



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.

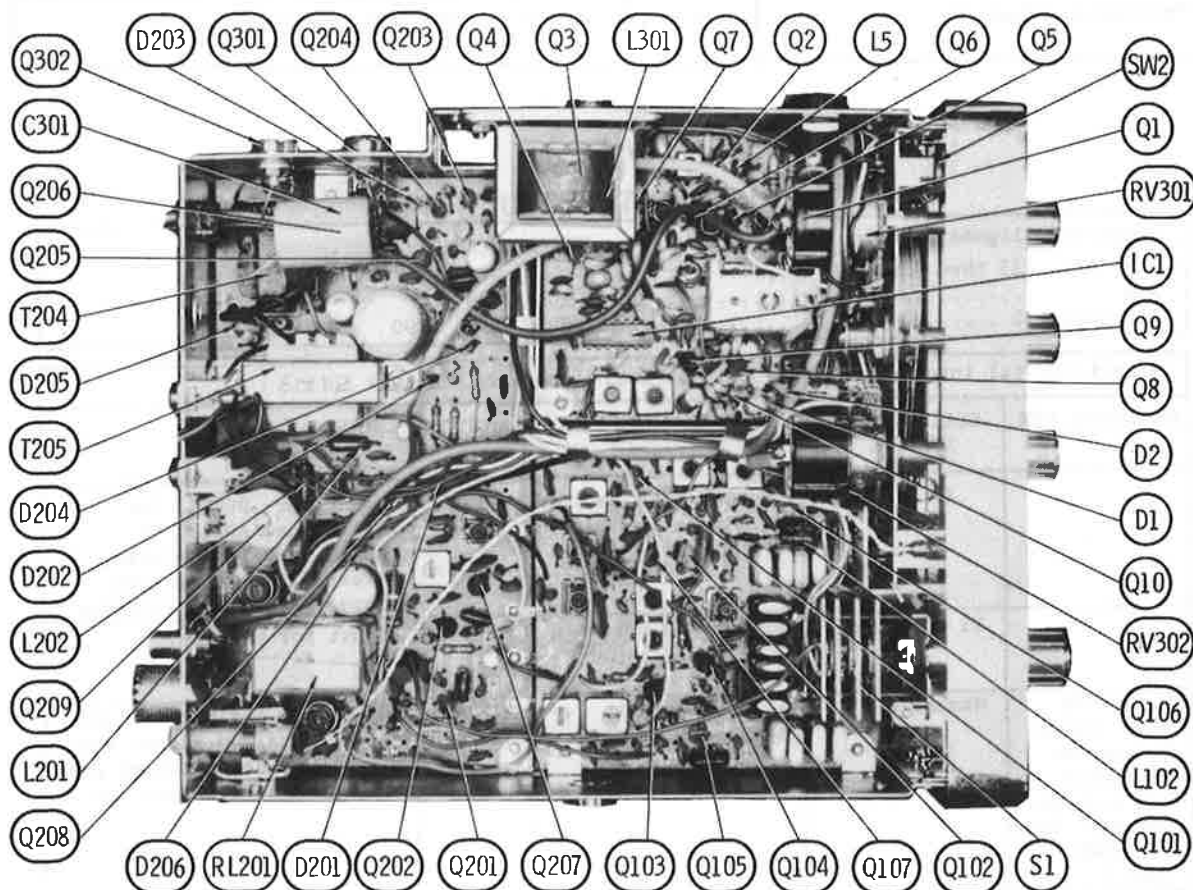
Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL CHIEF 23

COURIER MODEL CHIEF 23



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

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CB ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

A1 thru A3	GENERAL CEMENT:
A4 thru A16	#8868, 9089
	#8606L, 9440

RECEIVER

Connect an AC VTVM across speaker voice coil. Set Volume control fully clockwise and Squelch control full counter-clockwise.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to base of Q103 (2nd. Mixer), low side to chassis. Tune to 455KC (Mod.).	Any	A1 Thru A3	Adjust for maximum.
High side thru .01mfd to antenna receptacle; low side to chassis. Tune to 27.085MC (Mod.).	11	A4 Thru A9	Adjust for maximum.

TRANSMITTER

INDICATOR	ADJUST	REMARKS
Field Strength Meter or RF wattmeter, 0-500ma DC Ammeter.	A10 Thru A15	Connect Ammeter in series with collector of Q209 (Final Amp). Adjust for maximum output and MINIMUM current.
Television (Chan. 2)	A16	Adjust for MINIMUM interference.

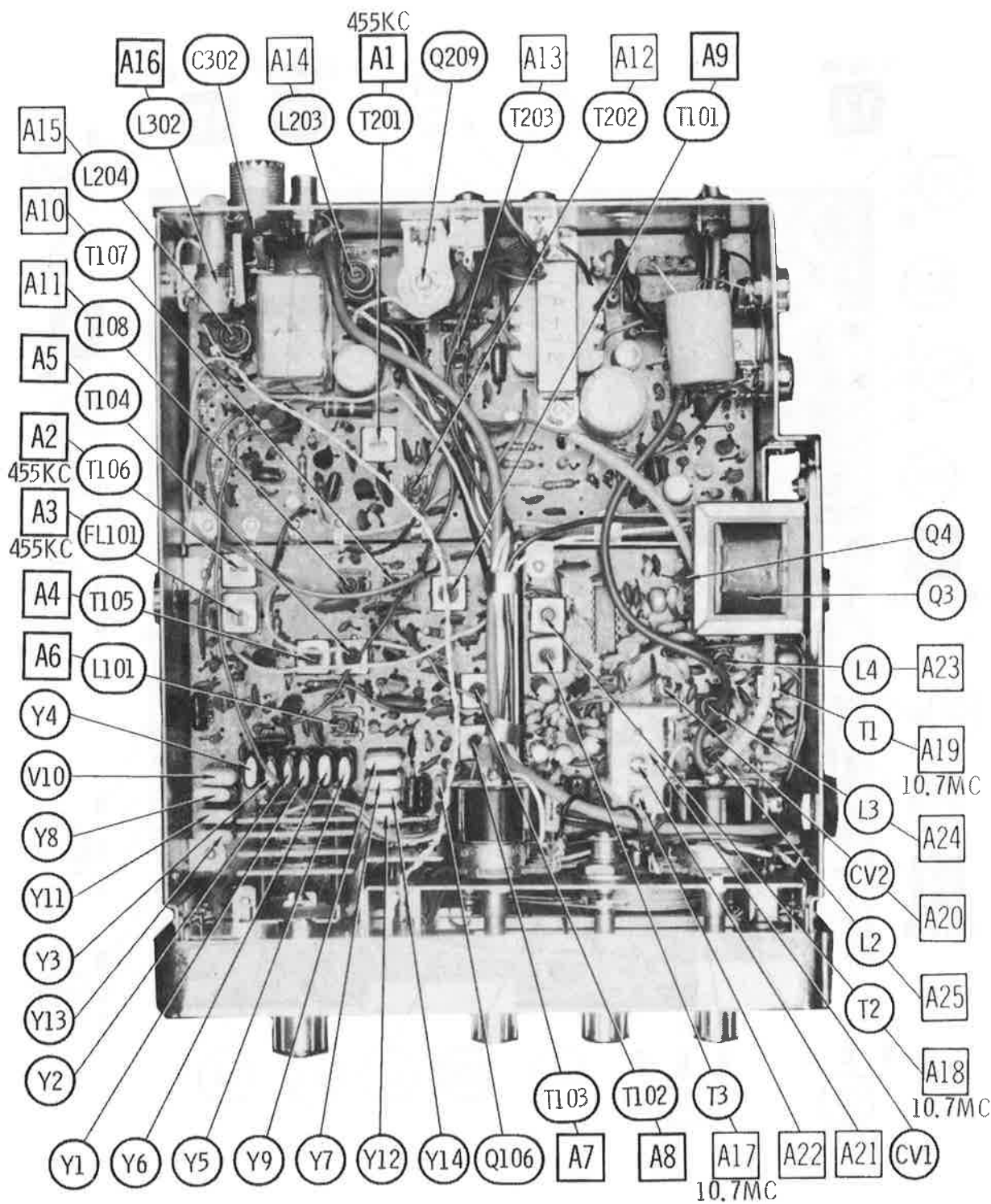
VHF ALIGNMENT INSTRUCTIONS

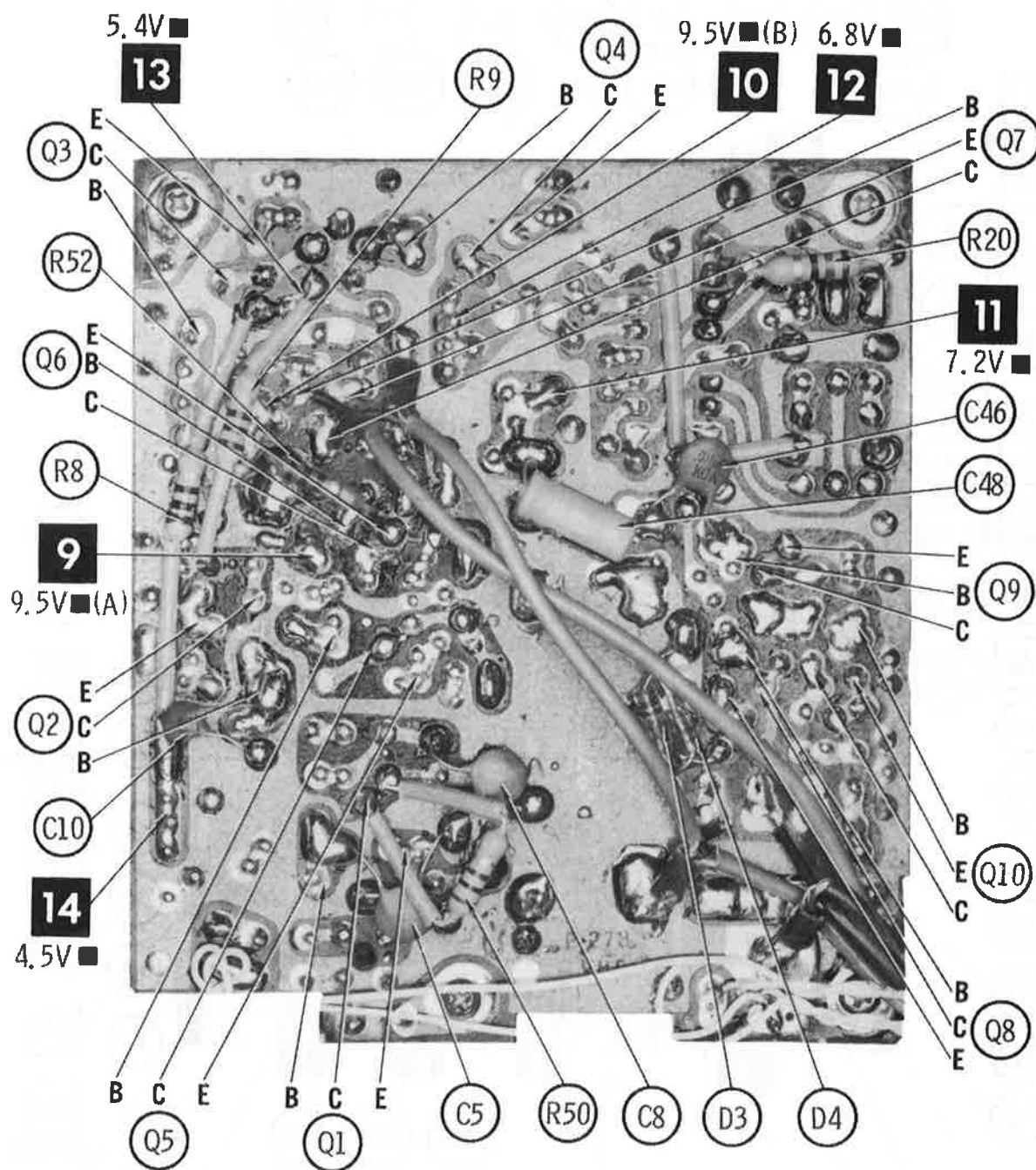
Suggested Alignment Tools:

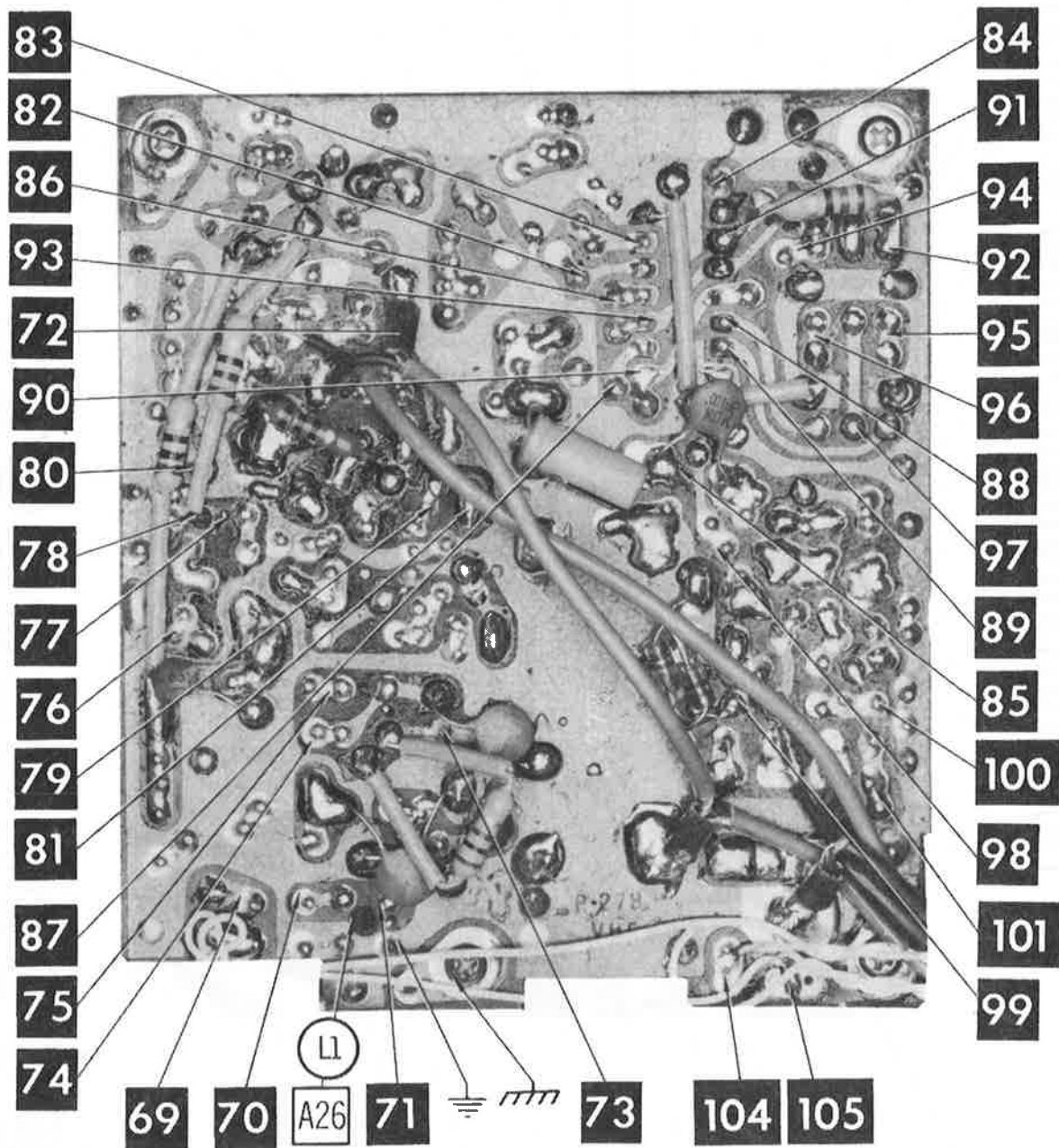
A17, A18, A23 thru A26	GENERAL CEMENT:
A19	#8606L, 9440
A20 thru A22	#8868, 9089
	#8276, 8277, 8290

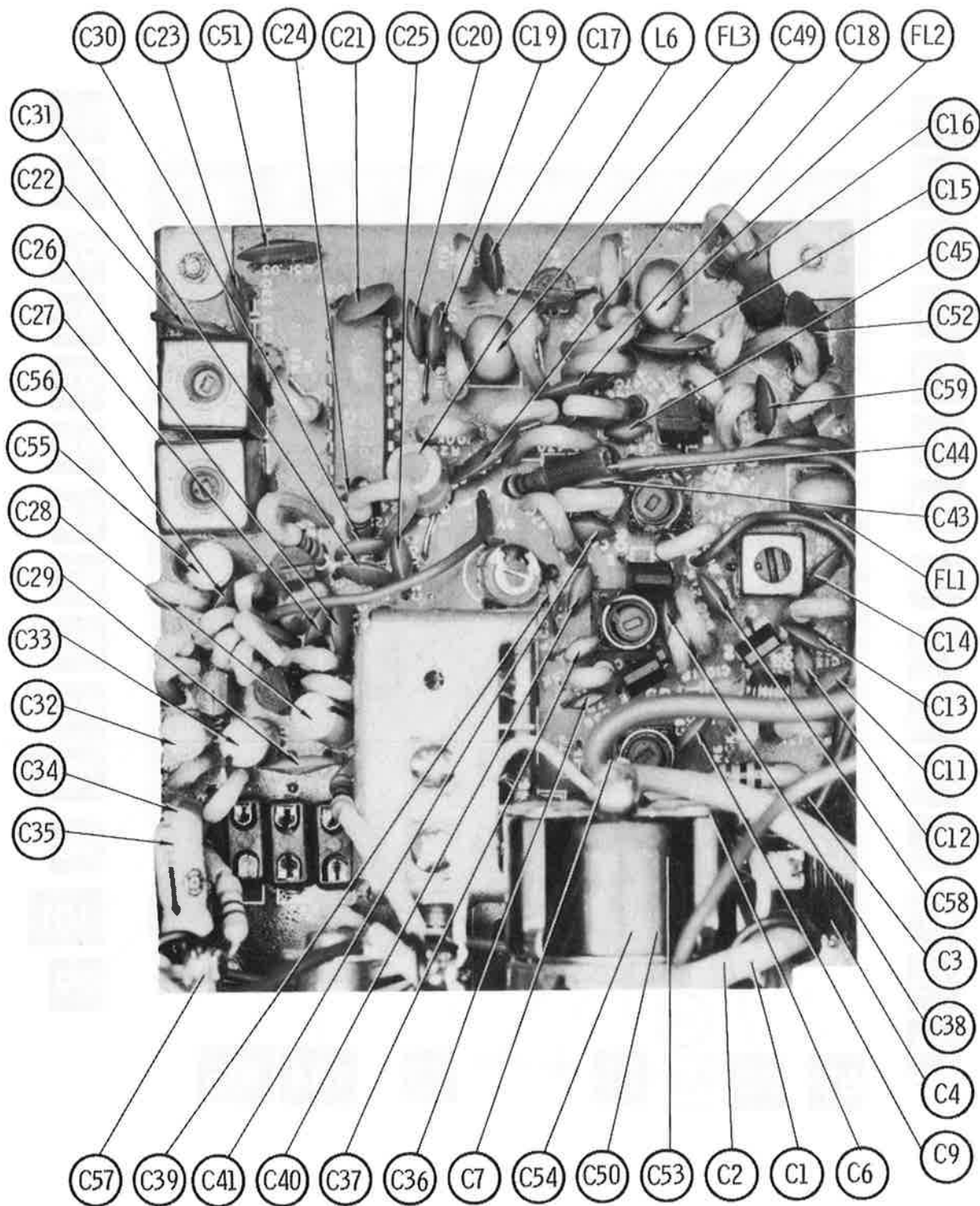
Insert Crystal into Crystal Socket. Set Xtal-Manual Switch (S2) to X1.

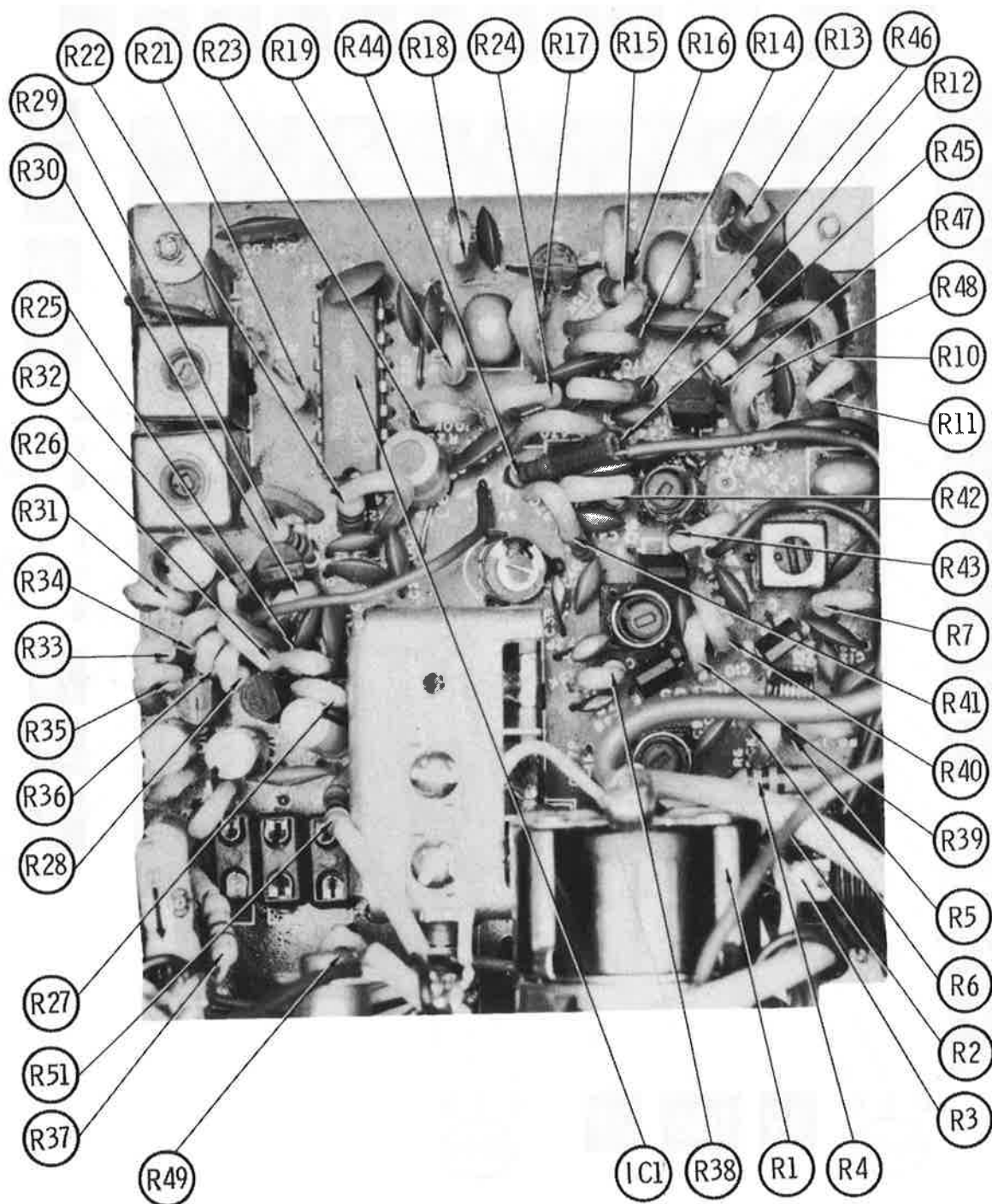
FM SIGNAL GEN.	XTAL-MANUAL SETTING	INDICATOR	ADJUST	REMARKS
	X1	DC VTVM from emitter of Q19 to ground.	A23	Adjust for .95VDC. Set Xtal-Manual switch to Manual, key Transmitter several times to ensure proper oscillator starting.
	X1 or Manual	Background Noise	A17,A18	Adjust for maximum.
High side thru .01mfd to antenna connector, low side to chassis. Tune to 150MC (Mod.).	Manual	AC VTVM across speaker Terminals.	A19,A24, A25,A26	Adjust for maximum. Adjust A26 for maximum signal and MINIMUM noise on center peak. Keep generator output low.
High side thru .01mfd to antenna connector, low side to chassis. Tune to 174MC (Mod.).	Manual	"	A20,A21, A22	Adjust for maximum signal and MINIMUM noise on center peak. Keep generator output low.

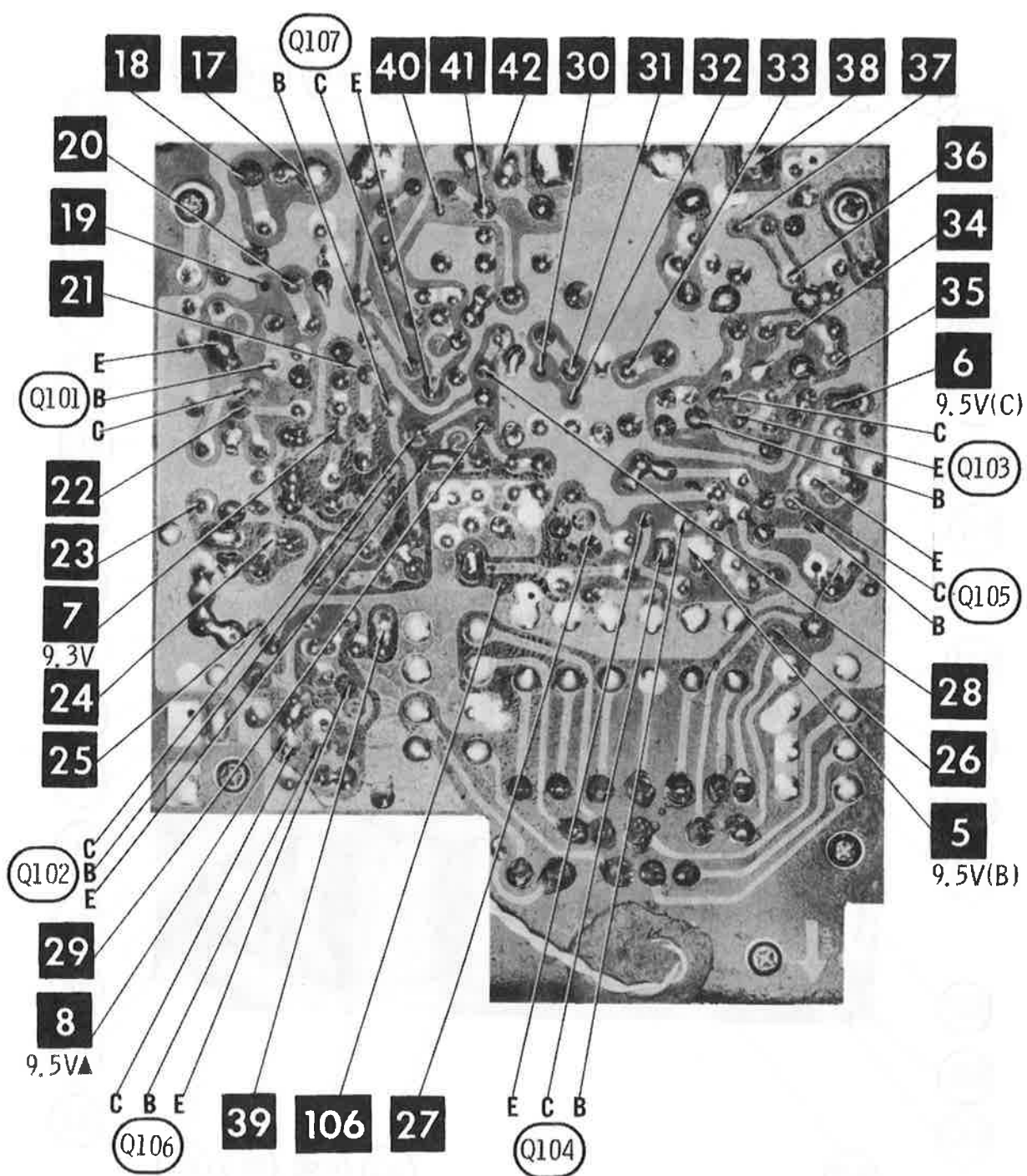


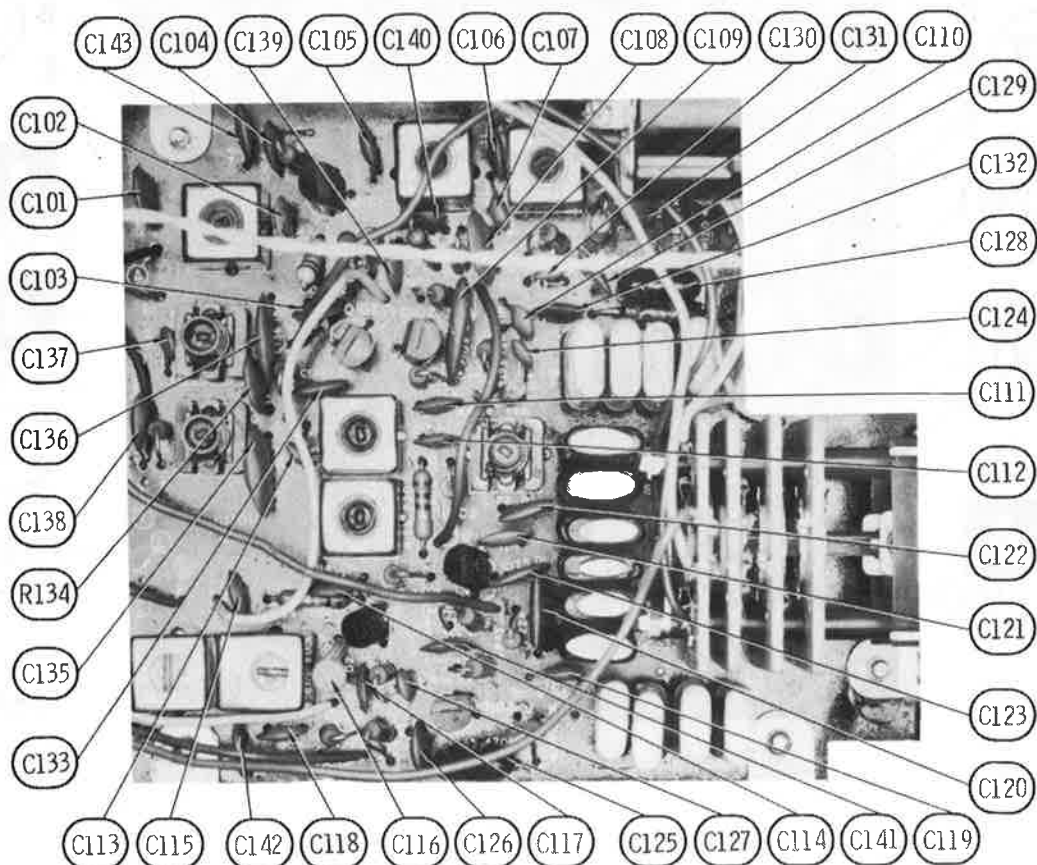
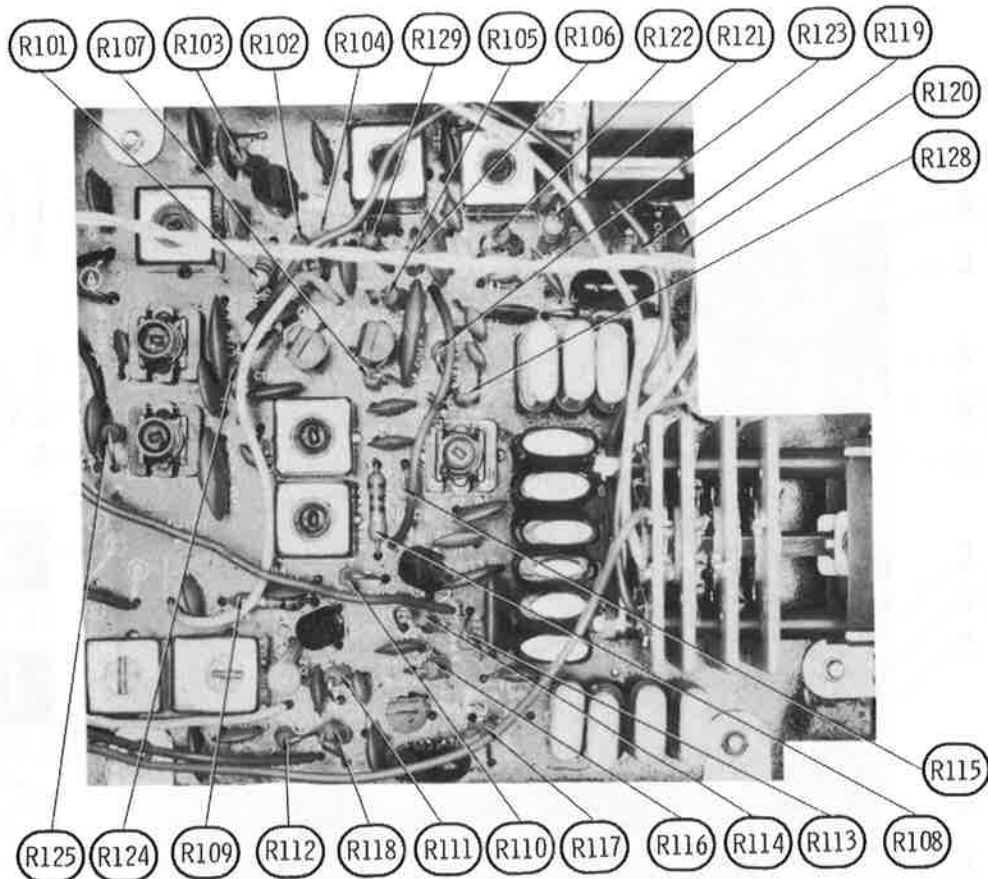


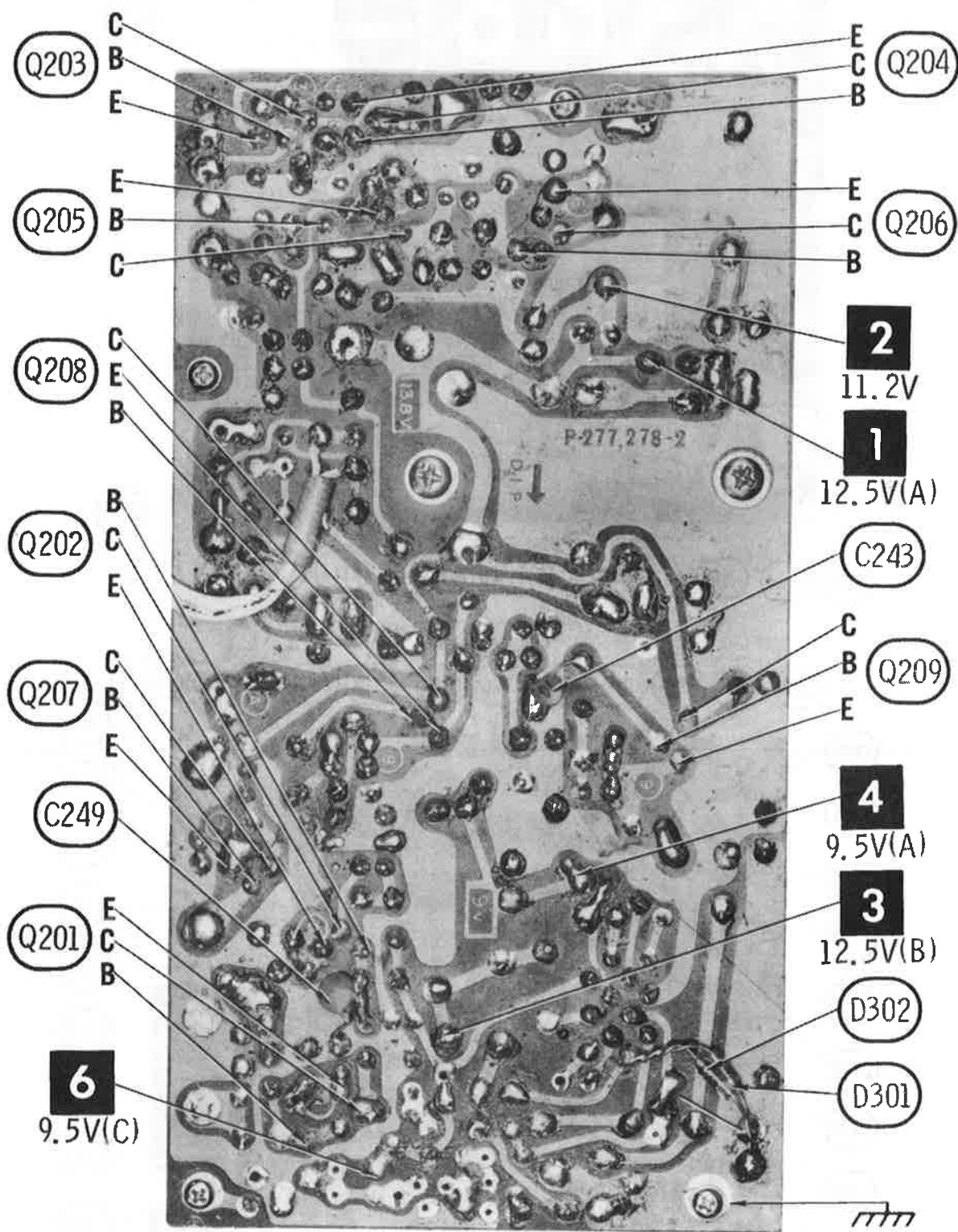






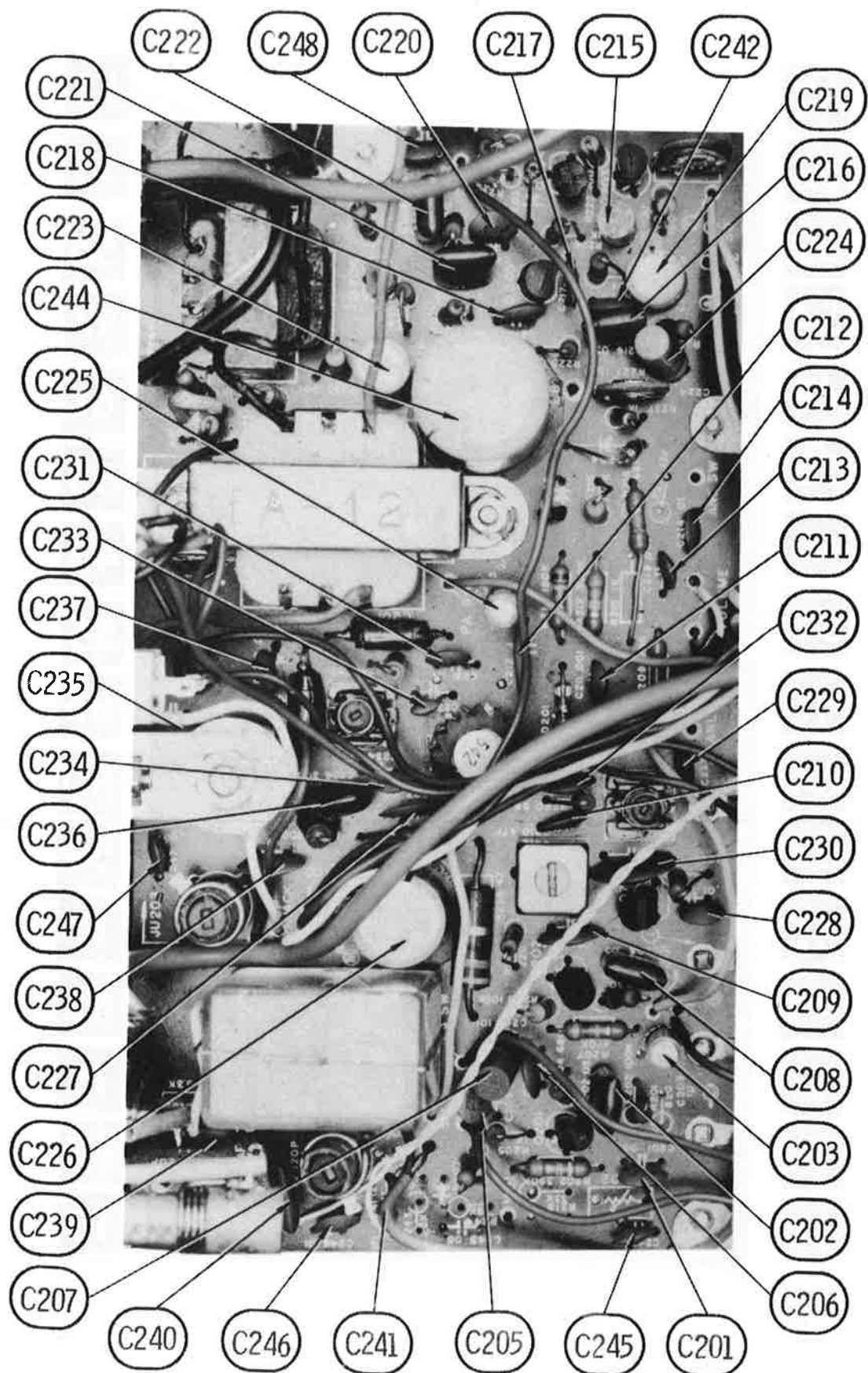


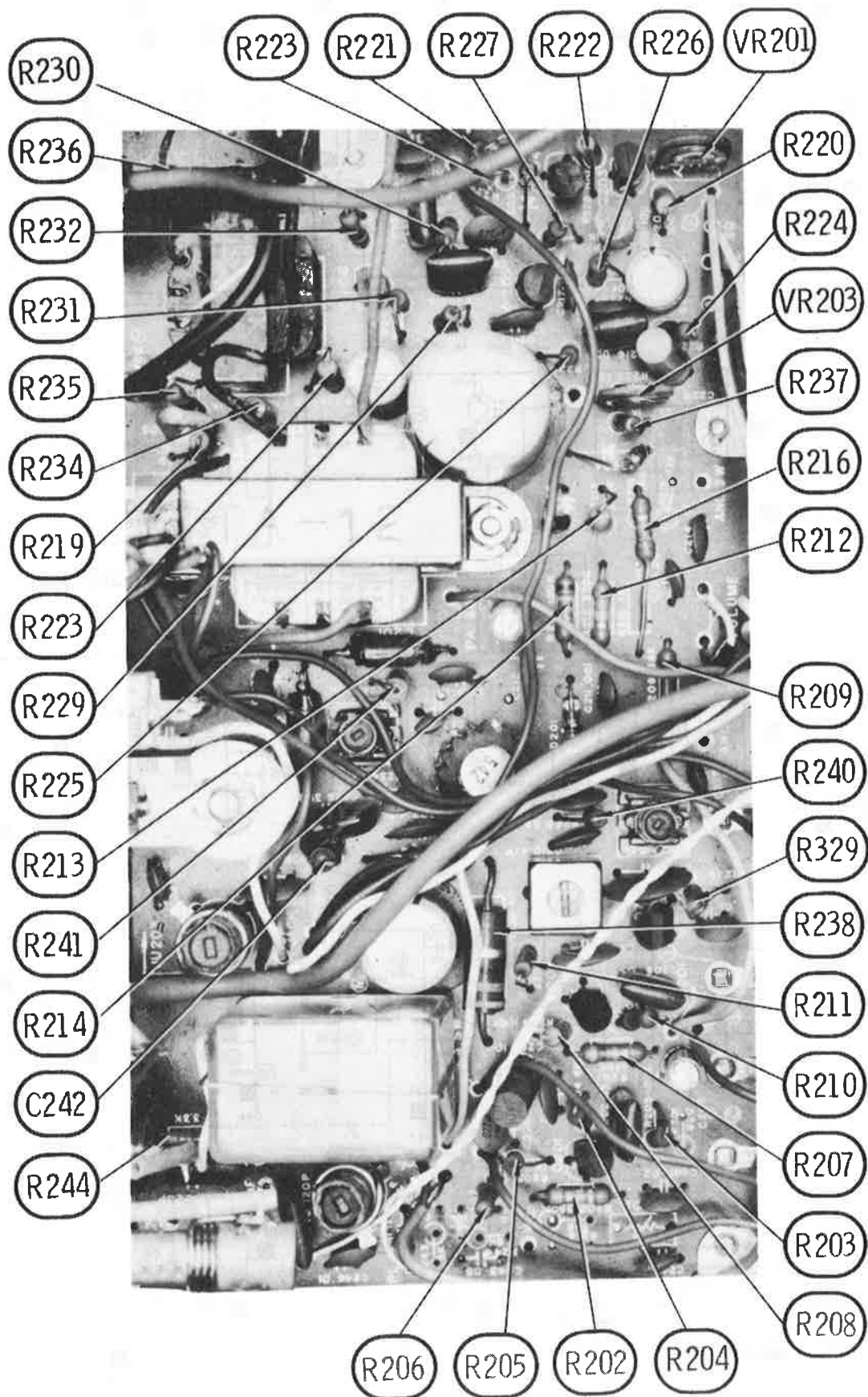


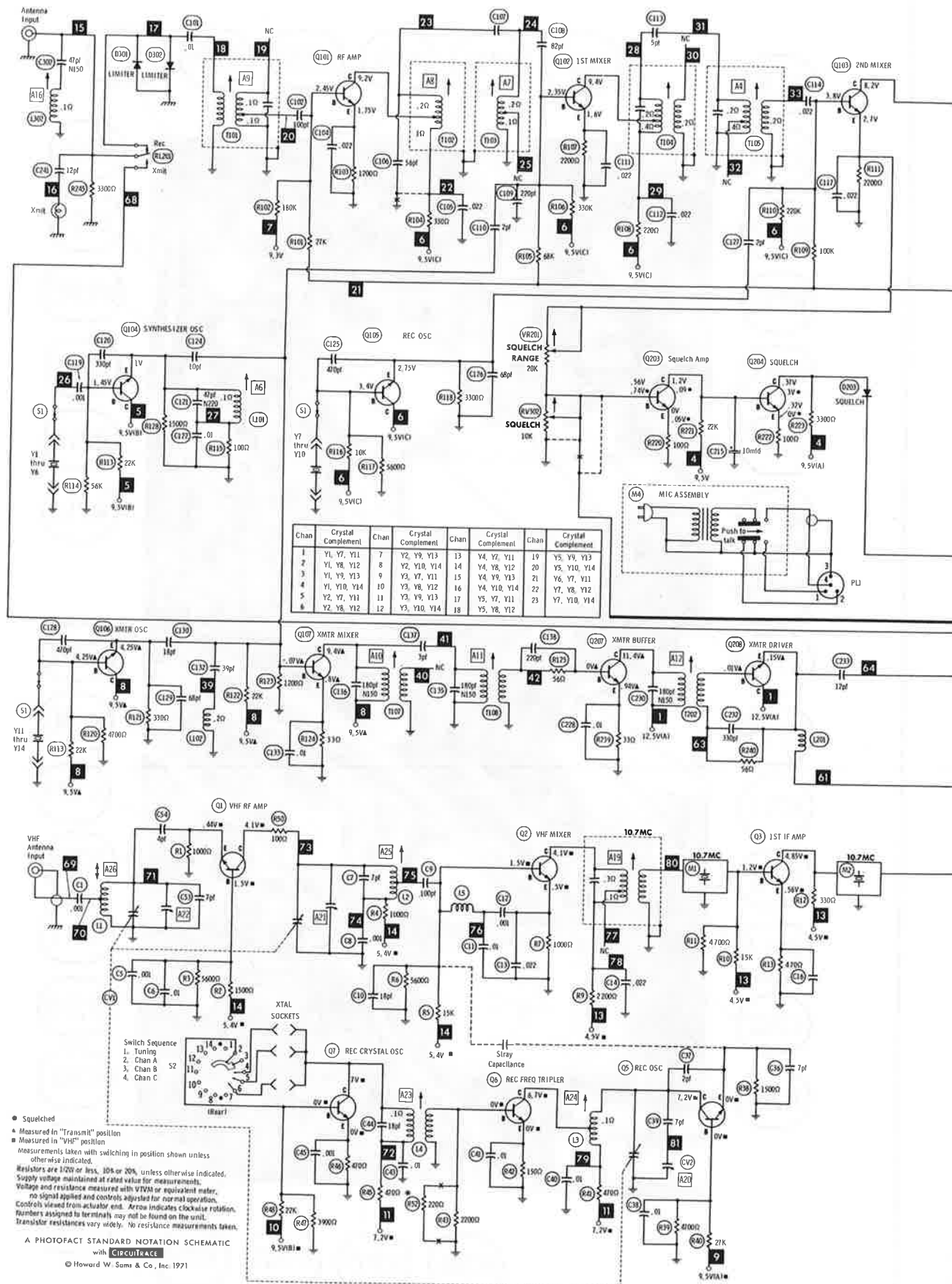


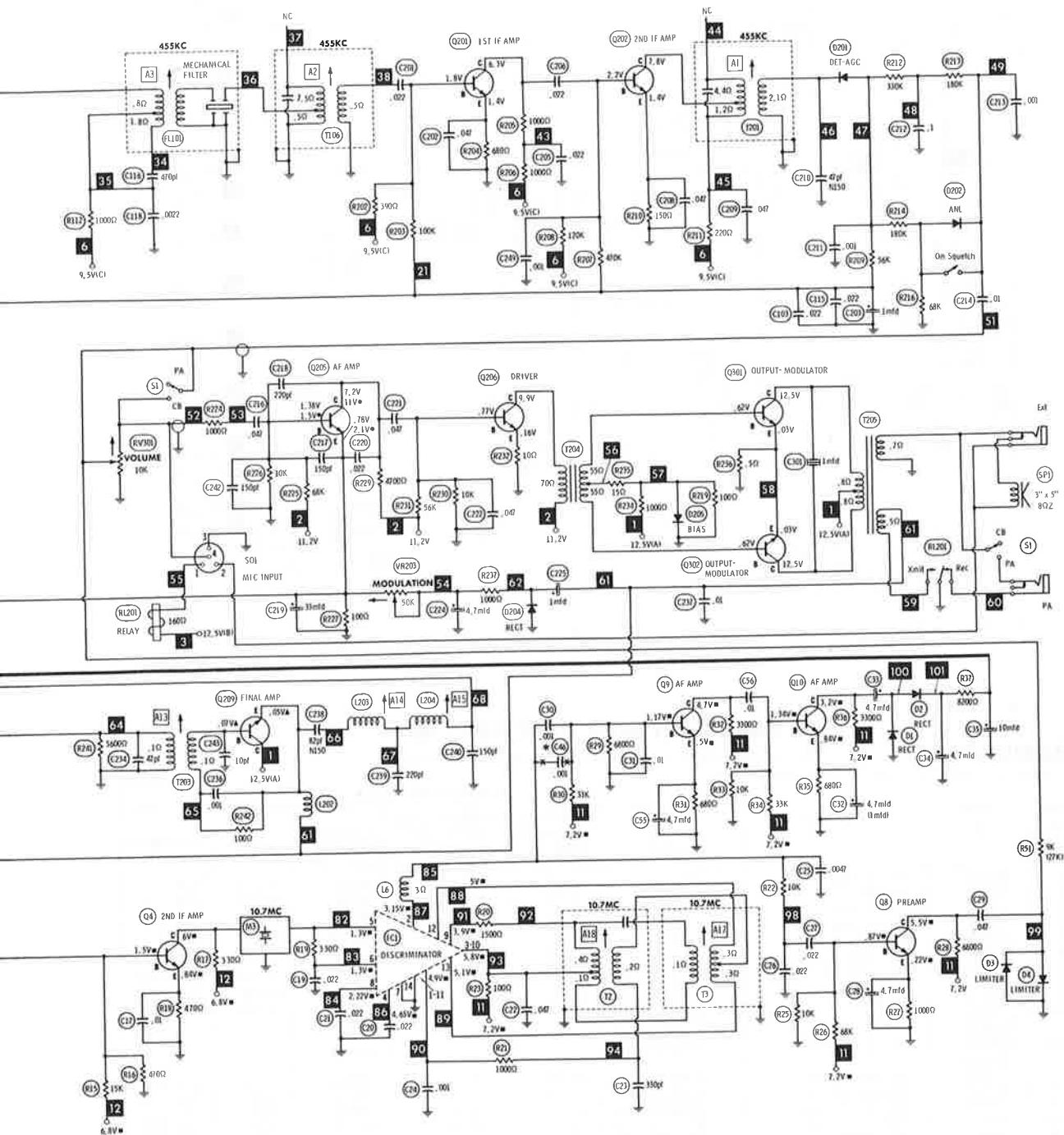


COURIER MODEL CHIEF 23

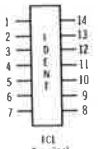
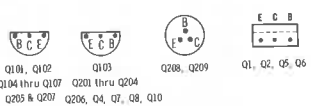




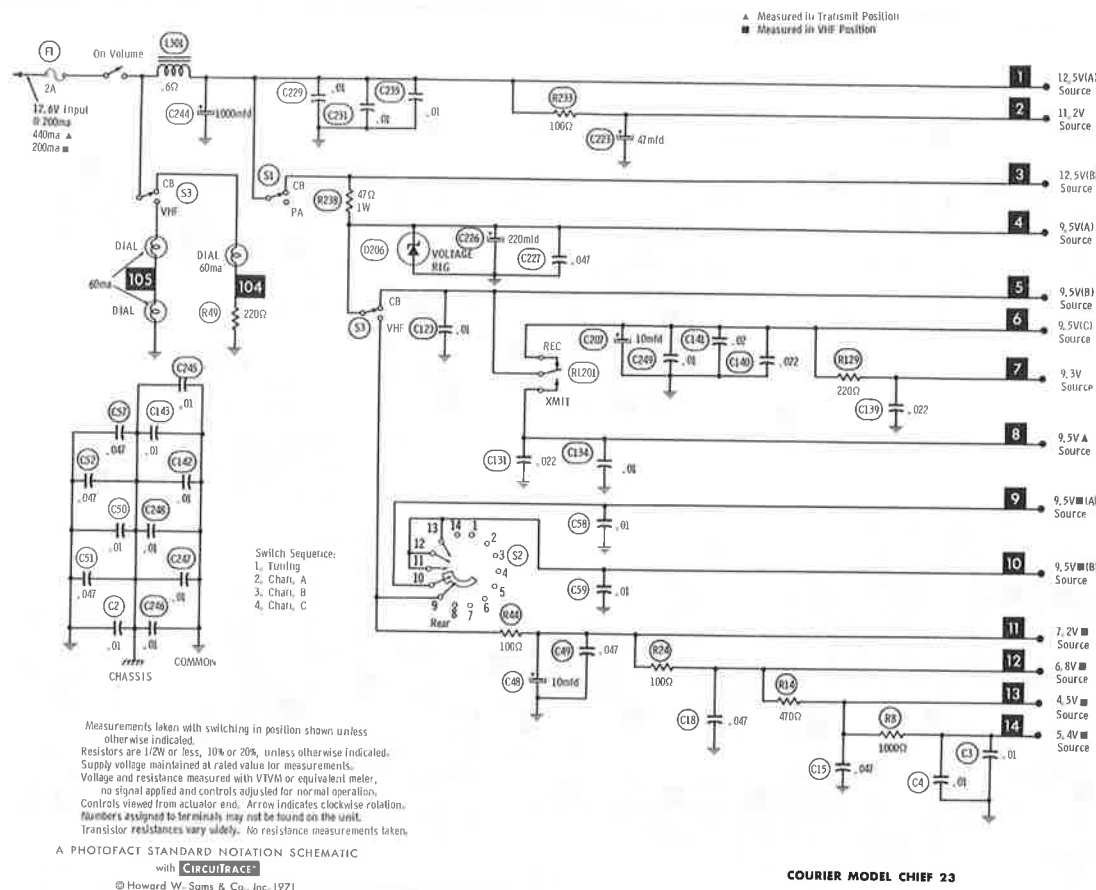




Transistor Terminal Guides



--- Indicates connection used in some versions.
 * Indicates connection not used in some versions.



PARTS LIST AND DESCRIPTION

TRANSISTORS

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

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q1	2SC535	VHF RF Amp	1003-01	GE-17	TR-22	HEP56	SK3018	ECG 107
Q2	2SC535	VHF Mixer	1003-01	GE-17	TR-22	HEP56	SK3018	ECG 107
Q3	2SC838	1st IF Amp	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q4	2SC828	2nd IF Amp	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q5	2SC535	Rec. Oscillator	1003-01	GE-17	TR-22	HEP56	SK3018	ECG 107
Q6	2SC535	Rec. Freq. Tripler	1003-01	GE-17	TR-22	HEP56	SK3018	ECG 107
Q7	2SC838	Rec. Crystal Osc.	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q8	2SC838	Preamp	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q9	2SC838	AF Amp	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q101	2SC763	RF Amp	9TR1/1001-01			HEP732		
	(2SC535)							
Q102	2SC763	1st Rec. Mixer	9TR1/1001-01			HEP732		
	(2SC535)							
Q103	2SC838	2nd Rec. Mixer	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q104	2SC710	Synthesizer Osc.	9TR3/1001-03	GE-17	TR-22	HEP56	SK3018	ECG 123A
Q105	2SC710	Rec. Oscillator	9TR3/1001-03	GE-17	TR-22	HEP56	SK3018	ECG 123A
Q106	2SC710	Xmtr Oscillator	9TR3/1001-03	GE-17	IRTR-62	HEP56	SK3046	ECG 123A
Q107	2SC710	Xmtr Mixer	9TR3/1001-03	GE-17	IRTR-62	HEP56	SK3046	ECG 123A
Q201	2SC838	1st IF Amp	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q202	2SC838	2nd IF Amp	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q203	2SC838	Squelch Amp	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q204	2SC838	Squelch	9TR2/1001-02	GE-10	TR-21	HEP728	SK3020	ECG 123A
Q205	2SC711	AF Amp	1001-04	GE-17	TR-25	HEP728	SK3020	ECG 123A
Q206	2SC815	Driver	1001-05	GE-17		HEP733	SK3024	ECG 128
Q207	2SC773	Xmtr Buffer	1001-06	GE-20		HEP736	SK3024	ECG 123A
Q208	2SC775	Xmtr Driver	9TR6/1001-07	GE-17	IRTR-63	HEP736	SK3047	ECG 123A
	(2SC614)				IRTR-64	HEP53001	SK3047	ECG 128
Q209	2SC799	Final Amp	9TR7/1001-08		IRTR-65	S3002	SK3048	
Q301	2SD154	Output-Modulator	9TR9/1001-09	GE-23	IRTR-57	HEP703	SK3021	ECG 130
	(2SC491)							
Q302	2SC154	Output-Modulator	9TR9/1001-09	GE-23	IRTR-57	HEP703	SK3021	ECG 130
	(2SC491)							

INTEGRATED CIRCUITS

ITEM No.	FUNCTION	MFGR. PART No.	REMARKS
IC1	Discriminator	1003-02	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT DATA				NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.	
D1	1N60	1N60	1N60	1N60	ECG 109	Zener
D2	1N60	1N60	1N60	1N60	ECG 109	
D3	1N34	1N34AS	1N34A	1N34A	ECG 109	
D4	1N34	1N34AS	1N34A	1N34A	ECG 109	
D201	1N60	1N60	1N60	1N60	ECG 109	
D202	1S358S	GE-504A	8D4 or 5A4D	SK3030 or SK3031	ECG 116 or ECG 117	
D203	1N60	1N60	1N60	1N60	ECG 109	
D204	1N60	1N60	1N60	1N60	ECG 109	
D205	MV-1					
D206	AWD1-09					
D301	1N60	1N60	1N60	1N60	ECG 109	
D302	1N60	1N60	1N60	1N60	ECG 109	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C28	4.7 10V	1001-70	MCD-50	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1127
C32	4.7 10V	1003-16	MCD-50	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1127
C33	4.7 10V	1001-70	MCD-50	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1127
C34	4.7 10V	1001-70	MCD-50	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1127
C35	10 10V	1003-17	MCD-70	EP15-10	WBR10-25	MT1-5	MTV10CB50	TE-1128
C48	10 10V	1001-67	MCD-70	EP15-10	WBR10-25	MT1-5	MTV10CB50	TE-1128
C55	4.7 10V	1001-70	MCD-50	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1127
C203	1 16V	1001-66	MCD-10		WBR1-50	MT1-1	MTV1CB50	TE-1148
C207	10 10V	1001-67	MCD-70	EP15-10	WBR10-25	MT1-5	MTV10CB50	TE-1128
C215	10 10V	1001-67	MCD-70	EP15-10	WBR10-25	MT1-5	MTV10CB50	TE-1128
C219	33 10V	1001-68	MCD-110	EP15-25	WBR35-50	MT1-13.5	MTV30CB25	TE-1132.1
C223	47 16V	1001-69	MCD-140	EP30-50	WBR50-25	MT1-16.5	MTV50CD25	TE-1209
C224	4.7 10V	1001-70	MCD-50	EP15-5	WBR5-50	MT1-3	MTV5CB50	TE-1127
C225	1 16V	1001-66	MCD-10		WBR1-50	MT1-1	MTV1CB50	TE-1148
C226	220 16V	1001-71	PTT108	EA15-250	WBR250-16	MT1-23	MTV200CK15	TE-1164
C244	1000 25V	1001-72						
C301	1 NP 250V		PRS7525					

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C2	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C3	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C4	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C5	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C6	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C7	10		NPO-DI 6.8	DTZ-6R8	NP06P8		CN0568	10TCC-V68
C8	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C9	100		GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C10	18			TCZ-18	NP018	CCTO-180	CN0418	10TCC-Q18
C11	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C12	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C13	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C14	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C15	.047		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C16	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C17	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C18	.047		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C19	.02		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C20	.02		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C21	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C22	.047		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C23	330		GPD X5F331K	DD-331	GP330	CCD-331	GP333	10TS-T33
C24	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C25	.0047		TTP-005	CK-502	MGP005	CCD-502	TA250	TG-D50
C26	.02		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C27	.02		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C29	.047		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C30	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C31	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C36	7		NPO-DI 6.8	DTZ-6R8	NP06P8		CN0568	10TCC-V68
C37	2		NPO-DI 2.2	DTZ-2R2	NP02P2		CN0522	10TCC-V22
C38	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C39	7		NPO-DI 6.8	DTZ-6R8	NP06P8		CN0568	10TCC-V68
C40	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C41	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C43	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C44	18			TCZ-18	NP018	CCTO-180	CN0418	10TCC-Q18
C45	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C46	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C49	.047		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C50	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C51	.047		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C52	.047		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50

COURIER MODEL CHIEF 23

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C53	7	#1003-13 #1003-14	NPO-DI 6.8	DTZ-6R8	NP06P8		CN0568	10TCC-V68
C54	4				NP03P9			10TCC-V39
C56	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C57	.047		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C58	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C59	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
CV1								
CV2								
C101	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C102	100		NPO-DI 100	DTZ-100	NP0100	CCT0-101	CN0310	10TCC-T10
C103	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C104	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C105	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C106	56			TCZ-56			CN0456	10TCC-Q56
C107	2		NPO-DI 2.2	DTZ-2R2	NP02P2		CN0522	10TCC-V22
C108	82			DTZ-82	NP082	CCT0-820	CN0482	10TCC-Q82
C109	220		GPD X5F221K	DD-221	GP220	CCD-221	GP322	10TS-T22
C110	2		NPO-DI 2.2	DTZ-2R2	NP02P2		CN0522	10TCC-V22
C111	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C112	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C113	5		NPO-DI 5.0		NP05			10TCC-V50
C114	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C115	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C116	470			CPR-470J	CD15F471J500	DM-16-471J	SX347	MS-347
C117	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C118	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C119	.001		GPD X5F102K	DM-102	GP1000	CCD-102	SM210	2SS-D10
C120	390		ADM-15-391	CPR-390J	CD15F391J500	DM-15-391J	SX339	MS-339
C121	47		NPO-DI 47	DTZ-47	NP047	CCT0-470	CN0447	10TCC-Q47
C122	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C123	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C124	10		NPO-DI 10	DTZ-10	NP010	CCT0-100	CN0410	10TCC-Q10
C125	470		ADM-15-471	CPR-470J	CD15F471J500	DM-16-471J	SX347	MS-347
C126	68			DTZ-68			CN0468	10TCC-Q68
C127	2		NPO-DI 2.2	DTZ-2R2	NP02P2		CN0522	10TCC-V22
C128	470		ADM-15-471	CPR-470J	CD15F471J500	DM-16-471J	SX347	MS-347
C129	68			DTZ-68			CN0468	10TCC-Q68
C130	18			TCZ-18	NP018	CCT0-180	CN0418	10TCC-Q18
C131	.022		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C132	39			TCZ-39			CN0439	10TCC-Q39
C133	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C134	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C135	180	N150			*	*	10TCP-T18	
C136	180	N150			*	*	10TCP-T18	
C137	3	NPO-DI 3.0			*	*	10TCC-V30	
C138	220	GPD X5F221K	DD-221	GP220	CCD-221	GP322	10TS-T22	
C139	.022	TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20	
C140	.022	TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20	
C141	.022	TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20	
C142	.01	TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10	
C143	.01	TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10	
C201	.022	TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20	
C202	.047	TTP-05	CK-503	MGP05	CCD-503	TA120	TG-S20	
C205	.022	TTP-02	CK-203	MGP02	CCD-503	TA150	TGL-S50	
C206	.022	TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20	
C208	.047	TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20	
C209	.047	TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50	
C210	47	N150	CK-503	MGP05	CCD-503	TA150	TGL-S50	
C211	.001	GPD X5F102K	DM-102	GP1000	*	*	10TCP-Q47	
C212	.1	TTP-1	CK-104		CCD-102	SM210	2SS-D10	
C213	.001	GPD X5F102K	DM-102	GP1000	CCD-102	TA010	TG-P10	
C214	.01	TTP-01	CK-103	MGP01	CCD-103	SM210	2SS-D10	
C216	.047	TTP-05	CK-503	MGP05	CCD-503	TA110	TG-S10	
C217	150	GPD X5F151K	DD-151	GP150	CCD-151	TA150	TGL-S50	
C218	220	GPD X5F221K	DD-221	GP220	CCD-151	GP315	10TS-T15	
C220	.022	TTP-02	CK-203	MGP02	CCD-221	GP322	10TS-T22	
C221	.047	TTP-05	CK-503	MGP05	CCD-203	TA120	TG-S20	
C222	.047	TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50	
C227	.047	TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50	
C228	.01	TTP-01	CK-103	MGP05	CCD-503	TA150	TGL-S50	
C229	.01	TTP-01	CK-103	MGP01	CCD-103	TA150	TGL-S50	
C230	180	N150	CK-103	MGP01	CCD-103	TA110	TG-S10	
C231	.01	TTP-01	CK-103	MGP01	*	*	10TCP-T18	
C232	330	GPD X5F331K	DD-331	GP330	CCD-103	TA110	TG-S10	
C233	12		TCZ-12		CCD-331	GP333	10TS-T33	
C234	47	NPO-DI 47	DTZ-47	NP012	CCT0-120	CN0412	10TCC-Q12	
C235	.01	TTP-01	CK-103	NP047	CCT0-470	CN0447	10TCC-Q47	
C236	.001	GPD X5F102K	DM-102	MGP01	CCD-103	TA110	TG-S10	
C237	.01	TTP-01	CK-103	GP1000	CCD-102	SM210	2SS-D10	
C238	82	N150	CK-103	MGP01	CCD-103	TA110	TG-S10	
C239	220	ADM-15-221	CPR-220J		*	*	10TCP-Q82	
C240	150	ADM-15-151	CPR-150J	CD15F221J500	DM-15-221J	SX322	MS-322	
C241	12		TCZ-12	CD15F151J500	DM-15-151J	SX315	MS-315	
C242	150	GPD X5F151K	DD-151	NP012				
C243	10	NPO-DI 10	DTZ-10	GP150	CCD-151	GP315	10TS-T15	
C245	.01	TTP-01	CK-103	NP010	CCT0-100	CN0410	10TCC-Q10	
C246	.01	TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10	
C247	.01	TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10	
C248	.01	TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10	
C249	.001	GPD X5F102K	DM-102	MGP01	CCD-103	TA110	TG-S10	
				GP1000	CCD-102	SM210	2SS-D10	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

			REPLACEMENT DATA					
ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C302	47 N150					*	*	10TCP-Q47

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

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.
RV301	Volume/Power Switch	10K	1003-19	F2-10K (1), SPU304, KR-8FR	NP-10K-Z (1), UPP-B-400, PPAP, NWG-18	B13-116, SK7(1), or [BU2 (1), CF61, SS20,K]*	P14A, 3038 (1), FPP1, SL250
RV302	Squelch/Switch	10K	1003-19	F2-10K (1), SPU304, KR-8FR	NP-10K-Z (1), UPP-B-400, PPAP, NWG-18	B13-116, SK7(1), or [BU2 (1), CF61, SS20,K]*	P14A, 3038 (1), FPP1, SL250
VR201	Squelch Range	20K		T-20K (2) or TSV-25K (2)		X201R253B (2)	MTC24L1 (2)
VR203	Modulation Adjust	50K		TSV-50K (2) or T-50K (2)		X201R503B (2)	MTC54L1 (2)

* "SNAPTROL"

(1) Enlarge mounting hole.

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

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
FL101	Interstage IF	1001-41 (1)			
L1	VHF Antenna Matching	1003-03			
L2	VHF RF	1003-04			
L3	Tripler	1003-05			
L4	VHF Rec. Oscillator	1003-06			
L5	RF Choke	1003-07			
L6	RF Choke	1003-08	19214	4610	T859
L101	Synthesizer Oscillator	1001-34			
L102	RF Choke			74F186AP	T811
L201	RF Choke	1001-39	19210	4604	T856
L202	RF Choke	1001-39	19210	4604	T856
L203	Final	1001-35			
L204	Pi Network	1001-36			
T1	IF Input	1003-09			
T2	Discriminator (Pri)	1003-10			
T3	Discriminator (Sec)	1003-11			
T101	Antenna Matching	1001-28			
T102	RF (Pri)	1001-29			
T103	RF (Sec)	1001-29			
T104	Input IF	1001-30			
T105	Interstage IF	1001-30			
T106	Interstage IF	1001-31		8517	
T107	Xmtr Buffer	1001-32			
T108	Xmtr Buffer Input	1001-32			
T201	Output IF	1001-33		8518	
T202	Xmtr Buffer Output	1001-32			
T203	Xmtr Driver	1001-34			
T301	TVI	1001-37			

(1) Includes Mechanical Filter.

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.	
L301	440ma	.6	3.5mh	1001-40				

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.	
T204	3.3	1 CT		1001-42				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T205	32	8	1001-43				
		SEC.2					
		.5DC Resistance					

COURIER MODEL CHIEF 23

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	3" x 5" PM, 8 ohms	1001-49	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			AGC-2	HDJ	312-002	150145		

MICROPHONE

MICROPHONE

ITEM No.	REPLACEMENT DATA			REMARKS
	MFR. PART No.	RCA REPLACEMENT	RCA STEP UP REPLACEMENT	
M1	1001-47	HK-107		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FL1	Filter, Ceramic	1003-12	10.7MC
FL2	Filter, Ceramic	1003-12	10.7MC
FL3	Filter, Ceramic	1003-12	10.7MC
RL201	Relay		
Y1	Crystal	9CR3760/1001-14	37.600MC
Y2	Crystal	9CR3765/1001-15	37.650MC
Y3	Crystal	9CR3770/1001-16	37.700MC
Y4	Crystal	9CR3775/1001-17	37.750MC
Y5	Crystal	9CR3780/1001-18	37.800MC
Y7	Crystal	9CR3785/1001-19	37.850MC
Y8	Crystal	9CR140/1001-20	10.140MC
Y9	Crystal	9CR160/1001-21	10.160MC
Y10	Crystal	9CR170/1001-22	10.170MC
Y11	Crystal	9CR180/1001-23	10.180MC
Y12	Crystal	9CR595/1001-24	10.595MC
Y13	Crystal	9CR615/1001-25	10.615MC
Y14	Crystal	9CR625/1001-26	10.625MC
S1	Switch, PA-CB	1001-52	10.635MC
S2	Switch, Tune-Crystal	1003-22	
S3	Switch, VHF-CB	1003-23	

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Top	1001-78	Knob, Selector	1001-62
Cabinet, Bottom	1001-79	Knob, Volume, Squelch, VHF	1001-63

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Shielded Antenna Lead	8524 (Stranded) Available in 12 Colors
	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)
Ignition Noise Suppression	8496 3-Conductor, 1 Shielded, for Press-to-Talk (Vinyl)
Bonding Strap	Use BELDEN No. 7300-Series Spark-Plug Sets
	8661 (3/8 In.)

DIAL CORD STRINGING - FRONT VIEW

