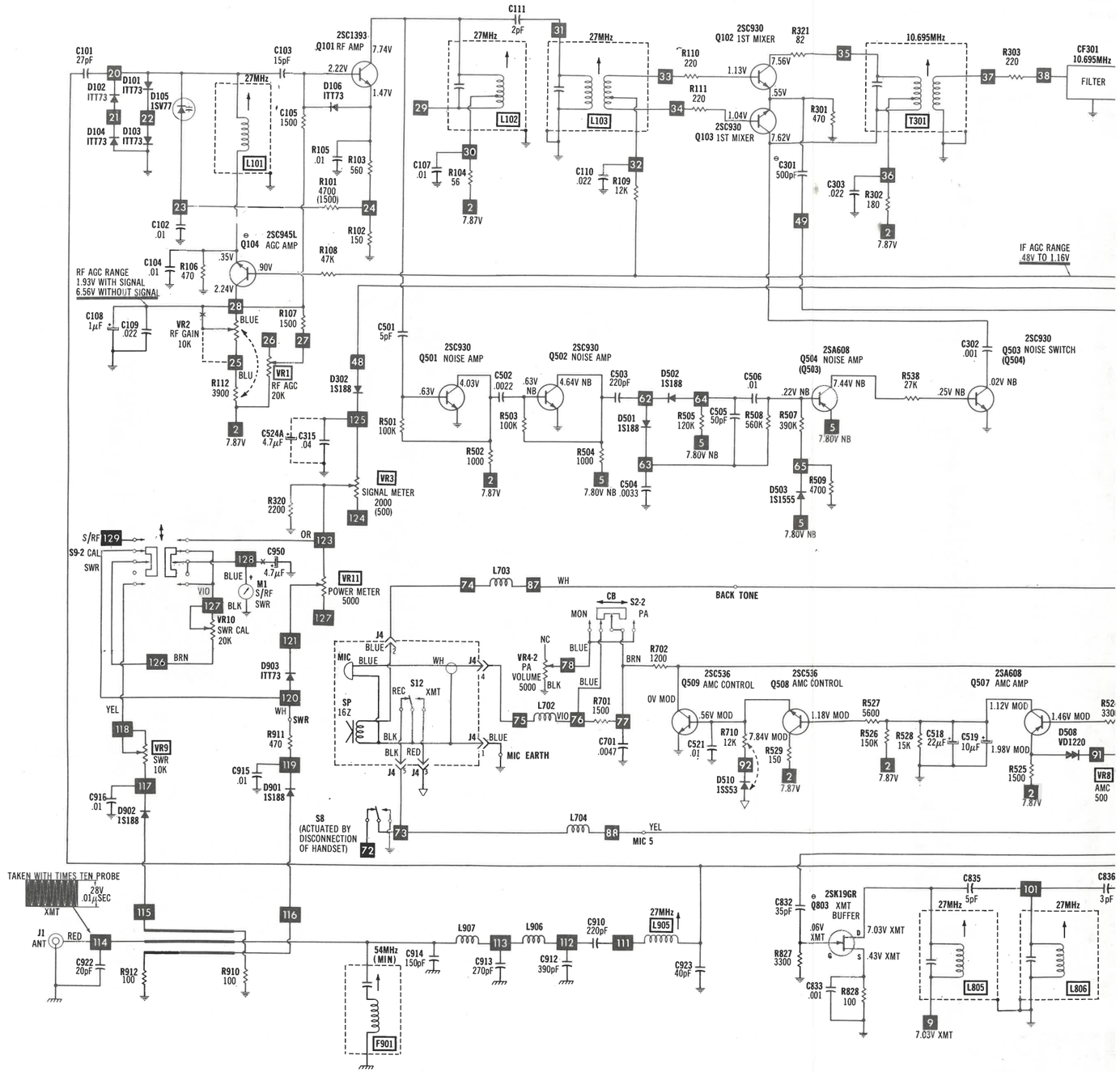
- Circuitry not used in some versions.
- Circuitry used in some versions.
- ※ Nominal value
- ⏚ Ground
- Chassis
- ⊖ See parts list
- ▽ Common tie point
- Signal path
- Voltage path

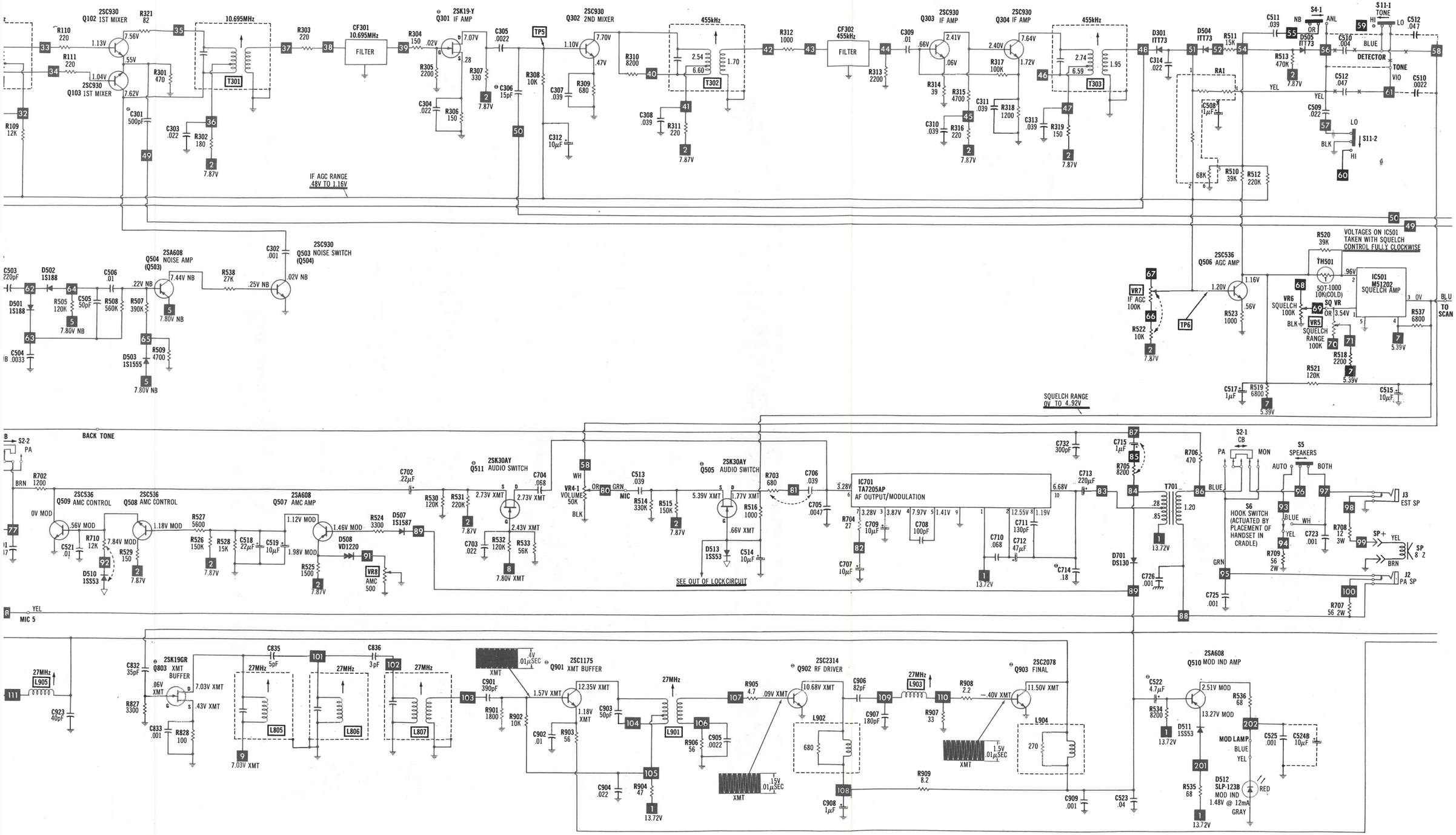
Waveforms and Voltages taken in Channel 19 with switching in receive unless noted.
Item numbers in rectangles appear in the alignment/adjustment instructions.
Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Terminal 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 PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

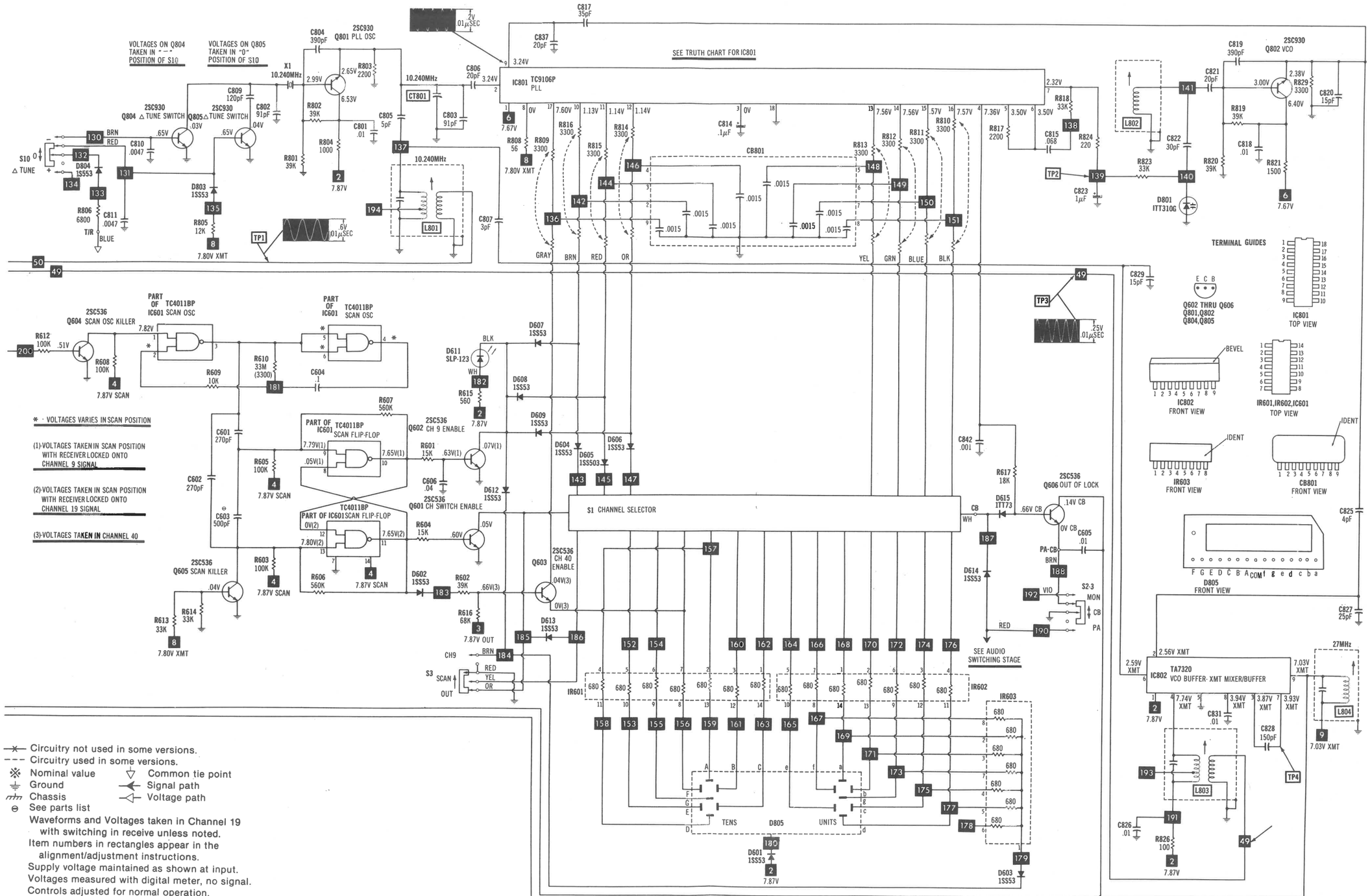
TERMINAL GUIDES







MAIN SCHEMATIC



—×— Circuitry not used in some versions.
- - - Circuitry used in some versions.
※ Nominal value
⏚ Ground
Chassis
⊖ See parts list
▽ Common tie point
Signal path
Voltage path

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 PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

PARTS LIST AI

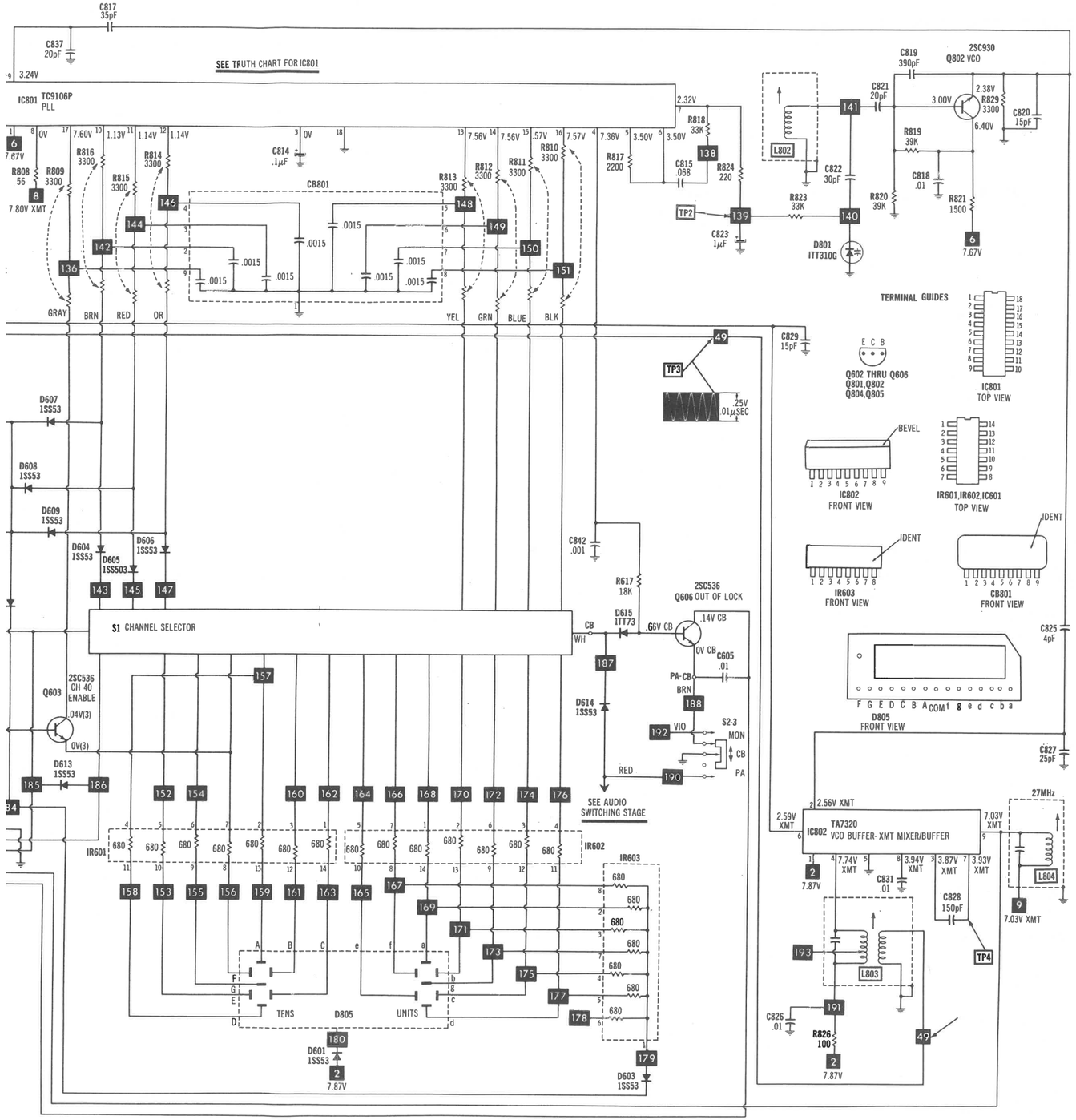
(When ordering parts, s

ELECTROLYTIC

ITEM No.	RATING
C108	1 10V
C312	10 10V
C508	1 16V
C514	10 10V
C515	10 10V
C517	1 10V
C518	22 10V
C519	10 10V
C522	4.7 16V
C524A	4.7 10V
C524B	10 16V
C702	.22 16V
C707	10 10V
C709	10 10V
C712	47 16V
C713	220 16V
C715	1 50V
C716	220 10V
C717	220 10V
C722	1000 16V
C814	.1 10V
C823	1 35V
C824	470 16V
C908	1 50V

CAPACITORS

ITEM No.	RATING
C101	27 N220 50V 10
C102	.01 50V
C103	15 N220 50V
C104	.01 50V
C105	.01 50V
	.0015 50V
C107	.01 50V
C109	.022 50V
C110	.022 50V
C111	2 N220 50V
C112	.022 50V
C301	500 50V
C302	.001 50V
C303	.022 50V
C304	.022 50V
C305	.0022 50V
C306	15 50V
C307	.039 50V
C308	.039 50V
C309	.01 50V
C310	.039 50V
C311	.039 50V
C313	.039 50V
C314	.022 50V
C315	.04 50V
C501	5 50V
C502	.0022 50V
C503	220 50V
C504	.0033 50V
C505	50 50V
C506	.01 50V
C507	.04 50V
C509	.022 50V
C510	.004 50V
	.0022 50V



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
C108	1 10V		PC1-50	VTT1A50	QV1-11	EV-1615
C312	10 10V		PC10-25	VTT10B25	QV1-41	EV-1222
C508	1 16V		PC1-50	VTT1A50	QV1-11	EV-1615
C514	10 10V		PC10-25	VTT10B25	QV1-41	EV-1222
C515	10 10V		PC10-25	VTT10B25	QV1-41	EV-1222
C517	1 10V		PC1-50	VTT1A50	QV1-11	EV-1615
C518	22 10V		PC25-25	VTT22B16	QV1-55	EV-1224
C519	10 10V			TDC106M025FL	QDT1-64	SD25-109
C522	4.7 16V		PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C524A	4.7 10V		PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C524B	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C702	.22 16V			TDC224M050EL	QDT1-10	SD50-R229
C707	10 10V			TDC106M025FL	QDT1-64	SD25-109
C709	10 10V			TDC106M025FL	QDT1-64	SD25-109
C712	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C713	220 16V		PC250-25	VTT220K16	QV1-117	EV-1240
C715	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C716	220 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C717	220 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C722	1000 16V		PC1000-16	VTT1000L16	QV1-183	EV-1261
C814	.1 10V			TDC104M050EL	QDT1-2	SD50-P109
C823	1 35V			TDC106M035EL		SD35-19
C824	470 16V		PC500-16	VTT470K16	QV1-151	EV-1251
C908	1 50V			TDC105M050EL	QDT1-25	SD50-19

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
C101	27 N220 50V 10%				*		10TCR-Q27
C102	.01 50V		UK50-103		MAG5011		
C103	15 N220 50V				*		10TCR-Q15
C104	.01 50V		UK50-103		MAG5011		
C105	.01 50V		UK50-103		MAG5011		
	.0015 50V		DD-152		GP215		10TS-D15
C107	.01 50V		UK50-103		MAG5011		
C109	.022 50V				M192P2239R8		192P2239R8
C110	.022 50V				M192P2239R8		192P2239R8
C111	2 N220 50V				*		10TCR-V30
C112	.022 50V				M192P2239R8		192P2239R8
C301	500 50V		DD-501	GP500	GP350		10TS-T50
C302	.001 50V		DD-102		GP210		10TS-D10
C303	.022 50V				M192P2239R8		192P2239R8
C304	.022 50V				M192P2239R8		192P2239R8
C305	.0022 50V				GP222		10TS-D22
C306	15 50V		DTZ-15	NP015	CN0415		10TCC-Q15
C307	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C308	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C309	.01 50V		UK50-103		MAG5011		
C310	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C311	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C313	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C314	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C315	.04 50V				GP140		5GA-S40
C501	5 50V				GP550		10TCM-V50
C502	.0022 50V				GP222		10TS-D22
C503	220 50V		DD-221		GP322		10TS-T22
C504	.0033 50V		DD-332	GP3300	GP233	QC2-107	5GA-D33
C505	50 50V		DTZ-50	NP050	CN0450		10TCC-Q50
C506	.01 50V		UK50-103		MAG5011		
C507	.04 50V				GP140		5GA-S40
C509	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C510	.004 50V						
	.0022 50V			DPMS6D22	M192P2229R8	QFT2-27	1FT-S22

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	SPRAGUE PART No. GENERAL LINE
C511	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C512	.047 50V			DPMS2S47	M192P4739R8	QFT2-171	1FT-S47
C513	.039 50V			DPMS6S39	M192P3939R8		
C516	.04 50V				GP140		5GA-S40
C521	.01 50V		UK50-103		MAG5011		
C523	.04 50V				GP140		5GA-S40
C525	.001 50V		DD-102		GP210		10TS-D10
C601	270 50V		DTZ-270				10TCC-T27
C602	270 50V		DTZ-270				10TCC-T27
C603	500 50V		DD-501	GP500	GP350		10TS-T50
C604	.1 50V		CK-104		MAG5001		
C605	.01 50V		UK50-103		MAG5011		
C606	.04 50V				GP140		5GA-S40
C701	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C703	.022 50V			DPMS2S22	M192P2239R8	QFT2-157	1FT-S22
C704	.068 50V			WMF1S68	EWF1A168	QF1-195	1PB-S68
C705	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C706	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C708	100 50V		DTZ-100	NP0100	CN0310		10TCC-T10
C710	.068 50V			WMF1S68	EWF1A168	QF1-195	1PB-S68
C711	130 50V		DTZ-150		CN0315		10TCC-T15
C714	.18 50V 5%			WMF05P18			192P1849R8
C718	.022 50V				M192P2239R8		192P2239R8
C720	.047 50V			DPMS2S47	EWF1A147	QF1-171	1PB-S47
C721	.047 50V			DPMS2S47	EWF1A147	QF1-171	1PB-S47
C723	.001 50V		DD-102		GP210		10TS-D10
C725	.001 50V		DD-102		GP210		10TS-D10
C726	.001 50V		DD-102		GP210		10TS-D10
C729	.001 50V		DD-102		GP210		10TS-D10
C730	.001 50V		DD-102		GP210		10TS-D10
C732	300 50V		DD-301	GP300	GP330		10TS-T30
C801	.01 50V		UK50-103		MAG5011		
C802	91 50V		DTZ-100	NP0100	CN0310		10TCC-T10
C803	91 50V		DTZ-100	NP0100	CN0310		10TCC-T10
C804	390 50V		DD-391	GP390	GP339		10TS-T39
C805	5 50V				GP550		10TCM-V50
C806	20 50V		DTZ-20	NP020	CN0420		10TCC-Q20
C807	3 50V		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C809	120 50V		DTZ-120		CN0312		10TCC-T12
C810	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C811	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C815	.068 50V			WMF1S68	EWF1A168	QF1-195	1PB-S68
C817	35 50V				CN0439		10TCC-Q39
C818	.01 50V		UK50-103		MAG5011		
C819	390 50V		DD-391	GP390	GP339		10TS-T39
C820	15 N220 50V				*		10TCR-Q15
C821	20 N220 50V				*		10TCR-Q20
C822	30 N220 50V				*		10TCR-Q30
C825	4 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C826	.01 50V		UK50-103		MAG5011		
C827	25 50V		DTZ-25	NP025	CN0425		10TCC-Q25
C828	150 50V		DTZ-150		CN0315		10TCC-T15
C829	15 50V		DTZ-15	NP015	CN0415		10TCC-Q15
C831	.01 50V		UK50-103		MAG5011		
C832	35 50V				CN0439		10TCC-Q39
C833	.001 50V		DD-102		GP210		10TS-D10
C834	.01 50V		UK50-103		MAG5011		
C835	5 50V				GP550		10TCM-V50
C836	3 50V		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C837	20 50V		DTZ-20	NP020	CN0420		10TCC-Q20
C838	.01 50V		UK50-103		MAG5011		
C839	.001 50V		DD-102		GP210		10TS-D10
C841	.001 50V		DD-102		GP210		10TS-D10
C842	.001 50V		DD-102		GP210		10TS-D10
C901	390 50V			CD15FD391J03	SX339	QW1-41	MWA-391
C902	.01 50V		UK50-103		MAG5011		
C903	50 50V		DTZ-50	NP050	CN0450		10TCC-Q50
C904	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C905	.0022 50V				GP222		10TS-D22
C906	82 50V		DTZ-82	NP082	CN0482		10TCC-Q82
C907	180 50V		DTZ-180				10TCC-T18
C909	.001 50V		DD-102		GP210		10TS-D10
C910	220 50V		DTZ-220				10TCC-T22
C911	.001 50V		DD-102		GP210		10TS-D10
C912	390 50V		DD-391	GP390	GP339		10TS-T39
C913	270 50V		DD-271	GP270	GP327		10TS-T27
C914	150 50V		DTZ-150		CN0315		10TCC-T15
C915	.01 50V		UK50-103		MAG5011		
C916	.01 50V		UK50-103		MAG5011		
C917	.01 50V		UK50-103		MAG5011		
C918	.01 50V		UK50-103		MAG5011		
C919	.01 50V		UK50-103		MAG5011		
C920	.01 50V		UK50-103		MAG5011		
C921	.001 50V		DD-102		GP210		10TS-D10
C922	20 50V		DTZ-20	NP020	CN0420		10TCC-Q20
C923	40 50V		DTZ-47	NP047	CN0447		10TCC-Q47
C925	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C951	.1 50V		CK-104		MAG5001		

* 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			
			MFGR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR1	RF AGC	20K				U260R253B
VR2	RF Gain	10K				
VR3	Signal Meter	2000				U260R252B
	Signal Meter	500				
VR4-1	Volume	50K				
VR4-2	PA Volume/Power Switch	5000				U260R104B
VR5	Squelch Range	100K				
VR6	Squelch	100K				U260R104B
VR7	IF AGC	100K				U260R501B
VR8	AMC	500				U260R103B
VR9	SWR	10K				
VR10	SWR CAL	20K				U260R502B
VR11	TX Power Meter	5000				

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.
TH501	Thermistor SDT-1000 10K (Cold)		

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
F901	TVI Trap (54MHz)		R91948L		
L101	Rec Antenna (27MHz)		9R90840		
L102	Rec RF (27MHz)		9R90940		
L103	Rec RF (27MHz)		9R91040		
L501	RF Choke				
L701	Filter				
L702	RF Choke (3.3MHz)				
L703	RF Choke				
L704	RF Choke				
L801	PLL-Osc (10.240MHz)		9R91140		
L802	VCO		9R91240		
L803	Mixer Buffer		9R91340		
L804	VCO Buffer (27MHz)		9R90940		
L805	Buffer (27MHz)		9R91440		
L806	Buffer (27MHz)		9R91440		
L807	Buffer (27MHz)				
L901	Buffer (27MHz)				
L902	RF Choke				
L903	Driver (27MHz)				
L904	RF Choke				
L905	Final				
L906	Pi Filter				
L907	Antenna Matching				
T301	1st Mixer (10.695MHz)		6R761		
T302	IF (455kHz)				
T303	IF (455kHz)		6R76640		

FILTER CH

ITEM No.	CURRENT (Measured)
T702	1.5A

TRANSFOR

ITEM No.	IMPED/ PRI.
T701	26

SPEAKER

ITEM No.	
SP	3" PM 8

FUSE DEVIC

ITEM No.	DESCI
F1	3A Quick-ac

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR1	RF AGC	20K				U260R253B
VR2	RF Gain	10K				
VR3	Signal Meter	2000				U260R252B
	Signal Meter	500				
VR4-1	Volume	50K				
VR4-2	PA Volume/Power Switch	5000				
VR5	Squelch Range	100K				U260R104B
VR6	Squelch	100K				
VR7	IF AGC	100K				U260R104B
VR8	AMC	500				U260R501B
VR9	SWR	10K				U260R103B
VR10	SWR CAL	20K				
VR11	TX Power Meter	5000				U260R502B

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.
TH501	Thermistor SDT-1000 10K (Cold)		

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
F901	TVI Trap (54MHz)		R91948L		
L101	Rec Antenna (27MHz)		9R90840		
L102	Rec RF (27MHz)		9R90940		
L103	Rec RF (27MHz)		9R91040		
L501	RF Choke				
L701	Filter				
L702	RF Choke (3.3MHz)				
L703	RF Choke				
L704	RF Choke				
L801	PLL-Osc (10.240MHz)		9R91140		
L802	VCO		9R91240		
L803	Mixer Buffer		9R91340		
L804	VCO Buffer (27MHz)		9R90940		
L805	Buffer (27MHz)		9R91440		
L806	Buffer (27MHz)		9R91440		
L807	Buffer (27MHz)				
L901	Buffer (27MHz)				
L902	RF Choke				
L903	Driver (27MHz)				
L904	RF Choke				
L905	Final				
L906	Pi Filter				
L907	Antenna Matching				
T301	1st Mixer (10.695MHz)		6R761		
T302	IF (455kHz)				
T303	IF (455kHz)		6R76640		

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.	
T702	1.5A	.26	1.1mH	R810 (1)	TR574		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	26	1 2 8 2.4	4R815 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3" PM 8 Ohms		30A05Z8R	

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	3A Quick-acting			AGC-3	HRK	312003	150145	FG3-2

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					18-105						

Microphone is telephone handset type.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF301	Filter		10.695MHz
CF302	Filter		455kHz
D512	LED		SLP-123B (1.48V @ 12mA)
D611	LED		SLP-123 (1.8V @ 11mA)
D805	LED		Channel Display (11mA @ 2.00V per segment)
J1	Jack		Antenna
J2	Jack		PA Speaker
J3	Jack		External Speaker
M1	Meter		S-RF
PL1	Meter Lamp		13.72V @ 40mA
S1	Switch		Channel Selector
S2	Switch		CB-Mon-PA
S3	Switch		Ch. 9-SCAN-Out
S4	Switch		ANL-NB
S5	Switch		Speaker
S7	Switch		Power, On Volume (Part of VR4)
S8	Switch		Handset Switch
S9	Switch		SIRF/SWR
S10	Switch		Tone
X1	Crystal		10.240MHz

WIRING DATA

Cable (Speaker)(Unshielded).....	Use BELDEN No. 8782 (AWG24)(4 colors)
Shielding Strap.....	Use BELDEN No. 8660 (3/16" width)
Hook-up Wire (General Use).....	Use BELDEN No. 8524 (AWG22)(13 colors)
Hook-up Wire (Shielded).....	Use BELDEN No. 8401 (Braided Shield)(1 conductor)(AWG25)
	Use BELDEN No. 8421 (Spiral Shield)(1 conductor)(AWG25)
	Use BELDEN No. 8737 (Spiral Shield)(2 conductor)(AWG22)
Microphone Cable (Coiled).....	Use BELDEN No. 9467 (5 conductor-1 shielded)(6 ft.)(AWG28)

INDEX

Listing all models/chassis covered in
PHOTOFACT CB (Citizens Band) Series volumes