

# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

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 Stalker V

### MANUFACTURER'S SPECIFICATIONS

#### GENERAL

Channels	40
Frequency Range	26.965 MHz to 27.405 MHz
Frequency Control	PLL Synthesized
Antenna Impedance	50 ohm
Power Input	13.8V DC
Accessories	DC Power Cord, Detachable Dynamic Microphone, Microphone Hanger, Mounting Bracket
Size	7-3/8"(W) x 8-3/4"(D) x 2-1/4"(H)
Weight	3 pounds, 14 ounces

#### TRANSMITTER

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

#### RECEIVER

Sensitivity at 10 dB S + N/N	0.5 $\mu$ V
Sensitivity for 500 mW Audio Output	0.5 $\mu$ V
Squelch Threshold	0.5 $\mu$ V
Squelch Deepest Point	1000 $\mu$ V
"S" Meter S-9	100 $\mu$ V
Maximum AF Output Power	4 watts
AF Output Power/10% Distortion	3 watts
Selectivity BW @ 6 dB Down	-60 dB
Image Rejection	-80 dB
Speaker Impedance	8 ohms

TEABERRY MODEL Stalker V

Courtesy of the Manufacturer

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

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## ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Adjustments made with 13.8-volt DC input. Connect low sides of test equipment to ground unless specified otherwise. Connect 50-ohm dummy load or antenna before keying transmitter. Connect microphone.

Suggested Alignment Tools: GC ELECTRONICS:  
 L1 thru L6, L17 thru L24.....9440  
 L7, L8, L9.....5009, 8728, 8728-A  
 L11, L14, L16.....9091, 8728, 8728-A

## SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope to TP10 (L23, Secondary).	Ch. 19 Delta Tune Detent	L23	Adjust for maximum. (500mV typical). (See Figure 1.)
Input of frequency counter to TP10 (L23, Secondary).	Ch. 19 Delta Tune Detent	L24	Adjust for 10.240MHz.
Input of DC meter to TP2. (Junction of R88 and R89).	Ch. 1	L19	Adjust for 1.25 volts.
	Ch. 1, XMT		Check for 2.10 volts.
Input of oscilloscope to TP11 (IC2, Pin 4).	Ch. 1 Delta Tune Detent	L22	Adjust for maximum. (320mV typical). (See Figure 2.)
Input of oscilloscope to TP5. (L18 Secondary).	Ch. 19 Delta Tune Detent	L18	Adjust for maximum. (460mV typical). (See Figure 3.)
Input of frequency counter to TP5 (L18 Secondary).	Ch. 1 Delta Tune Detent		Check for 16.270MHz. Check all channels. (See Truth Chart for correct frequencies.)
	Ch. 1, XMT		Check for 16.725MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP3 (IC1, Pin 22).	Ch. 1 Delta Tune Detent		Check for .910MHz. Check all channels. (See Truth Chart for correct frequencies.)
	Ch. 1, XMT		Check for 1.365MHz. 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 control as follows unless otherwise noted: NB/ANL Off, Squelch MINIMUM, RF Gain Maximum, Delta Tune Detent.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP12 (FET2, Gate). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	L9,L8,L7	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	L6,L5,L4, L3,L2	Adjust for maximum output. If necessary, readjust L7, L8 and L9.
Inject a 100pps, 1uSec. pulse width signal at antenna jack.	Ch. 19 NB/ANL On	L1	Adjust for MINIMUM noise from speaker.

## RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.  
Adjust volume control to obtain a suitable indication.  
Preset control as follows unless otherwise noted: NB/ANL Off, Squelch MINIMUM, RF Gain Maximum, Delta Tune Detent.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output .4uV.	Ch. 19 Volume Maximum	VR1	IF GAIN Adjust for 2 volts audio.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 Squelch Maximum	VR3	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19	VR2	S METER Adjust for 9 on S 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	L21, L20, L17, L16, L14	Adjust for maximum.
Input of RF wattmeter to antenna input.	Ch. 19	L14	Adjust for 4 watts maximum.
Input of spectrum analyzer or harmonic meter to antenna jack.	Ch. 19	L11	Adjust for MINIMUM at 54MHz.

## 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 or modulation meter to antenna jack. Inject a 1000Hz, 30mV signal at mic input.	Ch. 19 Mic Gain Maximum	VR4	AMC Adjust for 100% modulation maximum. (See Figure 4.)
Input of RF wattmeter to antenna jack.	Ch. 19	VR5	RF METER Adjust so RF meter reads just below to red on the RF scale of meter.

TEABERRY MODEL Stalker V

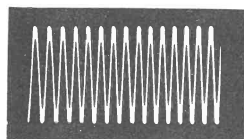


FIGURE 1

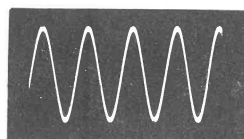


FIGURE 2

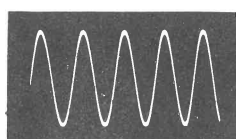


FIGURE 3

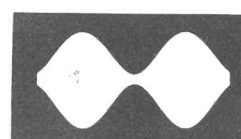
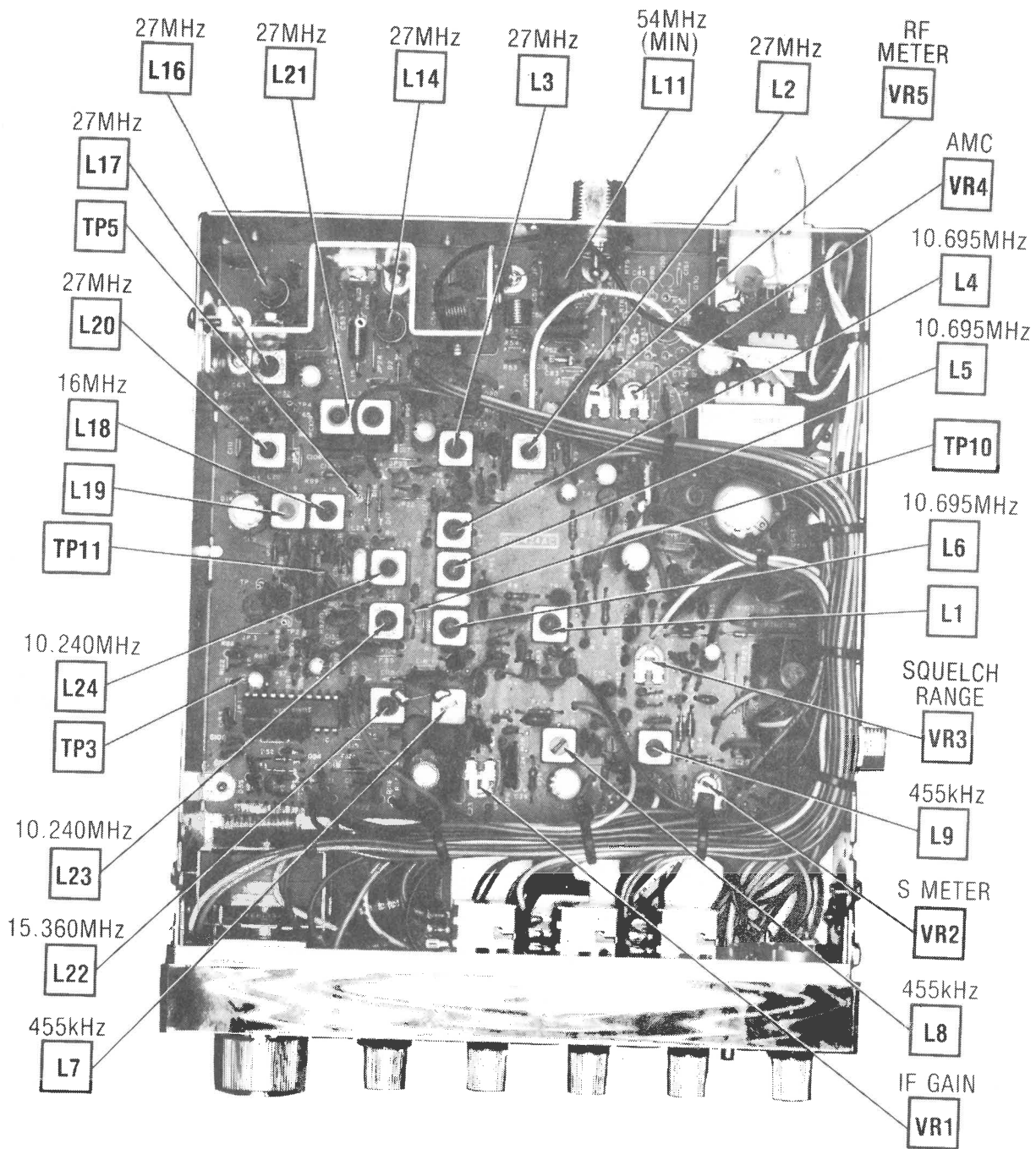


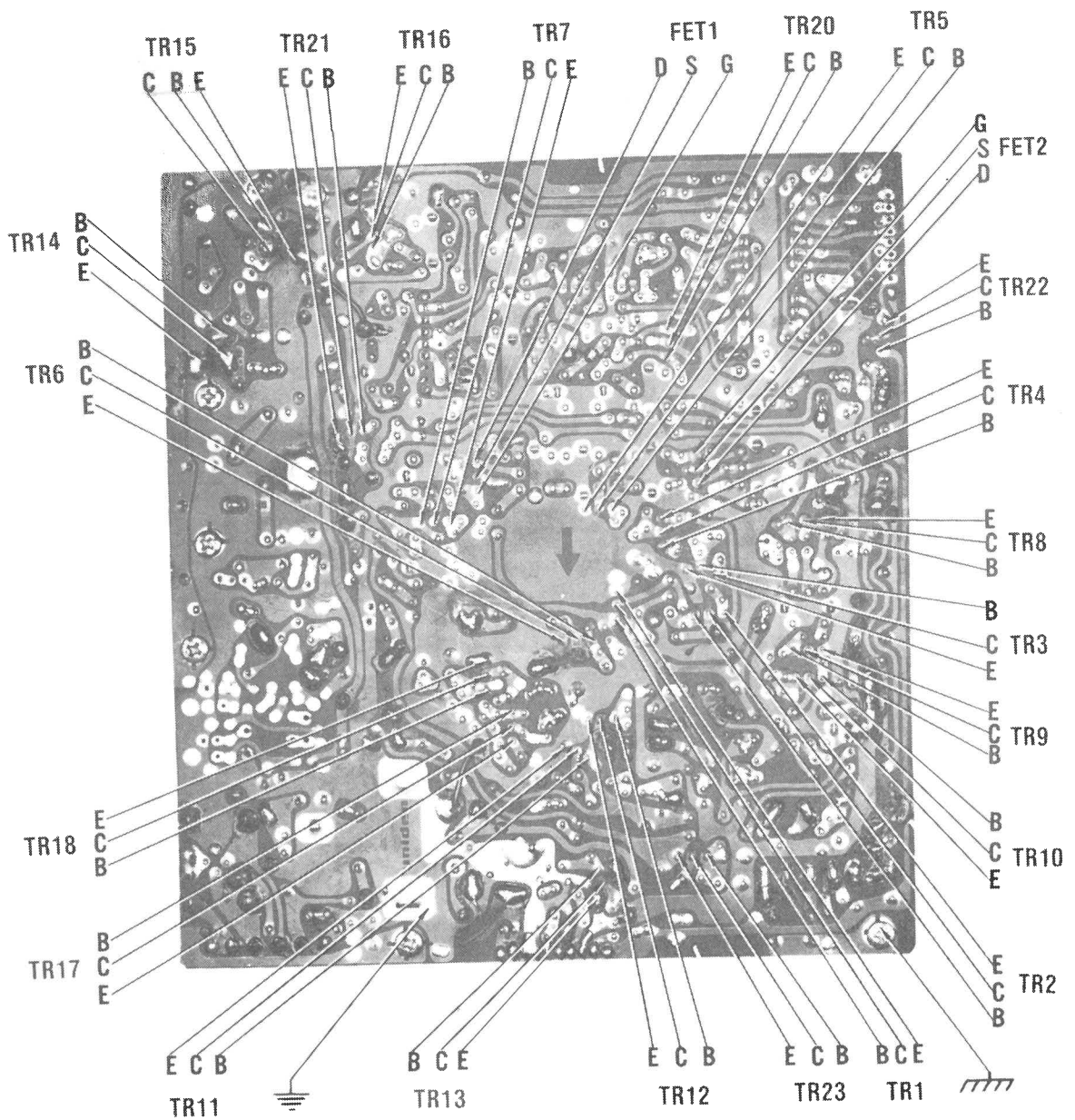
FIGURE 4

**TRUTH CHART**

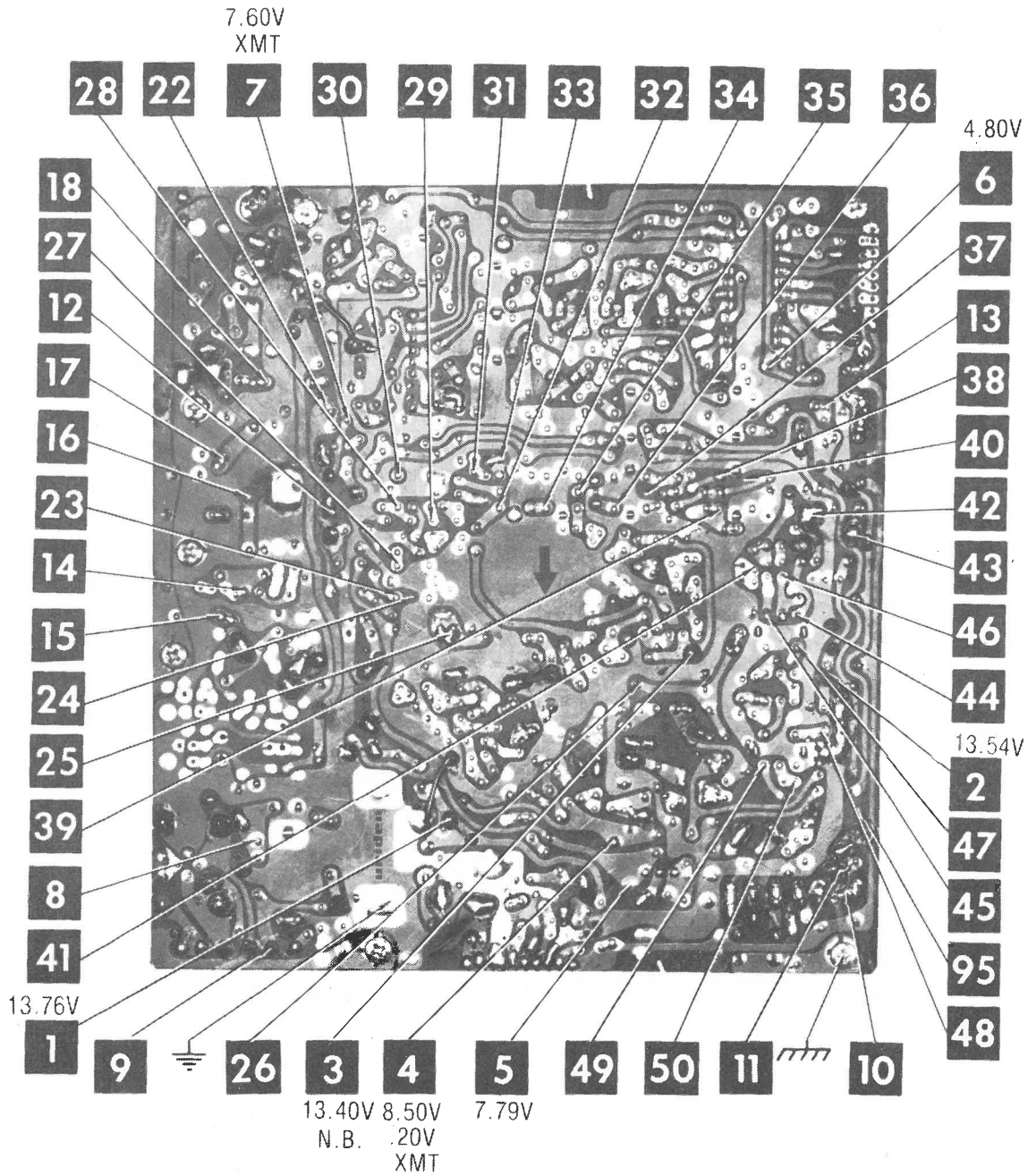
C H A N N E L	1 = 4.78 Volts                      0 = 0 Volts							REC SYNTHESIZER OUTPUT IN MHz AT TP5.	REC DIVIDER INPUT IN MHz AT TP3.	XMT SYNTHESIZER OUTPUT IN MHz AT TP5.	XMT DIVIDER INPUT IN MHz AT TP3.
	IC1 PROGRAM DIVIDER										
	PINS										
6	5	4	3	2	1						
1	0	0	0	0	0	1		16.270	.910	16.725	1.365
2	0	0	0	0	1	0		16.280	.920	16.735	1.375
3	0	0	0	0	1	1		16.290	.930	16.745	1.385
4	0	0	0	1	0	0		16.310	.950	16.765	1.405
5	0	0	0	1	0	1		16.320	.960	16.775	1.415
6	0	0	0	1	1	0		16.330	.970	16.785	1.425
7	0	0	0	1	1	1		16.340	.980	16.795	1.435
8	0	0	1	0	0	0		16.360	1.000	16.815	1.455
9	0	0	1	0	0	1		16.370	1.010	16.825	1.465
10	0	1	0	0	0	0		16.380	1.020	16.835	1.475
11	0	1	0	0	0	1		16.390	1.030	16.845	1.485
12	0	1	0	0	1	0		16.410	1.050	16.865	1.505
13	0	1	0	0	1	1		16.420	1.060	16.875	1.515
14	0	1	0	1	0	0		16.430	1.070	16.885	1.525
15	0	1	0	1	0	1		16.440	1.080	16.895	1.535
16	0	1	0	1	1	0		16.460	1.100	16.915	1.555
17	0	1	0	1	1	1		16.470	1.110	16.925	1.565
18	0	1	1	0	0	0		16.480	1.120	16.935	1.575
19	0	1	1	0	0	1		16.490	1.130	16.945	1.585
20	1	0	0	0	0	0		16.510	1.150	16.965	1.605
21	1	0	0	0	0	1		16.520	1.160	16.975	1.615
22	1	0	0	0	1	0		16.530	1.170	16.985	1.625
23	1	0	0	0	1	1		16.560	1.200	17.015	1.655
24	1	0	0	1	0	0		16.540	1.180	16.995	1.635
25	1	0	0	1	0	1		16.550	1.190	17.005	1.645
26	1	0	0	1	1	0		16.570	1.210	17.025	1.665
27	1	0	0	1	1	1		16.580	1.220	17.035	1.675
28	1	0	1	0	0	0		16.590	1.230	17.045	1.685
29	1	0	1	0	0	1		16.600	1.240	17.055	1.695
30	1	1	0	0	0	0		16.610	1.250	17.065	1.705
31	1	1	0	0	0	1		16.620	1.260	17.075	1.715
32	1	1	0	0	1	0		16.630	1.270	17.085	1.725
33	1	1	0	0	1	1		16.640	1.280	17.095	1.735
34	1	1	0	1	0	0		16.650	1.290	17.105	1.745
35	1	1	0	1	0	1		16.660	1.300	17.115	1.755
36	1	1	0	1	1	0		16.670	1.310	17.125	1.765
37	1	1	0	1	1	1		16.680	1.320	17.135	1.775
38	1	1	1	0	0	0		16.690	1.330	17.145	1.785
39	1	1	1	0	0	1		16.700	1.340	17.155	1.795
40	0	0	0	0	0	0		16.710	1.350	17.165	1.805



CHASSIS-BOTTOM

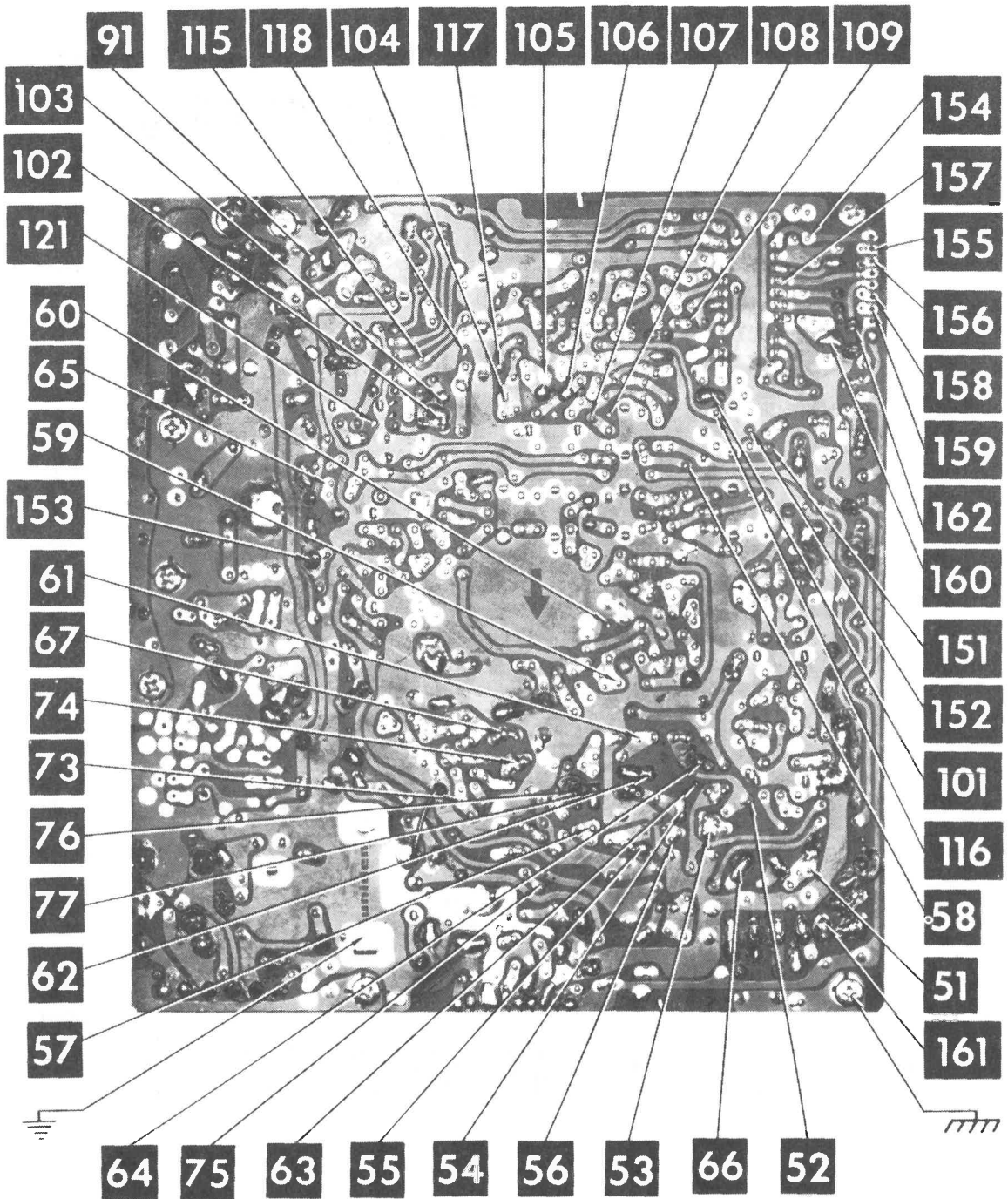


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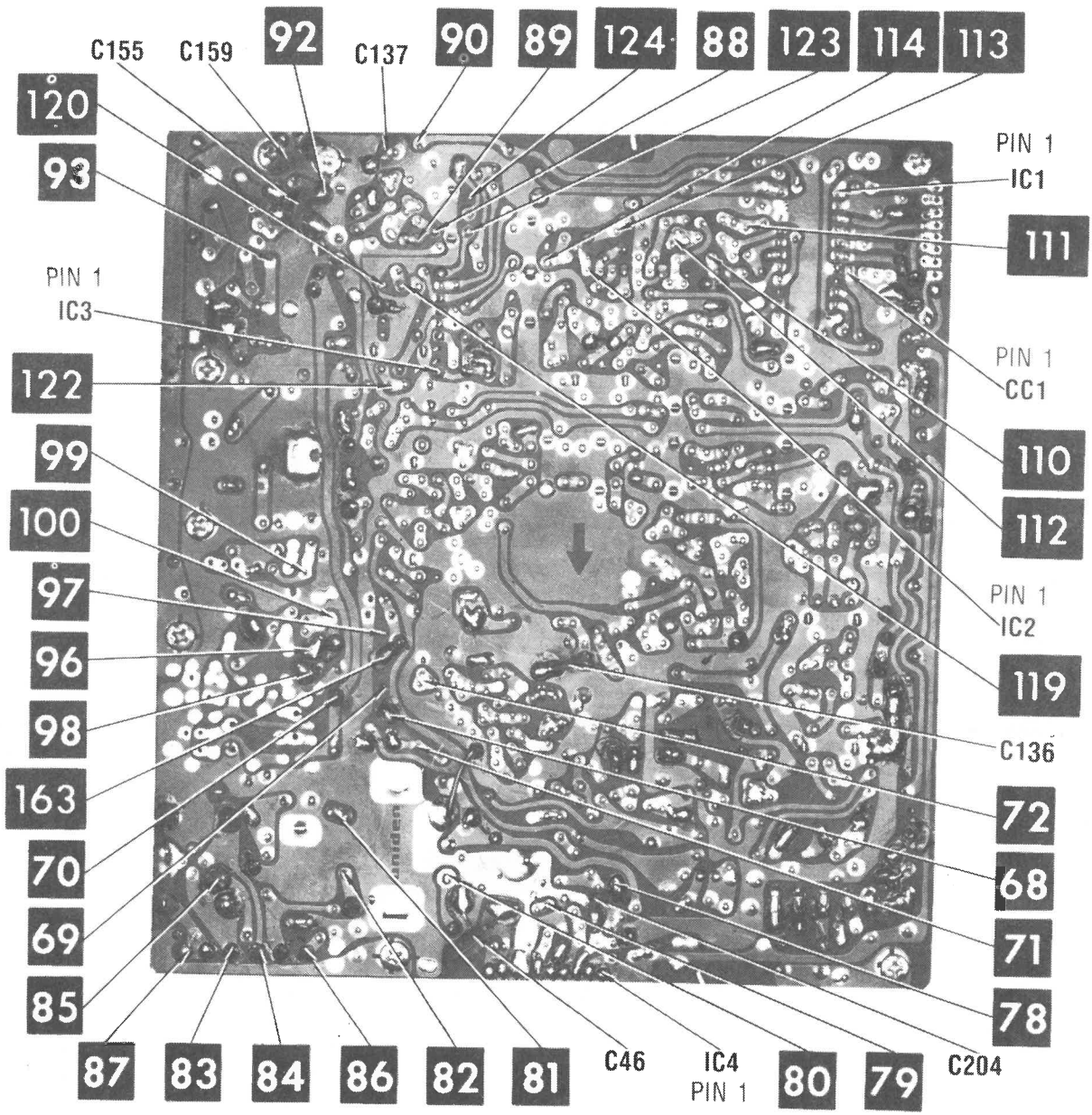


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MAIN BOARD

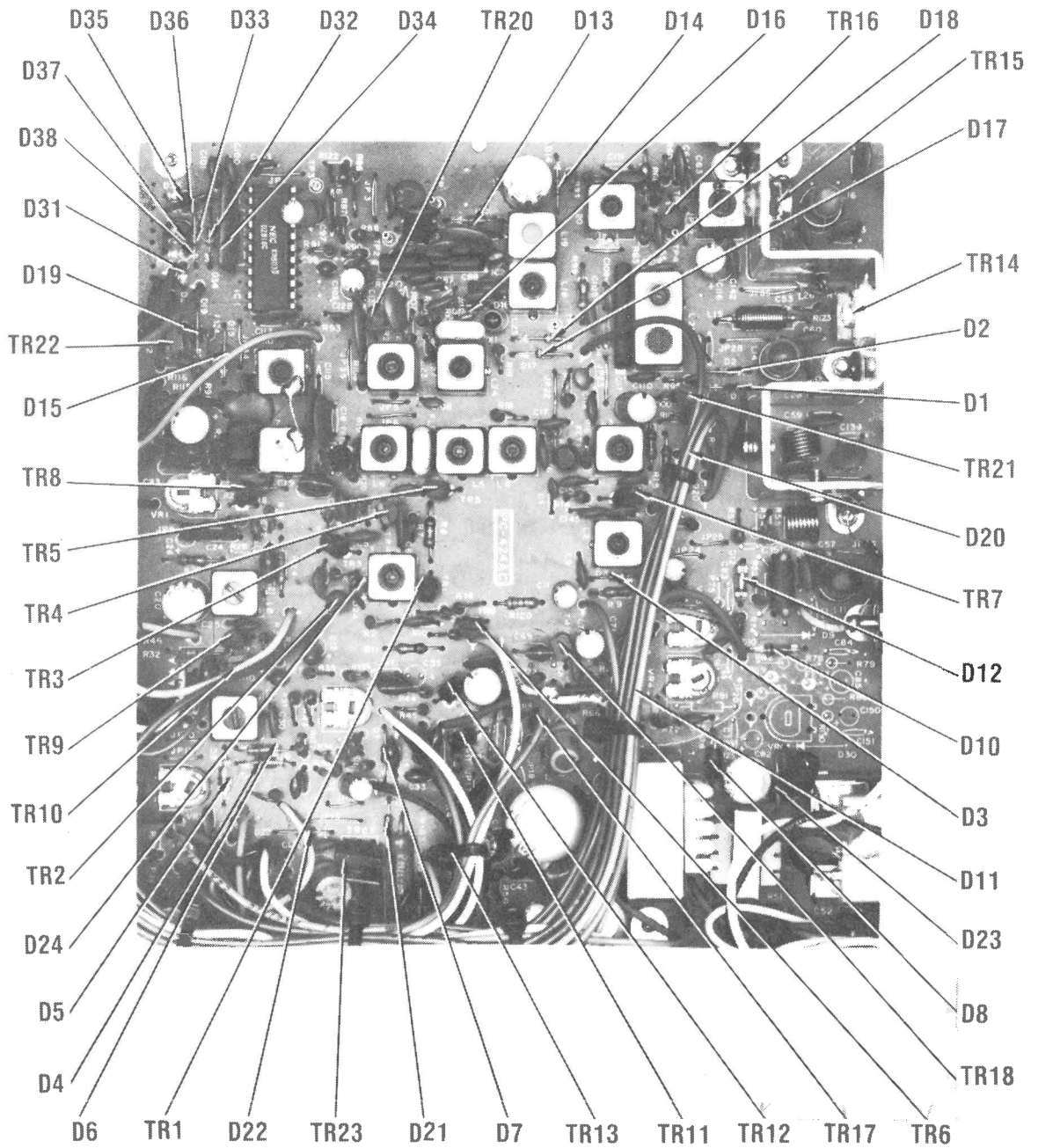


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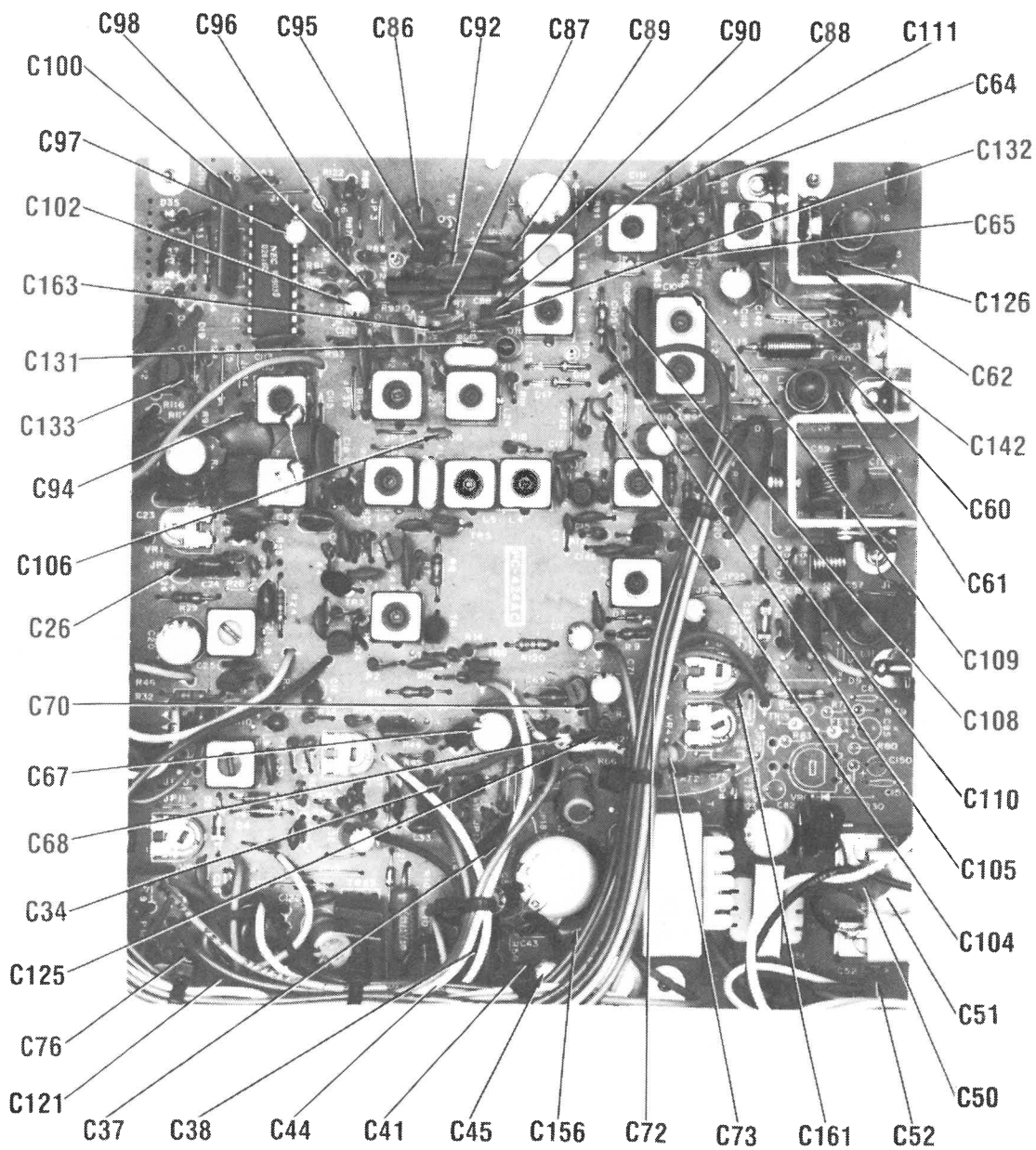


TEABERRY MODEL Stalker V

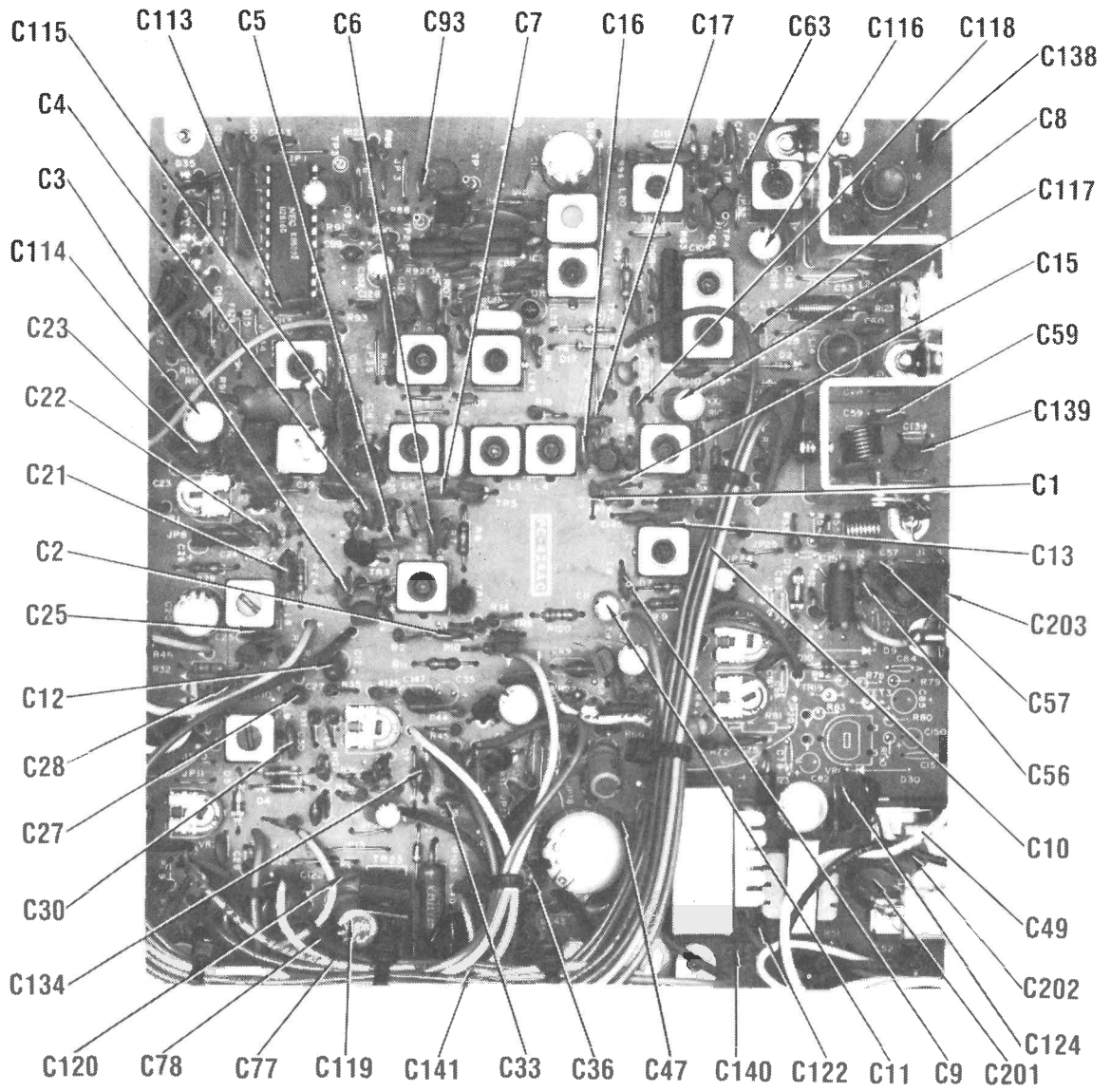
MAIN BOARD



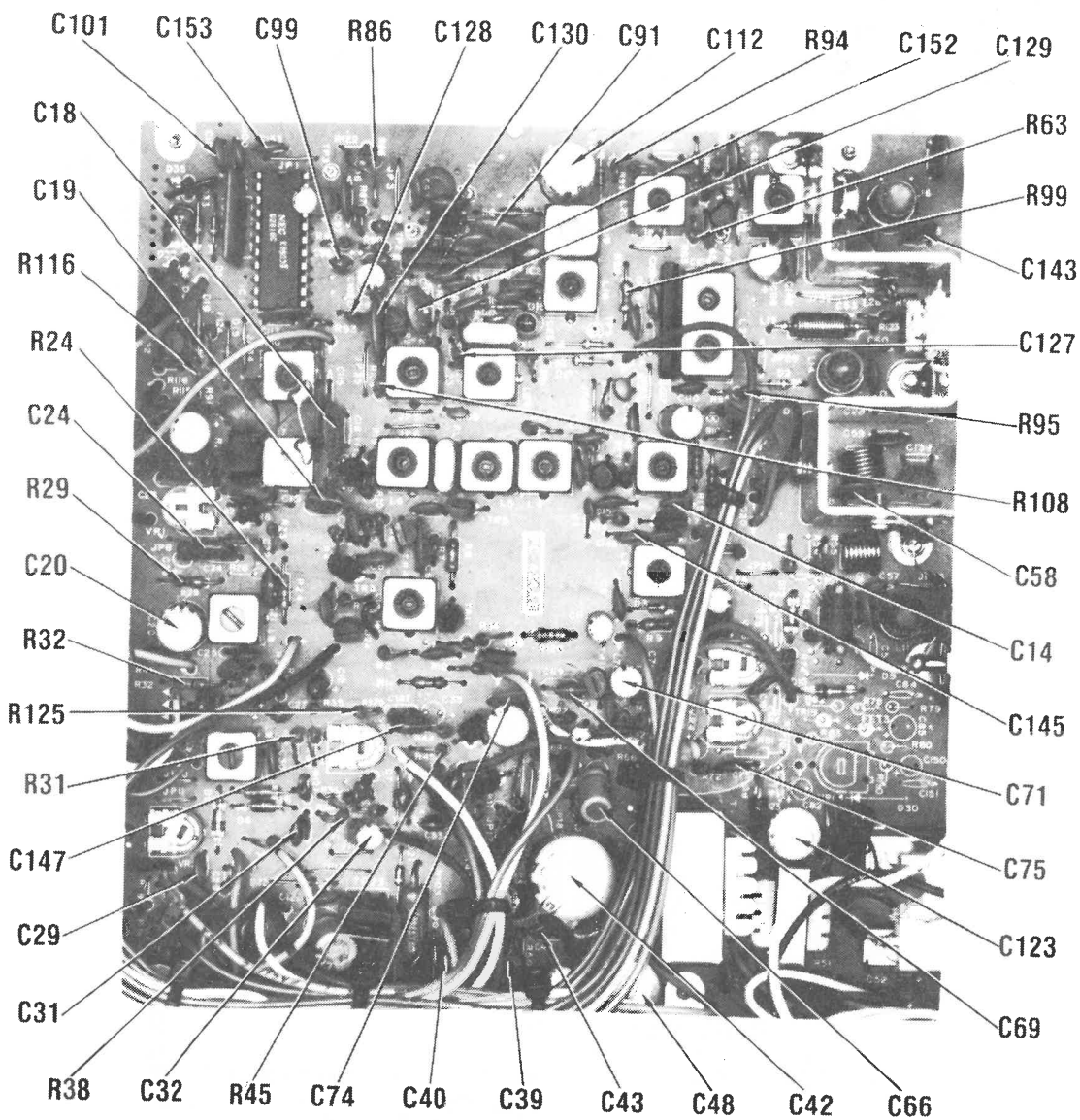
MAIN BOARD



MA IN BOARD

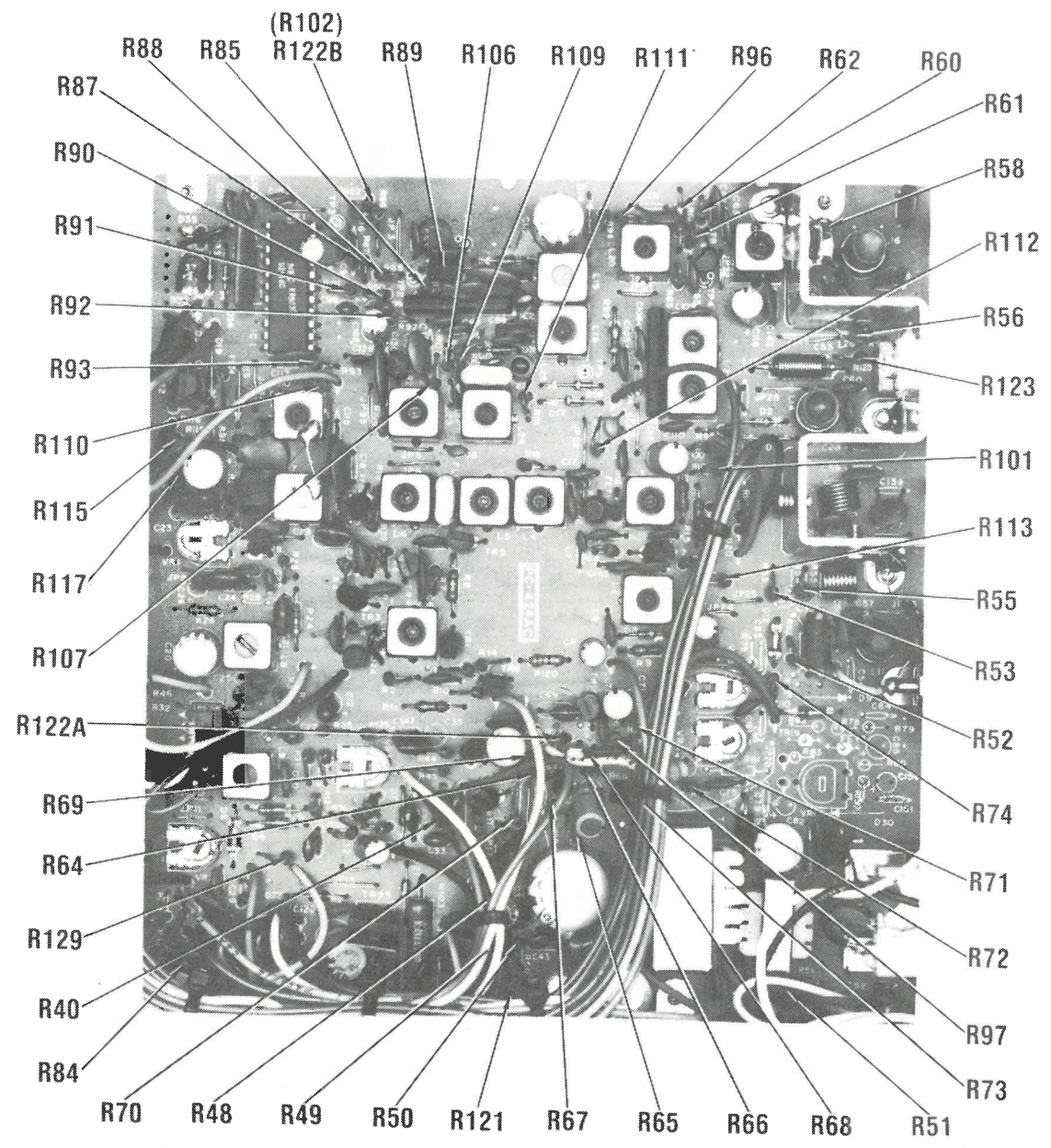


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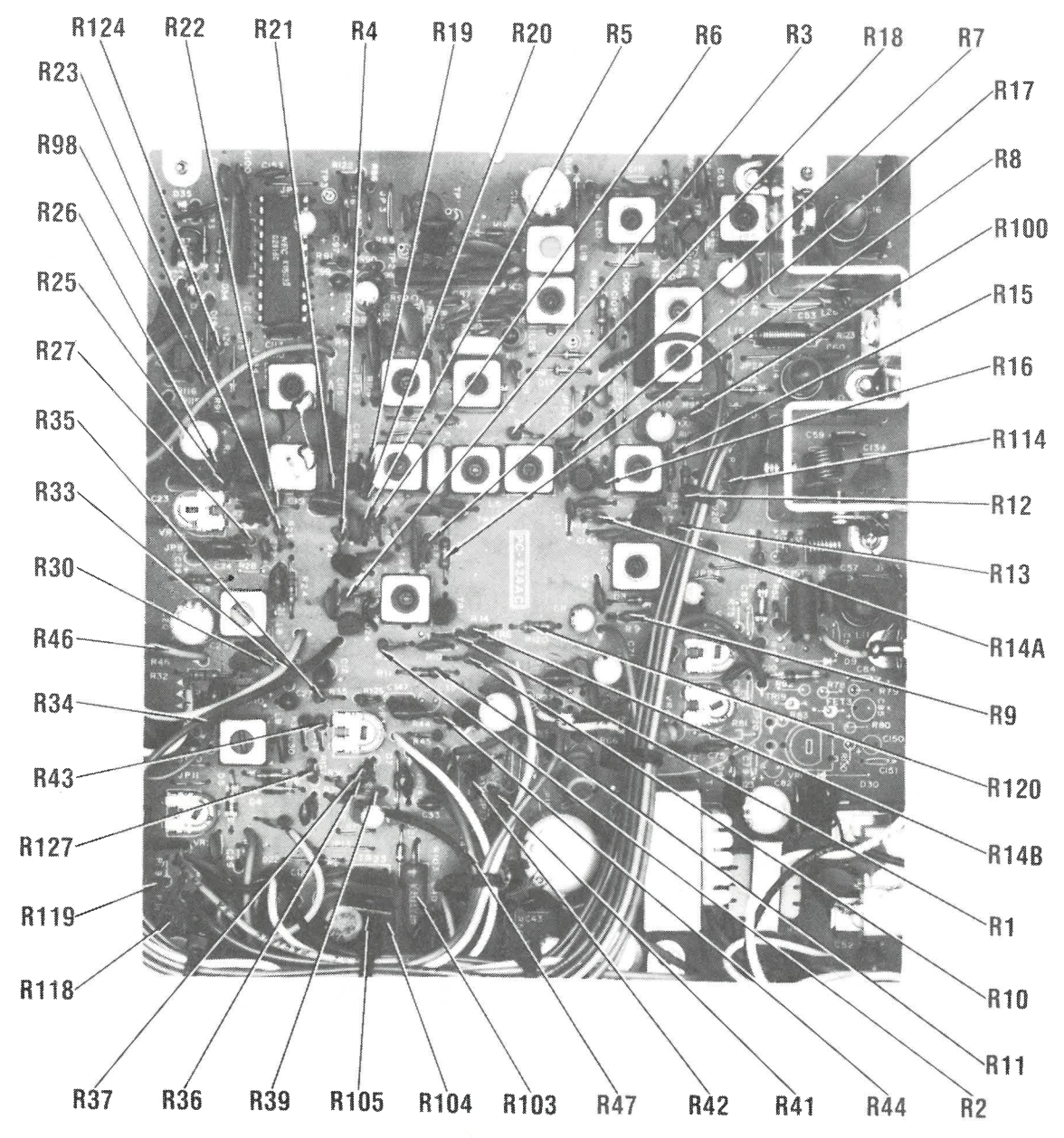


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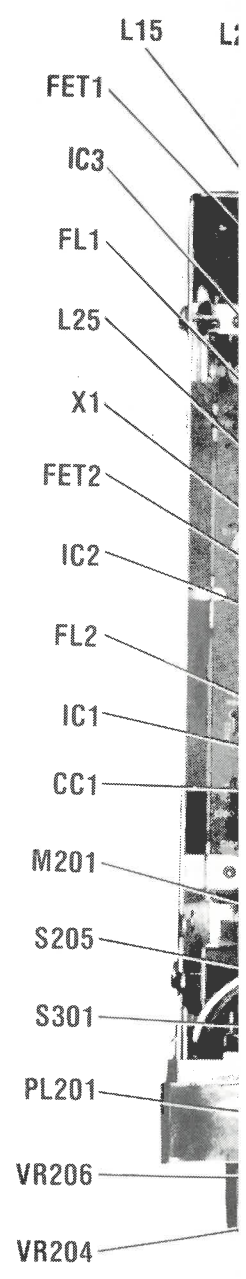


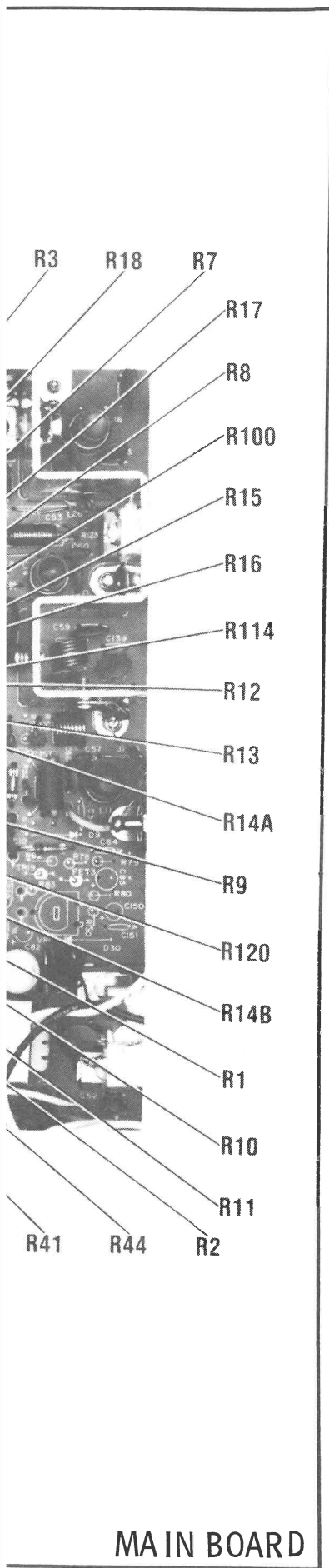


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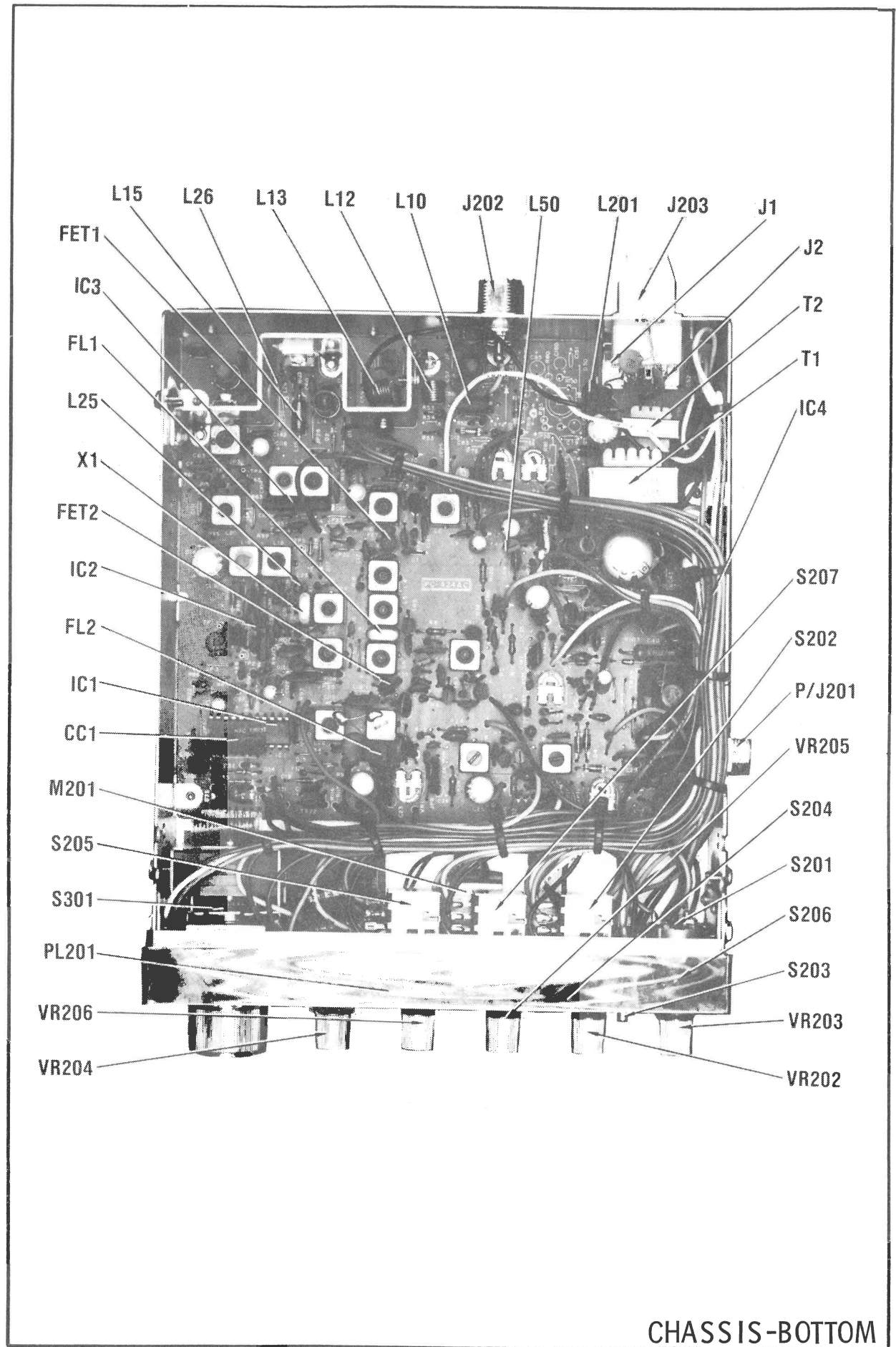


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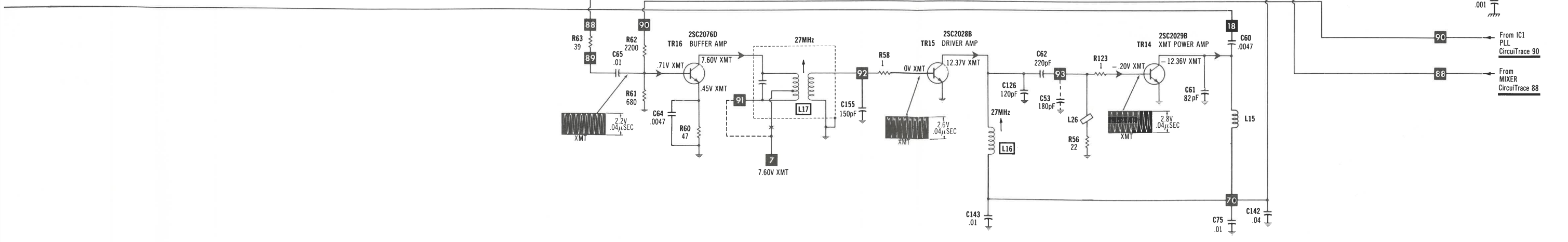
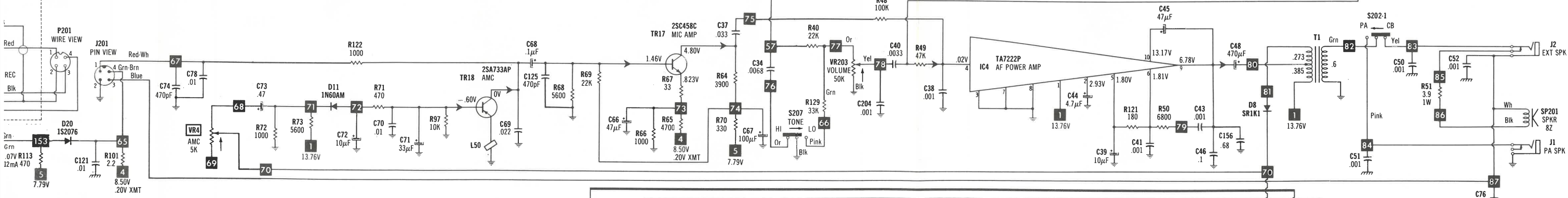
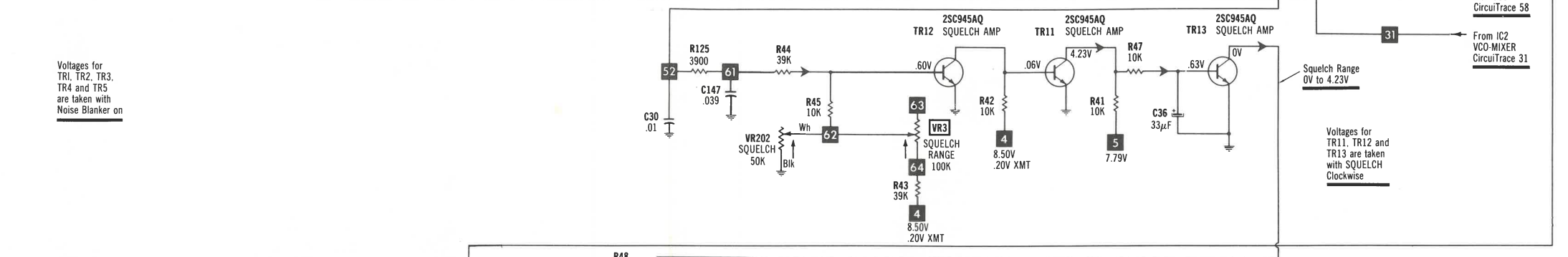
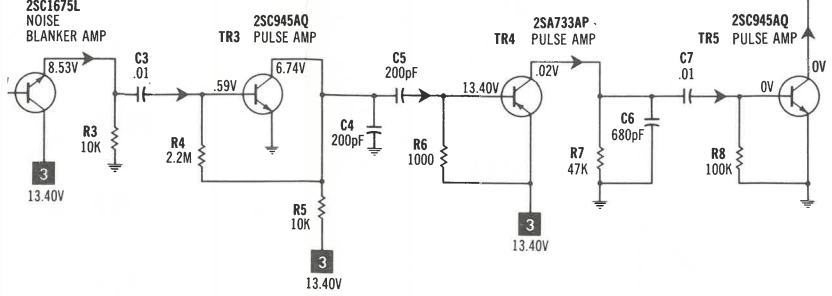
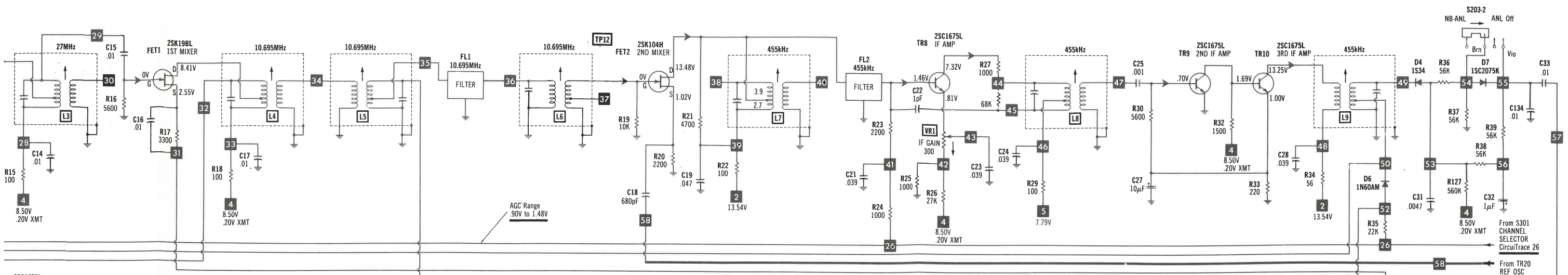


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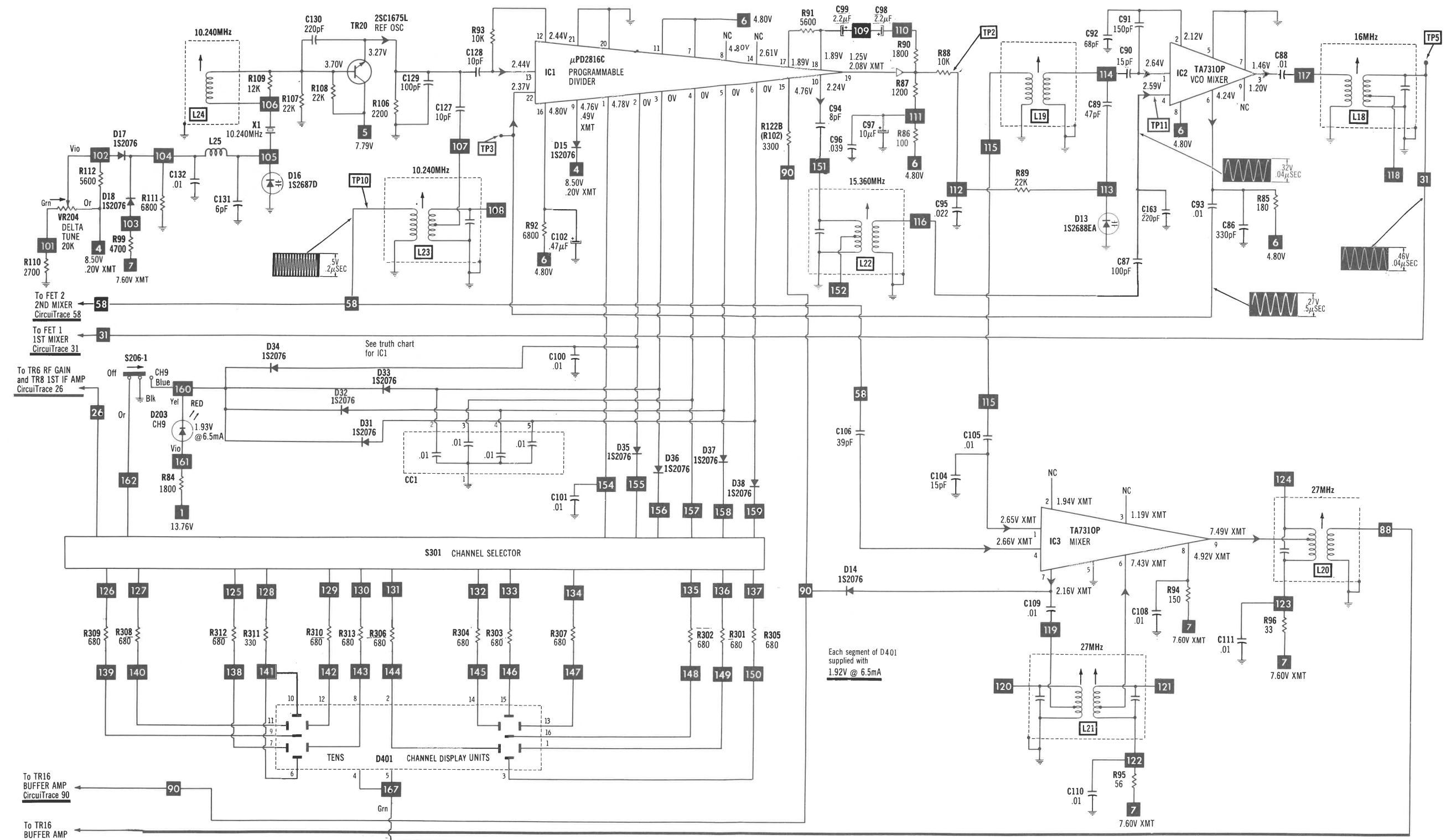


CHASSIS-BOTTOM



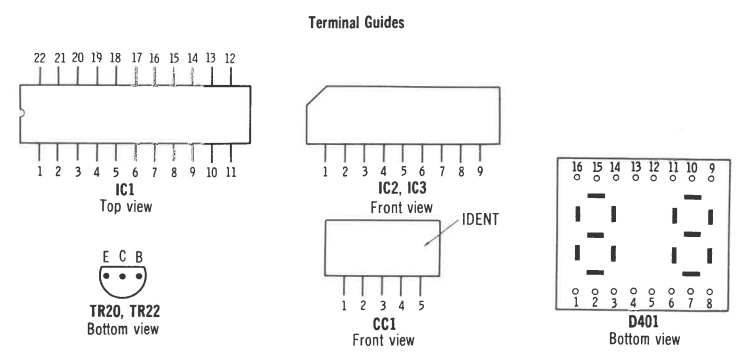
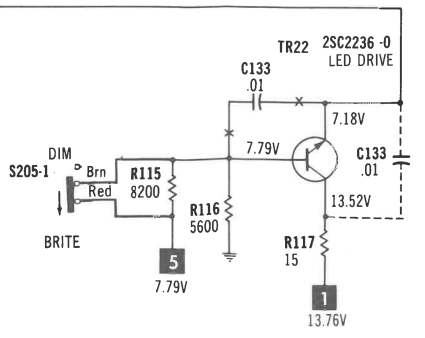


MAIN SCHEMATIC

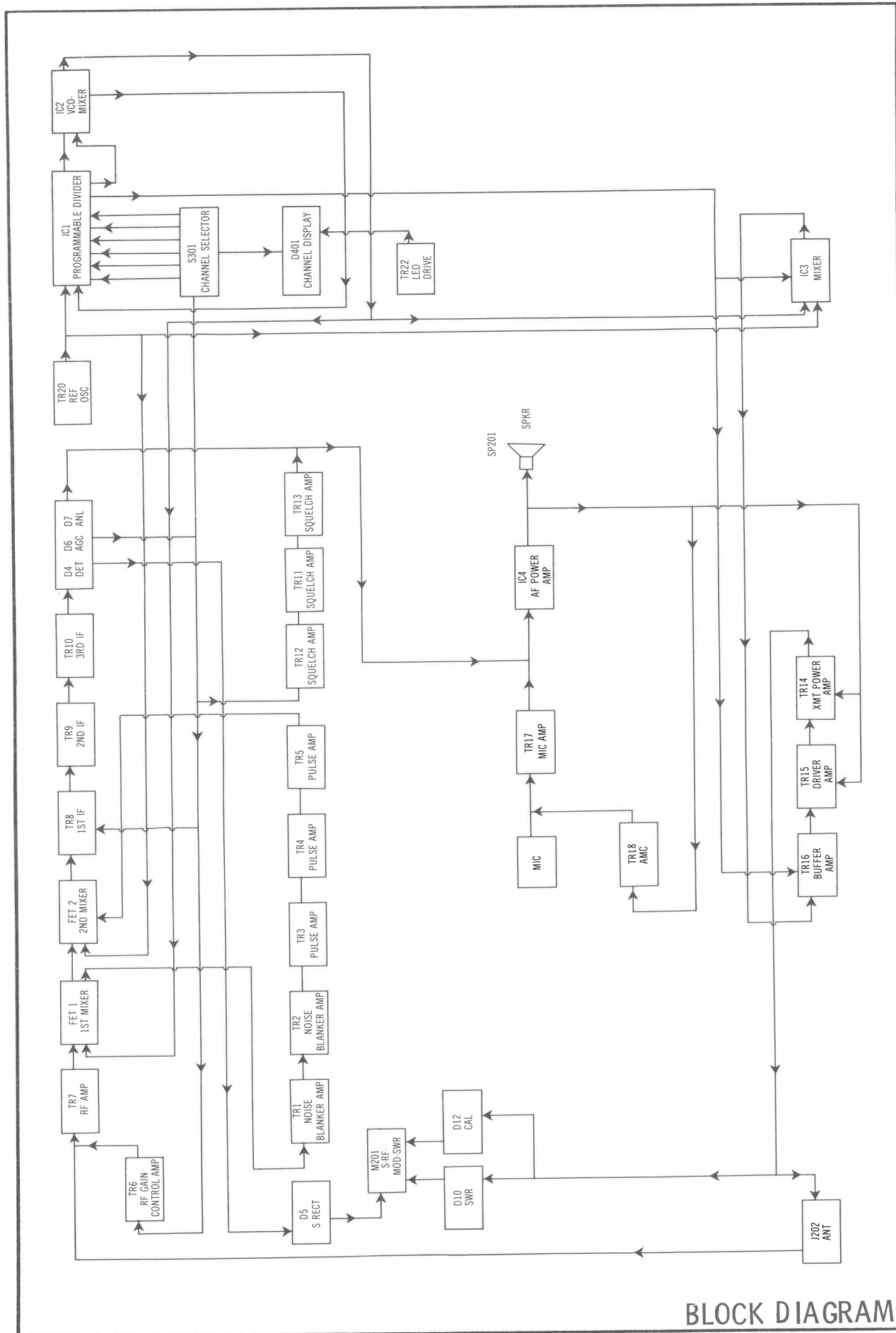


✕ Circuitry not used in some versions.  
 - - - Circuitry used in some versions.  
 \* Nominal value    ▽ Common tie point  
 ⊕ Ground  
 ⏏ Chassis  
 ⊖ See parts list  
 Waveforms and Voltages taken in Channel 19 with switching in receive unless noted. Item numbers in rectangles appear in the alignment/adjustment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

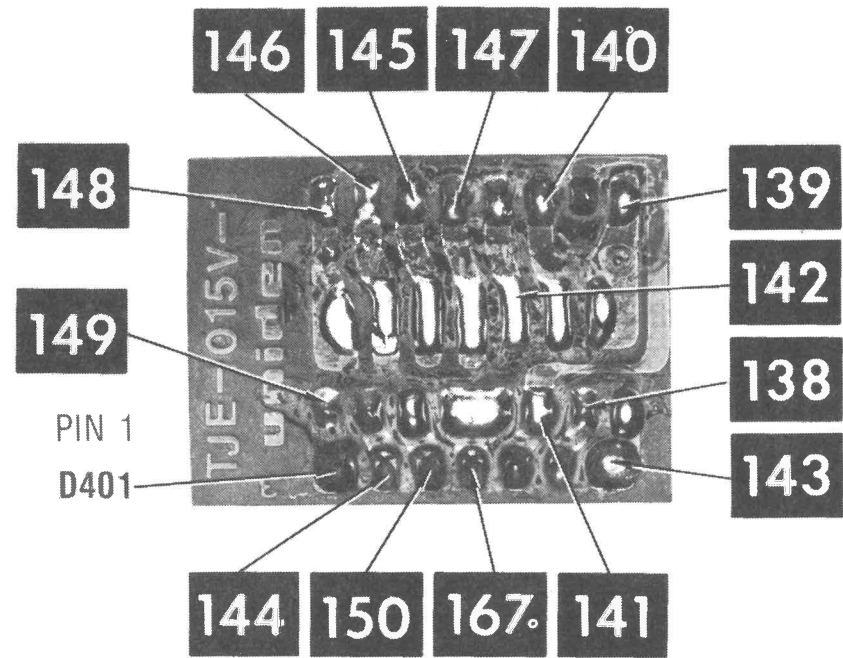


PLL SCHEMATIC



**BLOCK DIAGRAM**

A Howard W. Sams **CIRCUITRACE** Photo



**LED BOARD**

**PARTS LIST AND DESCRIPTION (CONTINUED)**

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

**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. 8497 (3 conductor-1 shielded)(6 ft.)(AWG22)
Microphone Cable (Coiled) .....	Use BELDEN No. 9466 (3 conductor-1 shielded)(6 ft.)(AWG28)
Microphone Cable (Coiled) .....	Use BELDEN No. 9468 (3 conductor-1 shielded)(6 ft.)(AWG31)

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

ITEM No.	TYPE No.	MFR. 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.
D1	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D2	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D3	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D4	1S34	DDAY051001	1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134/109	103-29001
D5	1N60	DDAY001001	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D6	1N60	DDAY001001	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D7	1S2075K	DDAY063001	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D8	SRI K1	DDAY002001	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D10	1N60P	DDAY001002	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D11	1N60AM	DDAY001001	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D12	1N60P	DDAY001002	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D13	1S2688EA	DDAY006003	1S2688EA	PTC214	REN 614	SK3126	ECG613	TM613	WEP200/613	103-281
D14	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D15	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D16	1S2687D	DDAY067001	1S2687D	PTC214	REN 612	SK3100/519	ECG612	TM612	WEP112	103-176
D17	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D18	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D19	XZ051	DDAY020004	GEZD-5.1	PTC214	REN 177	SK3056/135A	ECG135A	TM4733A	WEP1103/135A	103-29006
D20	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D21	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D22	XZ086	DDAY020005	GEZD-8.7	PTC214	REN 5073	SK3749/5073A	ECG5073A	TM5073A	WEP1155/5073A	212-76-02
D23	SRI K1	DDAY002001	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D24	1N60AM	DDAY001001	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D31	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D32	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D33	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D34	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D35	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D36	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D37	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D38	1S2076	DDAY069001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
FET1	2SK198L	DDCY001002	GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920/312*	921-1067*
FET2	2SK104H	DDCY011001	GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920/312*	921-1067*

# PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA								
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.	
IC1	D2816C										
IC2	UPD2816C	DDEY147001									
IC3	TA7310P	DDEY109001			REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120/1192	221-29061	
IC4	TA7222P	DDEY146001			REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120/1192	221-29061	
TR1	2SA733P	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*	
TR2	2SC1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*	
TR3	2SC945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*	
TR4	2SA733AP		GE-48	PTC127	REN 294	SK3114/290	ECG294	TM294/**	WEP911/290	121-29067	
	2SA733P	DDBY003001	GE-48	PTC127	REN 294	SK3114/290	ECG294	TM294/**	WEP911/290	121-29067	
TR5	2SC945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*	
TR6	2SC945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*	
TR7	2SC1674L	DDBY295002	GE-61*	PTC132*	REN 229*	SK3132	ECG229*	TM229*	WEP784	121-29021*	
TR8	2SC1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*	
TR9	2SC1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*	
TR10	2SC1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*	
TR11	2SC945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*	
TR12	2SC945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*	
TR13	2SC945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*	
TR14	2SC2029/1		GE-333	PTC186	REN 235	SK3197/235	ECG235	TM235	WEP785/235	121-29039	
	2SC2029B/10	DDBY257001	GE-333	PTC186	REN 235	SK3197/235	ECG235	TM235	WEP785/235	121-29039	
TR15	2SC2028/2		GE-270	PTC180	REN 295	SK3253/295	ECG295	TM295	WEP755/195A*	121-29066	
	2SC2028B/20	DDBY256002	GE-270	PTC180	REN 295	SK3253/295	ECG295	TM295	WEP755/195A*	121-29066	
TR16	2SC2076D	DDBY270003	GE-210	PTC121*	REN 295	SK3122	ECG295	TM295	WEP784	121-880	
TR17	2SC458C	DDBY273001	GE-210	PTC121*	REN 289	SK3124/289	ECG289	TM289/**	WEP458	121-29065	
TR18	2SA733AP		GE-48	PTC127	REN 294	SK3114/290	ECG294	TM294/**	WEP911/290	121-29067	
	2SA733P	DDBY003001	GE-48	PTC127	REN 294	SK3114/290	ECG294	TM294/**	WEP911/290	121-29067	
TR20	2SC1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*	
TR21	2SA733AP		GE-48	PTC127	REN 294	SK3114/290	ECG294	TM294/**	WEP911/290	121-29067	
	2SA733P	DDBY003001	GE-48	PTC127	REN 294	SK3114/290	ECG294	TM294/**	WEP911/290	121-29067	
TR22	2SC2236-0	DDBY276001	GE-270	PTC143*	REN 293	SK3849/293	ECG293	TM293	WEP912/293	121-29066	
TR23	2SC1096L		GE-28	PTC110	REN 186A	SK3248	ECG186A	TM186A/**	WEP1096	121-29008	
	2SC1096-3ZL	DDBY227002	GE-28	PTC110	REN 186A	SK3248	ECG186A	TM186A/**	WEP1096	121-29008	

TEABERRY MODEL Stalker V

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

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C11	10 16V	CELZ311000	PC10-25	VTT10B25	QV1-41	EV-1222
C12	4.7 16V	CSEZ314796		TDC686M025FL	QDT1-55	SD25-6R89
C20	100 16V	CELZ311010	PC100-16	VTT100E16	QV1-95	EV-1231
C26	4.7 16V	CSEZ314796		TDC686M025FL	QDT1-55	SD25-6R89
C27	10 10V	CSEZ901006		TDC106M025FL	QDT1-64	SD25-109
C32	1 50V	CELZ811090	PC1-50	VTT1A50	QV1-11	EV-1615
C36	33 6.3V	CELZ903300	PC30-25	VTT33B10		EV-1225
C39	10 10V	CSEZ111006		TDC106M025FL	QDT1-64	SD25-109
C42	1000 16V	CELZ311020	PC1000-16	VTT1000M16	QV1-183	EV-1261
C44	4.7 25V	CELZ514790	PC5-50	VTT47B50	QV1-31	EV-1619.1
C45	47 10V	CELZ114700	PC50-16	VTT47D16	QV1-73	EV-1226
C48	470 16V	CELZ314710	PC500-16	VTT470K16	QV1-151	EV-1251
C66	47 10V	CELZ114700	PC50-16	VTT47D16	QV1-73	EV-1226
C67	100 10V	CELZ111010	PC100-10	VTT100D10	QV1-93	EV-1131
C68	.1 16V	CAAZ311086	PC1-50	VTT47A63	QV1-3	EV-1610
C71	33 16V	CELZ313300	PC30-25	VTT33025	QV1-63	EV-1325
C72	10 10V	CSEZ901006		TDC106M025FL	QDT1-64	SD25-109
C73	.47 50V	CELZ814780	PC1-50	VTT47A63	QV1-3	EV-1610
C97	10 16V	CELZ311000	PC10-25	VTT10B25	QV1-41	EV-1222
C98	2.2 16V	CSEZ312296		TDC225M035FL		SD35-2R29
C99	2.2 16V	CSEZ312296		TDC225M035FL		SD35-2R29
C102	.47 50V	CELZ814780	PC1-50	VTT47A63	QV1-3	EV-1610
C112	470 6.3V	CELZ904710	PC500-16	VTT470K16	QV1-151	EV-1251
C114	100 10V	CELZ111010	PC100-10	VTT100D10	QV1-93	EV-1131
C116	47 10V	CELZ114700	PC50-16	VTT47D16	QV1-73	EV-1226
C117	47 10V	CELZ114700	PC50-16	VTT47D16	QV1-73	EV-1226
C119	100 10V	CELZ111010	PC100-10	VTT100D10	QV1-93	EV-1131
C123	100 25V		PC100-25	VTT100G25	QV1-97	EV-1331

# PARTS LIST AND DESCRIPTION (CONTINUED)

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

## CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	10 50V 10%		NP010	CN0410	QCC2-15	10TCC-Q10
C2	.01 50V			MAG5011		
C3	.01 50V			MAG5011		
C4	200 50V 10%		GP200	GP320	QCT2-28	10TS-T20
C5	200 50V 10%		GP200	GP320	QCT2-28	10TS-T20
C6	680 50V 10%		GP680	GP368		10TS-T68
C7	.01 50V			MAG5011		
C8	15 H220 50V 10%			*		10TCR-Q15
C9	.01 50V			MAG5011		
C10	.01 50V			MAG5011		
C13	220 50V 10%					10TCC-T22
C14	.01 50V			MAG5011		
C15	.01 50V			MAG5011		
C16	.01 50V			MAG5011		
C17	.01 50V			MAG5011		
C18	680 50V 10%		GP680	GP368		10TS-T68
C19	.047 50V		DPMS2S47	EW1A147	QFT2-171	1FT-S47
C21	.039 50V		DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C22	1 50V			CN0510		10TCC-V10
C23	.039 50V		DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C24	.039 50V		DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C25	.001 50V		DPMS6D1	EW1A210	QFT2-1	1FT-D10
C28	.039 50V		DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C29	.01 50V			MAG5011		
C30	.01 50V			MAG5011		
C31	.0047 50V		WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C33	.01 50V		WMF1S1	EW1A110	QFT2-91	1FT-S10
C34	.0068 50V		WMF1D68	EW1A268	QFT2-73	1FT-D68
C37	.033 50V		DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C38	.001 50V		GP1000	GP210	QC2-81	5GA-D10
C40	.0033 50V		WMF1D33	M192P3329R8	QFT2-43	1FT-D33
C41	.001 50V		GP1000	GP210	QC2-81	5GA-D10
C43	.001 50V		DPMS6D1	EW1A210	QFT2-1	1FT-D10
C46	.1 25V			MAG2501	QC1-231	HY-750
C47	.01 50V			MAG5011		
C49	.0022 50V			GP222	QCT2-46	10TS-D22
C50	.001 50V		GP1000	GP210	QC2-81	5GA-D10
C51	.001 50V		GP1000	GP210	QC2-81	5GA-D10
C52	.001 50V		GP1000	GP210	QC2-81	5GA-D10
C53	180 50V 10%			GP318	QCT2-27	10TS-T18
C56	68 H220 50V 10%			*		10TCR-Q68
C57	33 50V 10%		NP033	CN0433	QCC2-22	10TCC-Q33
C58	220 50V 10%					10TCC-T22
C59	330 50V 10%		GP330	GP333	QCT2-33	10TS-T33
C60	.0047 50V		GP4700	GP247		5GA-D47
C61	82 50V 10%		NP082	CN0482		10TCC-Q82
C62	220 50V 10%					10TCC-T22
C63	.01 50V			MAG5011		
C64	.0047 50V		GP4700	GP247		5GA-D47
C65	.01 50V			MAG5011		
C69	.022 50V		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C70	.01 50V			MAG5011		
C74	470 50V 10%		GP470	GP347	QCT2-35	10TS-T47
C75	.01 50V			MAG5011		
C76	.001		GP1000	GP210	QC2-81	5GA-D10
C77	.01 50V			MAG5011		
C78	.01 50V			MAG5011		
C86	330 50V 10%		GP330	GP333	QCT2-33	10TS-T33
C87	100 50V 10%		NP0100	CN0310		10TCC-T10
C88	.01 50V			MAG5011		
C89	47 H750 50V 10%			*		10TCU-Q47
C90	15 H220 50V 10%			*		10TCR-Q15
C91	150 H220 50V 10%			*		10TCR-T15
C92	68 H220 50V 5%			*		10TCR-Q68
C93	.01 50V			MAG5011		
C94	8 50V +.25		NP010	CN0410	QCC2-15	10TCC-Q10
C95	.022 50V		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C96	.04			GP140		5GA-S40
C100	.01 50V			MAG5011		
C101	.01 50V			MAG5011		
C104	15 50V 10%		NP015	CN0415		10TCC-Q15
C105	.01 50V			MAG5011		
C106	39 50V 10%			CN0439		10TCC-Q39
C108	.01 50V			MAG5011		
C109	.01 50V			MAG5011		
C110	.01 50V			MAG5011		
C111	.01 50V			MAG5011		
C113	.04 50V			GP140		5GA-S40
C115	.04 50V			GP140		5GA-S40
C118	.01 50V			MAG5011		
C120	.01 50V			MAG5011		
C121	.01 50V			MAG5011		
C122	.01 50V			MAG5011		
C124	.01 50V			MAG5011		
C125	470 50V 10%		GP470	GP347	QCT2-35	10TS-T47
C126	120 50V 10%		NP010	CN0312		10TCC-T12
C127	10 NPO 50V 10%		NP010	CN0410	QCC2-15	10TCC-Q10
C128	10 NPO 50V 10%		NP010	CN0410	QCC2-15	10TCC-Q10
C129	100 H220 50V 10%			*		10TCR-T10
C130	220 H220 50V 10%			*		10TCR-T22
C131	6 H220 50V 10%			*		10TCU-V68
C132	.01 50V			MAG5011		
C133	.01 50V			MAG5011		
C134	.01 50V		WMF1S1	EW1A110	QFT2-91	1FT-S10
C136	.01 50V			MAG5011		
C137	.01 50V			MAG5011		
C138	.04			GP140		5GA-S40

## 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
C139	.01 50V			MAG5011		
C140	.01 50V			MAG5011		
C141	.01 50V			MAG5011		
C142	.04 50V			GP140		5GA-S40
C143	.01 50V			MAG5011		
C145	.01 50V			MAG5011		
C147	.039 50V		DPM56539	M192P3939R8	QFT2-159	1FT-S39
C152	.01 50V			MAG5011		
C153	.01 50V			MAG5011		
C155	150 50V 10%			CNO315		10TCC-T15
C156	.68 50V		WMF05P68	EWFO5068		431P6849R5
C159	.01 50V			MAG5011		
C161	.01 50V			MAG5011		
C163	220 50V 10%					10TCC-T22
C201	.01 50V			MAG5011		
C202	.01 50V			MAG5011		
C203	9 50V +.25		NP010	CNO410	QCC2-15	10TCC-Q10
C204	.001 50V		GP1000	GP210	QC2-81	5GA-D10
CC1	(1)	HHAY003001				

\* 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	RESISTANCE	REPLACEMENT DATA		
			MFR. PART No.	MALLORY PART No.	TRW PART No.
VR1	IF Gain	300	RRVY189001	RVA0911H501	U260R501B
VR2	Signal Meter	20K	RRVY189006	RVA0911H253	U260R253B
VR3	Squelch Range	100K	RRVY189008	RVA0911H104	U260R104B
VR4	AHC	5000	RRVY189010	RVA0911H502	U260R502B
VR5	RF Meter	20K	RRVY189006	RVA0911H253	U260R253B
VR202	Squelch/PA Switch	50K	RRVY355001		
VR203	Volume/Power Switch	50K	RRVY320001		
VR204	Delta Tune	20K	RRVY039001		
VR205	RF Gain/Hi-Cut Switch	1000	RRVY353001		
VR206	SWR/CAL-Dim Switch	5000	RRVY354001		

### COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Noise Blanker	LLAY181001			
L2	Receive Antenna (27MHz)	LLAY029001		CBS740-T	
L3	RF Amp (27MHz)	LLAY138001			
L4	Mixer (10.695MHz)	LLAY180001		CBS715-TC	
L5	Mixer (10.695MHz)	LLAY277001			
L6	Mixer (10.695MHz)	LLAY274001			
L7	IF (455kHz)	LLAY106001		8517	
L8	IF (455kHz)	LLAY204001			
L9	IF (455kHz)	LLAY207001			
L11	TVI Trap (54MHz)	LLCY018001		CB304	
L12	Antenna Matching	LLEY089001			
L13	Pi Filter	LLEY088001			
L14	Loading Final (27MHz)	LLCY018001		CB304	
L15	RF Choke	LLDY012001		4588	
L16	Driver (27MHz)	LLCY017001		CB303	
L17	Buffer (27MHz)	LLAY208001			
L18	VCO Mixer (16MHz)	LLAY201001			
L19	VCO	LLAY275001			
L20	Mixer (27MHz)	LLAY088001		CBS717-TC	
L21	Mixer (27MHz)	LLAY198001			
L22	Down Oscillator (15.360MHz)	LLAY166001			
L23	Reference Oscillator (10.240MHz)	LLAY182001			
L24	Reference Oscillator (10.240MHz)	LLAY217001			
L25	RF Choke (100uH)	LLZY001013			

### FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	1.15A	.135	.85mH	TTFY083001			

TEABERRY MODEL Stalker V

## 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
F201	2A Quick Acting	ZFSY012004		AGC2	HRK	312002	150145	FG2-2

### TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
TI	6.25	1 2 16 12.25	TTFY129001			

### SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP201	4" PM 16 Ohms	ASPY052001		

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
D201	LED	DDAY102001	Receive (Grn)(TLRG101)(2.07V @ 12mA)
D203	LED	DDAY100001	XMT (Red)(1.92V @ 7mA)
D401	LED	DDAY078001	Ch 9 (TLR-124)(1.93V @ 6.5mA)
FL1	Filter	FFLY055001	Channel Display (TLR-321)(Each segment supplied with 1.92V @ 6.5mA)
FL2	Filter	FFLY009001	10.695MHz (Crystal)(FL-055)
J1	Jack	JJKY089001	455kHz (Ceramic)(FL-009)
J2	Jack	JJKY089001	PA Speaker
J201	Jack	JJKY072001	Ext Speaker
J202	Jack	JJKY035001	Mic
J203	Jack	JJKY052001	Antenna
L10	Ferrite Bead	LLDY071001	DC Power
L26	Ferrite Bead	LLDY087001	
L50	Ferrite Bead	LLDY075001	
L201	Ferrite Bead	LLDY088001	
M201	Meter	ZMTY094001	Signal/RF/SWR/CAL
PL201	Lamp		Meter (10.37V @ 34mA)
S203	Switch	SSWY145001	Off/ANL/NB-ANL
S204	Switch	SSWY145001	CAL/S-RF/SWR
S206	Switch	SSWY146001	Off/CH9
S301	Switch	SSRY216001	Channel Selector
X1	Crystal	QQXY074001	10.240MHz
	Cable	WVWFY005107	Flat
	Cable	WVWFY005103	Flat
	Cable	WVWFY012105	Flat
	Cord	WZDZ070088	DC Power
	Microphone	AMKY105001	
	P.C. Board	PPCY482011	Channel Switch
	P.C. Board	PPCY483011	LED
	P.C. Board	PPCY424012	Main

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

ITEM	PART No.	ITEM	PART No.
Chassis	MDBP206017	Filter, Optical, (Channel Display)	MDAP404321
Chassis, Front	MDBP306423	Knob (5 used)	MDMP402181
Cover, Bottom	MDBP306019	Knob, Channel Selector	MDMP406425
Cover, Top	MDBP306018	Panel, Front	MDMP204318