

SAMS PHOTOFACT[®] CB RADIO SERIES



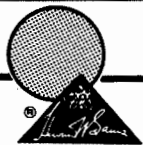
CB-51
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JANUARY 1974



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



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

ONLY THOSE PERSONS PROPERLY LICENSED ARE PERMITTED TO MAKE REPAIRS OR ADJUSTMENTS WHICH MAY RESULT IN ILLEGAL OPERATION. (REFER TO FCC RULES AND REGULATIONS PART 95, SUBPARTS C & D.)

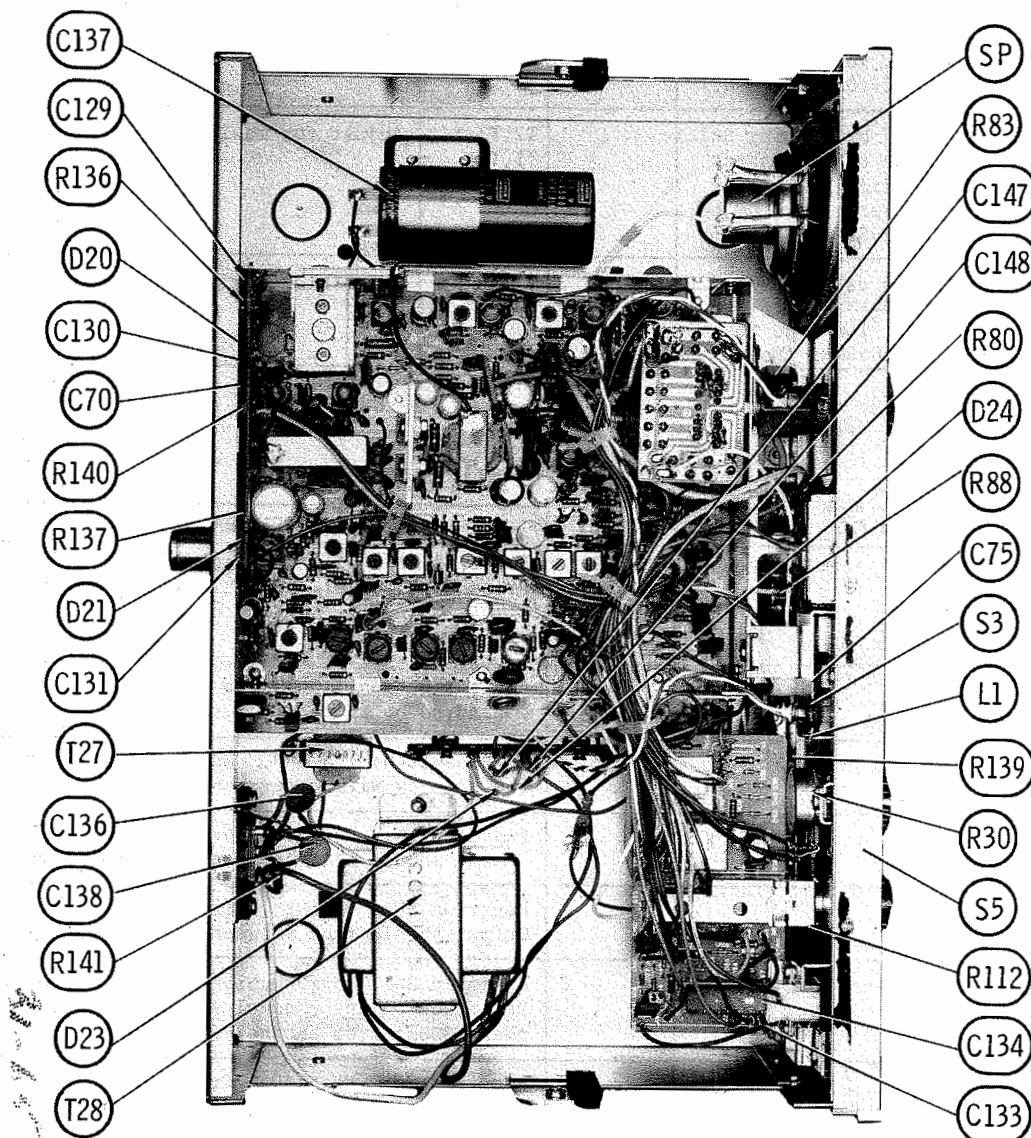
The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

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-49 (21-149) (navaho pro niner)



REALISTIC MODEL TRC-49

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

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4CY125

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

T1, T9, T10, T11, T20, T22, L5	GC ELECTRONICS #9440
T2, T3, T4, T5, T6, T12, T13, T14, T15, MF1	#9087,9089
T7, T19, T23, T24, T25	#8728

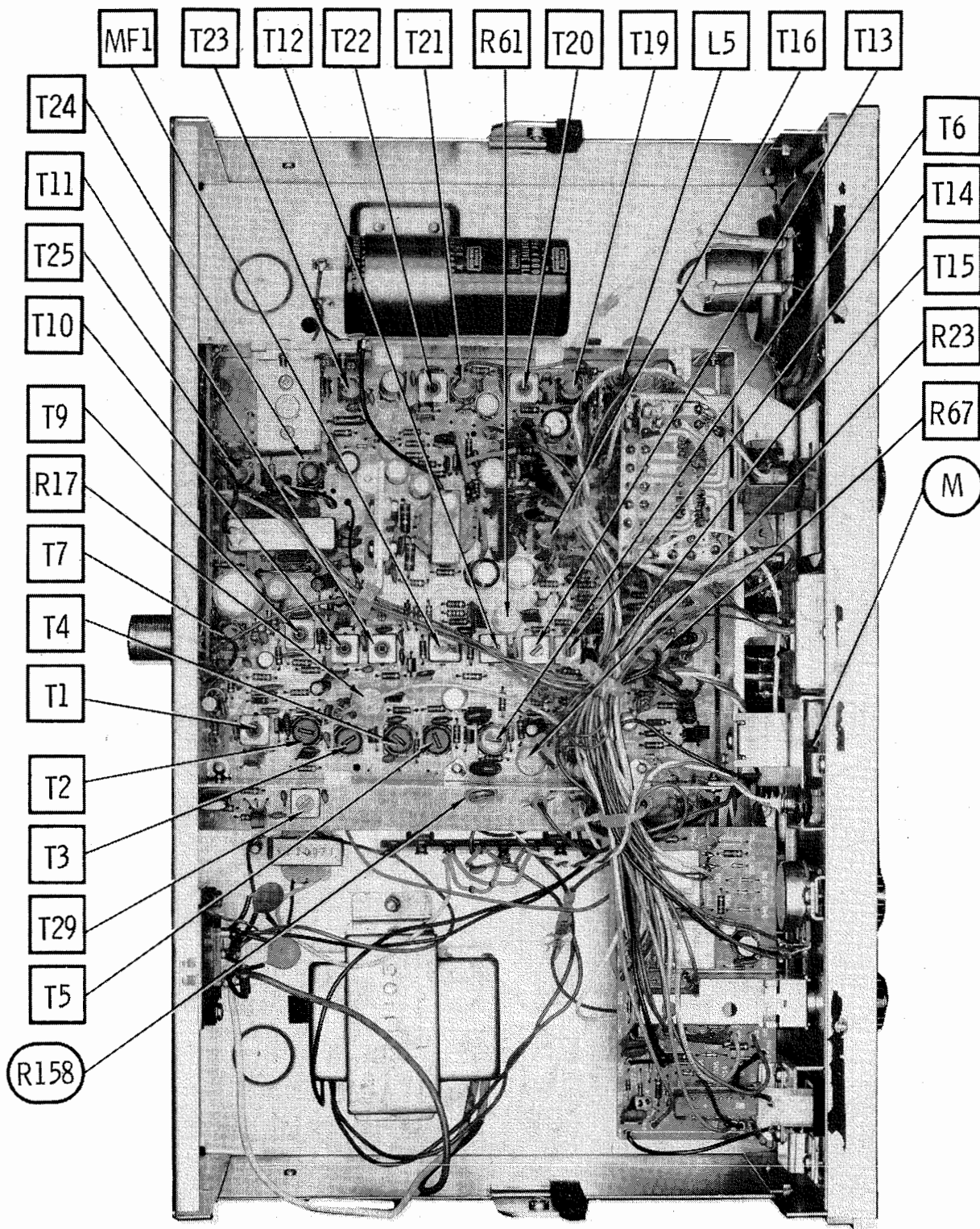
RECEIVER ALIGNMENT

Connect a VTVM or oscilloscope across speaker coil. Set squelch fully CCW, noise silencer off, adjust volume for suitable reading.

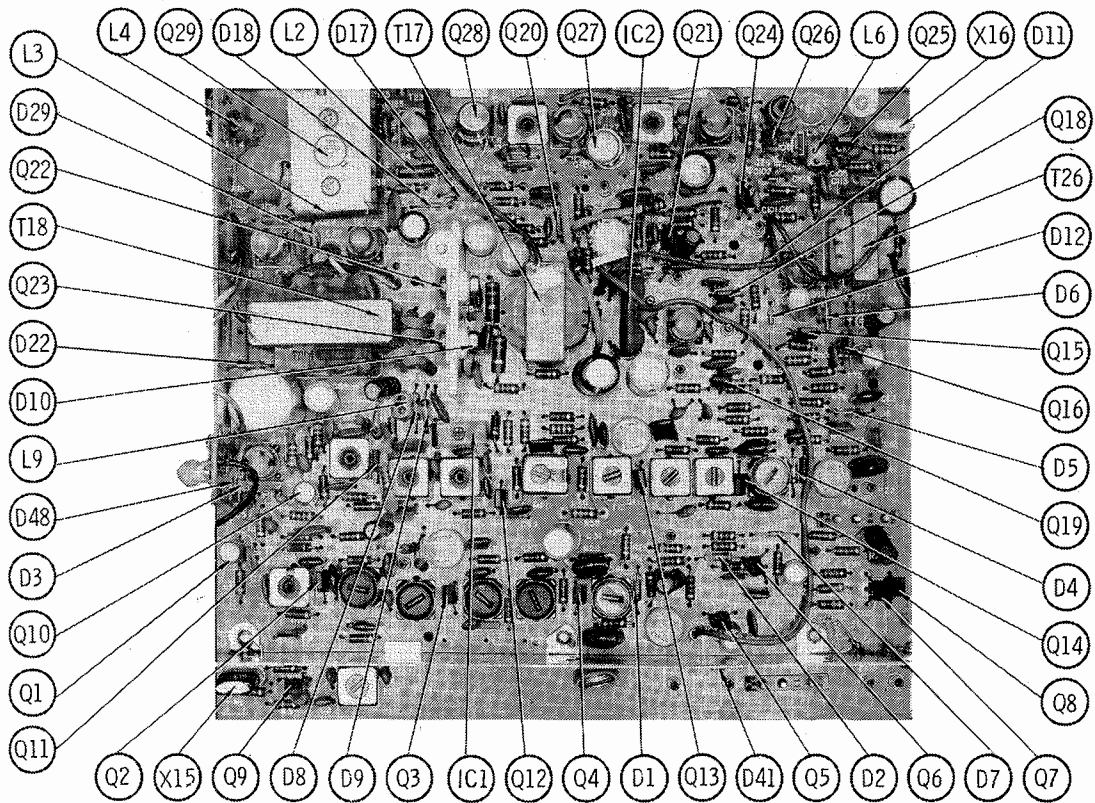
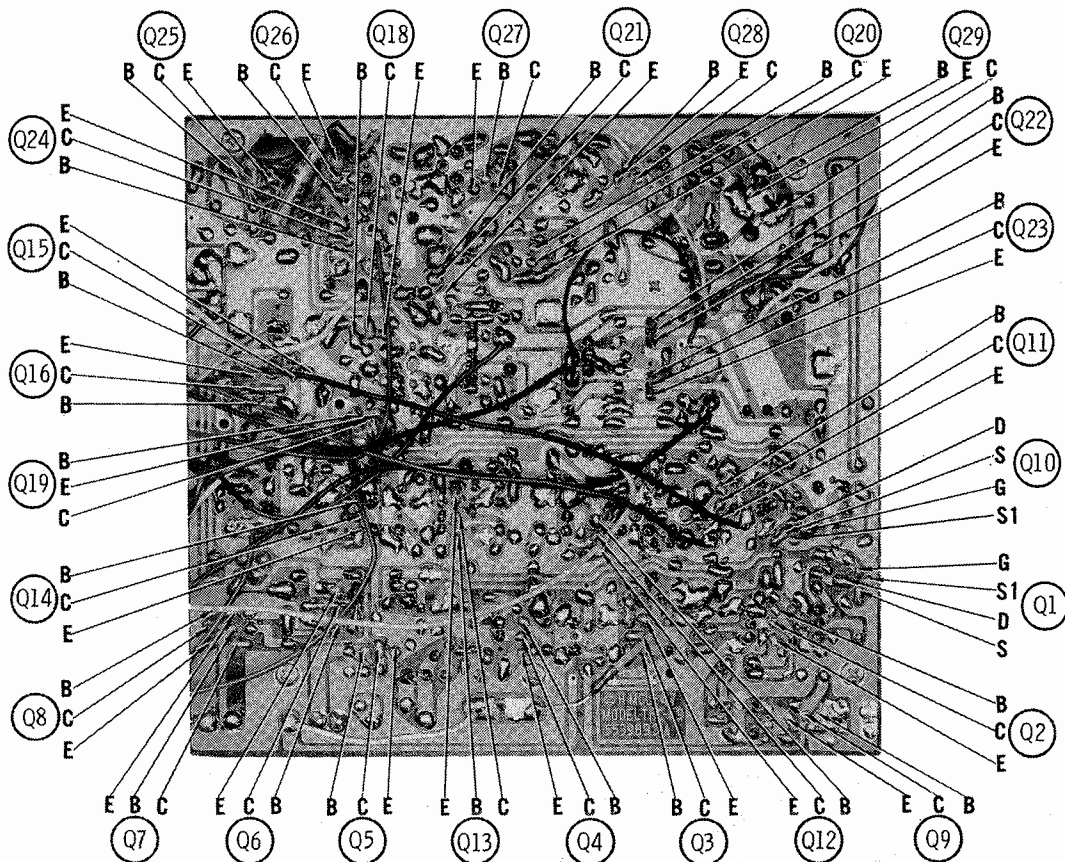
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
Connect high side thru .01mfd to base of Q12, (Second mixer) low side to chassis. Set to 455kHz (Mod.).		MF1 T12,T13, T14,T15	Adjust for maximum.
Connect high side thru .01mfd to Antenna connector, low side to chassis. Set to 27.085MHz (Mod.).	11	T7,T9 T10,T11	Adjust for maximum.
Activate Channel 9 by turning Sel. SW to rec. squelch off. Connect high side thru .01mfd to base of Q2, (Channel 9 mixer) low side to chassis. Set to 255kHz (Mod.).		T2,T3,T4, T5,T6	Adjust for maximum.
Activate Channel 9 as above Connect highside thru .01mfd. to Antenna connector, low side to ground. Set to 27.065MHz (Mod.)	9	T1	Adjust for maximum.

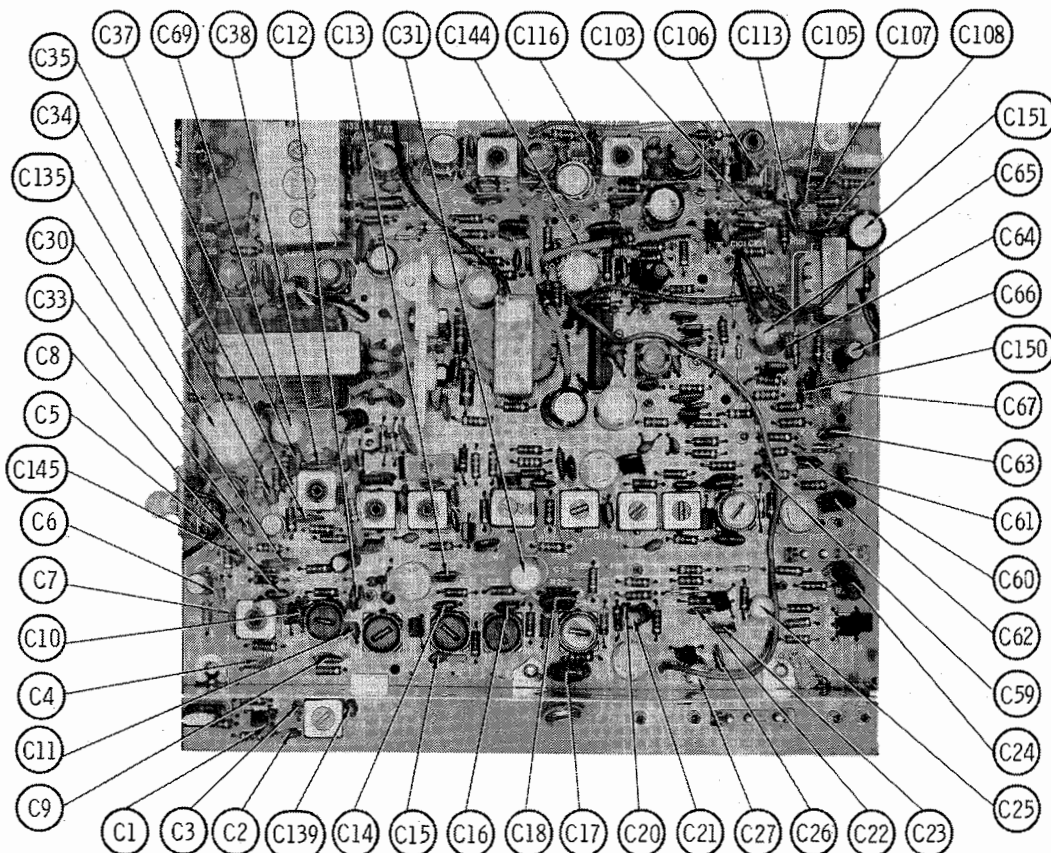
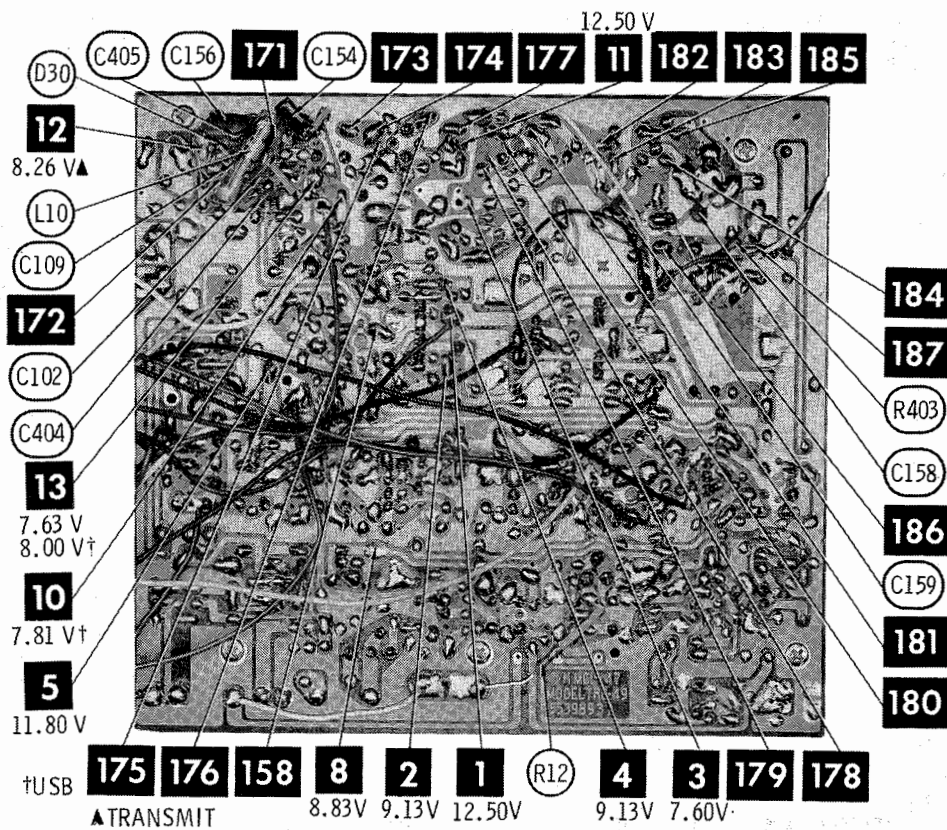
TRANSMITTER ALIGNMENT

INDICATOR	ADJUST	REMARKS
Connect an RF output meter to output jack.	L5,T19, T20,T21, T22,T23, T24,T25	Function SW: "off" Channel Selector to Ch. 10. Press Push to talk button. Adjust for maximum.
Same as above.	T23,T24, T25	Audio sig. gen. 1000Hz to 80% modulation as monitored on scope. Adjust for maximum.
Same as above.	R140	Meter switch: "S-RF". Adjust meter to read the same as with meter reading.
Same as above		Function SW: "off". Check Ch. 1 thru Ch. 23. Output should read between 2.5 to 4 watts.
Same as above.		Function SW: "Light". Transmit SW: "In". Output should read between 2.5 to 4 watts.
Connect frequency counter to output jack.		Function SW: "off", check Ch. 1 thru Ch. 23. Deviation on any channel should be no more than +800Hz from channel center frequency.
Same as above.		Function SW: "Light". Transmit SW: "In". Deviation on Ch. 9 should be no more than +800Hz from center frequency.
0-1A meter & RF output meter	T24,T25	Connect 0-1A meter from cold side of L3 to ground. Adjust for 5 watts input and 4 watts output on RF output meter.

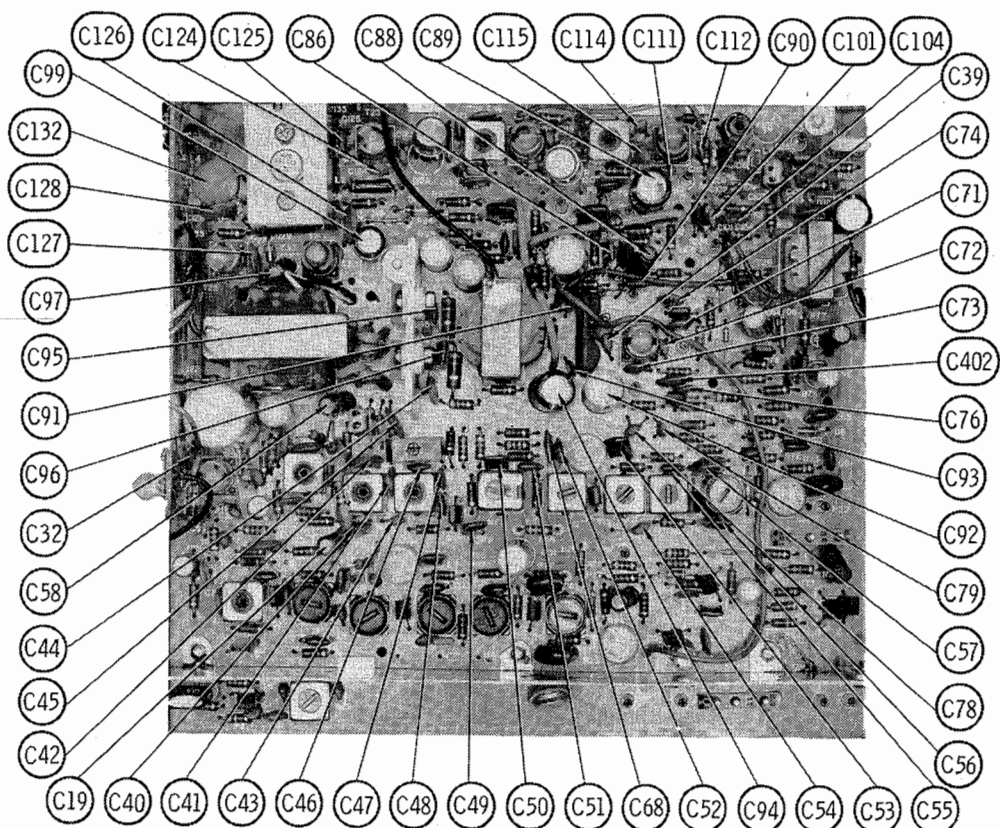
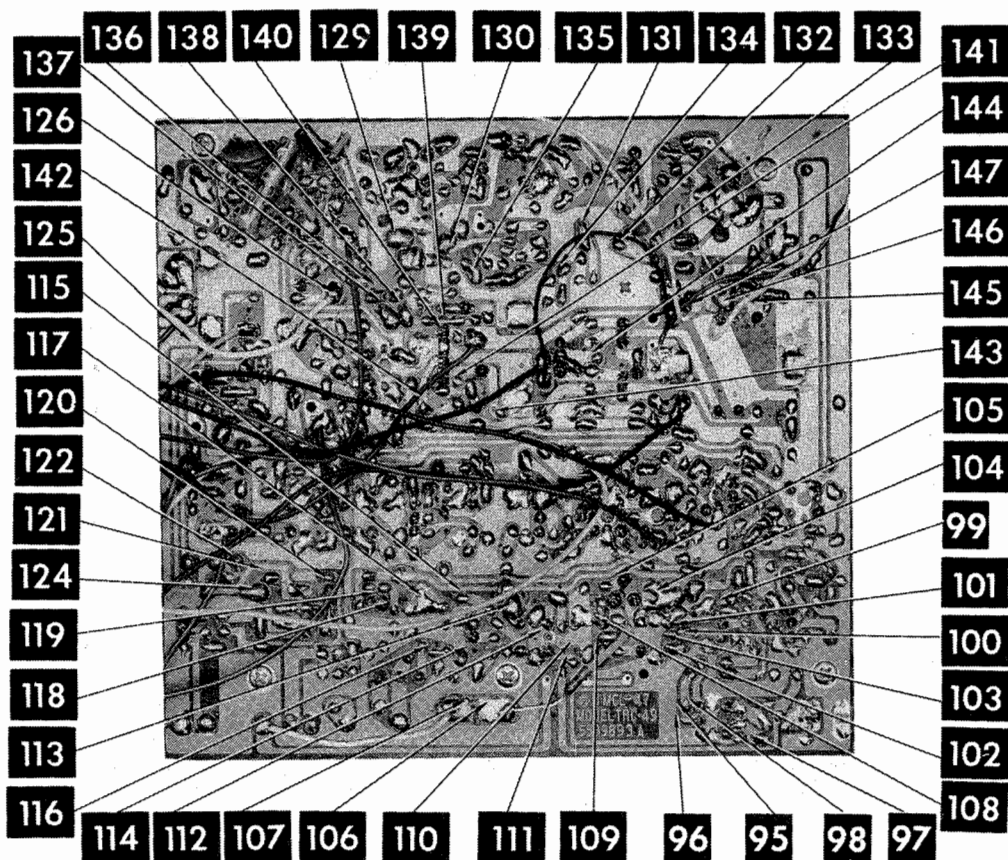


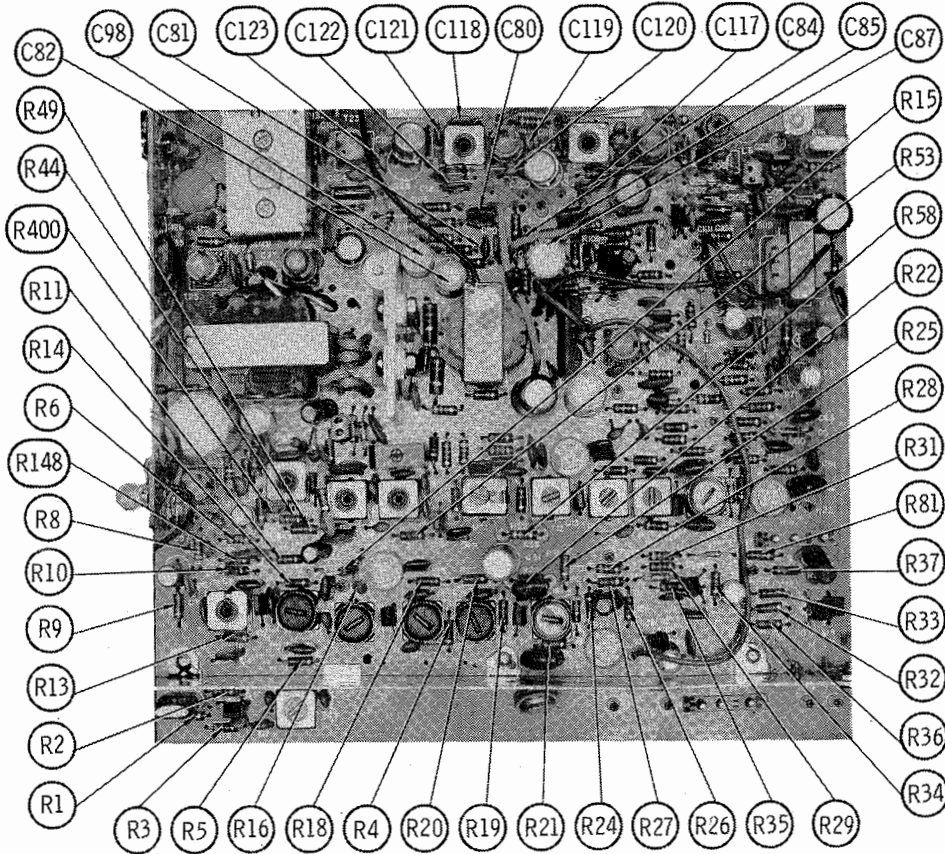
REALISTIC MODEL TRC-49



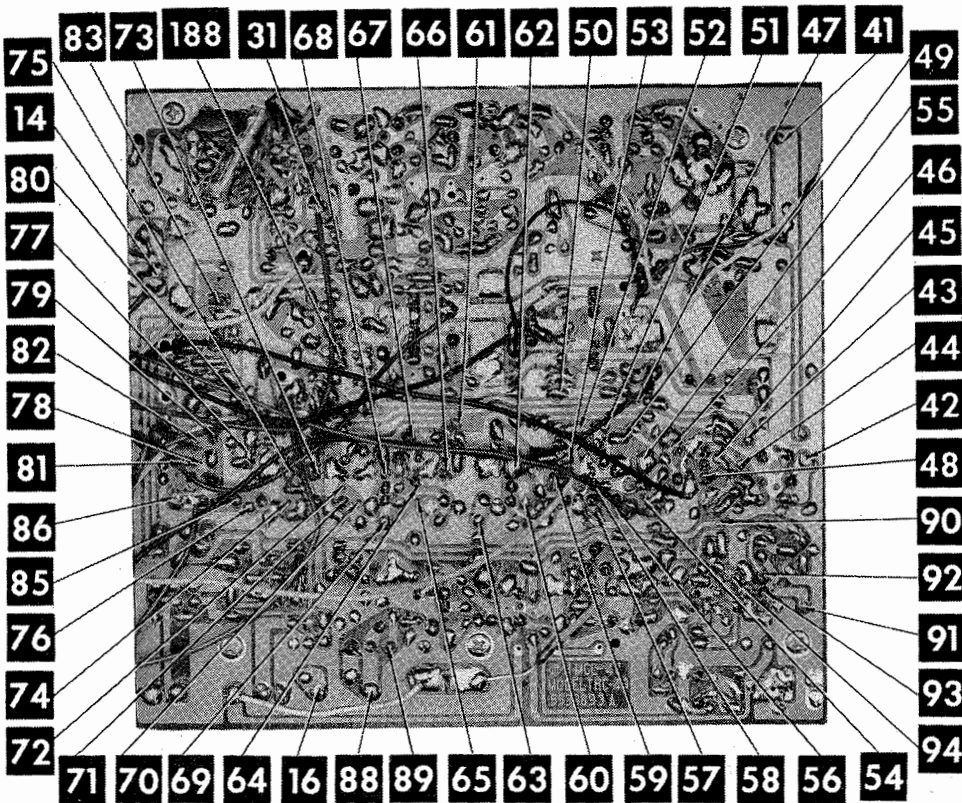


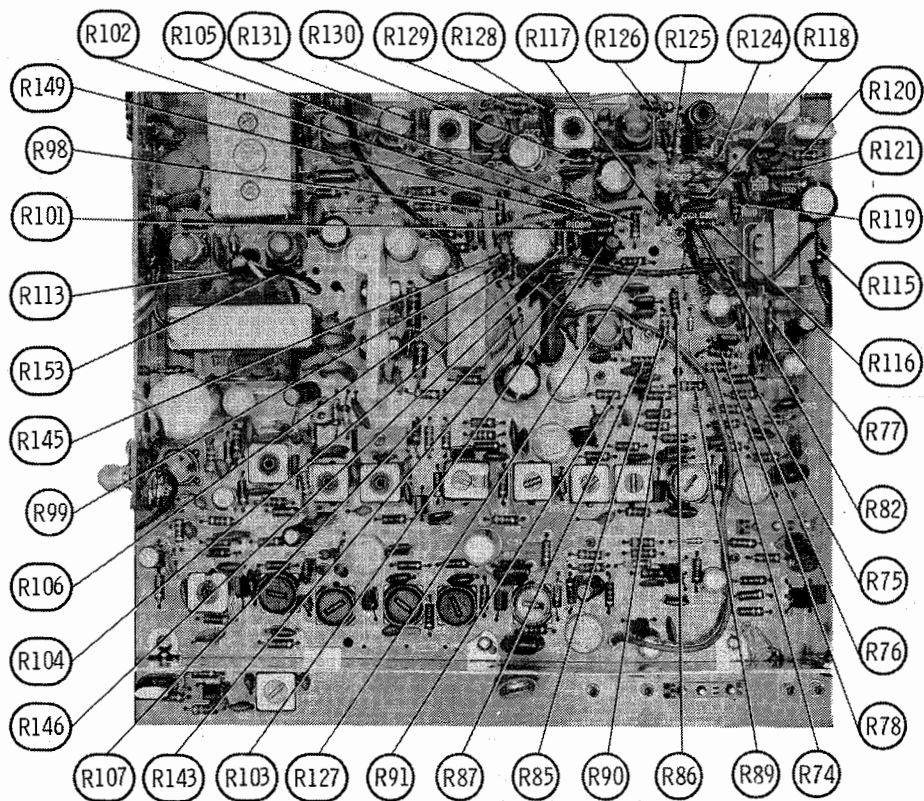
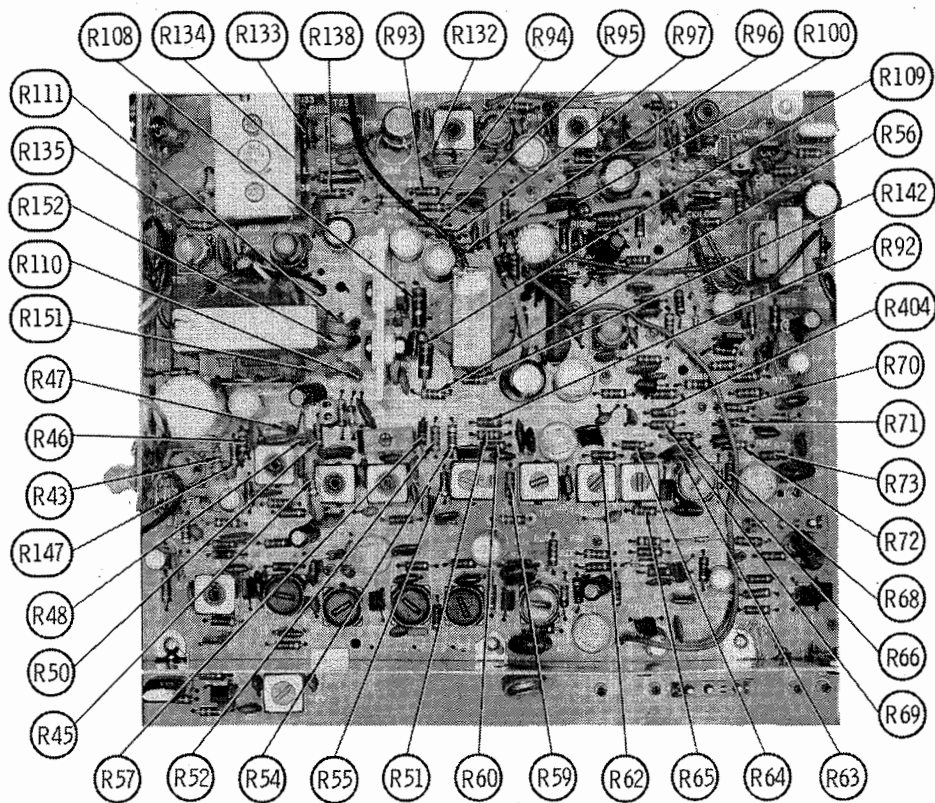
REALISTIC MODEL TRC-49

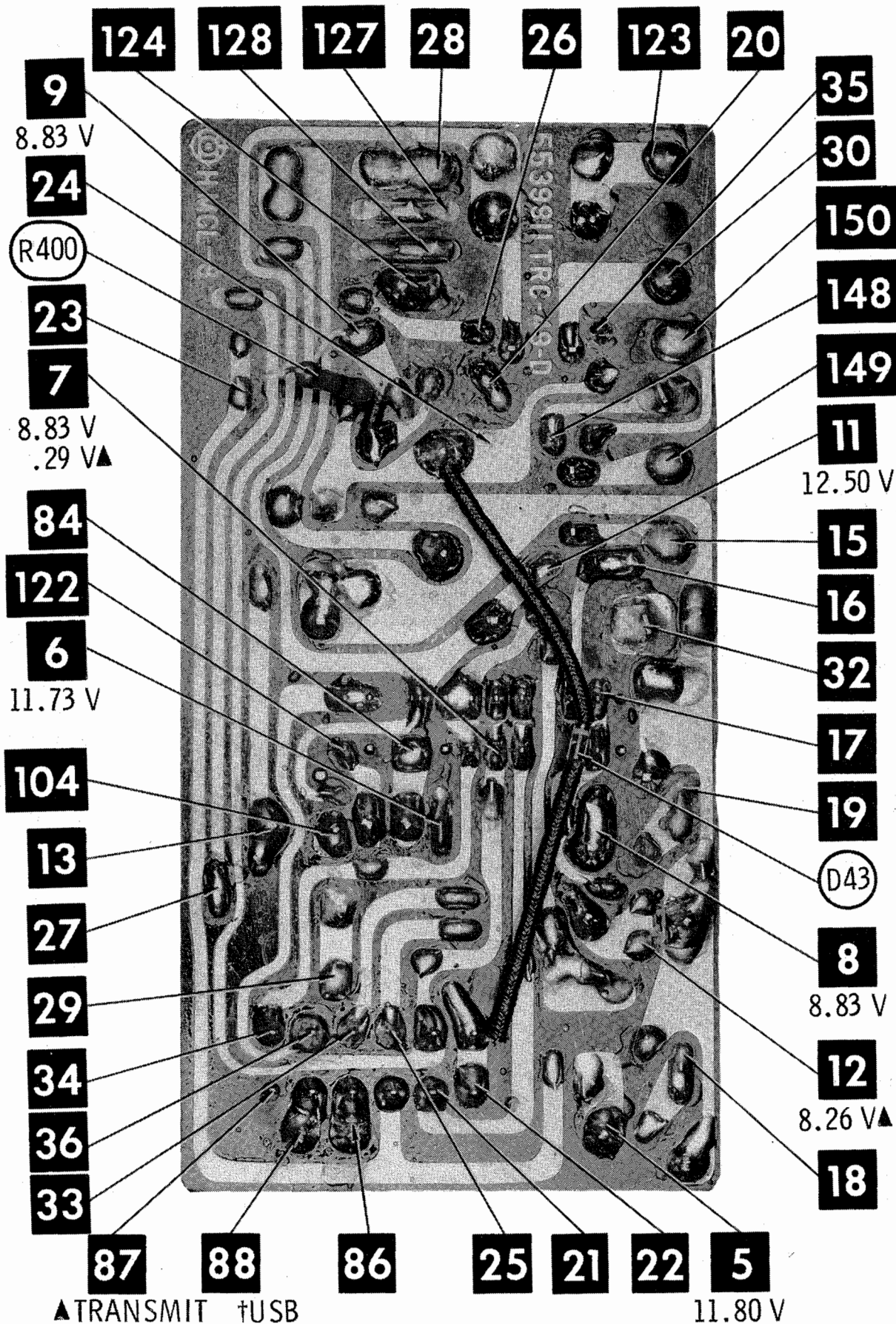


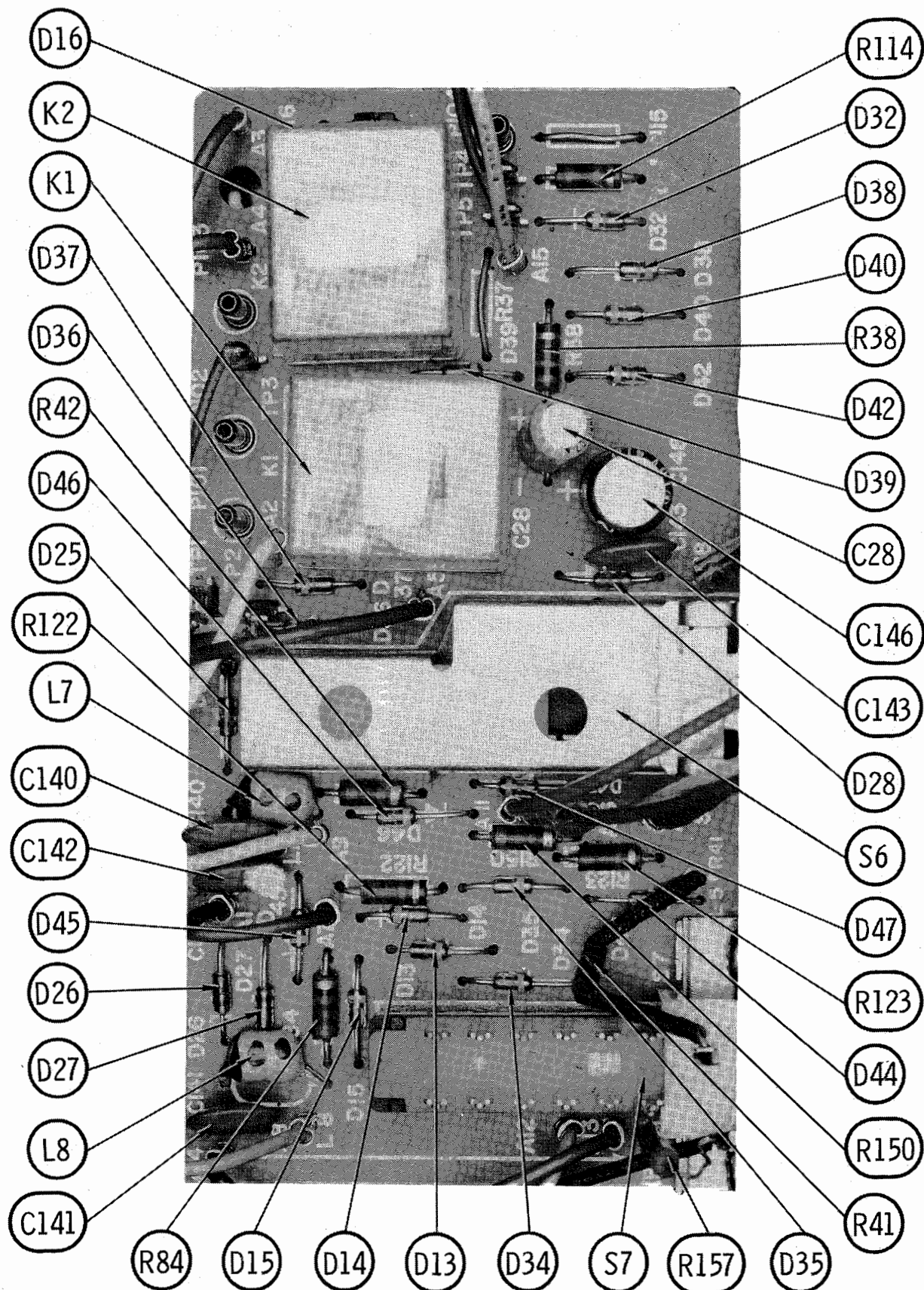


REALISTIC MODEL TRC-49









PARTS LIST AND DESCRIPTION

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

WIRING DATA

General-use Hook-up Wire	Use BELDEN No.	8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	Use BELDEN No.	8214 Lowest-loss (RG-8/U Type) 8237 Low-loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No.	8497 3-Conductor, 1 Shielded, for Press-to-Talk (Neoprene) 8496 3-Conductor, 1 Shielded, for Press-to-Talk (Vinyl)
Ignition Noise Suppression	Use BELDEN No.	7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No.	8661 (3/8 In.)

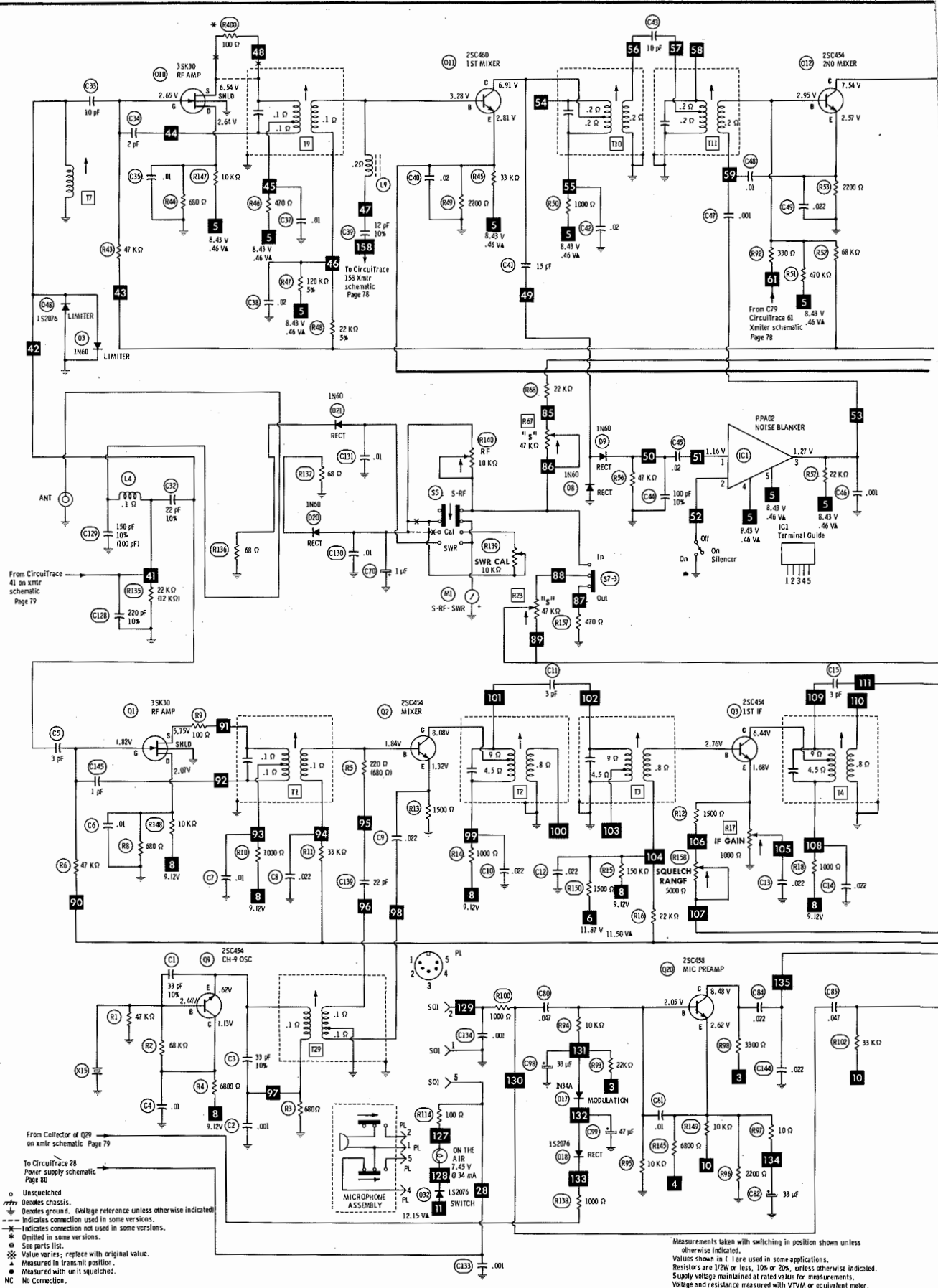
SEMICONDUCTORS

ITEM No.	TYPE / MFR. No. / PART No.	REPLACEMENT DATA						
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D2	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D3	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D4	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D5	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D6	1N34A/0575001	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D7	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D8	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D9	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D10	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D11	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D12	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D13	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D14	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D15	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D16	W06A/5330341	GE-504A	804 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D17	1N34A/0575001	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D18	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D20	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D21	1N60/0575005	1N60	1N60	PTC206	HEP135	SK3088		ECG 109
D22	W06A/5330341	GE-504A	804 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D23	V03C/5330001	GE-504A	804 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D24	V03C/5330001	GE-504A	804 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D25	HZ-9/5330322 (9V Zener)	GEZD-9.1(10)	Z1208 (10)	PTC505 (10)	HEPZ0412(10)	SK3060 (10)	RT240 (10)	ECG 139 (10)
D26	HZ-9/5330322 (9V Zener)	GEZD-9.1(10)	Z1208 (10)	PTC505 (10)	HEPZ0412(10)	SK3060 (10)	RT240 (10)	ECG 139 (10)
D27	HZ-9/5330322 (9V Zener)	GEZD-9.1(10)	Z1208 (10)	PTC505 (10)	HEPZ0412(10)	SK3060 (10)	RT240 (10)	ECG 139 (10)
D28	HZ-9/5330322 (9V Zener)	GEZD-9.1(10)	Z1208 (10)	PTC505 (10)	HEPZ0412(10)	SK3060 (10)	RT240 (10)	ECG 139 (10)
D29	W06A/5330341	GE-504A	804 or 5A4D	PTC201 or PTC202	HEPR0052	SK3030 or SK3031	RT213 or RT214	ECG 116 or ECG 117
D30	1N34/0575001	1N34AS	1N34A	PTC207	HEP134	SK3087		ECG 109
D32	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D34	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D35	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D36	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D37	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D38	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D39	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D40	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D41	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D42	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D43	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D44	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D45	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D46	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D47	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
D48	1S2076/5330131	GE-300	D200	PTC214	HEPR0602	SK3100	RT218	ECG 177
IC1	1CPPA02/5353002							
IC2	FA6007D/5353021							
Q1	3SK30/5320032				HEPF2005	SK3116		ECG 220
Q2	2SC454/0573492	GE-20	TR-21	PTC115	HEP54	SK3018	RT107	ECG 108
Q3	2SC454/0573492	GE-20	TR-21	PTC115	HEP54	SK3018	RT107	ECG 108
Q4	2SC454/0573492	GE-20	TR-21	PTC115	HEP54	SK3018	RT107	ECG 108
Q5	2SC458/0573481	GE-10	IRTR-51	PTC139	HEP54	SK3122	RT105	ECG 123A
Q6	2SC458/0573481	GE-10	IRTR-51	PTC139	HEP54	SK3122	RT105	ECG 123A
Q7	2SC458/0573481	GE-10	IRTR-51	PTC139	HEP54	SK3122	RT105	ECG 123A
Q8	2SC458/0573481	GE-10	IRTR-51	PTC139	HEP54	SK3122	RT105	ECG 123A
Q9	2SC454/0573492	GE-20	TR-21	PTC115	HEP54	SK3018	RT107	ECG 108
Q10	3SK30/5320032				HEPF2005	SK3116		ECG 220
Q11	2SC460/0573487	GE-20	IRTR-62	PTC136	HEP53	SK3018	RT108	ECG 107
Q12	2SC454/0573492	GE-20	TR-21	PTC115	HEP54	SK3018	RT107	ECG 108
Q13	2SC454/0573492	GE-20	TR-21	PTC115	HEP54	SK3018	RT107	ECG 108
Q14	2SC454/0573492	GE-20	IRTR-51	PTC115	HEP54	SK3018	RT107	ECG 108
Q15	2SC458/0573481	GE-10	IRTR-51	PTC139	HEP54	SK3122	RT105	ECG 123A
Q16	2SC458/0573481	GE-10	IRTR-62	PTC139	HEP54	SK3122	RT105	ECG 123A
Q18	2SC460/0573487	GE-20		PTC136	HEP53	SK3018	RT108	ECG 107
Q19	2SC454/0573492	GE-20	IRTR-51	PTC115	HEP54	SK3018	RT107	ECG 108
Q20	2SC458/0573481	GE-10	IRTR-51	PTC139	HEP54	SK3122	RT105	ECG 123A
Q21	2SC458/0573481	GE-10	IRTR-51	PTC139	HEP54	SK3122	RT105	ECG 123A
Q22	2SC1061/5320671	GE-66	IRTR-76	PTC110	HEPS5003	SK3041	RT150	ECG 152
Q23	2SC1061/5320671	GE-66	IRTR-76	PTC110	HEPS5003	SK3041	RT150	ECG 152
Q24	2SC454/0573492	GE-20	TR-21	PTC115	HEP54	SK3018	RT107	ECG 108
Q25	2SC454/0573492	GE-20	TR-21	PTC115	HEP54	SK3018	RT107	ECG 108
Q26	2SC717/5320051	GE-17	IRTR-62	PTC101	HEP720	SK3039	RT107	ECG 108
Q27	2SC150T/0573517	GE-18	TR-25	PTC127	HEP75	SK3046	RT114	ECG 128
Q28	2SC781/5320501		IRTR-87		HEPS3001	SK3048		ECG 195
Q29	2SC799/5320511		IRTR-65		HEPS3002	SK3049		ECG 195

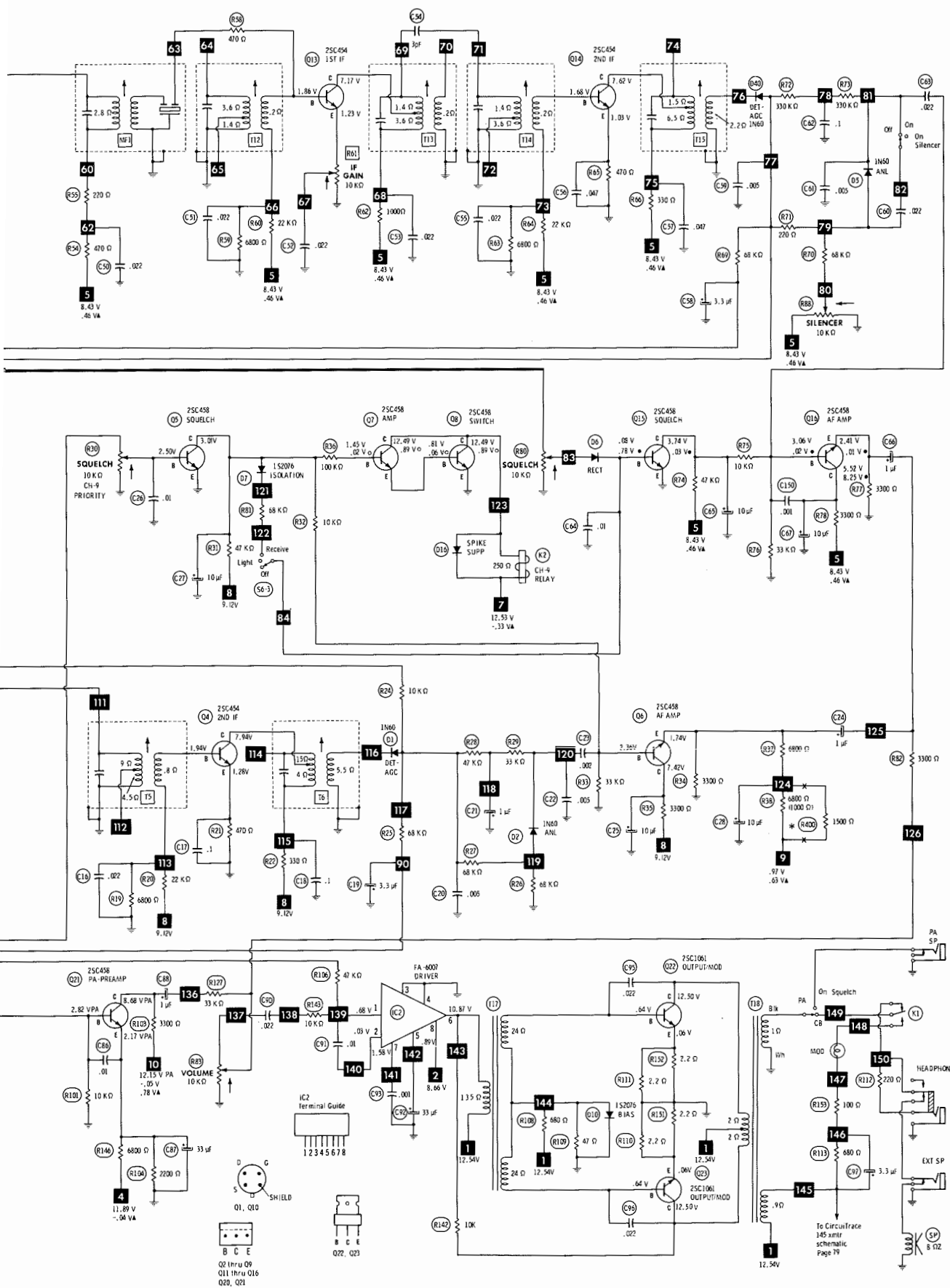
(10) Zener

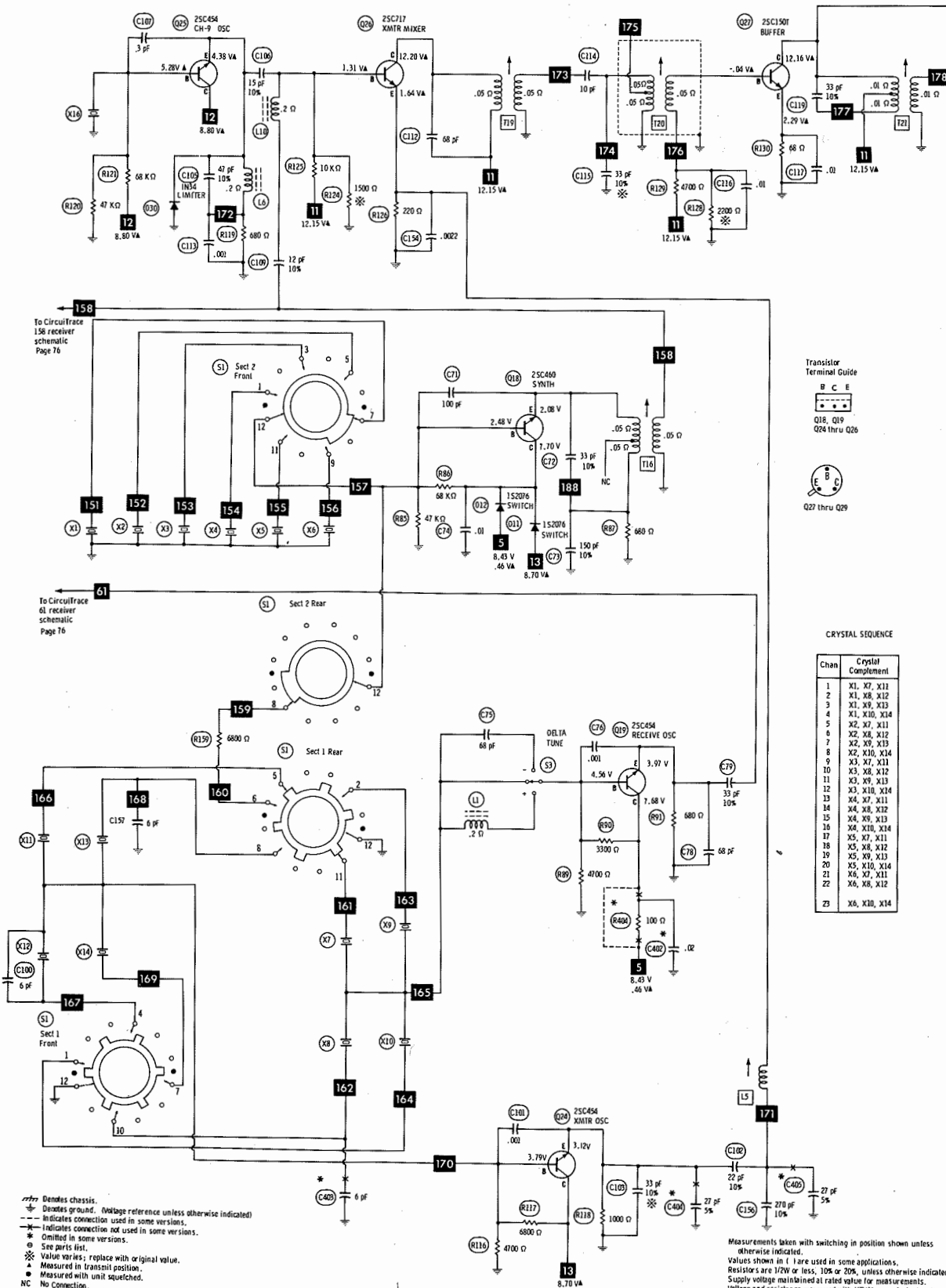
(CONTINUED ON PAGE 81)

REALISTIC MODEL TRC-49



A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CircuitTrace**
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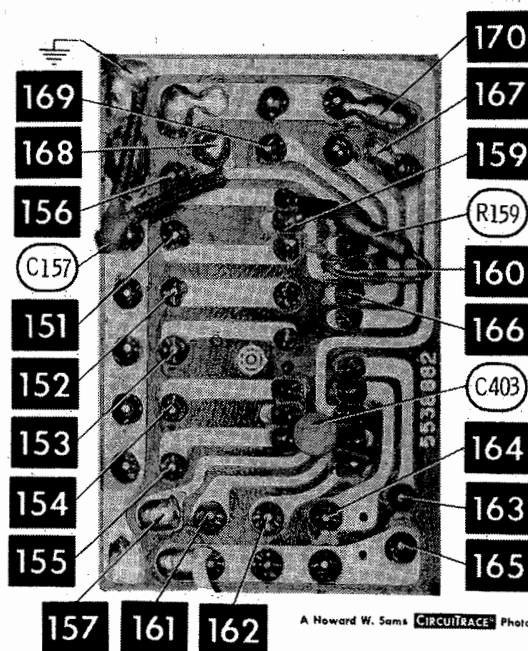
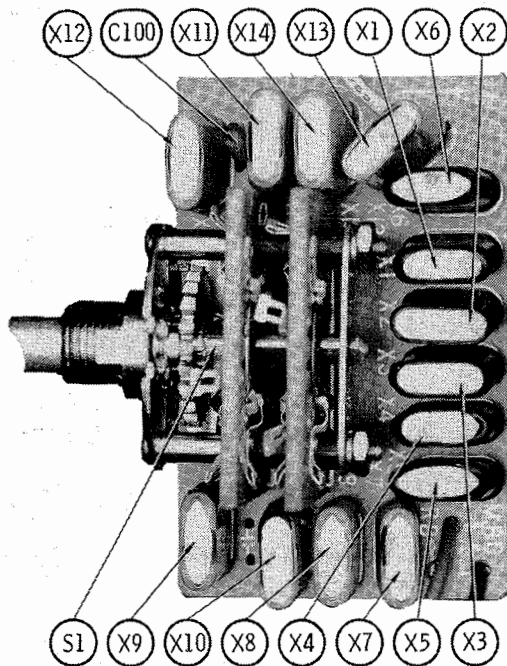
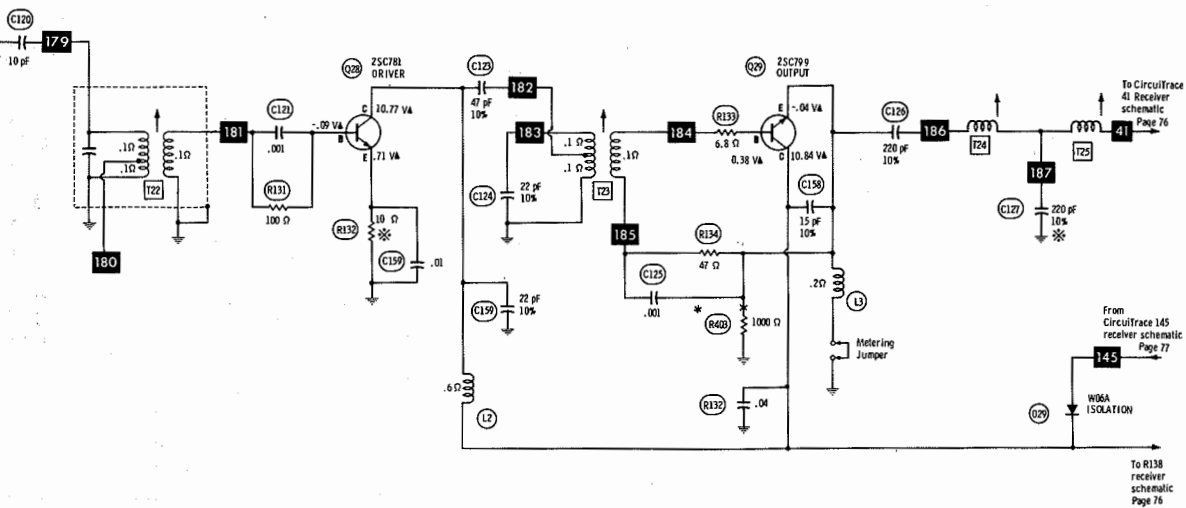




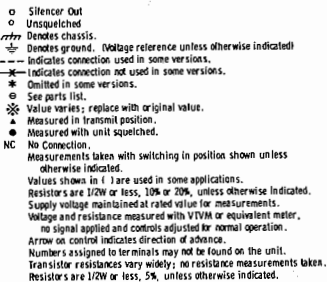
A PHOTOFACT STANDARD NOTATION SCHEMATIC

with **CircuitTrace**

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A Howard W. Sams CIRCUITRACE Photo

**REALISTIC MODEL TRC-49**

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C19	3.3 25V	0252613	RME-A-H-003	EP30-5	WBR5-50	VTT3R3A50	EV-1618
C21	1 25V	0252611	RME-A-G-001	EP30-2	PC1-50	MTV1CB50	EV-1315
C24	1 25V	0252611	RME-A-G-001	EP30-2	PC1-50	MTV1CB50	EV-1315
C25	10 25V	0252621	RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C27	10 25V	0252621	RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C28	10 25V	0252621	RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C31	33 25V	0252623	ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C58	3.3 25V	0252613	RME-A-H-003	EP30-5	WBR5-50	VTT3R3A50	EV-1618
C65	10 25V	0252621	RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C66	1 25V	0252611	RME-A-G-001	EP30-2	PC1-50	MTV1CB50	EV-1315
C67	10 25V	0252621	RME-B-G-010	EP30-10	PC10-25	VTT10A25	EV-1322
C69	33 25V	0252623	ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C70	1 25V	0252611	RME-A-G-001	EP30-2	PC1-50	MTV1CB50	EV-1315
C82	33 25V	0252623	ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C87	33 16V	0251080	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C88	1 25V	0252611	RME-A-G-001	EP30-2	PC1-50	MTV1CB50	EV-1315
C89	100 16V	0252531	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C92	33 16V	0251080	ME-3-E-035	EP15-25	PC30-25	MTV30CB25	EV-1325
C94	100 16V	0252531	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230
C97	3.3 25V	0252613	RME-A-H-003	EP30-5	WBR5-50	VTT3R3A50	EV-1618
C98	33 25V	0252623	ME-4-G-035	EP30-25	PC30-25	MTV30CB25	EV-1325
C99	47 16V	0252525	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C135	1000 16V	0256010	RME-N-E-1000	EA15-1000	PC1000-16	TC1501B	EV-1260
C137	4000 25V	0259704	MEG-4000		BB0072A	FP060.4A	TVL-1246
C146	47 16V	0252525	RME-E-E-050	EP15-50	PC50-16	MTV50CB15	EV-1226
C151	100 16V	0252531	RME-E-E-100	EP15-100	PC100-16	MTV100CD15	EV-1230

REALISTIC MODEL TRC-49

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENDO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	33	10%	CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C2	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C3	33	10%	CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C4	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C5	3						10TCC-V30
C6	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C7	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C8	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C9	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C10	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C11	3						10TCC-V30
C12	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C13	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C14	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C15	3						10TCC-V30
C16	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C17	.1 50V		1DP-2-104		DPMS2P1	EWFA010	225P10491WD3
C18	.1 50V		1DP-2-104		DPMS2P1	EWFA010	225P10491WD3
C20	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C22	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C23	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C26	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C30	.02		CCD-203	DD-203	GP120	GP120	10TS-S20
C32	22		CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C33	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C34	2			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C35	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C37	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C38	.02		CCD-203	DD-203	GP120	GP120	10TS-S20
C39	12	10%	CCTO-120	DD-203	NP012	CN0412	10TCC-Q12
C40	.02		CCD-203	DD-203	GP120	GP120	10TS-S20
C41	15		CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C42	.02		CCD-203	DD-203	GP120	GP120	10TS-S20
C43	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C44	100	10%	CCD-101	DD-101	GP100	GP310	10TS-T10
C45	.02		CCD-203	DD-203	GP120	GP120	10TS-S20
C46	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C47	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C48	.01 50V		1DP-1-103	CPR-100000	OPMS6S1	EWFA1A110	225P10391WD3
C49	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C50	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C51	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C52	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C53	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C54	3						10TCC-V30
C55	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C56	.047 50V		1DP-2-473		DPMS6S47	EWFA1A147	225P47391WD3
C57	.047 50V		1DP-2-473		DPMS6S47	EWFA1A147	225P47391WD3
C59	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C60	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C61	.005		CCD-502	DD-502	GP5000	JF250	10TS-D50
C62	.1		1DP-2-104		DPMS2P1	EWFA010	225P10491WD3
C63	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391WD3
C64	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C68	.02		CCD-203	DD-203	GP120	GP120	10TS-S20

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C71	100		CCD-101	DD-101	GP100	GP310	10TS-T10
C72	33		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C73	150	10%	CCD-151	DD-151	GP150	GP315	10TS-T15
C74	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C75	68			DTZ-68		CN0468	10TCC-Q68
C76	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C78	68			DTZ-68		CN0468	10TCC-Q68
C79	33	10%	CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C80	.047 50V		1DP-2-473		DPMS6S47	EWFA1A147	225P47391W03
C81	.01 50V		1DP-1-103	CPR-10000J	DPMS6S1	EWFA1A110	225P10391W03
C84	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391W03
C85	.047 50V		1DP-2-473		DPMS6S47	EWFA1A147	225P47391W03
C86	.01 50V		1DP-1-103	CPR-10000J	DPMS6S1	EWFA1A110	225P10391W03
C90	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391W03
C91	.01 50V		1DP-1-103	CPR-10000J	DPMS6S1	EWFA1A110	225P10391W03
C93	.001 50V		6DP-1-102	CPR-1000J	DPMS6D1	EWFA1A210	225P10291W03
C95	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391W03
C96	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391W03
C100	6	0248646			NP06		
C101	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C102	22	10%	CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C103	33	10%	CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C104	.02		CCO-203	DD-203		GP120	10TS-S20
C105	47	10%	CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C106	15	10%	CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C107	3						10TCC-V30
C108	.02		CCD-203	DD-203		GP120	10TS-S20
C109	12		CCTO-120		NP012	CN0412	10TCC-Q12
C111	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C112	68			DTZ-68		CN0468	10TCC-Q68
C113	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C114	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C115	33	10%	CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C116	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C117	.01		CCO-103	DD-103	GP10000	JF110	10TS-S10
C118	.01		CCO-103	DD-103	GP10000	JF110	10TS-S10
C119	33	10%	CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C120	10		CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C121	.001		CCO-102	DD-102	GP1000	GP210	10TS-D10
C122	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C123	47	10%	CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C124	22	10%	CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C125	.001		CCO-102	DD-102	GP1000	GP210	10TS-D10
C126	220	10%	CCO-221	DD-221	GP220	GP322	10TS-T22
C127	220	10%	CCD-221	DD-221	GP220	GP322	10TS-T22
C128	220	10%	CCD-221	DD-221	GP220	GP322	10TS-T22
C129	150	10%	CCO-151	DD-151	GP150	GP315	10TS-T15
C130	.01		CCO-103	DD-103	GP10000	JF110	10TS-S10
C131	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C132	.04			DD-403		GP140	
C133	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C134	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C136	.04			DD-403		GP140	
C138	.001 150VAC	0249711					
C139	22		CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C140	.02		CCD-203	DD-203		GP120	10TS-S20
C141	.02		CCO-203	DD-203		GP120	10TS-S20
C142	.02		CCD-203	DD-203		GP120	10TS-S20
C143	.02		CCD-203	DD-203		GP120	10TS-S20
C144	.022 50V		1DP-1-223		DPMS6S22	EWFA1A122	225P22391W03
C145	1					CN0510	10TCC-V10
C147	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C148	.01		CCO-103	DD-103	GP10000	JF110	10TS-S10
C150	.001		CCO-102	DD-102	GP1000	GP210	10TS-D10
C154	.0022 50V		1MDP-1-222	CPR-2200J	DPMS6D22	EWFA1A222	1PB-022
C156	270	10%	CCD-270	DD-271	GP270	GP327	10TS-T27
C157	6	0248646			NP06		
C158	15	10%	CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C159	22	10%	CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C402	.02		CCD-203	DD-203		GP120	10TS-S20
C403	6				NP06		
C404	27	5%	CCTO-270		NP027	CN0427	10TCC-Q27
C405	27	5%	CCTO-270		NP027	CN0427	10TCC-Q27

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R17	RF Gain	1000	0151883	TSV-1K(1) or T-1000(1)	C-102 (1)	X201R102B (1)	MTC13L1 (1)
R23	"S" Meter	47K	0151888	TSV-50K(1) or T-50K(1)	C-503 (1)	X201R503B (1)	MTC54L1 (1)
R30	Squelch	10K	0153449	F1-10K(2), SSK014	A47-10K-S(2), KSS-3 or [NP-10K-S(2), UP-C-400]	Q11-116(2) or [BU1(2), CF9, SS1, DC1]*	RU14L, SL36, SL3250 or UA14L(2), SK1000, or U20(2)
R61	Gain	1000	0151883	TSV-1K(1) or T-1000(1)	C-102 (1)	X201R102B (1)	MTC13L1 (1)
R67	"S" Meter	47K	0151888	TSV-50K(1) or T-50K(1)	C-503 (1)	X201R503B (1)	MTC13L1 (1)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R80 R83	Squelch/PA-Switch Volume/Power Switch	10K 10K	0153764 0153725	F2-10K(2), SSK014, KR-1	A47-10K-Z(2), KSS-3, SWE-12 or [NP-10K-Z(2), UP-C-400, NWE-12]	Q13-116(2), 76-1 or [BU1(2), CF61, SS1, GC]*	RU14A, SL36, SL1500, US41 or [UA14A(2), SK1000, US41 or U18(2), US26]
R88 R139	Silencer SWR Cal.	10K 10K	0153764 0153449	F1-10K(2), SSK014	A47-10K-S(1), KSS-3 or [NP-10K-S, UP-C-400] C-103 (3)	Q11-116(2) or [BU1(2), CF9, SS1, OC1]*	RU14L, SL36, SL3250, or [UA14L(2), SK1000 or U20(2)]
R140	RF Meter	10K	0151886	TSV-10K(3) or T-10K(3)	C-502 (3)	X201R103B (3)	MTC14L1 (3)
R158	Squelch Range	5000	0151161	TSV-5K(3) or T-5000 (3)		X201R502B (3)	MTC53L1 (3)

* "SNAPTROL"

(1) Modify terminals to fit PC board.

(2) Enlarge mounting hole.

(3) Cut off one of the end terminals and bend to fit PC board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R110	2.2, 10% 1/2W		0134281	R151	2.2, 10% 1/2W		0134281
R111	2.2, 10% 1/2W		0134281	R152	2.2, 10% 1/2W		0134281
R133	6.8, 10% 1/4W		0131601				

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	RF Choke (2.2uh)	5152005	19-2011	74F226AP	T812
L2	RF Choke (3.3uh)	5120123	19-2012	74F336AP	T816
L3	RF Choke (2.2uh)	0318546	19-2011	74F226AP	T812
L4	RF Choke (.33uh)	5150071	19-2004	4586	T811
L5	RF Choke (.8uh)	0317180			
L6	RF Choke (1.0uh)	5152001	19-1000	74F106AP	T806
L7	RF Choke (12uh)	5152015		72F125AP	
L8	RF Choke (12uh)	5152015		72F125AP	
L9	RF Choke (1.0uh)	5152001	19-1000	74F106AP	T806
L10	RF Choke (1.0uh)	5152001	19-1000	74F106AP	T806
MF1	2nd Mixer	5132081		8814	
T1	Ch. 9 RF Amp	0317175			
T2	Ch. 9 1st Mixer	5136041			
T3	Ch. 9 1st Mixer	5136041			
T4	Ch. 9 Input IF	5136041			
T5	Ch. 9 Interstage IF	5136041			
T6	Ch. 9 Output IF	5136042			
T7	Ant. Matching	5123008			
T9	RF Amp	0317175			
T10	1st Mixer	0322341			
T11	1st Mixer	0322341			
T12	Input IF	0322146	19-9027	2067	
T13	Interstage IF	0322146	19-9027	2067	
T14	Interstage IF	0322146	19-9027	2067	
T15	Output IF	5132031			
T16	Synthesizer	0317194			
T19	Mixer Output	0317192			
T20	Buffer Input	0317193			
T21	Buffer Output	0317194			
T22	Driver Input	0317175			
T23	Driver Output	0317195			
T24	Ant. Match	0317196			
T25	Ant. Match	5123007			
T29	Ch. 9 Osc.	0371179			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T26	.82A	.4	3.7mH	5250132 (CB-2151)				
T27	.90A	.5	7.3mH	5220071 (CB-2152)				

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
T17	25	1	1	0441114 (441114)				

REALISTIC MODEL TRC-49

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T18	32	8	0452047				

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T28	120VAC @ .117A	22.7VAC CT @ .84A	5211103 (TA-0333)				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3 x 5" PM, 8 ohms	5410712 (S-4360)	35A05Z8	

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 Fast Acting	0591138 (HF-0016)		AGC2	HDJ	312002	150145	F62-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	5640061 (R-8049)	Rec/Xmit
K2	Relay	5640061 (R-8049)	Channel 9
MF1	Mechanical Filter	5132081 (CB-2026)	455kHz
S1	Switch	5610661 (S-1078)	Channel Selector
S3	Switch	0531175 (S-0503)	Delta Tune
S5	Switch	5620534 (S-0502)	S-RF,CAL,SWR
S6	Switch	(S-2152)	Channel 9 Priority Selector
S7	Switch	(S-7101)	Channel 9 Transmit (Out-In)
X1	Crystal	0599783	37.600MHz
X2	Crystal	0599784	37.650MHz
X3	Crystal	0599785	37.700MHz
X4	Crystal	0599786	37.750MHz
X5	Crystal	0599787	37.800MHz
X6	Crystal	0599788	37.850MHz
X7	Crystal	0599792	10.180MHz
X8	Crystal	0599791	10.170MHz
X9	Crystal	0599790	10.160MHz
X10	Crystal	0599789	10.140MHz
X11	Crystal	0599796	10.635MHz
X12	Crystal	0599795	10.625MHz
X13	Crystal	0599794	10.615MHz
X14	Crystal	0599793	10.595MHz
X15	Crystal	5780076	26.810MHz
X16	Crystal	0599770	27.065MHz

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

ITEM	PART No.	ITEM	PART No.
Cover, Top	6140182 (Z-1142)	Knob, Delta Tune	6261681 (K-0572)
Cover, Bottom	7189032 (Z-0960)	Knob, Silencer	6261681 (K-0572)
Knob, Channel	6264501 (K-0448)	Knob, Squelch	6261681 (K-0572)
Knob, Priority Selector	6261681 (K-0572)	Knob, Volume	6261681 (K-0572)
Knob, Priority Squelch	6261681 (K-0572)	Plate, Front	7206132 (Z-1147)
Knob, SWR Cal.	6261681 (K-0572)		

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	5420531	(M-2209)
DC Power Cord	5740703	(W-1193)
AC Power Cord	0593477	(W-1195)