

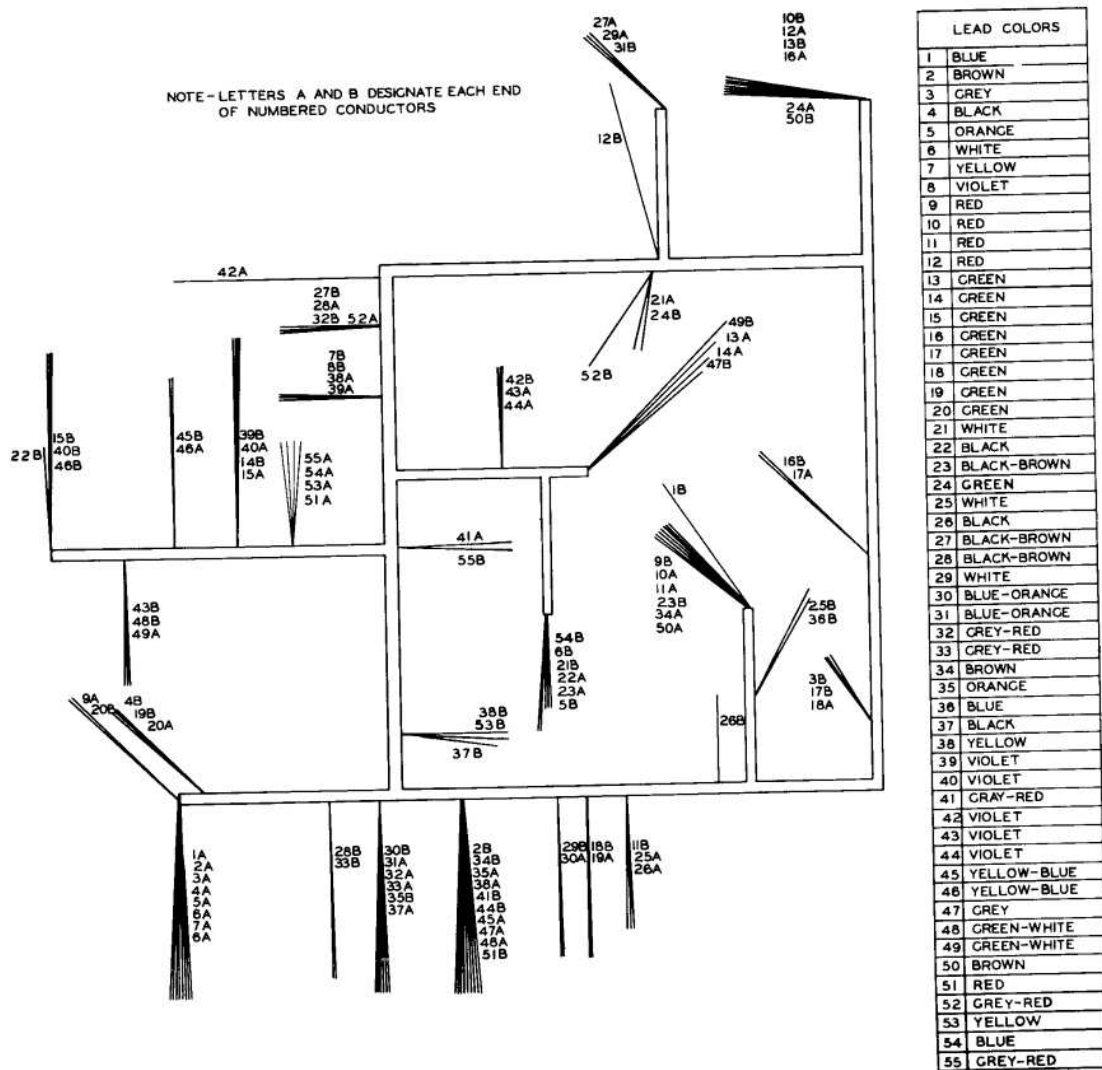


Figure 11 — Wiring Harness

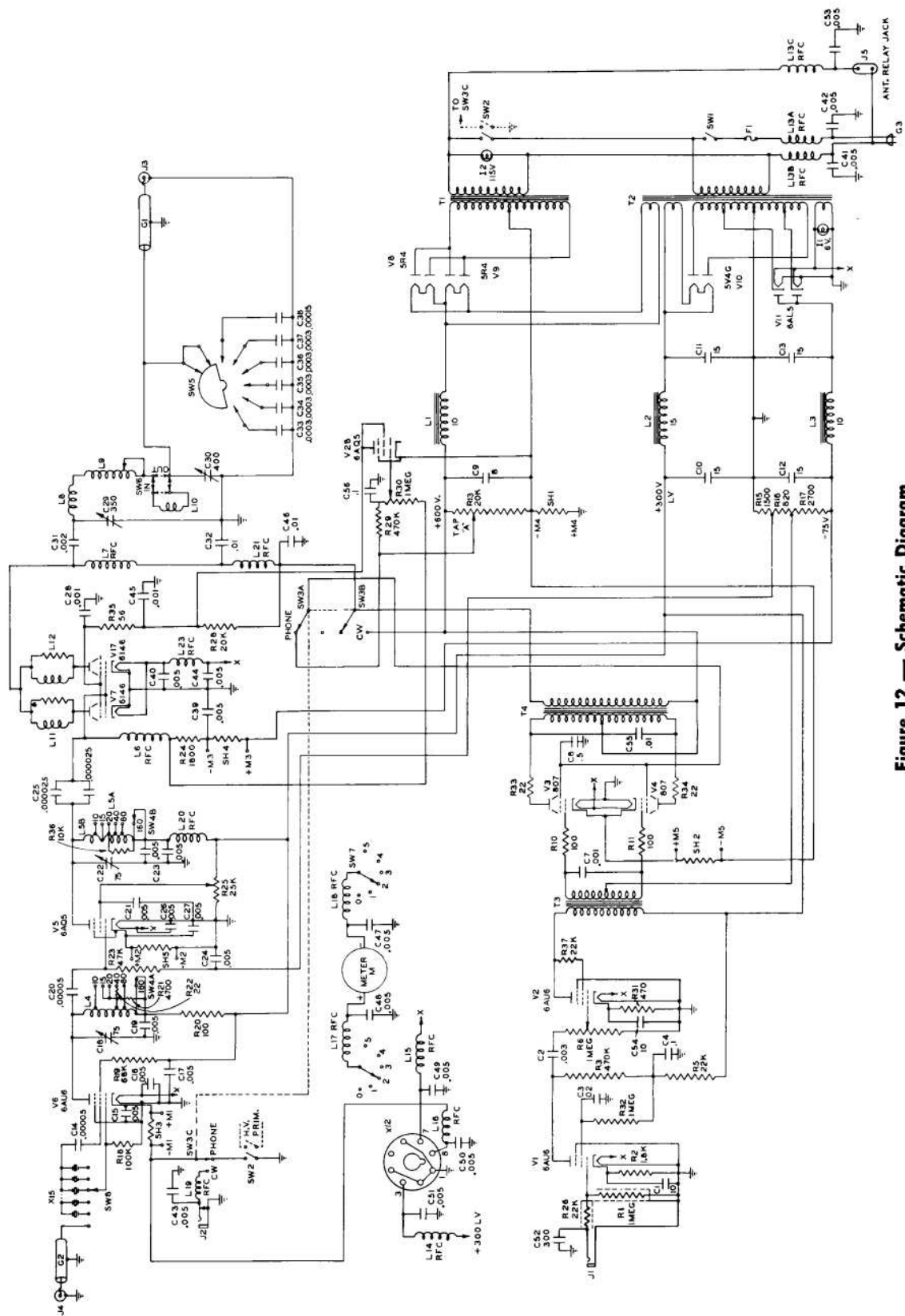


Figure 12 — Schematic Diagram

TUBE SOCKET CONNECTIONS BOTTOM VIEW

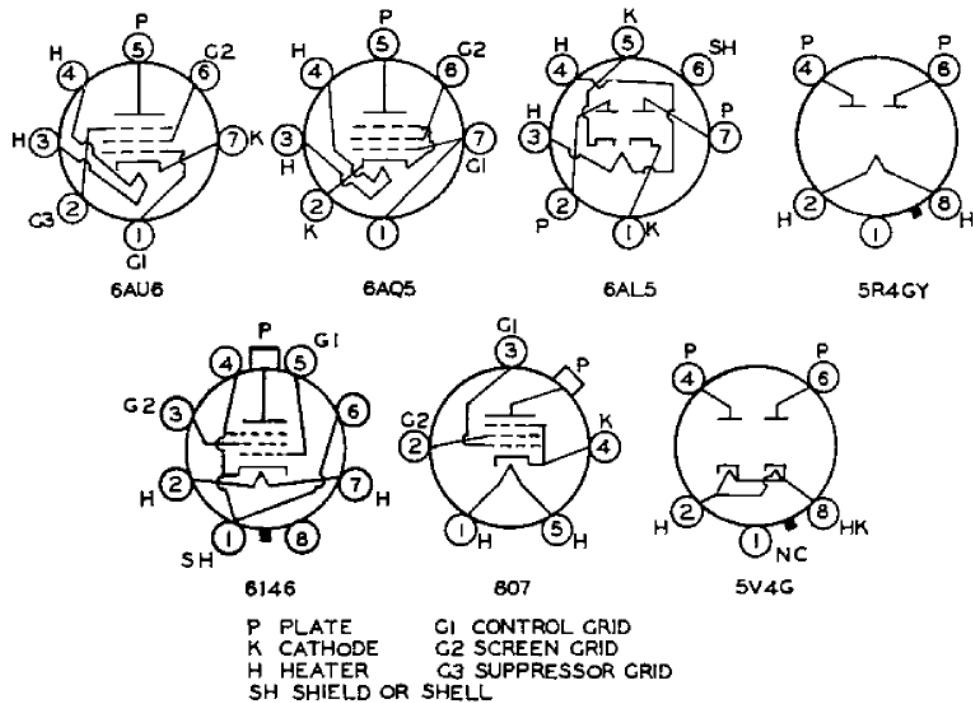


Figure 13—Socket Connections

CONDENSER-RESISTOR COLOR CODE

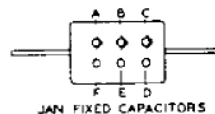
COLOR	SIGNIFICANT FIGURE	DECIMAL MULTIPLIER	TOLERANCE (%)	VOLTAGE RATING*
BLACK	0	1	1	100
BROWN	1	10	2	200
RED	2	100	3	300
ORANGE	3	1,000	4	400
YELLOW	4	10,000	5	500
GREEN	5	100,000	6	600
BLUE	6	1,000,000	7	700
VIOLET	7	10,000,000	8	800
GRAY	8	100,000,000	9	900
WHITE	9	1,000,000,000	10	1,000
GOLD	-	0.1	20	2,000
SILVER	-	0.01		500
NO COLOR	-	-		

* APPLIES TO CONDENSERS ONLY

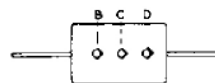


COLOR CODING OF FIXED RESISTORS

A—FIRST SIGNIFICANT FIGURE OF RESISTANCE IN OHMS
B—SECOND SIGNIFICANT FIGURE
C—DECIMAL MULTIPLIER
D—RESISTANCE TOLERANCE IN PERCENT IF NO COLOR SHOWN TOLERANCE IS $\pm 20\%$

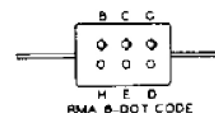


JAN FIXED CAPACITORS



RMA 3-DOT CODE 500VOLT $\pm 20\%$

COLOR CODING OF FIXED CONDENSERS
A—TYPE MICA BLACK, PAPER SILVER
B—FIRST SIGNIFICANT FIGURE OF CAPACITY
C—SECOND SIGNIFICANT FIGURE
D—DECIMAL MULTIPLIER
E—TOLERANCE
F—CHARACTERISTIC
G—THIRD SIGNIFICANT FIGURE
H—VOLTAGE RATING



RMA 6-DOT CODE

Figure 14—Resistor, Capacitor Color Code

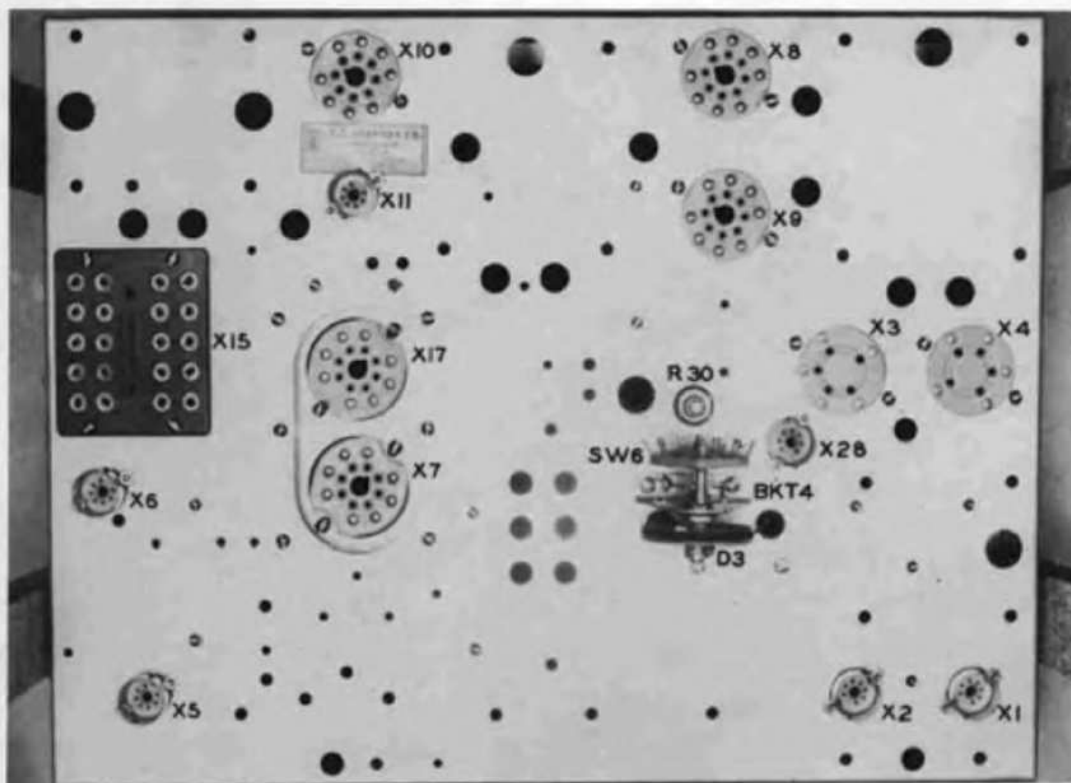


Figure 1 — Socket Mounting

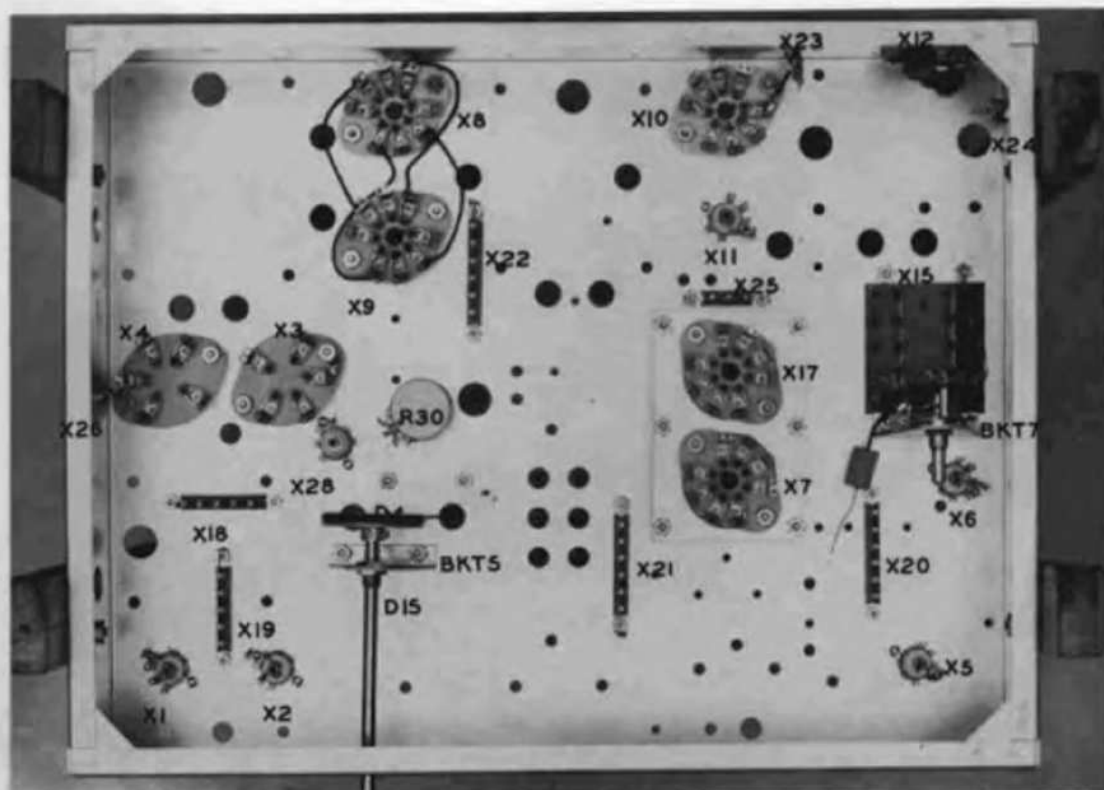


Figure 2 — Socket and Terminal Board Mounting

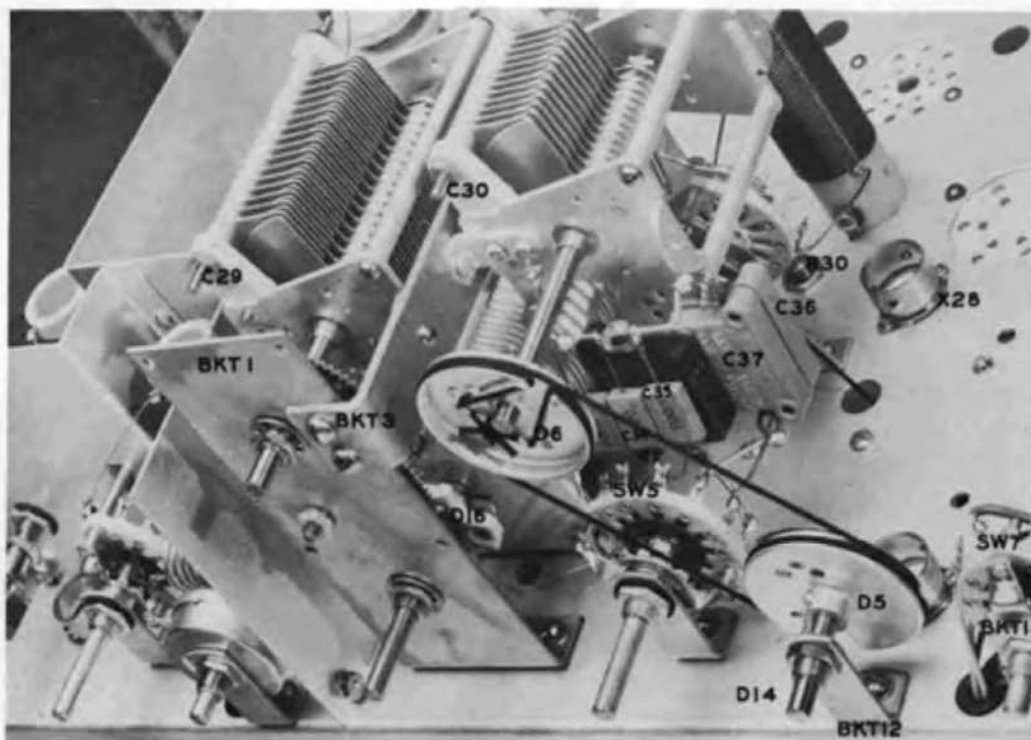


Figure 3 — PA Assembly Detail

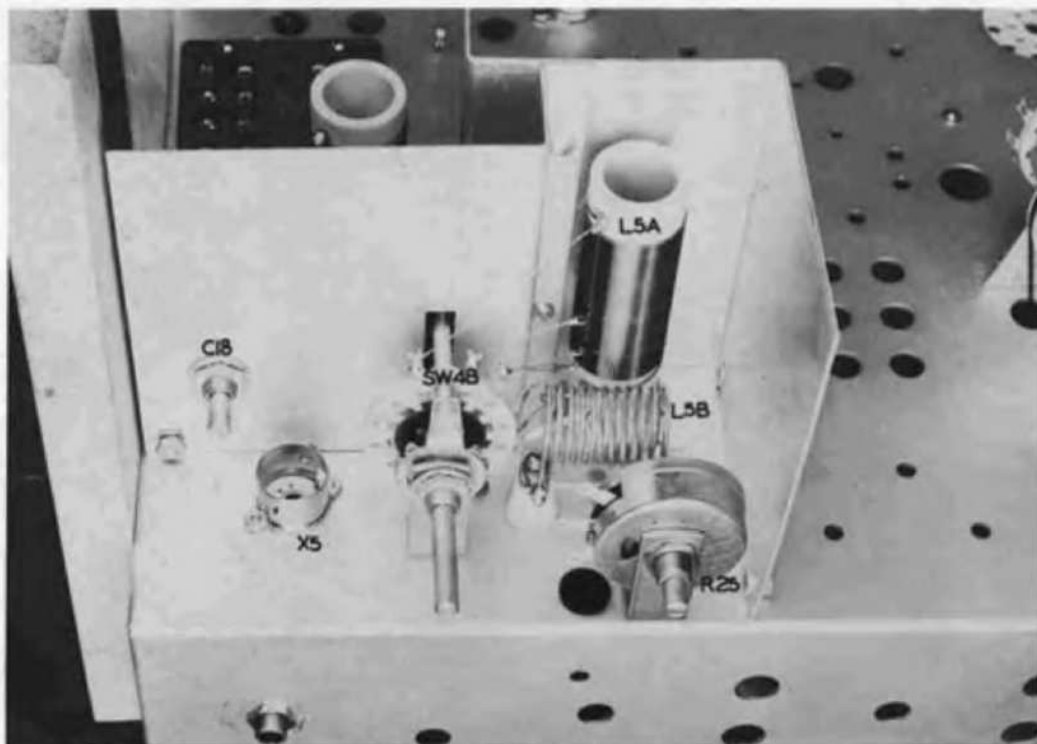


Figure 4 — Buffer Assembly Detail

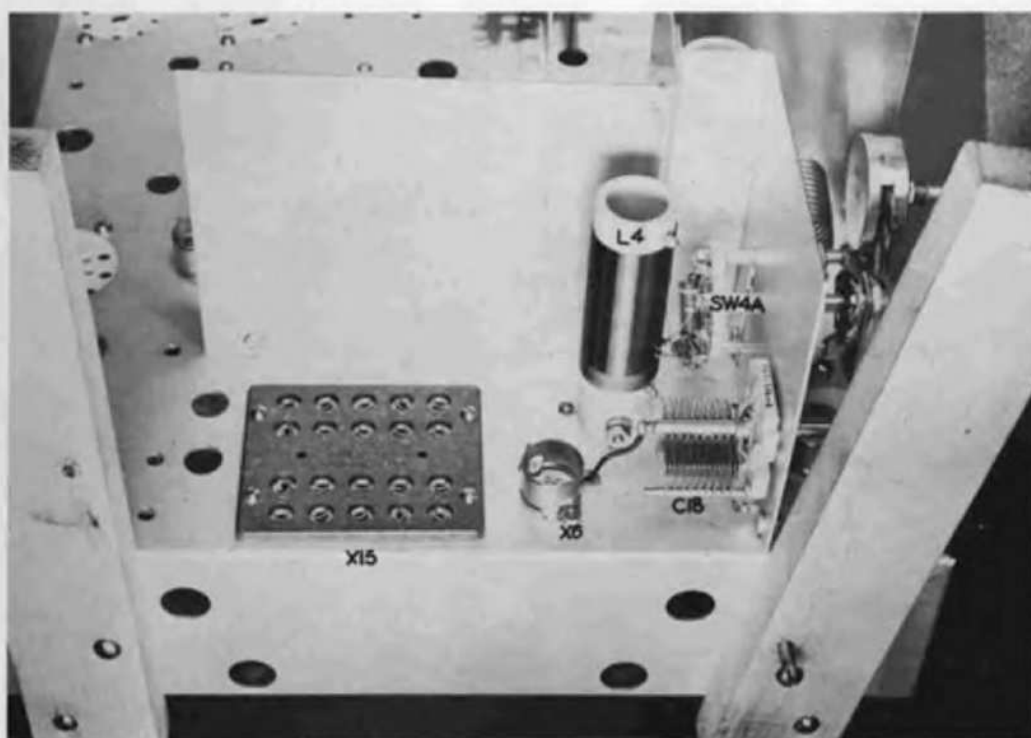


Figure 5 — Oscillator Assembly Detail

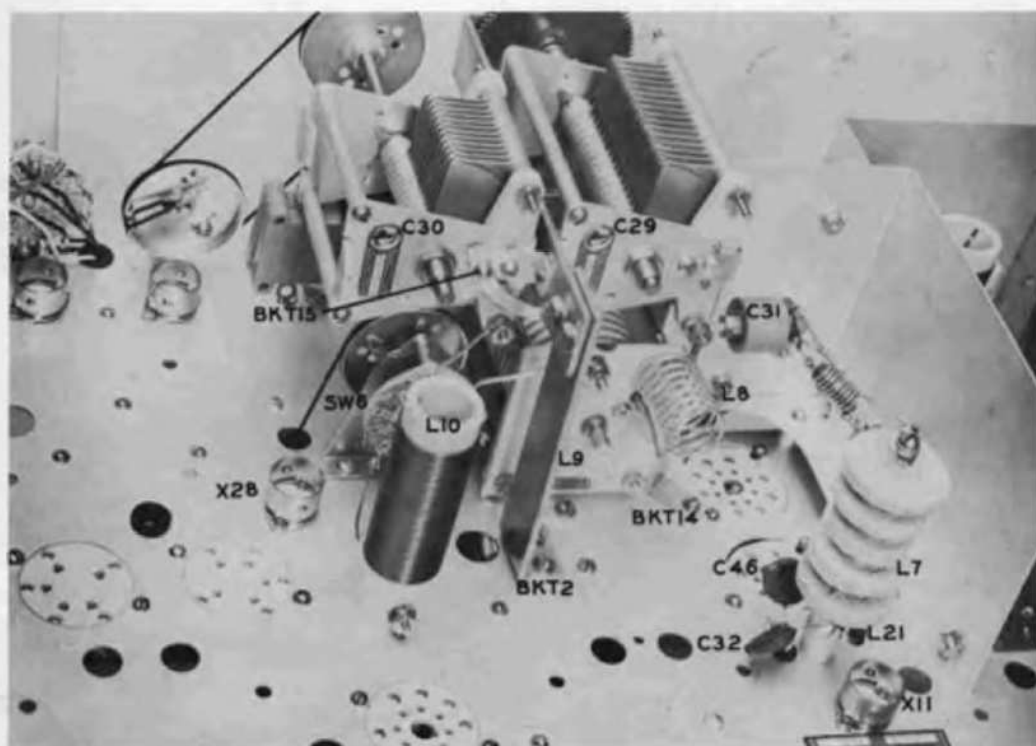
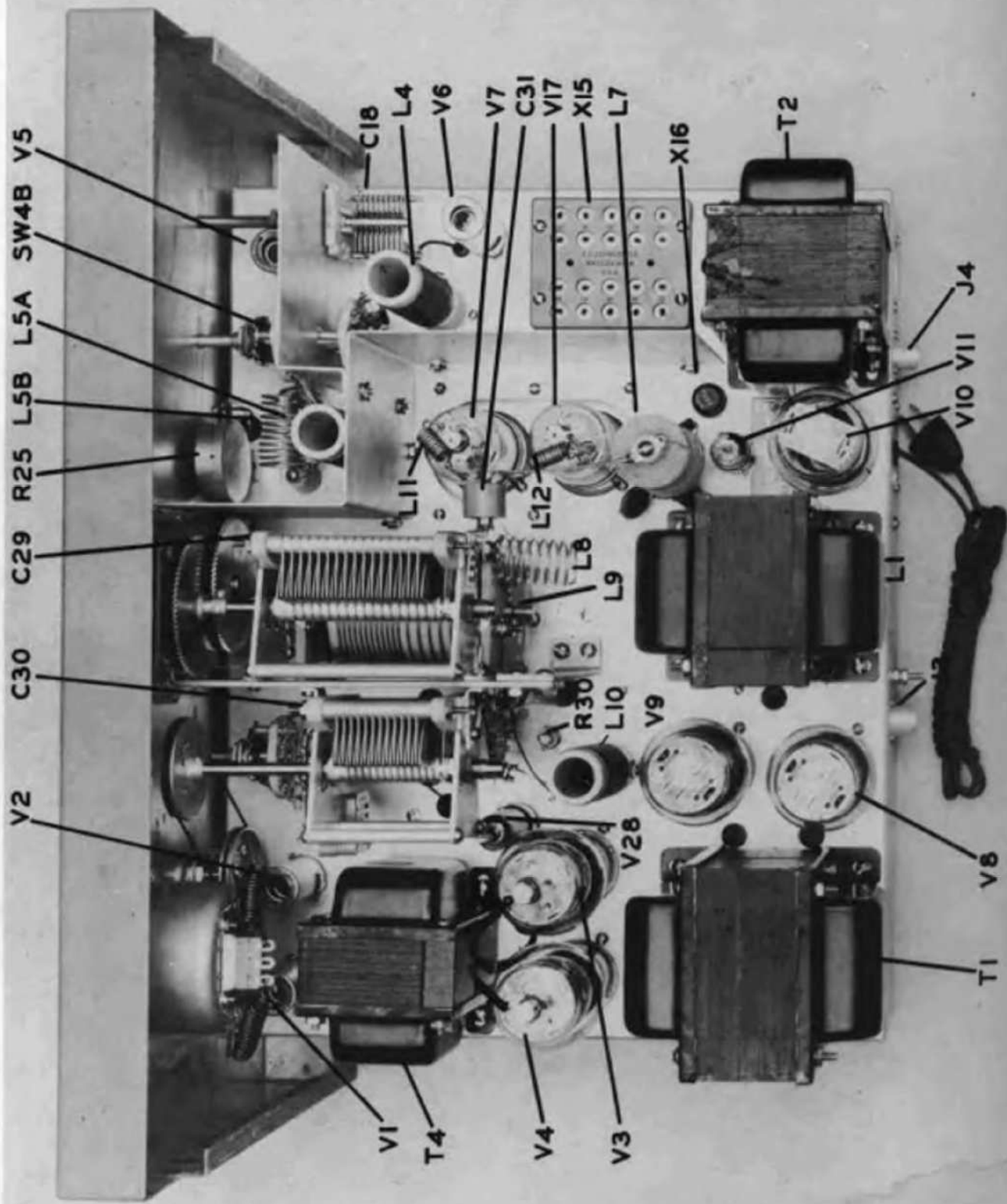


Figure 6-7 — PA Assembly Detail



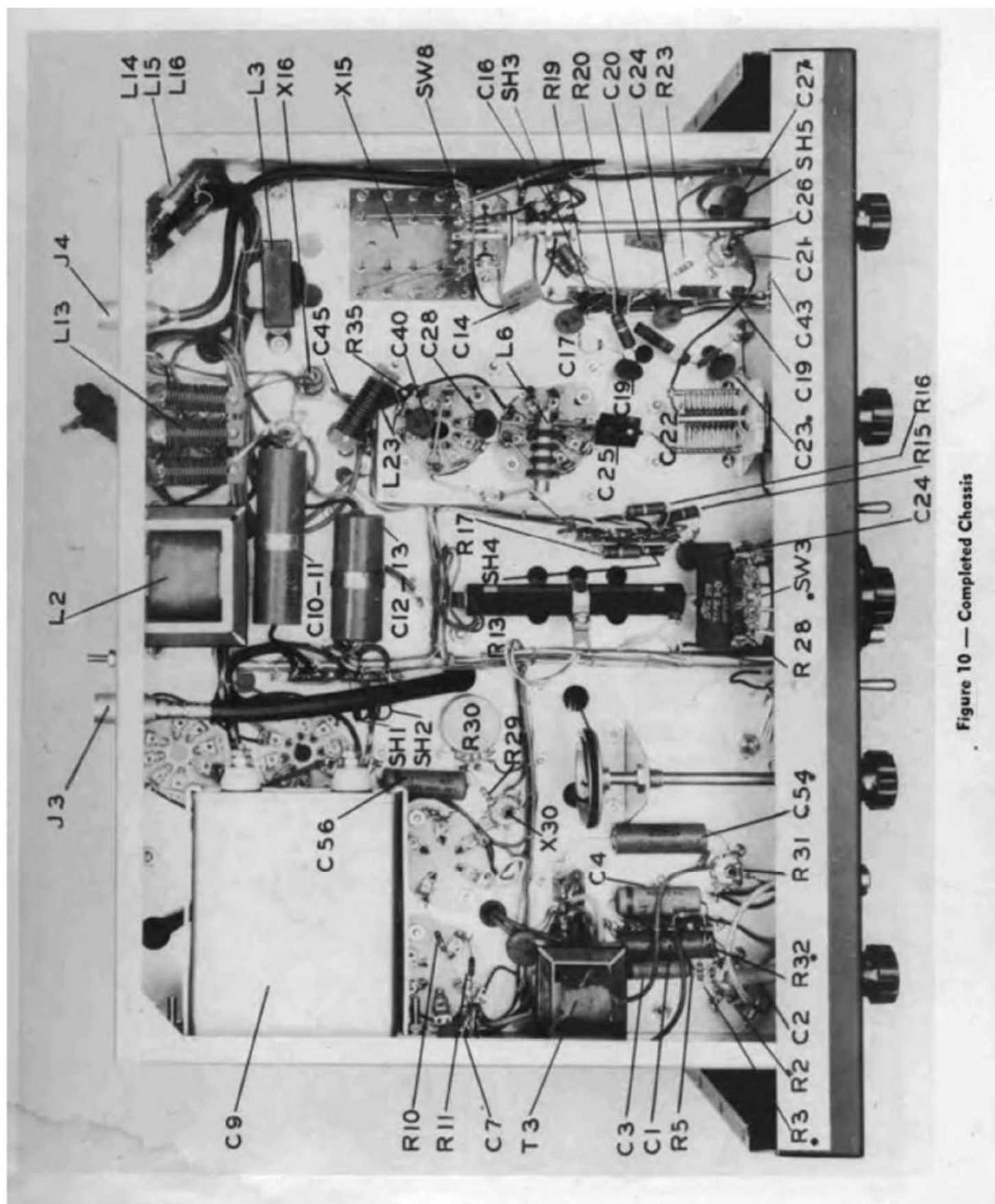


Figure 10 — Completed Chassis

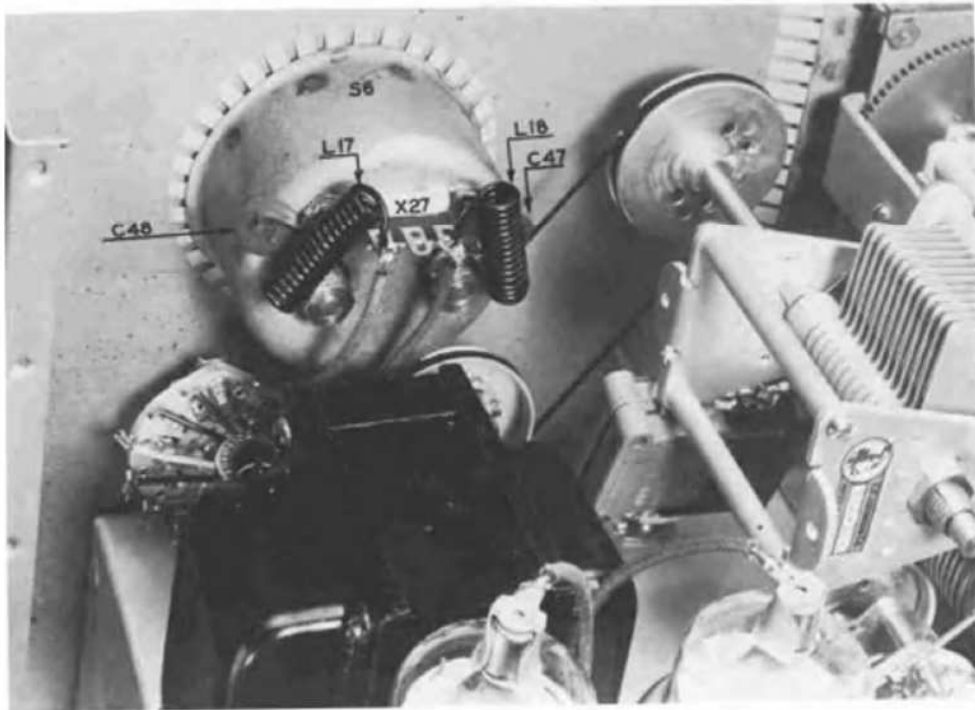


Figure 10a — Meter Filter Detail

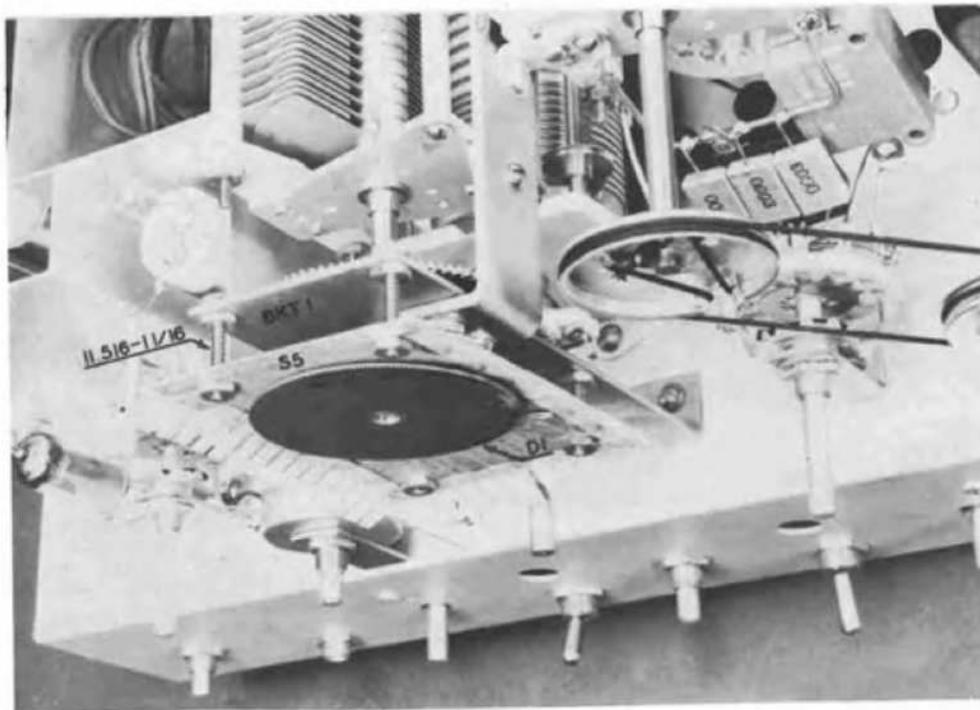


Figure 10b — Dial Window Shield Detail

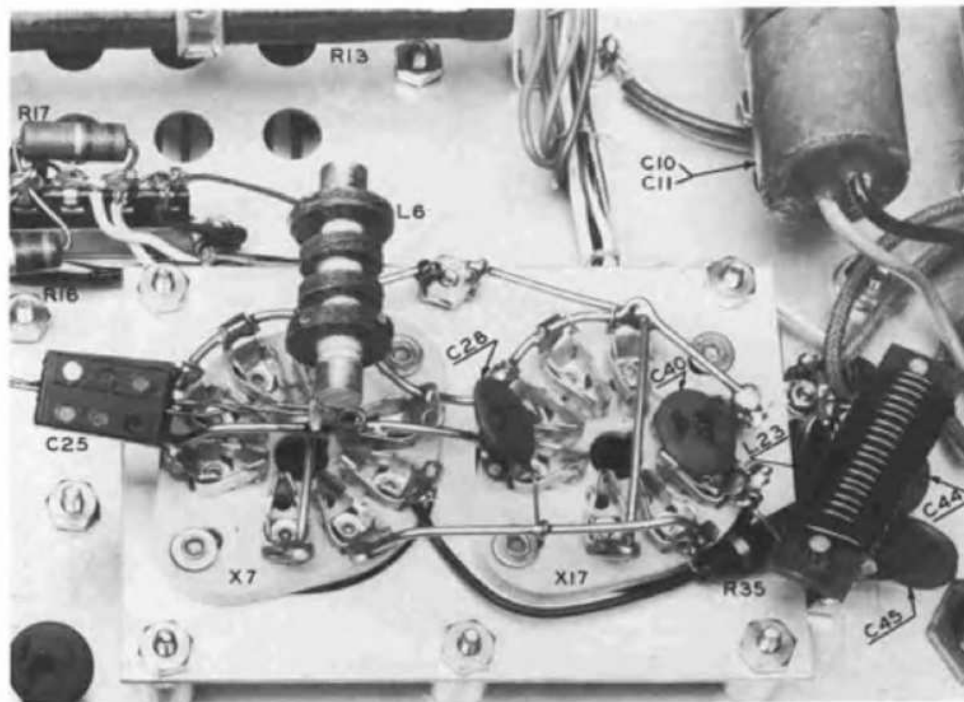


Figure 10c—6146 Socket Wiring



Figure 10d—Line Filter, VFO Socket Wiring Detail

Viking II Transmitter

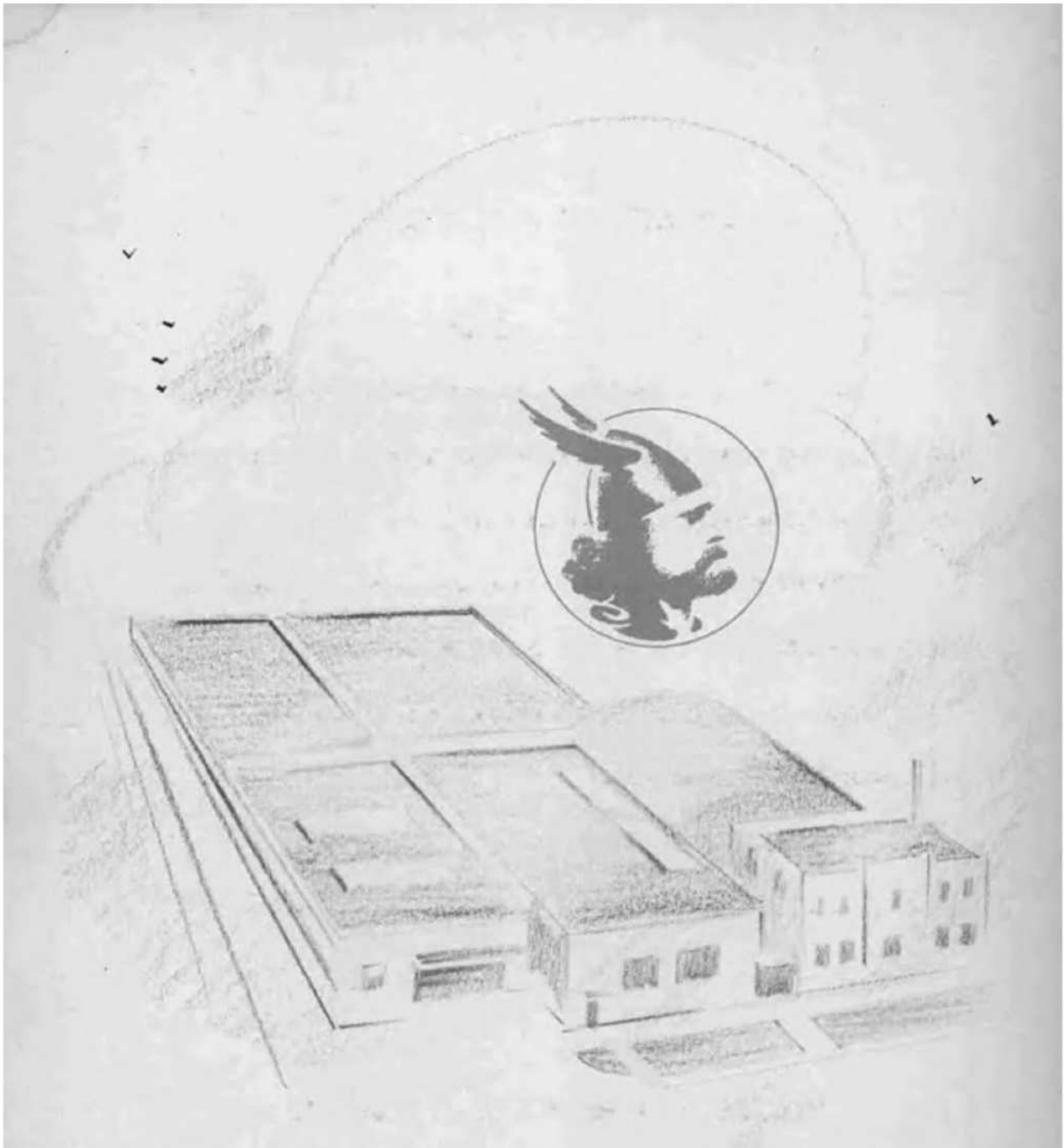
Parts List

Part No. or Drawing No.	Item No.	Qty.	Description
197-127-2	CH 1	1	Cabinet
17.810	CH 2	1	Chassis
17.811	CH 3	1	Final tube mounting plate
23.900-2	BKT 1	1	Final Tuning Drive Assembly
17.754-2	BKT 3	1	Bracket - Final Cond. Mounting
17.752-1	BKT 2	1	Bracket - Final Tank Support
16.857-2	BKT 4-7	4	Bracket - Crystal Sel. and Mounting
16.1001-1	BKT 8-12	5	Bracket - Component Mounting
16.1044-2	BKT 13	2	Bracket - H.V. Filter Cond.
16.1089	BKT 14	1	Tank Grounding Strap
16.1088	BKT 15	1	Jumper Strap
23.906-2	D 1	1	0-100 Final Tuning Dial and Hub
23.908-1	D 2	1	Final Tuning Index and Escutcheon Plate Assembly
		4	
23.909	D 3-6	4	Drive Pulley Hub Assembly
42.49-150	D 7-8	8- $\frac{1}{2}$ ft.	Dial Cord
16.1027-1	D 9-10	2	Dial Cord Tension Springs 9/16 x 3/16 x .033 Wire
14.145-7	D 11	1	$\frac{1}{4}$ " D. NFB Shaft Extension 5- $\frac{1}{2}$ " long
14.145-6	D 13	1	$\frac{1}{4}$ " D. NFB Shaft Extension 2- $\frac{1}{4}$ " long
115-256-15	D 14	1	Shaft and Bearing Assembly 1-5/8" length
115-256-16	D 15	1	Shaft and Bearing Assembly 5-1/16" length
104-250-51	D 16	1	Insulated Coupling
13.123-7	D 17	2	Panel Bearing
104-258	D 18-19	2	Split Sleeve Coupling
23.910-2	K 1	1	Knob - Final Tuning
16.86-1	D 20	5	Tension Spring
23.907-12	K 2-4	3	Knob Dial (100-0)
23.907-13	K 5-7	3	Knob Dial (10-0)
23.907-14	K 8-9	2	Knob Dial (Single Marker)
23.907-17	K 10	1	Knob Dial (Meter)
23.907-15	K 11	1	Knob Dial (7-1)
23.907-16	K 12	1	Knob Dial (Bandswitch)
		1	#4 Hardware Envelope
		1	#6 Hardware Envelope
		1	#8 Hardware Envelope
		1	#10 Hardware Envelope
		1	3/8" Hardware Envelope
		1	Terminal and Lug Hardware Envelope
29.387		1	15/32 I.D. x 59/64 O.D. Special Washer
13.49-9		6	Spacer 1/2" length x 3/8" O.D. Aluminum
23.08-2		1	Envelope Assembly for C30 Condenser
133-278-7	S1 S2 S5	3	1 3/4" Miniature Tube Shield
133-278-8	S6	1	2 1/4" Miniature Tube Shield

17.755	S4A	1	Oscillator Buffer Shield
17.756	S4B	1	Oscillator Buffer Shield
23.1003	S5	1	Final Window Shield
23.1004	S6	1	Meter Shield
17.814	S7	1	VFO Socket Shield
120-277B-1	X1 X2 X5	6	Shielded 7 Pin Miniature Socket
	X6 X11 X28		
122-225	X3 X4	2	5 Pin Wafer Socket
122-228	X8 X9 X10	6	Octal Wafer Socket
	X7 X17 X12		
147-620	X13A	1	115 V Candelabra Socket
147-600	X14A	1	6 V Miniature Socket
147-310-56	X13B	1	Faceted Jewel - red
147-310-57	X14B	1	Faceted Jewel - green
126-120	X15	1	Crystal Mounting Board
22.739-2	X16	1	Fuse Extractor Post
22.740-5	X18-19	2	"2005" Jones Terminal Strip
22.740-6	X20-22	3	"2006" Jones Terminal Strip
22.740-3	X23-27	5	"2003" Jones Terminal Strip
71.32-170	G1	10-7/16"	RG8U Cable (cut to length)
71.32-178	G2	14"	RG59U Cable (cut to length)
22.741	G3	1	Line cord and plug
22.113-1	G4-10	7	Rubber Grommets 9/16 OD
22.113-5	G11-15	5	Rubber Grommets 11/32 OD
22.742	F1	1	5 AMP 3AG Type or MH Type 250 Volt Fuse
42.24-77	G16	8 in.	.034 ID Black extruded plastic tubing
42.24-107	G17	5 in.	.133 ID Black extruded plastic tubing
26.231	W1	1	Wiring Harness
71.21-100	W2	13 1/2 ft.	Black Plastic Covered #20 Hookup wire
71.27-125	W3	7 ft.	#24 Tinned Copper Wire
71.27-110	W4	4 ft.	#14 Tinned Copper Wire
71.49-105	W5	1 1/2 ft.	#20 Stranded Shielded Wire
42.49-140	W6	6 ft.	#4 Waxed Lacing Cord
22.21	I1	1	#636 120 Volt Candelabra Bulb
22.743	I2	1	#40 6-3 volt Min. Screw Bulb
119-852	TC 1-4	4	.360 Tube Cap
22.744	J1	1	PC1M Mic. Connector
22.224	J2	1	Ckt. Closing Jack
22.746	J3-4	2	83-1R Receptacles
126-105	J5	1	Socket (Crystal Holder)
23.1031	J6	1	Plug relay connection
22.747	H1 H2	2	83-1H Hood
23.214-1	SH1-SH2	2	100 M.V. Shunt for 500 ma.
22.711	SH3 SH4	2	100 M.V. Shunt for 25 ma. (5.1 ohm-5% tolerance)
22.712	SH5	1	100 M.V. Shunt for 50 ma. (2.2 ohm-10% tolerance)
22.748	L1	1	10 h 350 ma. Filter Choke SMC #P1783
22.749	L2	1	15 h 95 ma. Filter Choke SMC #P1501
22.750	L3	1	10 h 35 ma. Filter Choke SMC #P1784
23.902-1	L4	1	Oscillator Coil
23.902-2	L5A	1	Buffer Coil
23.913	L5B	1	H.F. Buffer Coil
102-750	L6	1	#750 R.F. Choke
102-754-2	L7	1	#754 R.F. Choke

23.911	L8	1	Residual H.F. Final Coil
229-201	L9	1	Final Tuning Inductor, variable
23.902-3	L10	1	160 Meter Aux. Coil
23.912	L11 L12	2	Parasitic Suppressor
23.1001	L13	1	Line Filter, VHF Choke Assembly
23.1000	L14 L16 L19	5	VHF Filter Chokes
	L20 L21		
23.1002-1	L23	1	Filament VHF filter choke
22.751	T1	1	H.V. Plate Transformer SNC #1781
22.752	T2	1	L.V. and Fil. Transformer SNC #1893
22.753	T3	1	Audio Driver Transformer SNC #1503
22.754	T4	1	Modulation Transformer SNC #1992
22.755	SW1	1	SPTS (6A-125V) Bat Handle Toggle Switch
22.756	SW2	1	DPDT (6A-125V) Bat Handle Toggle Switch
22.886	SW3	1	4 Pole 2 Pos. (CW-FH) Switch
22.758	SW4	1	2 Pole 6 Pos. (Band) Switch
22.759	SW5	1	1 Pole 7 Pos. (Coupling) Switch
22.760	SW6	1	2 Pole 2 Pos. (160M) Switch
22.761	SW7	1	2 Pole 6 Pos. (Meter) Switch
22.628	SW8	1	1 Pole 11 Pos. (Crystal) Switch
167-104-3	C22	1	75L15 Variable Condenser
167-104-4	C18	1	75L15 Variable Condenser
154-2-3	C29	1	350E20 Variable Condenser
154-34-3	C30	1	400E15 Variable Condenser
22.763	C1 C54	2	10 mfd 25 V.W. Electrolytic Condenser
22.764	C10 C11	1	Dual 15-15 mfd 450 V.W. Electrolytic Cond.
22.765	C12 C13	1	Dual 15-15 mfd 150 V.W. Electrolytic Cond.
22.835	C7	1	.001 mfd 400 V.W. Paper Condenser
22.766	C2	1	.003 mfd 400 V.W. Paper Condenser
22.767	C3	1	.02 mfd 400 V.W. Paper Condenser
22.768	C4 C56	2	.1 mfd 400 V.W. Paper Condenser
22.769	C8	1	.5 mfd 600 V.W. Paper Condenser
22.771	C9	1	8 or 10 mfd 1000 V.W. Condenser
22.772	C36 C37	2	300 mfd 600 V.W. Mica Condenser
22.773	C14	1	50 mmfd 500 V.W. Molded Mica Condenser
22.774	C33 C34 C35	4	300 mmfd 500 V. W. Molded Mica Condenser
	C52		
22.827	C15-17 C19	22	.005 mfd 600 V.W. Ceramic Disc Condenser
	C21 C23 (2)		
	C24 C26-27		
	C39-44 C47-51		
	C53		
22.776	C20	1	50 mmfd 500 V.W. Silver Mica Condenser
22.777	C25	2	25 mmfd 500 V.W. Silver Mica Condenser
22.778	C38	1	150 mmfd 1200 V.W. Mica Condenser
22.828	C28 C45	2	.001 mfd 1500 V.W. Ceramic Disc Cond.
22.836	C31	1	.002 mfd 1500 V.W. Ceramic Transmitting Type Condenser
22.826	C32 C46 C55	3	.01 mfd 1500 V.W. Ceramic Disc Cond.
22.719	R1 R32	2	1 megohm - 1/2 Watt Carbon or Composition Resistor
22.715	R24 R2	2	1800 ohm - 1/2 Watt Carbon or Composition Resistor

22.715	R3 R29	2	.47 - 0.51 megohm - 1/2 watt Carbon or Composition Resistor
22.716	R5 R26 R37	3	22,000 ohm - 1/2 Watt Resistor
22.830	R10 R11	2	100 ohm - 1/2 Watt Resistor
22.572	R18	1	.1 Megohm - 1/2 Watt Resistor
22.713	R22 R33 R34	3	22 ohm - 1/2 Watt Carbon Resistor
22.717	R23	1	47-51,000 ohm - 1/2 Watt Resistor
22.801	R31	1	450 to 510 ohm - 1/2 Watt Carbon or Composition Resistor
22.722	R15	1	1500 ohm-1 Watt Resistor
22.721	R16	1	820 ohm - 1 Watt Resistor
22.724	R17	1	2700 ohm - 1 Watt Resistor
22.853	R19	1	68,000 ohm - 1 Watt Resistor
22.720	R20	1	100 ohm - 1 Watt Resistor
22.725	R21	1	4700 ohm - 1 Watt Resistor
22.852	R6 R30	2	1.0 Megohm Linear Potentiometer
22.732	R25	1	25,000 ohm W.W. Potentiometer
22.723-1	R13	1	20,000 ohm W.W. adjustable Resistor
22.833	R28	1	20,000 ohm W.W. Fixed Resistor
22.914	R35	1	56 ohm 1 Watt Carbon or Composition Resistor
22.817	R36	1	10,000 ohm $\pm$ 10% 2 Watt Carbon or Composition Resistor
22.762-2	M1	1	5ma meter 20 ohm Special Scale
22.780	V1 V2 V6	3	6AU6 Tubes
22.783	V3 V4	2	807 Tubes
22.791	V5 V28	2	6AG5 Tubes
22.798	V7 V17	2	6146 Tubes
22.784	V8 V9	2	5R4GY Tubes
22.791	V10	1	5V4G Tube
22.786	V11	1	6AL5 Tube



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