

SAMS PHOTOFACT[®] CB RADIO SERIES



CB-19
19
JANUARY 1969



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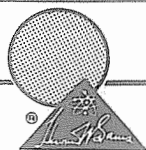
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HOWARD W. SAMS & CO., INC.

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.



PACE MODEL 100, 200

ALIGNMENT INSTRUCTIONS

SUGGESTED ALIGNMENT TOOLS:

A1 thru A7, A10.

A8, A9, A11 thru A17.

GENERAL CEMENT: 8868, 8987, 9089 WALSCO: 2531-X, 2541, 2587

GENERAL CEMENT: 8606L, Fabricate Tool.

RECEIVER

Connect an AC VTVM across speaker voice coil terminals. Turn volume control to midrange, turn squelch fully counterclockwise.

SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to base of Q3 (2nd Rec. Mixer), low side to ground. Tune to 455KC (Mod.).	Any	A1 thru A7	Adjust for maximum.
High side thru .01mfd to base of Q2 (1st Rec. Mixer), low side to ground. Tune to 7.1MC (Mod.).	Any	A8 thru A10	Adjust for maximum.
High side thru .01mfd to Antenna Connector, low side to chassis. Tune to 27.085 (Mod.).	11	A11, A12	Adjust for maximum.

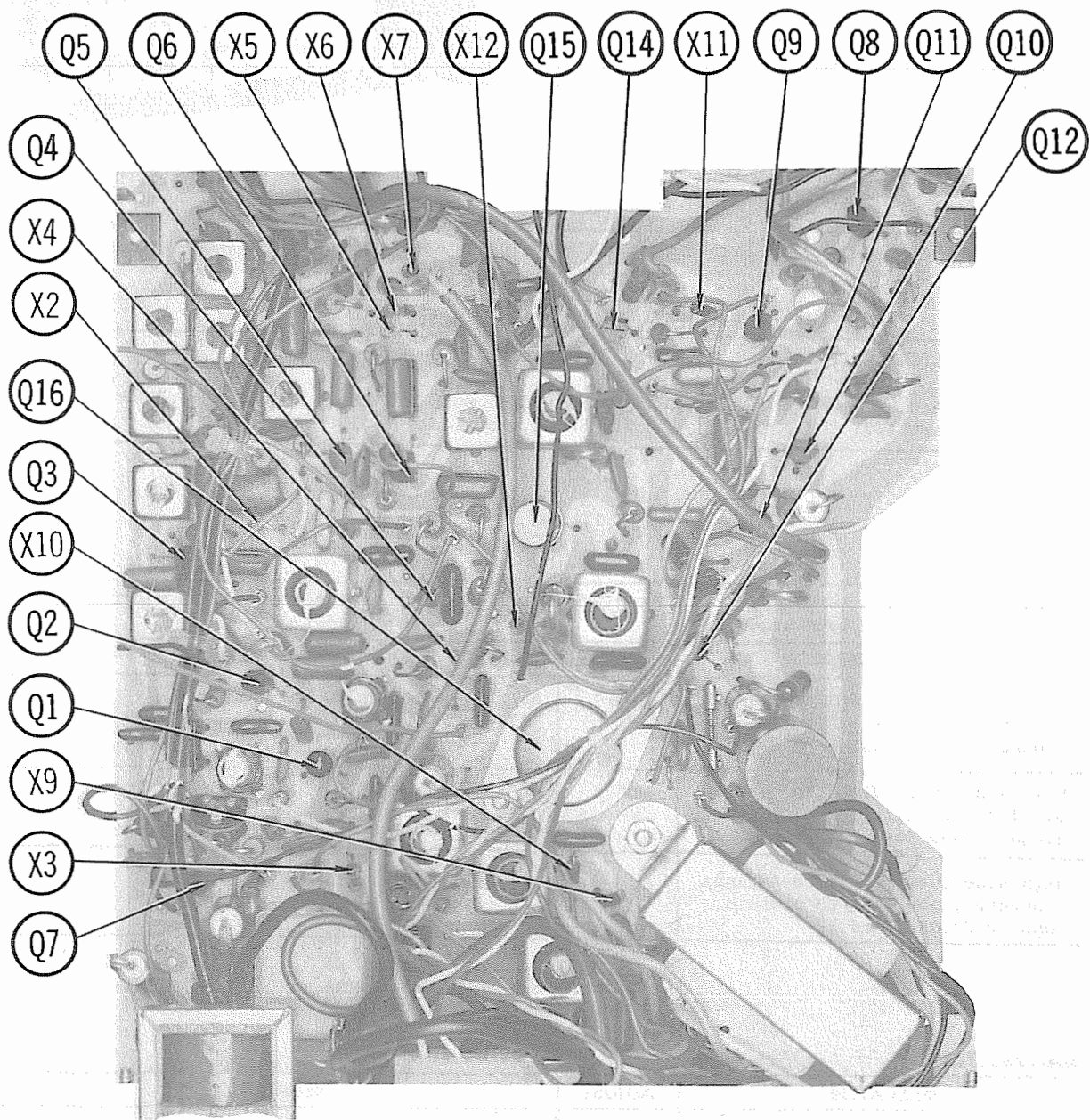
TRANSMITTER

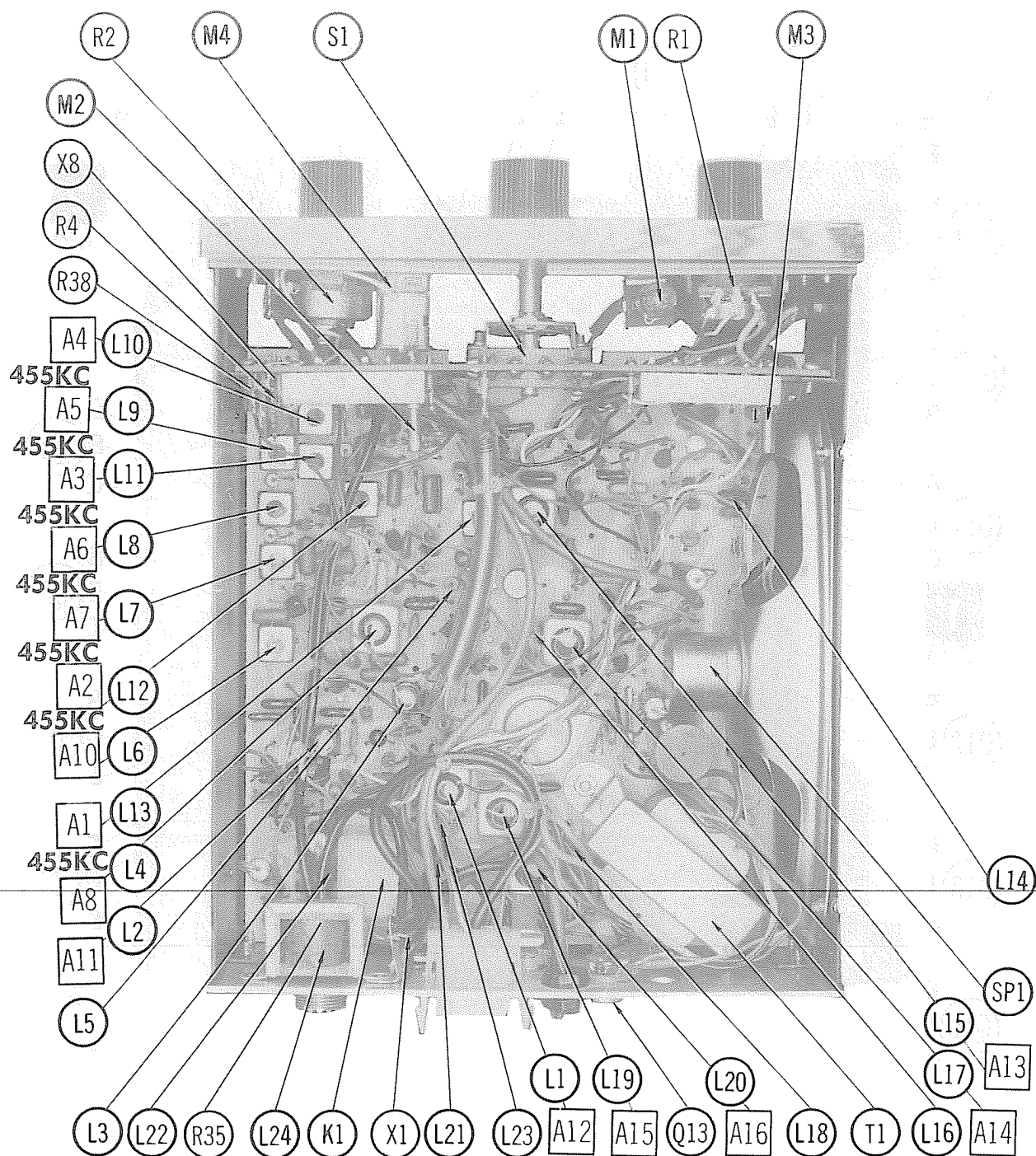
INDICATOR	ADJUST	REMARKS
Field Strength Meter or RF Watt-meter and "S" Meter on Front Panel.	A13 thru A17	Key Transmitter several times to ensure Oscillator starting. Connect a DC Ammeter in series with collector of Q16 (Final Amp). Adjust for maximum output and MINIMUM current.

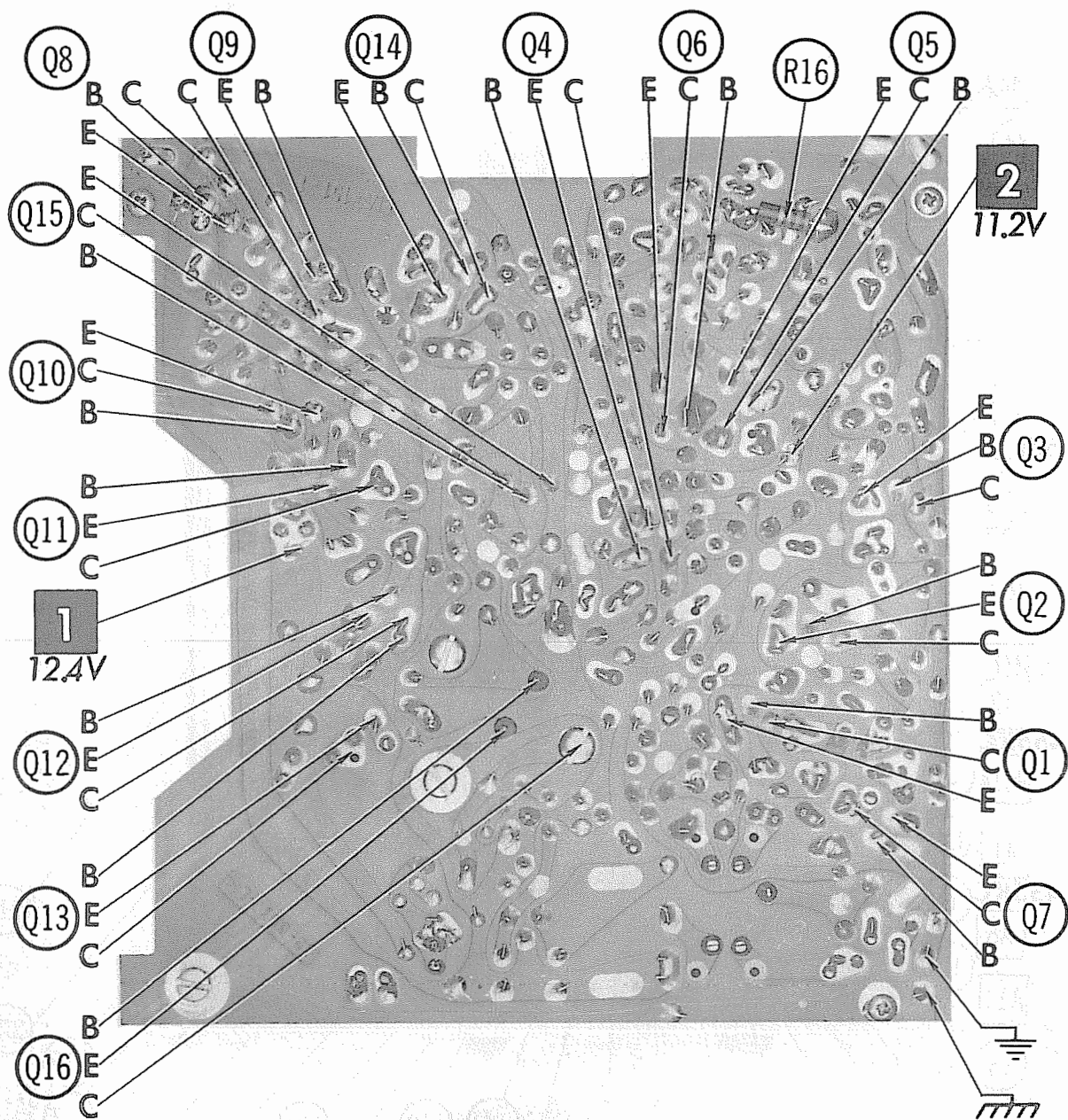
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

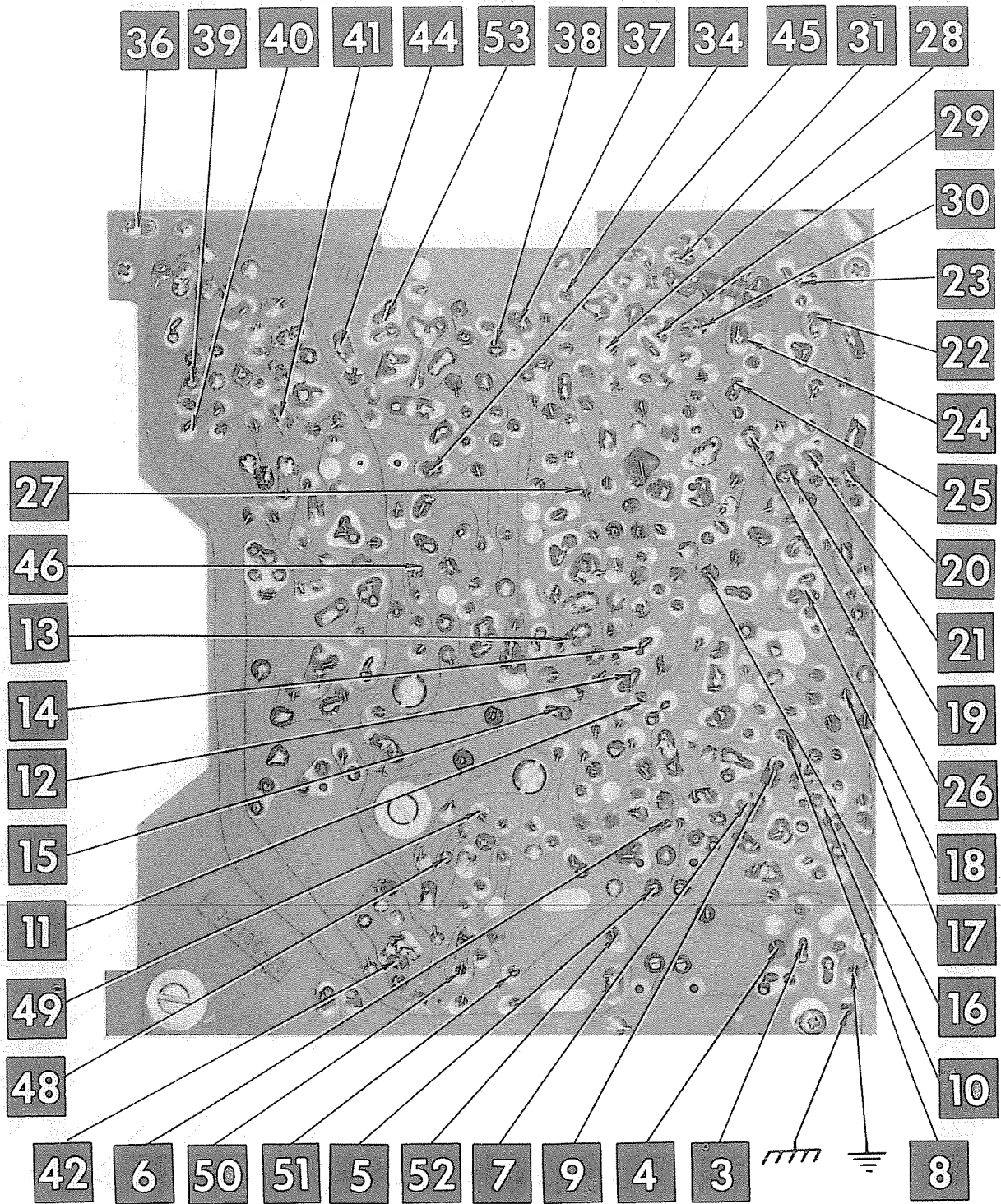
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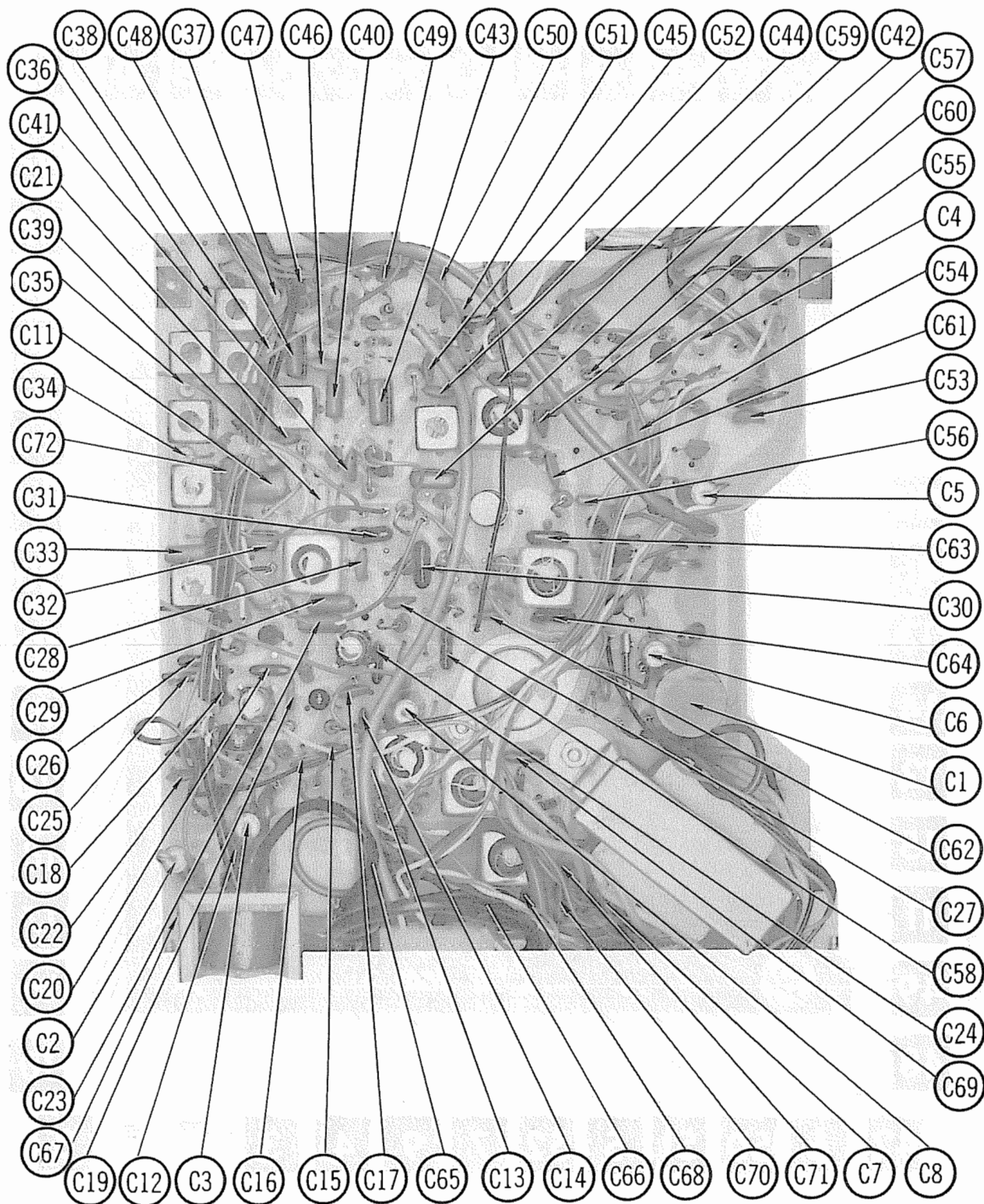
PACE MODELS 100, 200

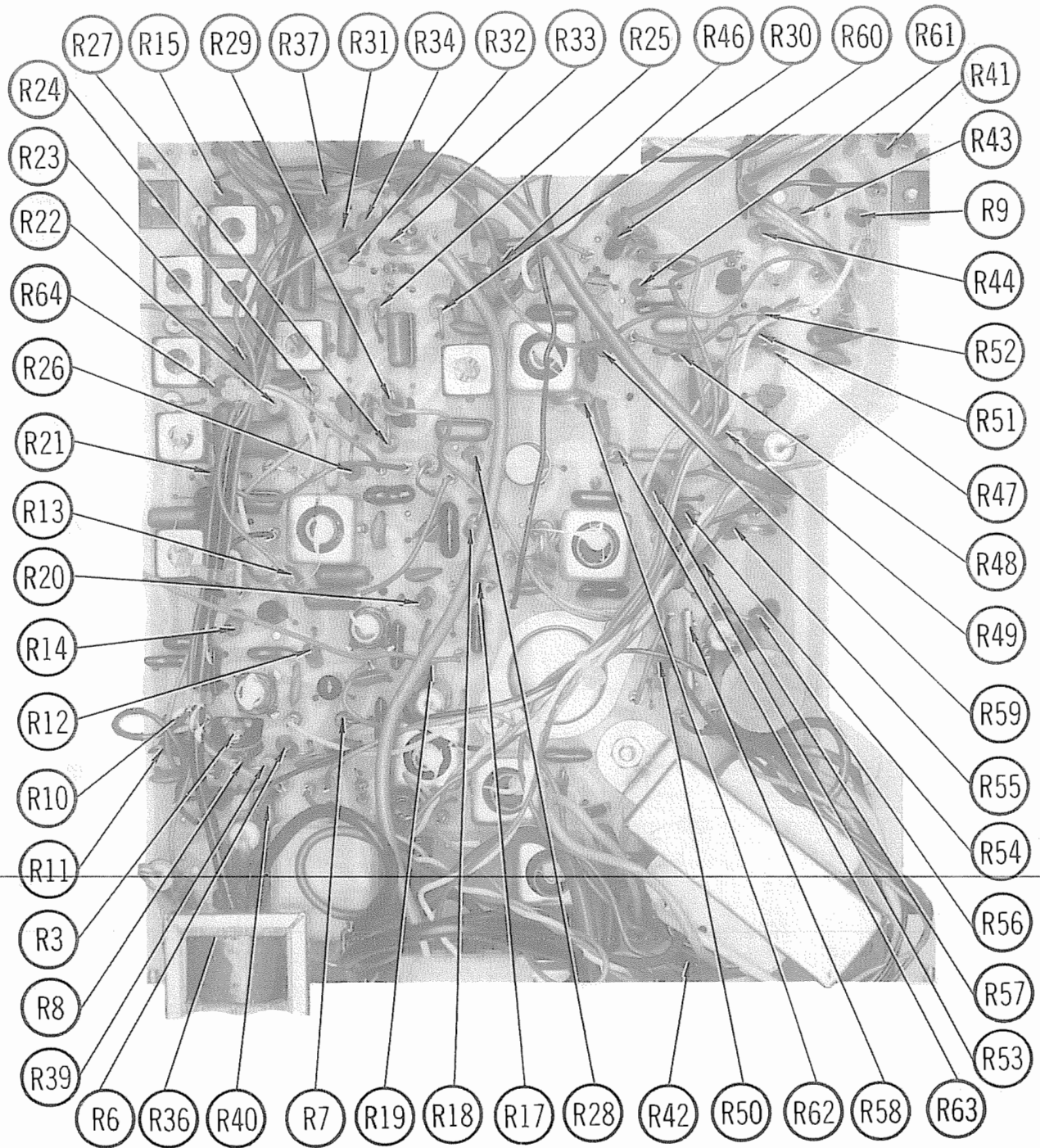


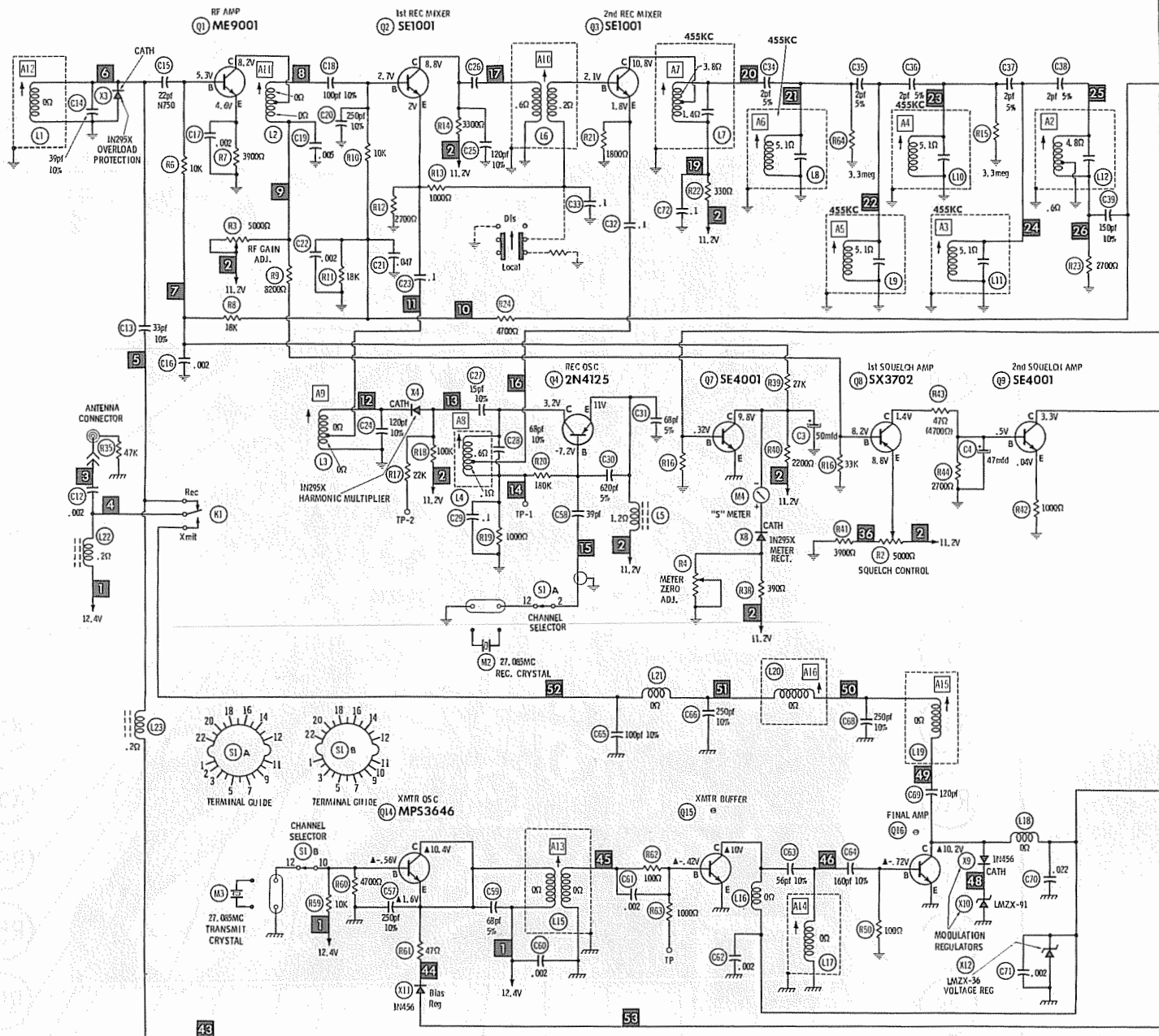










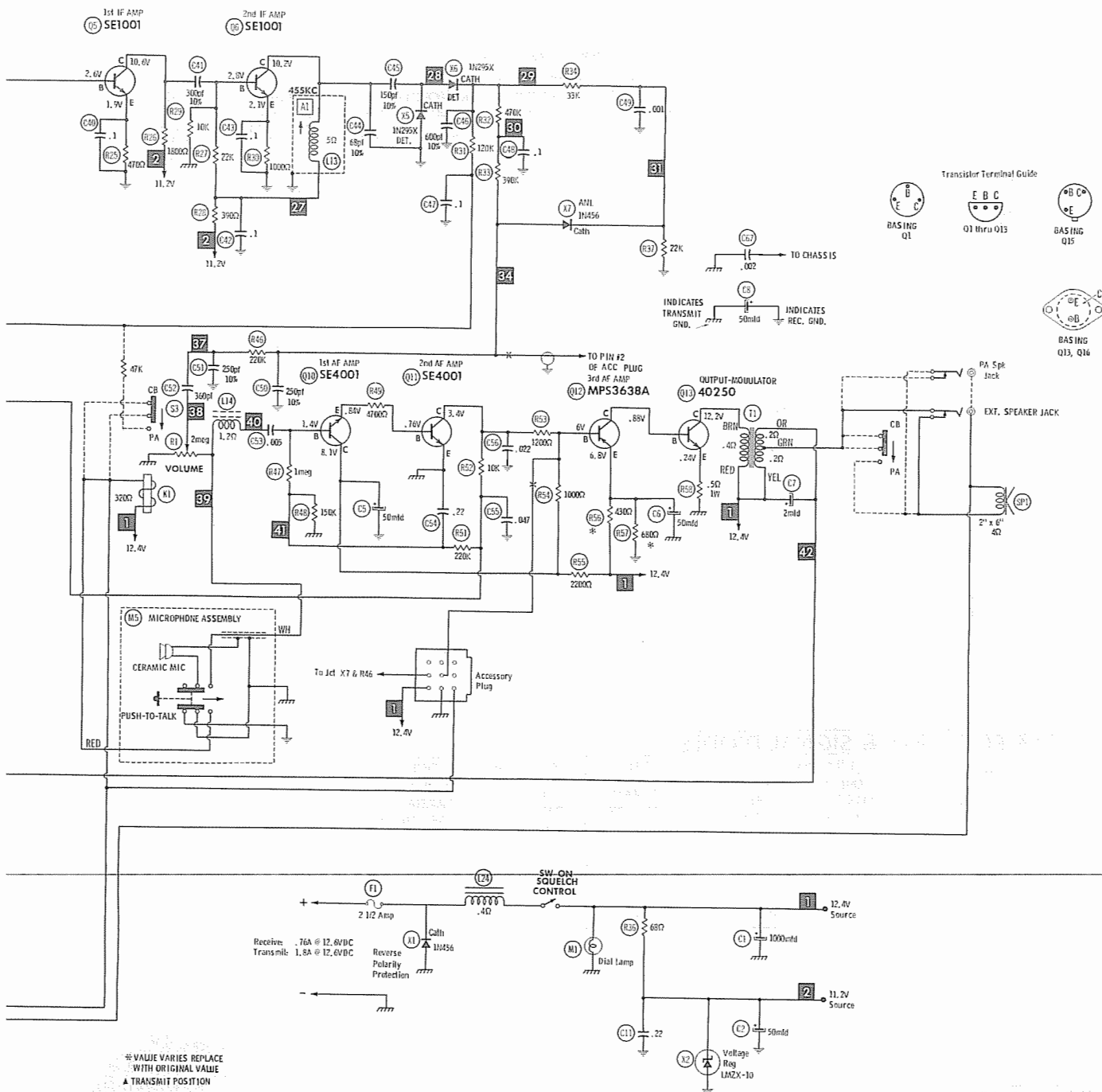


1. See parts list.
 2. Voltage measurements taken with vacuum tube voltmeter.
 3. All controls set for normal operation, no signal applied.
 4. Measured values are from socket pin or terminal to common ground.
 5. All terminals viewed from bottom unless otherwise designated.
 6. Numbers assigned to terminals may not be found on the unit.
 7. Supply voltage maintained at rated value for voltage readings.
 8. Resistance measurements not given because of the wide variation in internal resistance of transistor.

A PHOTOFACT STANDARD NOTATION SCHEMATIC

with CIRCUITACE

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PARTS LIST AND DESCRIPTION

WIRING DATA

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

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.)

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA						
			MFG. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q1	ME9001 (2N3563) (2N3001) (SX408)	RF Amp	13-0020 13-0020 13-0020	DS-81	GE-17	TR-22	HEP55	SK-3018	ECG 108
Q2	SE1001 (SX3826) (MPS6513)	1st Receiver Mixer	13-0009 13-0009 13-0009	DS-81	GE-17	TR-22	HEP55	SK-3018	ECG 108
Q3	SE1001 (SX3826) (MPS6513)	2nd Receiver Mixer	13-0009 13-0009 13-0009	DS-81	GE-17	TR-22	HEP55	SK-3018	ECG 108
Q4	2N4125 (2N4121) (2N2299)	Receiver Oscillator	13-0043 13-0043 13-0043		GE-21	TR-19	HEP51		ECG 106
Q5	SE1001 (SX3826) (MPS6513)	1st IF Amp	13-0009 13-0009 13-0009	DS-72	GE-17	TR-21	HEP54	SK-3018	ECG 123
Q6	SE1001 (SX3826) (MPS6513)	2nd IF Amp	13-0009 13-0009 13-0009	DS-72	GE-17	TR-21	HEP54	SK-3018	ECG 123
Q7	SE4001 (SX3709) (MPS6513)	AGC Amp	13-0010 13-0010 13-0010	DS-72	GE-17	TR-21	HEP54	SK-3018	ECG 123
Q8	SX3702 (ME0404) (2N3638A)	1st Squelch Amp	13-0006 13-0006 13-0006		GE-22	TR-19	HEP51	SK-3025	ECG 106
Q9	SE4001 (SX3709) (MPS6513)	2nd Squelch Amp	13-0010 13-0010 13-0010	DS-66	GE-10	TR-21	HEP54	SK-3020	ECG 123
Q10	SE4001 (SX3709) (MPS6513)	1st AF Amp	13-0010 13-0010 13-0010	DS-66	GE-10	TR-21	HEP54	SK-3020	ECG 123
Q11	SE4001 (SE4002) (SX3711) (MPS6514)	2nd AF Amp	13-0010 13-0022 13-0022 13-0022	DS-66	GE-10	TR-21	HEP54	SK-3020	ECG 123
Q12	MPS3638A (ME0404) (SX3702)	3rd AF Amp	13-0006 13-0006 13-0006		GE-22	TR-19	HEP51	SK-3025	ECG 106
Q13	40250	Output-Modulator	13-0014		GE-23			SK-3026	
Q14	MPS3646 (2N3646) (ME9002) (SX55)	Xmtr Oscillator	13-0021 13-0021 13-0021 13-0021	DS-81	GE-20	TR-21	HEP55	SK-3018	ECG 108
Q15	FS1978	Xmtr Buffer	13-0035						
Q16	FS2523	Final Amp	13-0028						

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFG. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	13-0003 (1N456)						
X2	13-0002 (LMZX-10)					2VR10	Zener (10V)
X3	1N295X	1N295	1N295	ECG 109			
X4	1N295X	1N295	1N295	ECG 109			
X5	1N295X	1N295	1N295	ECG 109			
X6	1N295X	1N295	1N295	ECG 109			
X7	13-0003 (1N456)						
X8	1N295X	1N295	1N295	ECG 109			
X9	13-0003 (1N456)						
X10	13-0029 (LMZX-91)					2VR90	Zener (91V)
X11	13-0003 (1N456)						
X12	13-0017 (LMZX-36)						Zener (36V)

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.
C1	1000 15V	19-0052	PRS1230	EA15-1000	BR1000-15			TL-1166.5
C2	50 15V	19-0061	CRE467A	EA15-50	NLW50-15	MT1-16	TT15X50	TE-1160
C3	50 15V	19-0061	CRE467A	EA15-50	NLW50-15	MT1-16	TT15X50	TE-1160
C4	47 3V	19-0064	BCD3050	EP6-50	NLW50-3	MT1-15	MTV50CB15	TE-1058
C5	50 15V	19-0061	CRE467A	EA15-50	NLW50-15	MT1-16	TT15X50	TE-1160
C6	50 15V	19-0061	CRE467A	EA15-50	NLW50-15	MT1-16	TT15X50	TE-1160
C7	2 25V	19-0049	BCD25002	EP30-2	NLW2-50	MT1-1	MTV2CB50	TL-1201
C8	50 15V	19-0061	CRE467A	EA15-50	NLW50-15	MT1-16	TT15X50	TE-1160

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.
C11	.22		DBE6P22		DMF4P22	ADP-5-224	PVC4022	4PS-P22
C12	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C13	.33	10%	GPD P3K330K	DD-330		CCD-330	GP433	10TS-Q33
C14	.39	10%	ADM-10-390	CPR-39J	CD10E390K500	DM-10-390K	SX439	MS-439
C15	.22	10%	GPD U2J220K	DD-220		CCD-220	GP422	10TS-Q22
C16	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C17	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C18	.100	10%	ADM-10-101	CPR-100J	CD10E101K500	DM-10-101K	SX310	MS-310
C19	.005	25V	GPD X5R502K	DD-502	JBX601YP502K	CCD-502	JF250	10TS-D50
C20	.250	10%	ADM-10-251	CPR-250J	CD10E251K500	DM-10-251K	SX324	MS-324
C21	.047		DBE6S47	DD-503	DMF4S47	4DP-3-473	PVC4147	4PS-S47
C22	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C23	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C24	.120	10%	ADM-10-121	CPR-120J	CD10E121K500	DM-10-121K	SX312	MS-312
C25	.120	10%	ADM-10-121	CPR-120J	CD10E121K500	DM-10-121K	SX312	MS-312
C26	.27	10%	ADM-10-270	CPR-27J	CD10E270K500	DM-10-270K	SX427	MS-427
C27	.15	10%	GPD U25150K	DD-150		CCD-150	SX415	MS-415
C28	.68	10%	GPD X5F680K	DD-680	JBZ601YP680K	CCD-680	GP468	10TS-Q68
C29	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C30	.620	5%	ADM-19-621	CPR-620J	CD19F621J500	DM-15-621J	SX362	MS-362
C31	.68	5%	ADM-10-680	CPR-68J	CD10E680J500	DM-15-680J	SX468	MS-468
C32	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C33	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C34	.2	5%		TCZ-2R2	CZ601CJ2R20	CCTO-2R2	CNO522	10TCC-V22
C35	.2	5%		TCZ-2R2	CZ601CJ2R20	CCTO-2R2	CNO522	10TCC-V22
C36	.2	5%		TCZ-2R2	CZ601CJ2R20	CCTO-2R2	CNO522	10TCC-V22
C37	.2	5%		TCZ-2R2	CZ601CJ2R20	CCTO-2R2	CNO522	10TCC-V22
C38	.2	5%		TCZ-2R2	CZ601CJ2R20	CCTO-2R2	CNO522	10TCC-V22
C39	.150	10%	GPD X5F151K	DD-151		CCD-151	GP315	10TS-T15
C40	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C41	.300	10%	GPD X5F301K	DD-301		CCD-301	GP330	10TS-T30
C42	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C43	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C44	.68	10%	GPD X5F680K	DD-680	JBZ601YP680K	CCD-680	GP468	10TS-Q68
C45	.150	10%	GPD X5F151K	DD-151		CCD-151	GP315	10TS-T15
C46	.600	10%		DD-601			GP360	10TS-T60
C47	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C48	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C49	.001		GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C50	.250	10%	GPD X5F251K	DD-251		CCD-251	GP325	10TS-T25
C51	.250	10%	GPD X5F251K	DD-251		CCD-251	GP325	10TS-T25
C52	.360	10%	ADM-15-361	CPR-360J	CD15F361K500	DM-15-361K	SX336	MS-336
C53	.005		GPD X5R502K	DD-502	JBX601YP502K	CCD-502	JF250	10TS-D50
C54	.22		DBE6P22		DMF4P22	4DP-5-224	PVC4022	4PS-P22
C55	.047		DBE6S47	DD-503	DMF4S47	4DP-3-473	PVC4147	4PS-S47
C56	.022		DBE6S22	DD-203	DMF4S22	4DP-2-223	PVC6122	4PS-S22
C57	.250	10%	ADM-15-250	CPR-250J	CD10E251K500	DM-10-251K	SX324	MS-324
C58	.39	10%	ADM-10-390	CPR-39J	CD10E390K500	DM-10-390K	SX439	MS-439
C59	.68	5%	ADM-10-680	CPR-68J	CD10E680J500	DM-10-680J	SX468	MS-468
C60	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C61	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C62	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C63	.56	5%	ADM-10-560	CPR-56J	CD10E560J500	DM-10-560J	SX456	MS-456
C64	.160	10%	ADM-10-161	CPR-160J	CD10E161K500	DM-10-161K	SX316	MS-316
C65	.100	10%	ADM-10-101	CPR-100J	CD10E101K500	DM-10-101K	SX310	MS-310
C66	.250	10%	ADM-10-251	CPR-250J	CD10E251K500	DM-10-251K	SX324	MS-324
C67	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C68	.250	10%	ADM-10-251	CPR-250J	CD10E251K500	DM-10-251K	SX324	MS-324
C69	.120	10%	ADM-10-121	CPR-120J	CD10E121K500	DM-10-121K	SX312	MS-312
C70	.022		DBE6S22	DD-203	DMF4S22	4DP-2-223	PVC6122	4PS-S22
C71	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C72	.1		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10

PAGE MODELS 100, 200

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.
R1	Volume	2meg	(15-0033)	F2-2meg(1), SF010	A47-2meg-2(1), FS-3 or (NP-2meg-2(1), UP-B-400)	Q13-139(1) or (BU1, CF27, SS1, DC1)*	UA26A(1), SF1000 or (RU26A(1), SF1000 or U55(1)
R2	Squelch & Switch	5000	(15-0034)	F5-5000(1), SF010, KR-1	NP-5000-V(1), UP-B-400, NWE-12	B17-114, TM5(1), 76-1 or (BU1, CF34, SS1, GC)*	RU53R(1), SF1000, US41
R3	RF Gain	5000	(14-0008)				
R4	Meter Adjust	5000	(14-0007)			X201R502B	NTC5311

* "SNAPTROL"

(1) Use original nylon bushing.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFGR. PART No.			IRC PART No.	WORKMAN PART No.	MFGR. PART No.
R58	.5 1W	WW4J0.5		14-0010					

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Antenna Input	17-0019			
L2	RF Output	17-0018			
L3	19MC Mixer	17-0025			
L4	6MC Oscillator	17-0017			
L5	RFC (35uh)	17-0016		74F335A1	
L6	7.1MC 1F Interstage	16-0007			
L7	Input 1F	16-0005			
L8	Filter 1F	16-0003			
L9	Filter 1F	16-0003			
L10	Filter 1F	16-0003			
L11	Filter 1F	16-0003			
L12	Interstage 1F	16-0006			
L13	Output 1F	16-0013			
L14	RFC (35uh)	17-0016		74F335A1	
L15	Xmtr Interstage	17-0028			
L16	RFC (5uh)	17-0026		74F336AP	TB294
L17	Xmtr Buffer	17-0021			
L18	RFC (5uh)	17-0026		74F336AP	TB294
L19	Pi Network	17-0020			
L20	Pi Network	17-0020			
L21	RFC (15 turns)	17-0015			
L22	RFC (7.5uh)	17-0022			
L23	RFC (7.5uh)	17-0022			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L24	1.8A*	.4	3.6uh	16-0021 (16-0017)					*

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	3.5	4	16-0016					

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA			NOTES
				PART No.	JENSEN PART No.	QUAM PART No.	
SP1	2" X 6"	PM	4 ohms	22-0007	P2X6X3	26A07	

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	2 1/2 Amp 250V			AGC 2 1/2	H11J	31202.5	155020		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	21-0005A	SPST
M1	Pilot Lamp		
M2	Crystal	20-0002	Receive Channel 11
M3	Crystal	20-0001	Transmit Channel 11
M4	Meter		"S" Indicator
M5	Microphone Assembly	22-0005 (22-0012)	Used on later models
S1	Switch		Channel Selector

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

ITEM	PART No.	ITEM	PART No.
Knob, Control	24-0047	Knob, Selector Model 200	24-0054
Knob, Selector Model 100	24-0064		



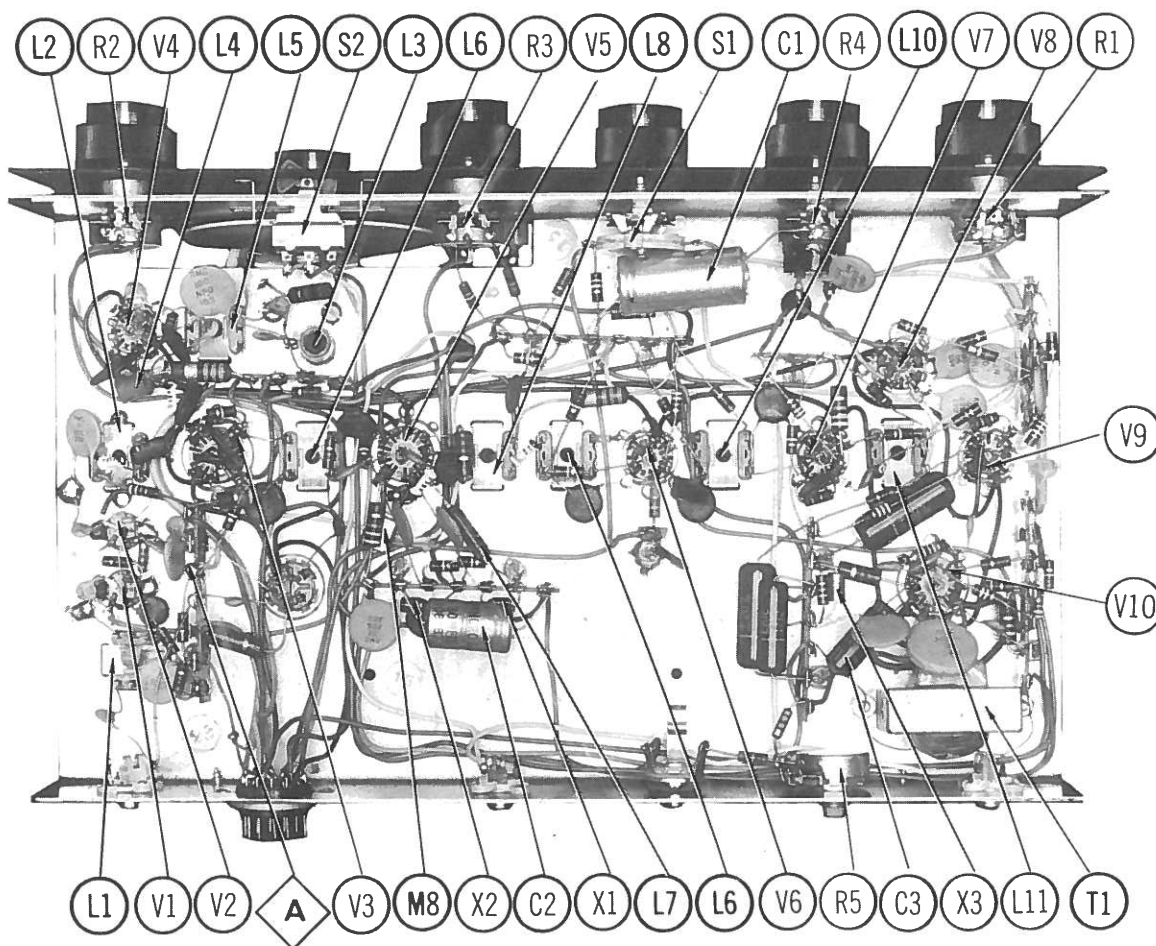
PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



DEMCO MODEL SATELLITE DELUXE (W/Power Modulator Model SPM-4)

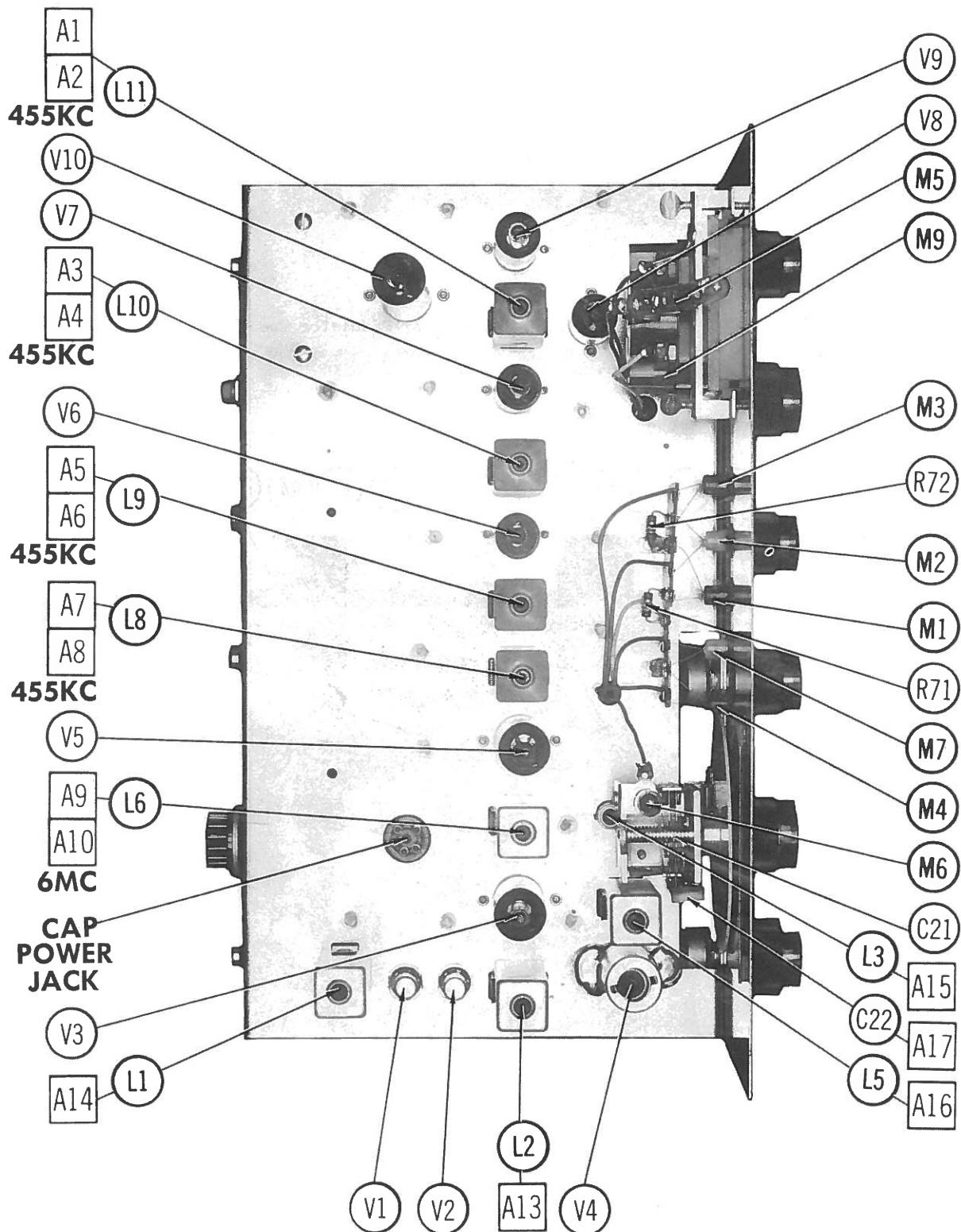


RECEIVER

DEMCO MODEL Satellite Deluxe

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

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RECEIVER

ALIGNMENT INSTRUCTIONS

SUGGESTED ALIGNMENT TOOLS:

A1 thru A16.	GENERAL CEMENT: 8606,8606L,8869.	WALSCO: 2543,2544,2588.
A17.	GENERAL CEMENT: 5004.	WALSCO: 2520.

PRE-ALIGNMENT ADJUSTMENTS

Set Selector Switch to Xtal position on transmitter.
 Set Channel Selector on Transmitter to Channel 11.
 Audio Compressor Switch to distant.
 Pull ANL Switch Out (Off).
 Antenna Switch to load position.
 Fine tune control to mid-range.

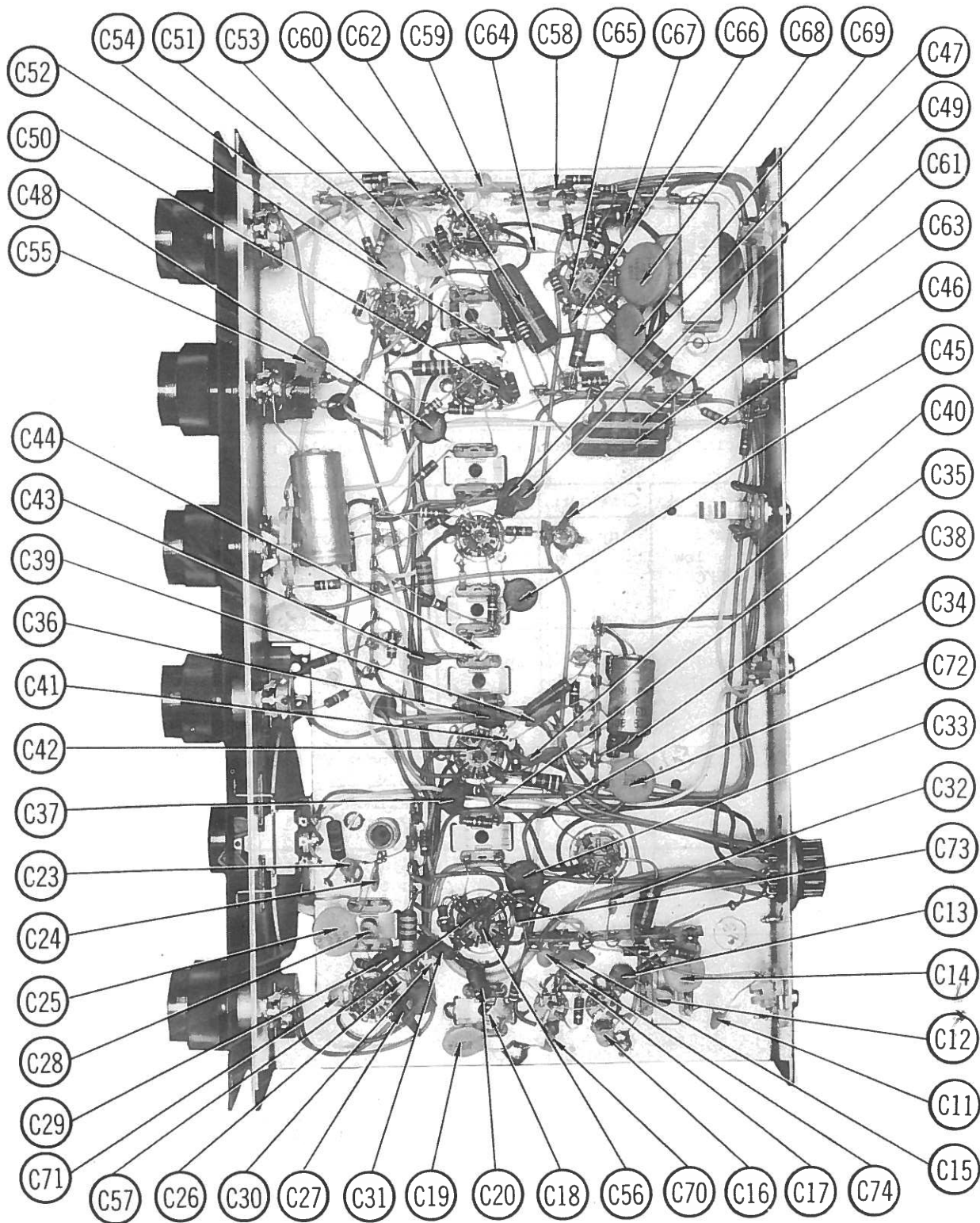
RECEIVER ALIGNMENT

Connect a DC VTVM to test point  for negative reading. Set Squelch control fully counterclockwise.

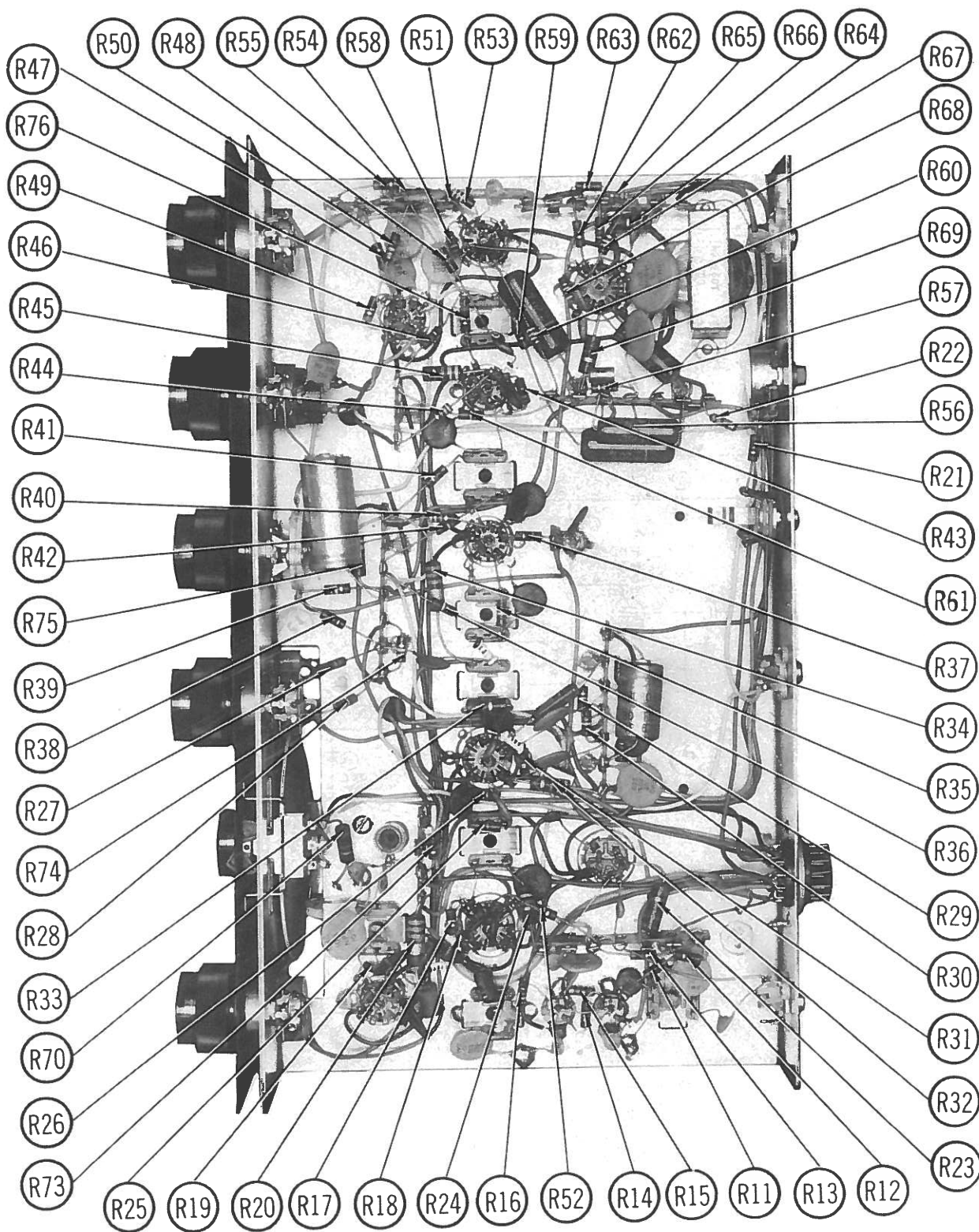
SIGNAL GENERATOR	CHANNEL	ADJUST	REMARKS
High side thru .01mfd to Pin 2 (Grid) V5A (2nd Rec. Mixer), low side to chassis. Tune to 455KC (Mod.).	Any	A1 thru A8	Adjust for maximum.
High side thru .01mfd to Pin 9 (Grid) V3A (1st Rec. Mixer), low side to chassis. Tune to 6MC (Mod.).	Any	A9,A10	Adjust for maximum.
	23	A11	Connect VTVM to Pin 9 (Grid) V14A (37MC Osc) in transmitter. Adjust for maximum negative reading and back off 1/4 turn. A11 (L12) located on Trans.
High side thru .01mfd to Antenna Connector, low side to chassis. Tune to 27.085MC (Mod.).	11	A12,A13, A14	Adjust for maximum. A12 (L13) located in transmitter.

RECEIVER ALIGNMENT(VARIABLE)

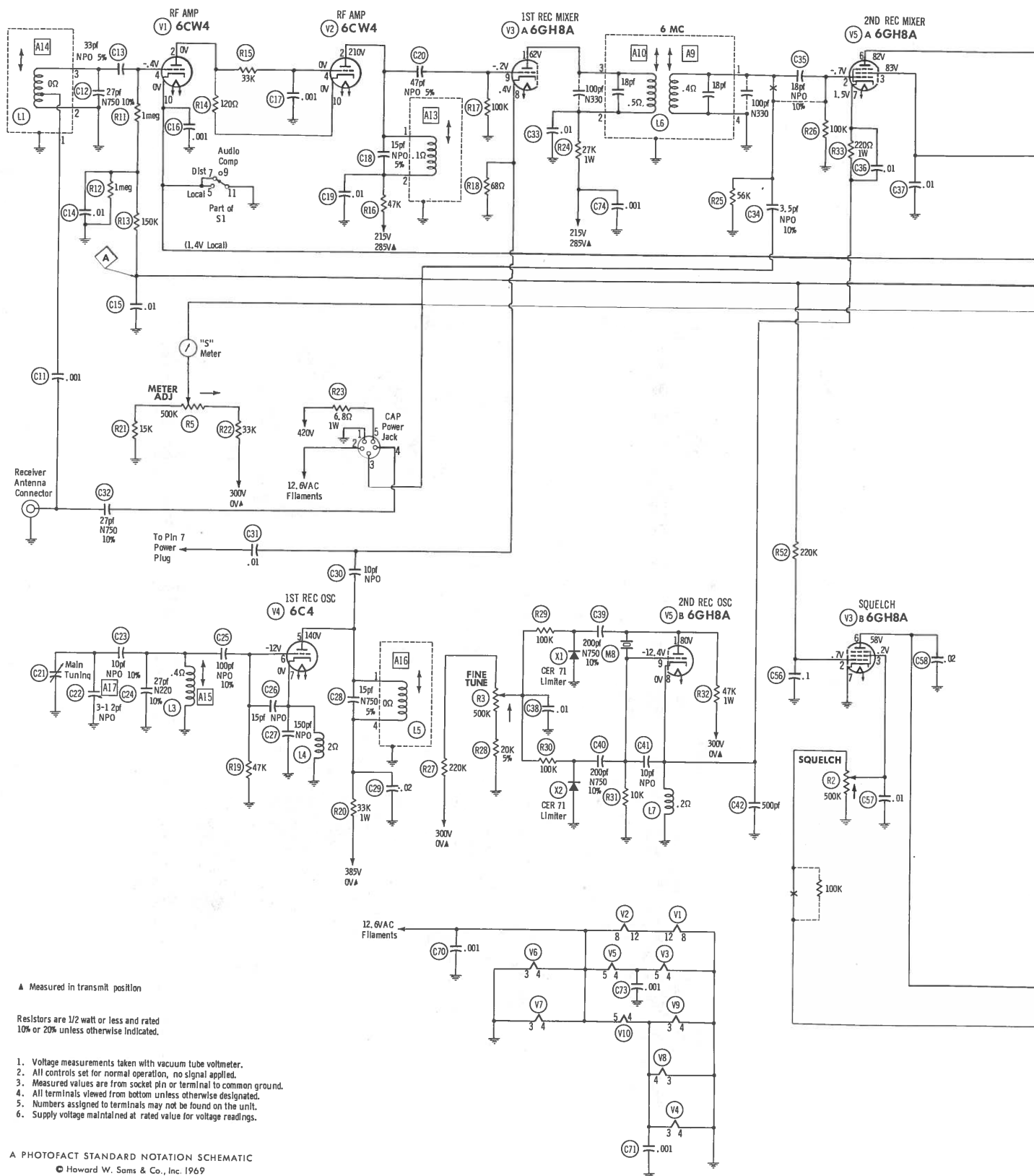
INDICATOR	ADJUST	REMARKS
SET SELECTOR SWITCH TO VARIABLE POSITION. USE "S" METER.		
High side thru .01mfd to Antenna Connector, low side to chassis. Tune to 26.965MC (Mod.).	1	A15,A16 Receiver dial to Channel 1. Adjust for maximum on "S" Meter.
High side thru .01mfd to Antenna Connector, low side to chassis. Tune to 27.255MC (Mod.).	23	A17 Receiver Dial to Channel 23. Adjust for maximum on "S" Meter.
		Repeat above adjustments until Receiver dials tracks properly.



RECEIVER

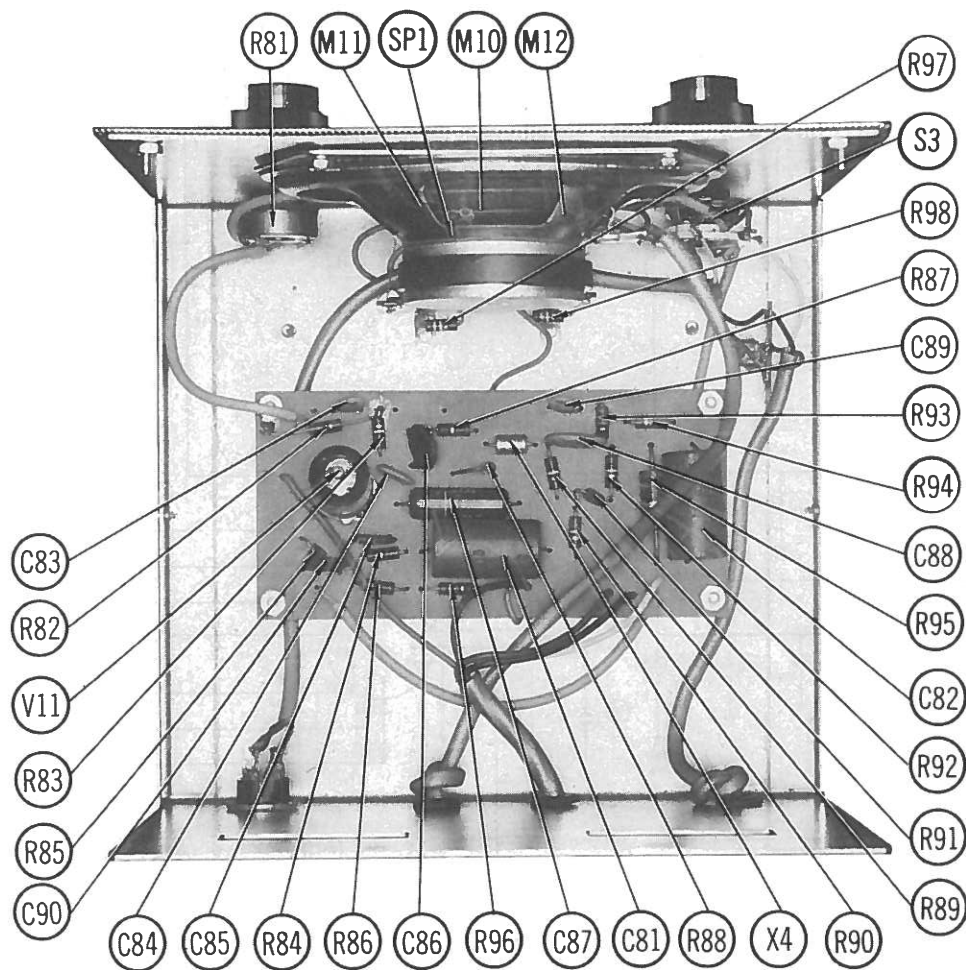
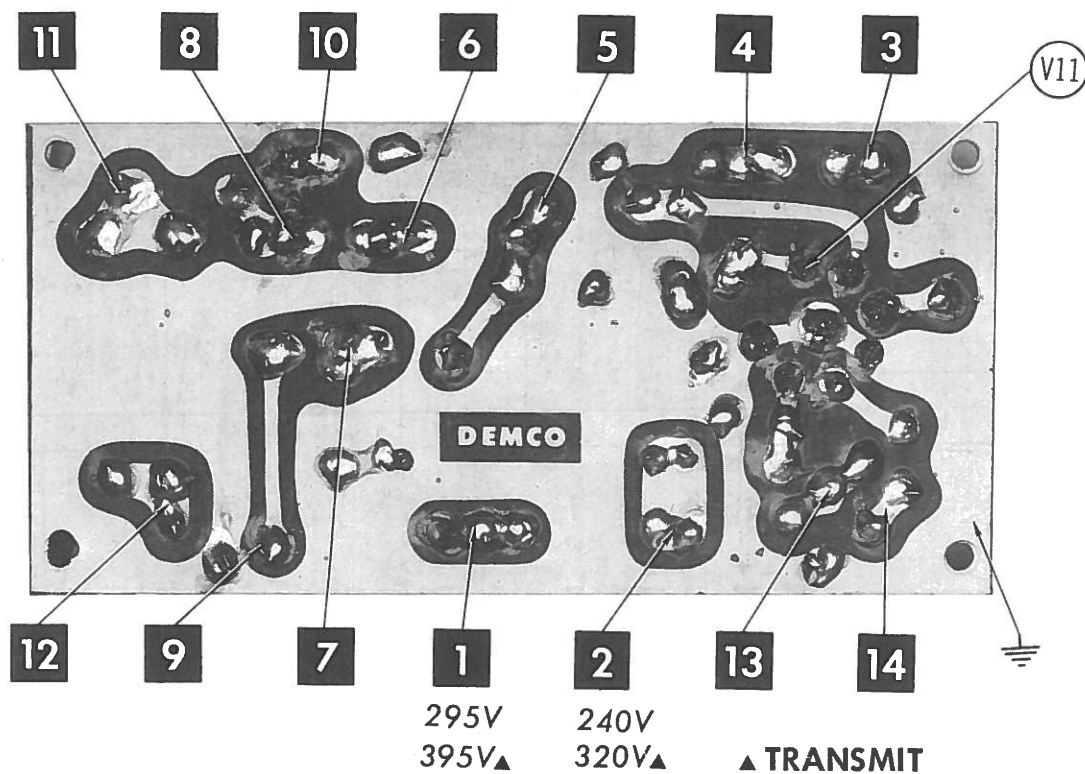


RECEIVER

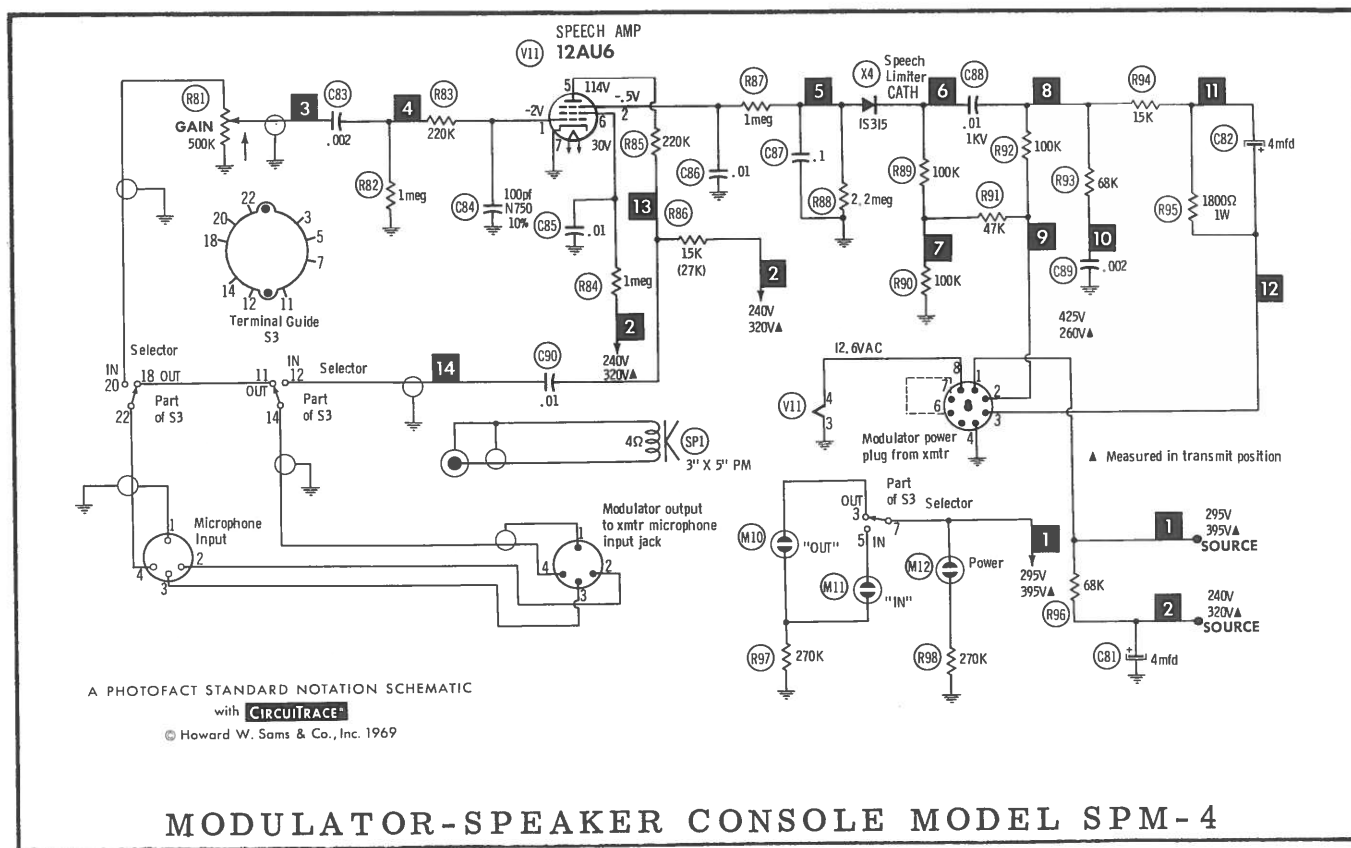


RECEIVER

DEMCO MODEL Satelite Deluxe



MODULATOR-SPEAKER



RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12
V1	6CW4		INF		2meg				0Ω		F IL		FIL
V2	6CW4		60K†		INF				INF		FIL		FIL
V3	6GH8	45K†	1.4meg	20K*	FIL	FIL	150K†	0Ω	68Ω	100K			
V4	6C4	NC	NC	FIL	FIL	35K†	47K	2Ω					
V5	6GH8	50K†	100K	33K†	FIL	FIL	33K†	220Ω	.2Ω	10K			
V6	12BA6	1.3meg	0Ω	FIL	FIL	2200Ω†	46K†	68Ω					
V7	12BA6	1.3meg	0Ω	FIL	FIL	2200Ω†	31K†	68Ω					
V8	6AL5	780K#	500K#	FIL	FIL	780K#	0Ω	800K#					
V9	6AU6	NC	NC	FIL	FIL	680K†	1.2meg†	6800Ω					
V10	6GW8	NC	NC	1400Ω†	FIL	FIL	1700Ω†	220Ω	47K	34K†			
V11	12AU6	1.2meg	3.3meg	FIL	FIL	33K†	120K†	0Ω					
V12	12AT7	160K†	470K	680Ω	FIL	FIL	280K†	4.7meg	1500Ω	FIL			
V13	6BQ5	NC	220K	177Ω▲	FIL	FIL	NC	1200Ω†	NC	1500Ω†			
V14	6U8A	32K†	100K	75K†	FIL	FIL	32K†	0Ω	0Ω	47K			
V15	6GH8	28K†	100K	28K†	FIL	FIL	4600Ω†	150Ω▲	180Ω▲	47K			
V16	6AU8	27Ω▲	68K	50Kπ	FIL	FIL	150Ω▲	27K	55K†	50K†			
V17	6BQ5	NC	24K	22Ω▲	FIL	FIL	NC	1600Ω†	NC	6300Ω†			
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12

† Measured from output of X6 with selector in Xtal position.

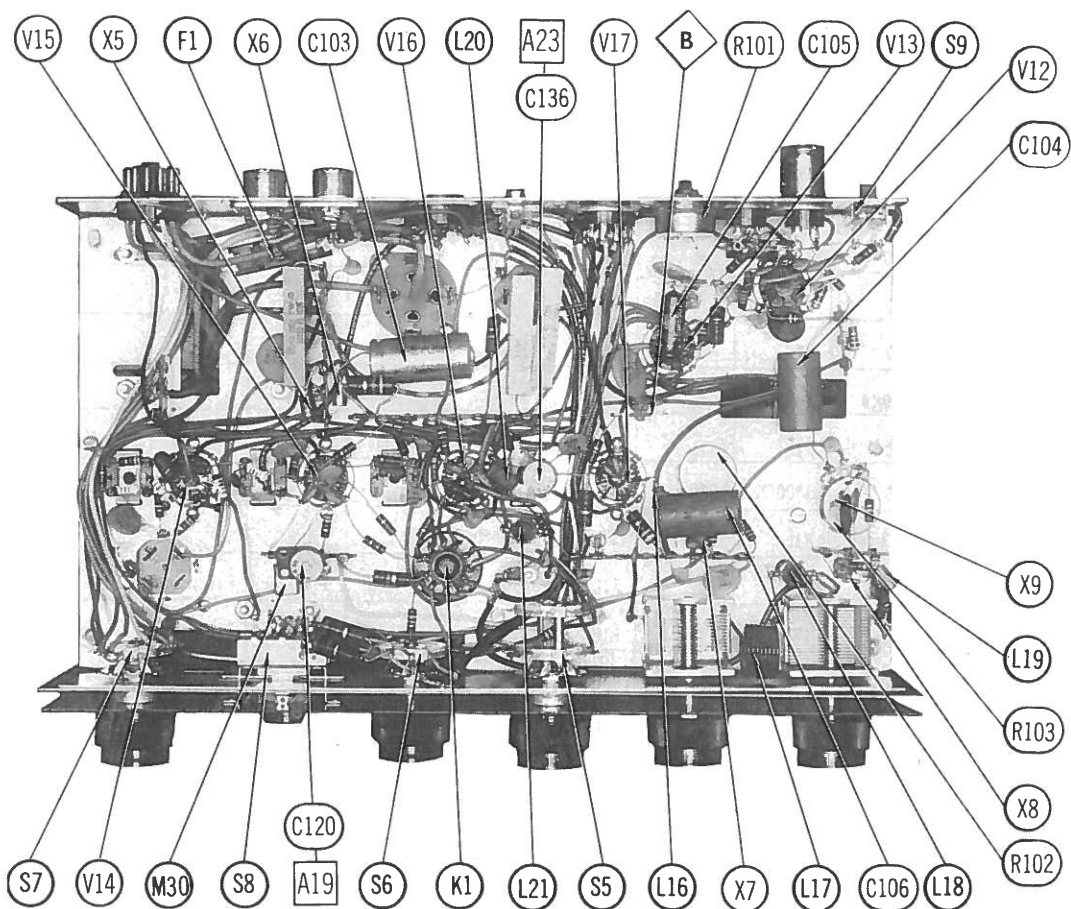
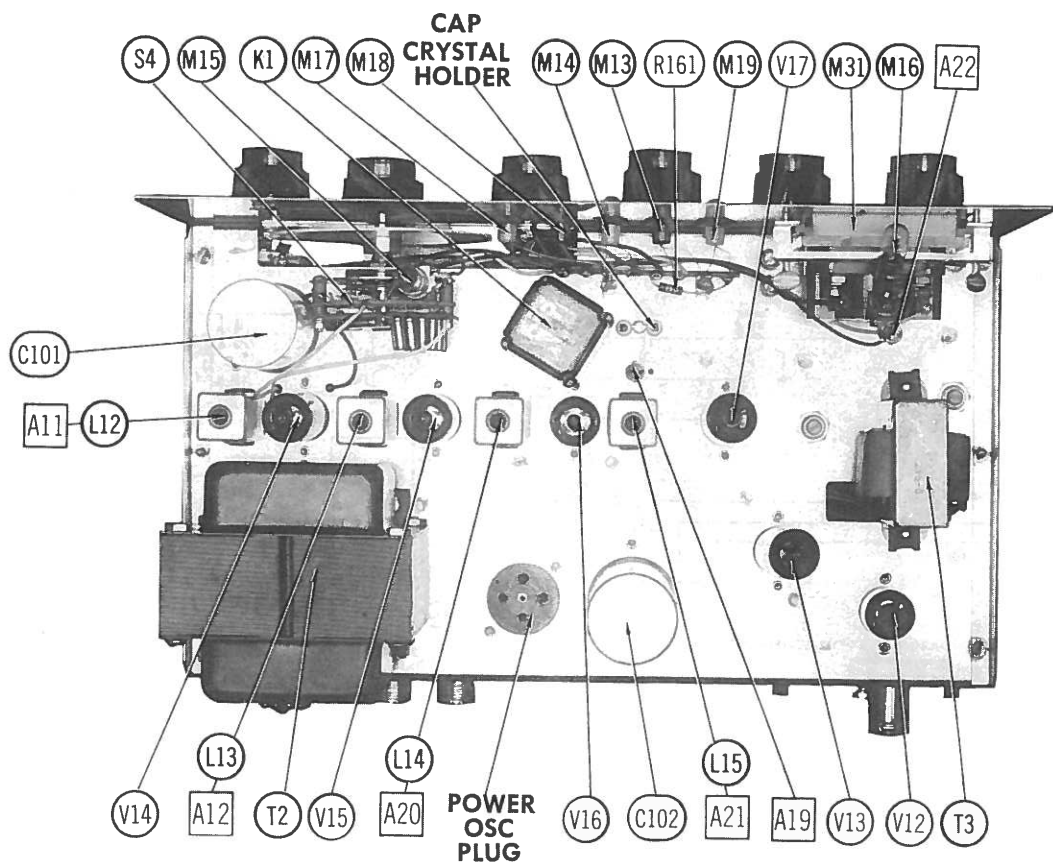
π Measured from output of X6 with selector in C.A.P.

† Measured from output of X6.

* Depends on setting of Squelch Control.

ANL Switch in on position.

▲ Measured with Pin 2 of K1 grounded.



TRANSMITTER

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.

ALIGNMENT INSTRUCTIONS

SUGGESTED ALIGNMENT TOOLS:

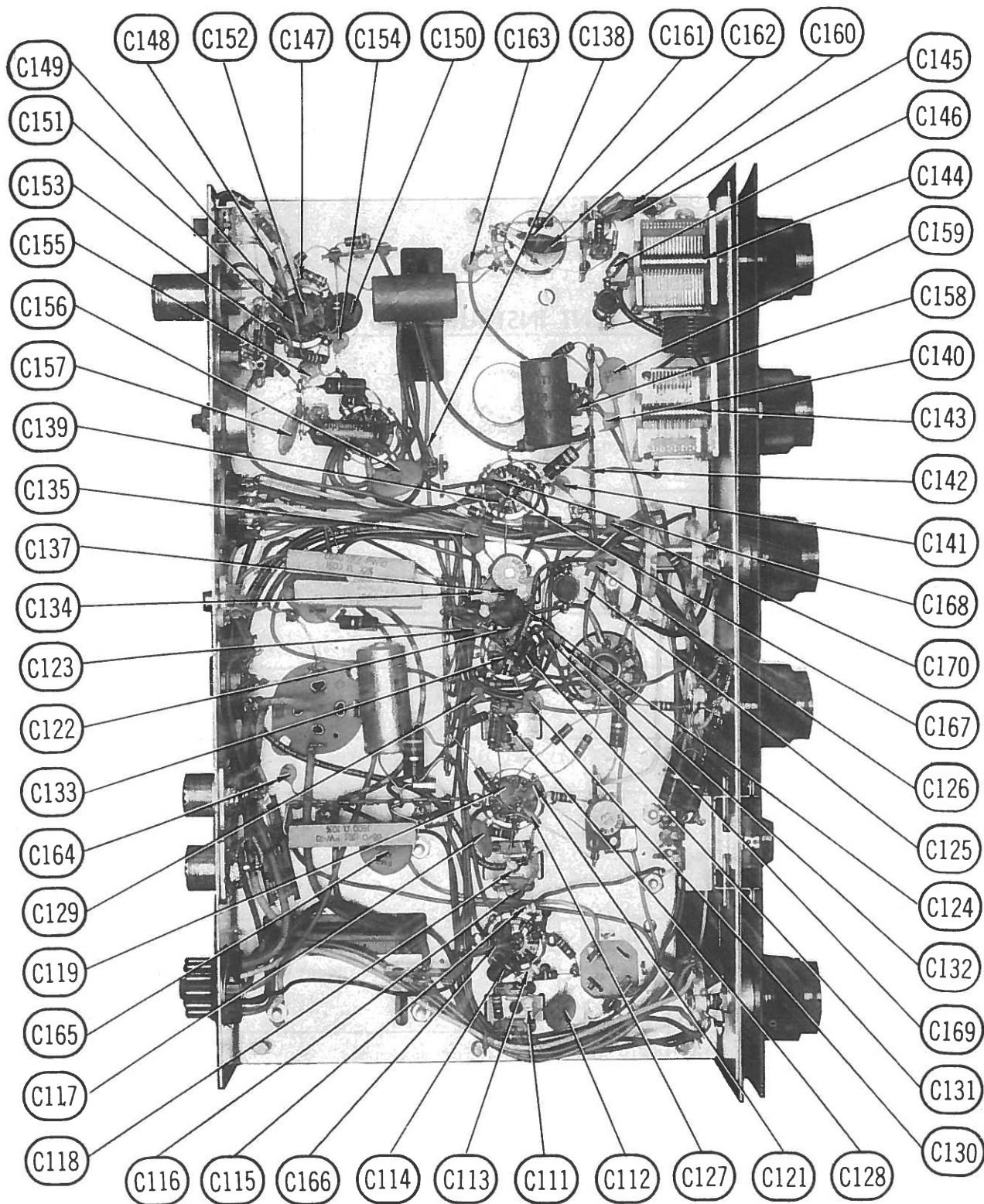
A18,A22.	GENERAL CEMENT: 9150	WALSCO: 2586
A19.	GENERAL CEMENT: 5000	WALSCO: 2525
A20,A21.	GENERAL CEMENT: 8606,8606L,8869	WALSCO: 2543,2544,2588
A23.	GENERAL CEMENT: 5004	WALSCO: 2520

Set Antenna Switch (S6) to 50 ohms internal dummy load.

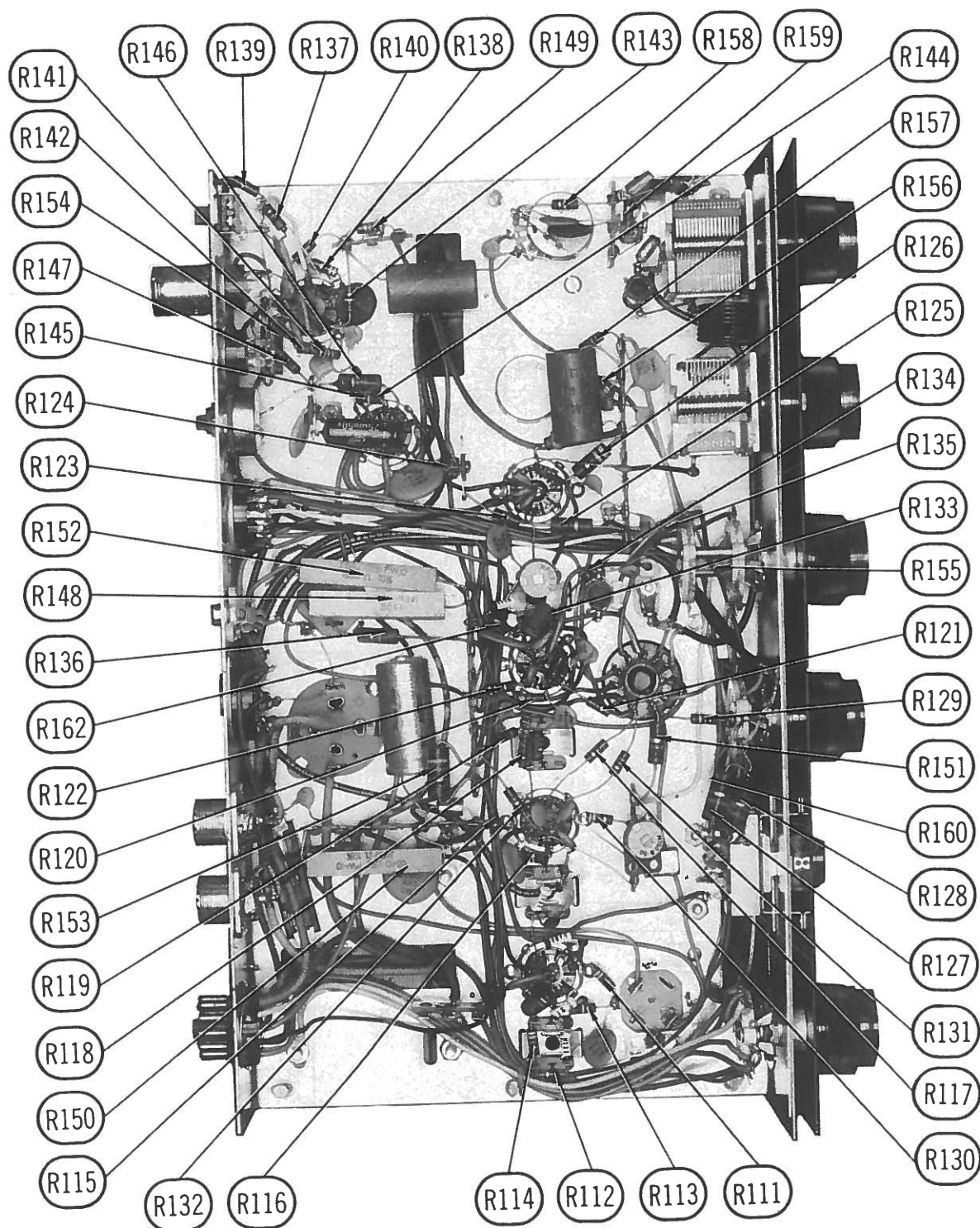
Set selector to C.A.P. position. Plug 13MC crystal into C.A.P. crystal socket. This is necessary for proper transmitter alignment.

TRANSMITTER ALIGNMENT

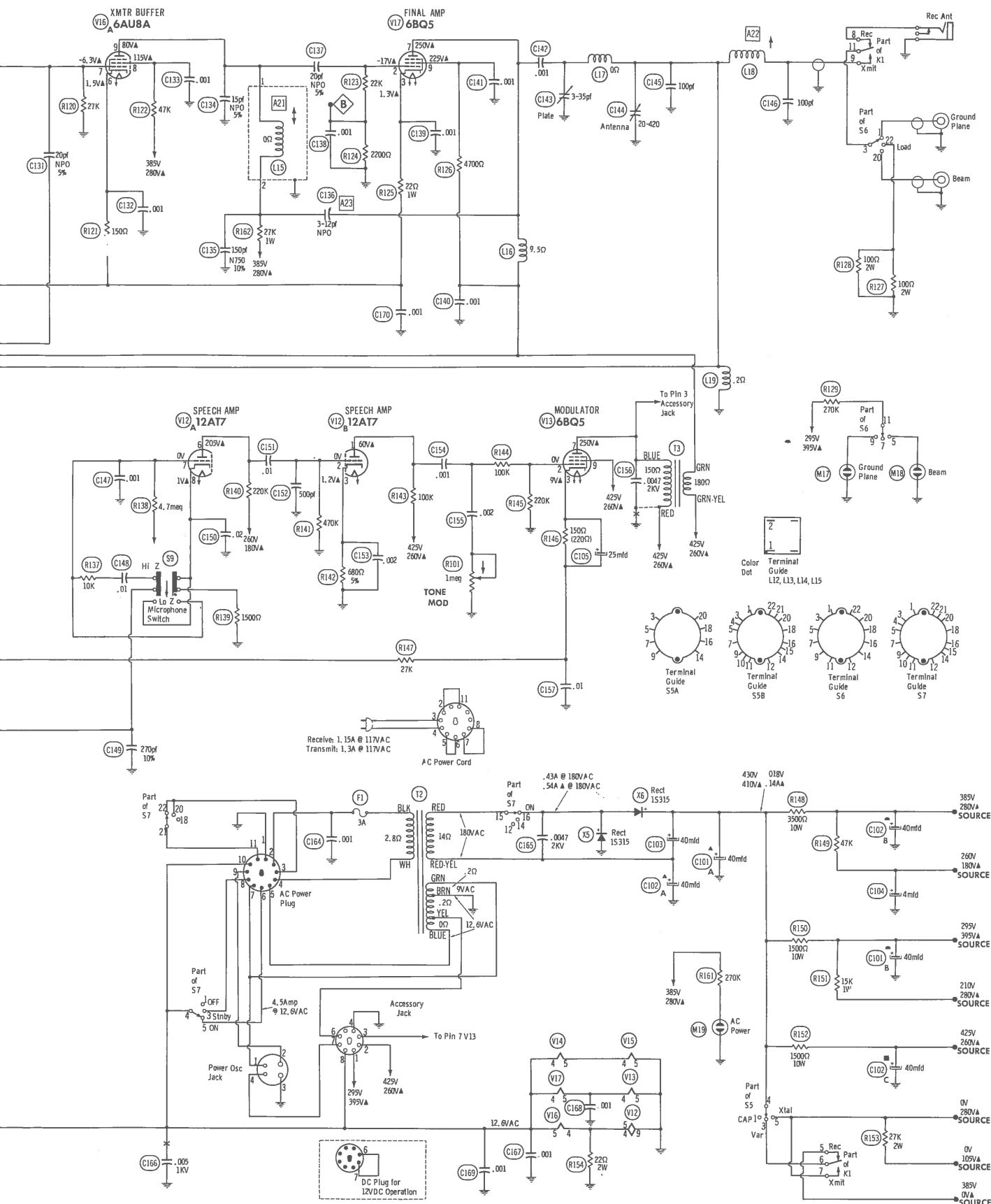
INDICATOR	ADJUST	REMARKS
Connect DC VTVM to Pin 2 (Grid) V16B (C.A.P. Osc), low side to chassis.	A18	Adjust for maximum negative reading.
DC VTVM thru 100K to Pin 7 (Grid) V16A (Xmtr Buffer), low side to chassis.	A19,A20	Adjust for maximum.
Connect DC VTVM to test point  , low side to chassis.	A21	Adjust for maximum.
Use Transmitter RF Power Meter.	A22	Tune Plate and load Trimmers (C143 & C144). Adjust A22 for maximum.
Remove V16, Key Transmitter. Use RF Power Meter on Transmitter	A23	Adjust for Zero indication. Rock Plate Trimmer (C143) thru entire range to see if meter remains at zero. If it does, the transmitter is neutralized.



TRANSMITTER



TRANSMITTER



DEMCO MODEL Satellite Deluxe

TRANSMITTER

PARTS LIST AND DESCRIPTION

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

RECEIVER

TUBES

♦ AMPEREX ♦			♦ GENERAL ELECTRIC ♦			♦ RCA ♦			♦ SYLVANIA ♦		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	RF Amp	6CW4	V6	1st IF Amp	12BA6						
V2	RF Amp	6CW4	V7	2nd IF Amp	12BA6						
V3	1st Receiver Mixer-Squelch	6GH8A (6EA8)	V8	Detector-ANL	6AL5						
V4	1st Receiver Oscillator	6C4	V9	AF Amp	6AU6						
V5	2nd Receiver Mixer-2nd Receiver Oscillator	6GH8A (6EA8)	V10	AF Amp-Output	6GW8/ECL86						

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	CER71	GE-504A	8D6 or 5A6-D	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or F6	
X2	CER71	GE-504A	8D6 or 5A6-D	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or F6	
X3	1S315	GE-504A	8D6 or 5A6-D	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or F6	

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.
C1	40 250V		PRS1580		BR40-250	QT1-14	TC58A	TVA-1511
C2	30 150V		PRS1460		BR30-150	QT1-13	TC47A	TVA-1412
C3	25 50V		CRE762A	EA50-25	NLW25-50	MT1-17	TT50X25	TL-1305.1

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C11	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C12	27 N750 10%			TCN-27		CCTN-270	CN7427	10TCU-Q27
C13	33 NPO 5%			DTZ-33			CNO433	10TCC-Q33
C14	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C15	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C16	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C17	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C18	15 NPO 5%			TCZ-15	CZ601CG501J		CNO415	10TCC-Q15
C19	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C20	47 NPO 5%			TCZ-47			CNO447	10TCC-Q47
C21								
C22	3-12 NPO			822-FZ				
C23	10 NPO 10%		NPO-DI 10	DTZ-10	CZ601CG100K	CCTO-100	CNO410	10TCC-Q10
C24	27 N220 10%					*	*	10TCR-Q27
C25	100 NPO 10%		NPO-DI 100	DTZ-100	CV601CG101K	CCTO-100	CNO310	10TCC-T10
C26	15 NPO			TCZ-15	CZ601CG150K	CCTO-150	CNO415	10TCC-Q15
C27	150 NPO		NPO-DI 150	DTZ-150		CCTO-151	CNO315	10TCC-T10
C28	15 N750 5%			DTN-15	CZ601UJ150J		CN7415	10TCU-Q15
C29	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C30	10 NPO			TCZ-10	CZ601CG100K	CCTO-100	CNO410	10TCC-Q10
C31	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C32	27 N750 10%			TCN-27		CCTN-270	CN7427	10TCU-Q27
C33	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C34	3.5 NPO 10%							
C35	18 NPO 10%			TCZ-18	CY601CG180K	CCTO-180	CNO418	10TCC-Q15
C36	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C37	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C38	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C39	200 N750 10%		N750-DI 200	DTN-200		CCTN-201	CN7320	10TCU-T20
C40	200 N750 10%		N750-DI 200	DTN-200		CCTN-201	CN7320	10TCU-T20
C41	10 NPO			TCZ-10	CZ601CG100K	CCTO-100	CNO410	10TCC-Q10
C42	500		GPD X5F501K	DD-501	JBZ601YP500K	CCD-501	GP250	10TS-T50
C43	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C44	1.5 NPO			TCZ-1R5			CNO515	10TCC-V15
C45	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C46	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10

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.
C47	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C48	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C49	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C50	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C51	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C52	100		GPD X5F101K	DD-101	JBZ601YP101K	CCD-101	GP310	10TS-T10
C53	200	N750 10%	N750-DI 200	DTN-200		CCTN-201	CN7320	10TCU-T20
C54	.05	50V	TTP-05	CK-503	HOV101ZV503Z		TA150	TG-S50
C55	.005	1KV	GPD X5F471K	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C56	.1	25V	TTP-1	CK-104	HOV101ZV104Z		TA010	TG-P10
C57	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C58	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C59	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C60	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C61	.1	200V	DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C62	.1	400V	DBE4P1	DF-104	DMF4P1	4DP-3-104	PVC401	4PS-P10
C63	.1	400V	DBE4P1	DF-104	DMF4P1	4DP-3-104	PVC401	4PS-P10
C64	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C65	.005		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C66	270	10%	GPD X5F271K	DD-271		CCD-271	GP327	10TS-T27
C67	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C68	.02	1.4KV					UAC120	
C69	.01	1KV	GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C70	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C71	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C72	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C73	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C74	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10

* 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	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	500K	(DSQ-500)	F1-500K,SF106, BA010,CA005		QCB2(1),B11-133, TMS or (BU3, CF16,SS1,DC1)*	P55L,3058,SF300D or (RU55L, SL41(2),SF100D)
R2	Squelch	500K	(DSQ-500)	F1-500K,SF106, BA010,CA005		QCB2(1),B11-133, TMS or (BU3, CF16,SS1,DC1)*	P55L,3058,SF300D or (RU55L, SL41(2),SF100D)
R3	Fine Tune	500K	(DSQ-500)	F1-500K,SF106, BA010,CA005		QCB2(1),B11-133, TMS or (BU3, CF16,SS1,DC1)*	P55L,3058,SF300D or (RU55L, SL41(2),SF100D)
R4	Tone & Switch	1.5meg	(DTA-60)	F1-1.5meg, SPU304,KR-8	NP-1.5meg-S, UPP-B-400,NWG-18	B11-138,SK7 or (BU2,CF18, SS10,K)*	PP155L or (P155L,SL39, FPP-1)
R5	"S" Meter Adjust	100K (500K)	(DSM-100)	F1-100K,SNK010	A47-100K-S, FKS-1/2 or (NP-100K-S, NML-A-300)	B11-128,SK6 or (BU1,CF13,SS6)*	UA15L,SN1000 or (RU15L,SL38, SN1000 or SU41)

* "SNAPTROL".

(1) Use QCB2 instead of TM in TMS kit.

(2) Alter bushing to meet requirements.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Input RF	(DRA-27)			
L2	Output RF	(DRB-27)			
L3	1st Receiver Oscillator				
L4	RFC (4.7uh)			74F476AP	T819
L5	1st Receiver Oscillator	(DMC-212)			
L6	Input IF	(DC-202)	19-2011	4606	T857
L7	RFC (2.4uh)				
L8	Interstage IF	(DMC-501A)		12-C30	
L9	Interstage IF	(DMC-501A)		12-C30	
L10	Interstage IF	(DMC-501A)		12-C30	
L11	Output IF	(DMC-501A)		12-C31	

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.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	4600	4	(DCB-102)					

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	Xmit Indicator		Red - CHICAGO MINIATURE Replacement CM-22-1000-02-A1A.
M2	Xtal Receiver Indicator		White - CHICAGO MINIATURE Replacement CM-22-1000-05-A1A.
M3	Variable Receiver Indicator		Red - CHICAGO MINIATURE Replacement CM-22-1000-02-A1A.
M4	AC Power Indicator		Red - CHICAGO MINIATURE Replacement CM-22-1000-02-A1A.
M5	Meter Lamp		CHICAGO MINIATURE Replacement CM-1891.
M6	Dial Lamp		CHICAGO MINIATURE Replacement CM-1891.
M7	Receiver Indicator		White - CHICAGO MINIATURE Replacement CM-22-1000-05-A1A.
M8	Crystal		2nd Receiver Oscillator
M9	Meter		"S" Indicator
S1	Switch		Audio Comp - RF Gain (L-D)
S2	Switch		Earphone - Speaker DPDT

MODULATOR

TUBES

◆ AMPEREX ◆			◆ GENERAL ELECTRIC ◆			◆ RCA ◆			◆ SYLVANIA ◆		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V11	Speech Amp	12AU6									

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X4	1S315	GE-504A	8D6 or 5A6-D	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or F6	

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.
C81	4	450V		PRS1710		BR4-450	QT1-2.1	TC697A
C82	4	450V		PRS1710		BR4-450	QT1-2.1	TC697A

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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.
C83	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C84	100 N750 10%		N750-DI 100	DTN-100	CX601UJ100K	CCTN-101	CN7310	10TCU-T10
C85	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C86	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C87	.1 100V		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C88	.01 1KV		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C89	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C90	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R81	Modulator Gain	500K	(DSQ-500)	F1-500K, SF106, BA010, CA005		QCB2(1), B11-133, TMS or (BU3, CF16, SS1, DC1)*	P55L, 3058, SF300D or (RU55L, SL41(2), SF100D)

* "SNAPTROL".

(1) Use QCB2 instead of TM in TMS kit.

(2) Alter bushing to meet requirements.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA			NOTES
		MFGR. PART No.	JENSEN PART No.	QUAM PART No.	
SP1	3" X 5" PM 4 ohms		PC3X5V3	35C3	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M10	"OUT" Indicator		White - CHICAGO MINIATURE Replacement CM-22-1000-05-A1A.
M11	"IN" Indicator		Red - CHICAGO MINIATURE Replacement CM-22-1000-02-A1A.
M12	Power Indicator		Red - CHICAGO MINIATURE Replacement CM-22-1000-02-A1A.
S3	Switch		Selector

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.)

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSMITTER

TUBES

AMPEREX			GENERAL ELECTRIC			RCA			SYLVANIA		
ITEM No.	USE		TYPE			ITEM No.	USE		TYPE		
V12 V13 V14	Speech Amp Modulator 37MC - 4MC Oscillator		12AT7 6BQ5 6U8A			V15 V16 V17	Xmtr Mixer - 6MC Oscillator Xmtr Buffer - C.A.P. Osc. Final Amp		6GH8 (6EA8) 6AU8A 6BQ5		

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X5	1S315	GE-504A	8D6 or 9DD6A (3)	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5960-2 (3)	
X6	1S315	GE-504A	8D6 or 9DD6A (3)	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5960-2 (3)	
X7	1S315	GE-504A	8D6 or 5A6-D	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or F6	
X8	1N60	1N60	1N60	ECG 109			
X9	1N60	1N60	1N60	ECG 109			

(3) A single unit replacement for both rectifiers.

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.
C101A	40	450V		AFH2-57		BB0455A	QT2-8	FP238A
B	40	450V						
C102A	40	450V		AFH-344		CC0350A		FP377.1A
B	40	450V						
C	40	450V						
C103	40	250V		PRS1580		BR40-250	QT1-14	TC58A
C104	4	450V		PRS1710		BR4-450	QT1-2.1	TC697A
C105	25	50V		CRE762A	EA50-25	NLW25-50	MT1-17	TT50X25
C106	4	450V		PRS1710		BR4-450	QT1-2.1	TC697A

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.
C111	10	NPO			TCZ-10	CZ601CG100K	CCT0-100	CN0410	10TCC-Q10
C112	.005	1KV		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C113	1.5	NPO			TCZ-1R5			CN0515	10TCC-V15
C114	47	NPO 5%			TCZ-47	CX601CG470K		CN0447	10TCC-Q47
C115	10	NPO			TCZ-10	CZ601CG100K	CCT0-100	CN0410	10TCC-Q10
C116	3.5	NPO 10%		NPO-DI 3.0	DTZ-3R3		CCT0-3R3	CN0533	10TCC-V30
C117	.01			GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C118	10	NPO			TCZ-10	CZ601CG100K	CCT0-100	CN0410	10TCC-Q10
C119	.002			GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C120	8-50	N750			822-AN				
C121	.002			GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C122	27	N220 10%					*		10TCR-Q27
C123	100	NPO 10%		NPO-DI 100	DTZ-100	CV601CG101K	CCT0-101	CN0310	10TCC-T10
C124	.01			GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C125	15	NPO 5%			TCZ-15	CZ601CG150J		CN0415	10TCC-Q15
C126	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C127	27	N220 10%					*		10TCR-Q27
C128	6.8	NPO 5%			TCZ-6R8	CZ601CH6R8D		CN0568	10TCC-V68
C129	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C130	33	N470 10%					*		10TCT-Q33
C131	20	NPO 5%			TCZ-20			CN0420	10TCC-Q20
C132	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C133	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C134	15	NPO 5%			TCZ-15	CZ601CG150J		CN0415	10TCC-Q15
C135	150	N750 10%		N750-DI 150	DTN-150		CCTN-151	CN7315	10TCU-T15
C136	3-12	NPO			822-FZ				
C137	20	NPO 5%			TCZ-20				
C138	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	CN0420	10TCC-Q20
C139	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C140	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C141	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C142	.001			GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C143	3-35								
C144	20-420								
C145	100			GPD X5F101K	DD-101	JBZ601YP101K	CCD-101	GP310	10TS-T10
C146	100				CPR-100J	CD10E111J500	DM-10-101J	SX310	MS-310

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.
C147	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C148	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C149	270	10%	GPD X5F271K	DD-271		CCD-271	GP327	10TS-T27
C150	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C151	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C152	500		GPD X5F501K	DD-501	JBZ601YP501K	CCD-501	GP350	10TS-T50
C153	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C154	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C155	.002		GPD X5F202K	DD-202	JBX601YP202K	CCD-202	GP220	10TS-D20
C156	.0047 2KV			DD30-472			2HV247	30GA-D47
C157	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C158	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C159	.01		GPD X5S103K	DD-103	BYX601ZU103M	CCD-103	JF110	10TS-S10
C160	6.8 NPO 5%			TCZ-6R8	CZ601CH6R8D		CN0568	10TCC-V68
C161	100 N330 10%					*	*	10TCS-T10
C162	.02		GPD Z5U203P	DD-203	BYT601ZU203Z	CCD-203	GP120	10TS-S20
C163	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C164	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C165	.0047 2KV			DD30-472			2HV247	30GA-D47
C166	.005 1KV		GPD X5R502K	DD-502	JBT601YP502K	CCD-502	JF250	10TS-D50
C167	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C168	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C169	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C170	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10

* 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.	CLAROSTAT PART No.	CTS-IRC PART No.
R101	Modulation Tone	1meg	(DNM-209)	F1-1meg, SNK010	A47-1meg-S, FKS-1/2 or (NP-1meg-S, NML-A-300)	B11-137, SK6 or (BU1, CF17, SS6)*
R102	Meter Adjust (Modulation)	100K	(DSM-100)	F1-100K, SNK010	A47-100K-S, FKS-1/2 or (NP-100K-S, NML-A-300)	B11-128, SK6 or (BU1, CF13, SS6)*
R103	Meter Adjust (Watts)	25K	(DRF-25)	F1-25K, SNK010	A47-25K-S, FKS-1/2 or (NP-25K-S, NML-A-300)	B11-120, SK6 or (BU1, CF11, SS6)*

* "SNAPTROL".

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFGR. PART No.			IRC PART No.	WORKMAN PART No.	MFGR. PART No.
R148	3500 10W	PW10-3500	10W-SQ 3.5K		RJ52	1500 10W	PW10-3500	10W-SQ 3.5K	
R150	1500 10W	PW10-3500	10W-SQ 3.5K						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L12	37MC Oscillator	(DMC-212)			
L13	4MC Oscillator	(DMC-212)			
L14	Xmtr Mixer	(DMC-212)			
L15	Xmtr Buffer	(DMC-212)			
L16	RFC (1.2uh)				
L17	Plate Load (8 turns)				
L18	Antenna Load				
L19	RFC (4.7uh)			74F476AP	
L20	RFC (4.7uh)			74F476AP	
L21	C.A.P. Oscillator				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Power)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
				MFRG. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC. 1	SEC. 2						
T2	117VAC 1.15A 1.3A #	180VAC .43A .54A #	9VAC 2.9A *	(P-4341)					# Transmit * Standby
	SEC. 3	SEC. 4	SEC. 5						
	8.5VAC	12.6VAC 4.5A							

TRANSFORMER (Audio Output)

ITEM No.	TURNS RATIO		REPLACEMENT DATA					NOTES
			MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	PRI.	SEC.						
T3	1	1	(D-612)					

FUSE DEVICES

ITEM No.	DESCRIPTION		REPLACEMENT DATA					
			PART No.		BUSS PART No.		LITTELFUSE PART No.	
			DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	3 Amp	250V			AGC 3	4405	312002	357001

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay		Receive-Transmit
M13	C.A.P. Indicator		(Red) CHICAGO MINIATURE Replacement CM-22-1000-02-A1A.
M14	CB Indicator		(White) CHICAGO MINIATURE Replacement CM-22-1000-05-A1A.
M15	Dial Lamp		CHICAGO MINIATURE Replacement CM-1891.
M16	Meter Lamp		CHICAGO MINIATURE Replacement CM-1891.
M17	Ground Plane Indicator		(White) CHICAGO MINIATURE Replacement CM-22-1000-05-A1A.
M18	Beam Indicator		(Red) CHICAGO MINIATURE Replacement CM-22-1000-02-A1A.
M19	AC Power Indicator		(White) CHICAGO MINIATURE Replacement CM-22-1000-05-A1A.
M20	Crystal		37.75MC
M21	Crystal		37.70MC
M22	Crystal		37.65MC
M23	Crystal		37.60MC
M24	Crystal		37.85MC
M25	Crystal		37.80MC
M26	Crystal		4.625MC
M27	Crystal		4.615MC
M28	Crystal		4.595MC
M29	Crystal		4.635MC
M30	Crystal		6.0MC
M31	Meter		Modulation-Watts
S4	Switch		Channel Selector
S5	Switch		CB-C.A.P.
S6	Switch		Antenna
S7	Switch		AC Power
S8	Switch		Meter Mode Selector