

Figure 7-1. 51J-4 Top View, Tube and Parts Identification

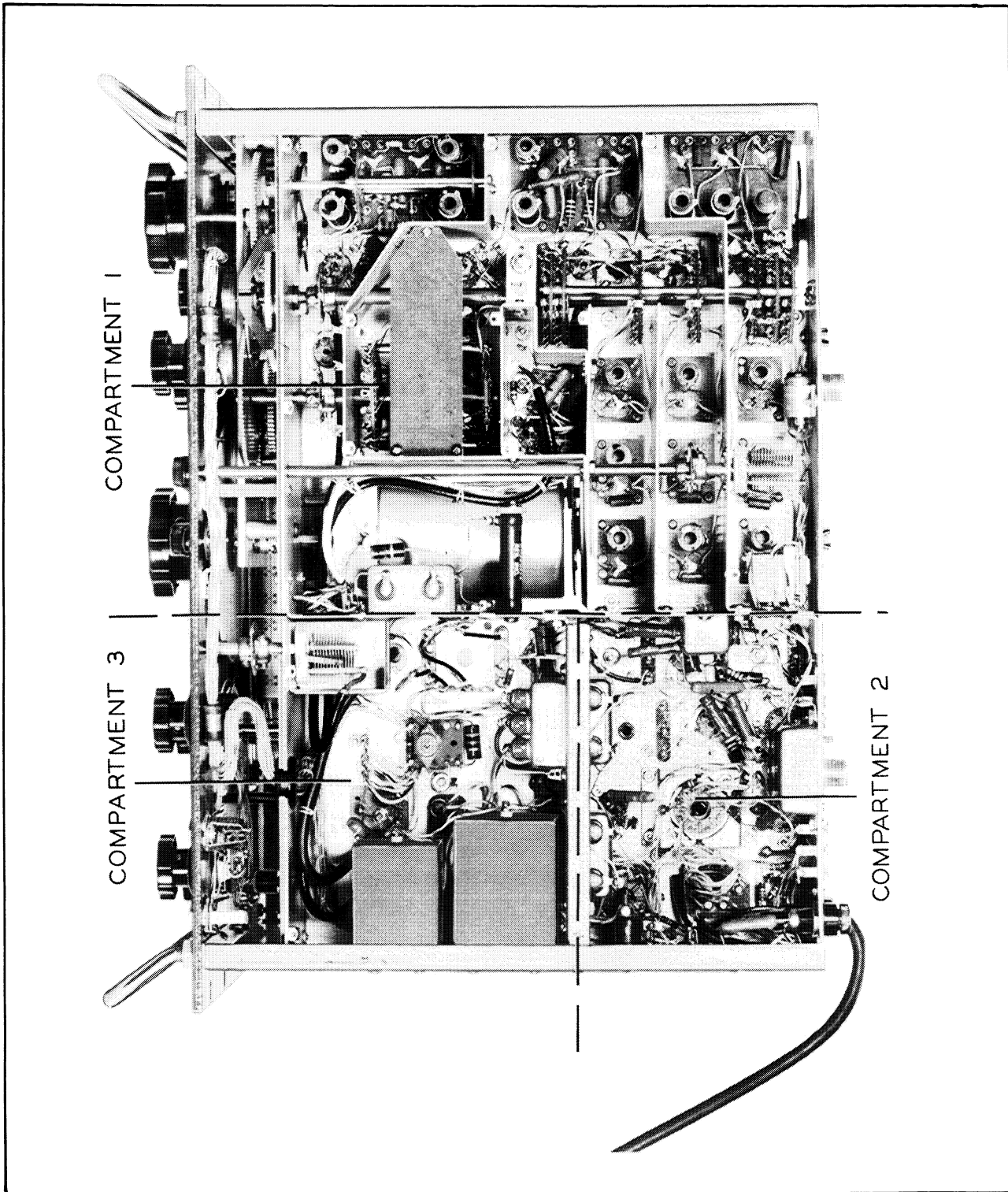


Figure 7-2. 51J-4 Bottom View

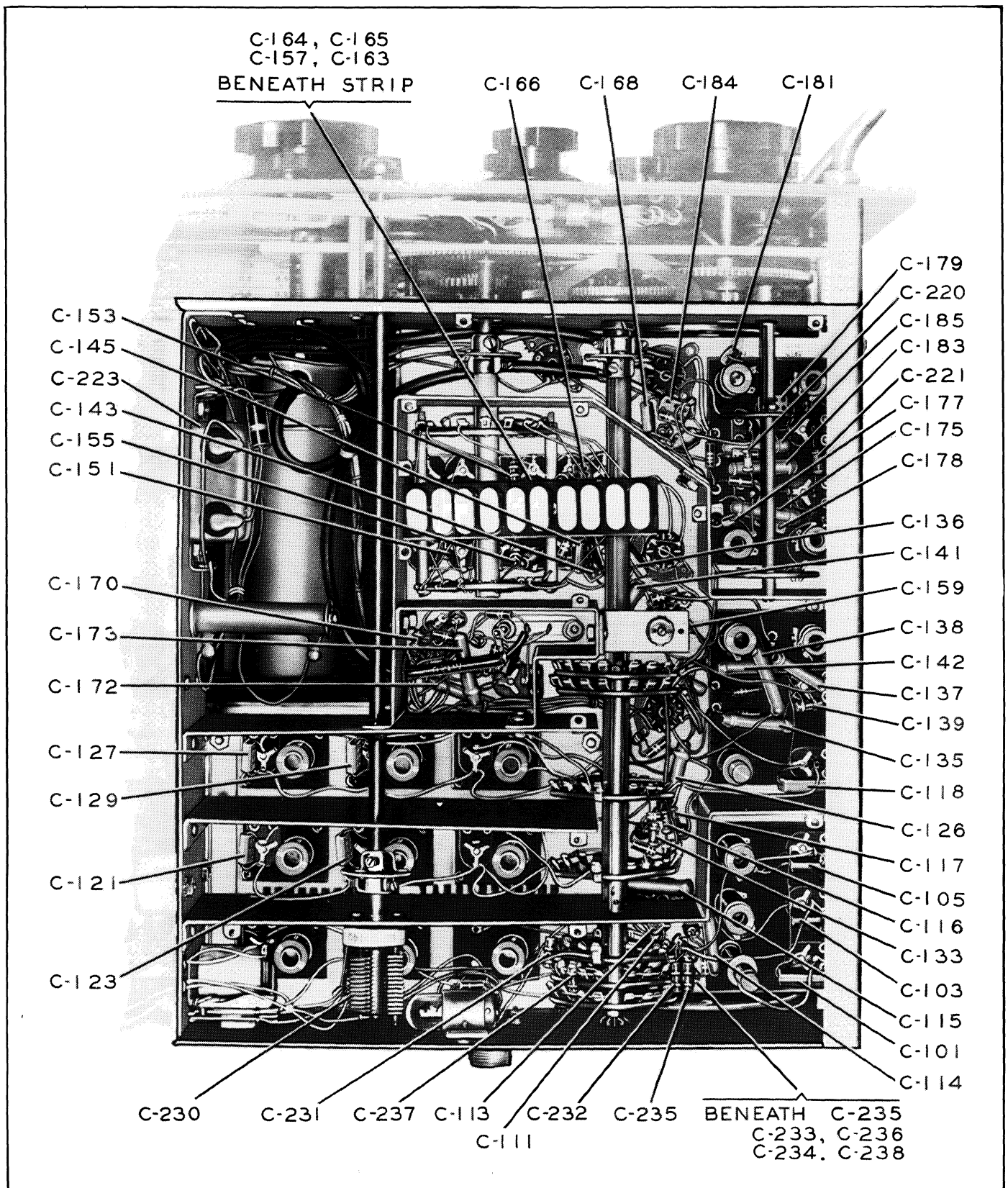


Figure 7-3. 51J-4 Bottom View, Compartment 1, Capacitor

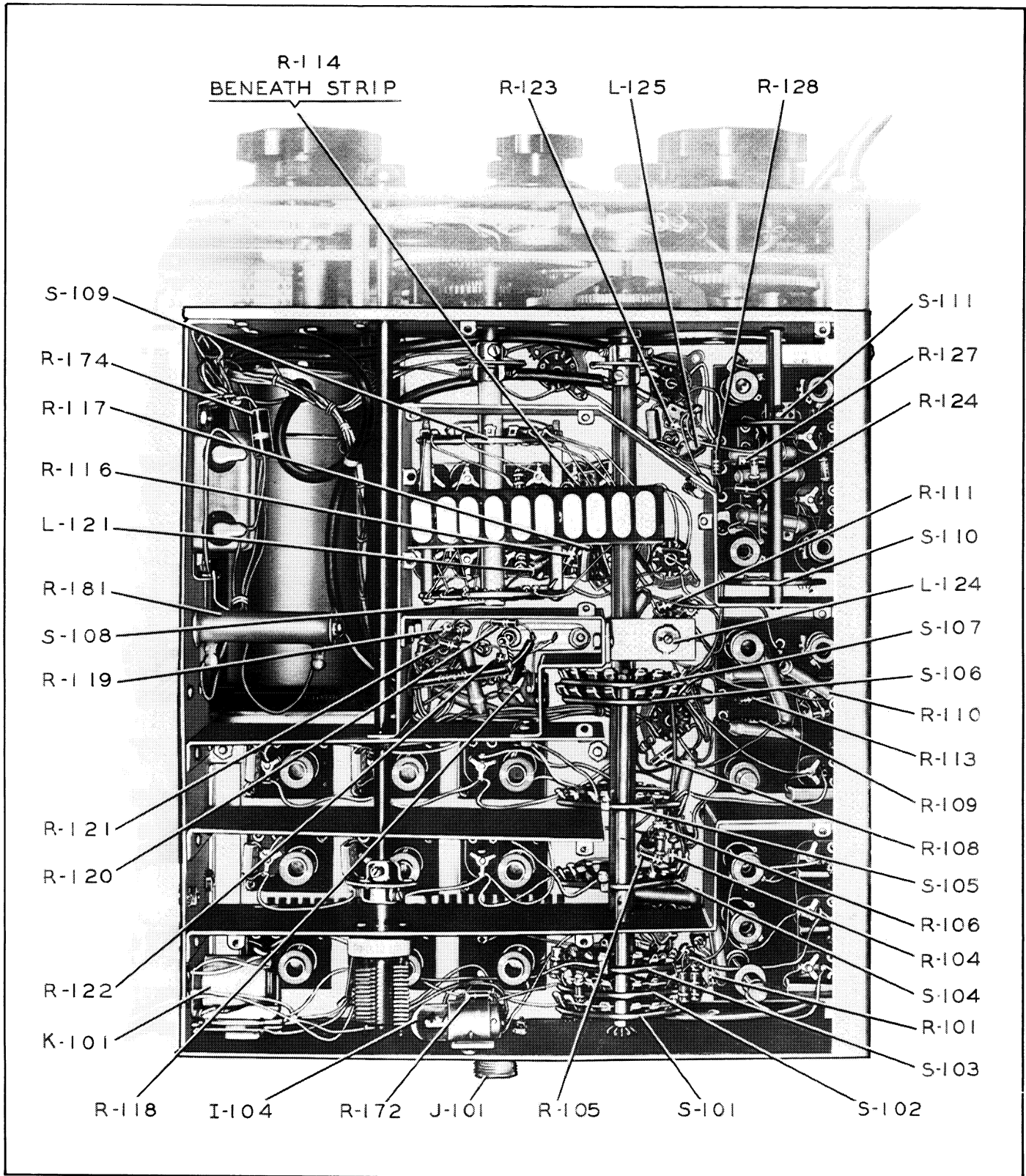


Figure 7-4. 51J-4 Bottom View, Compartment 1, General

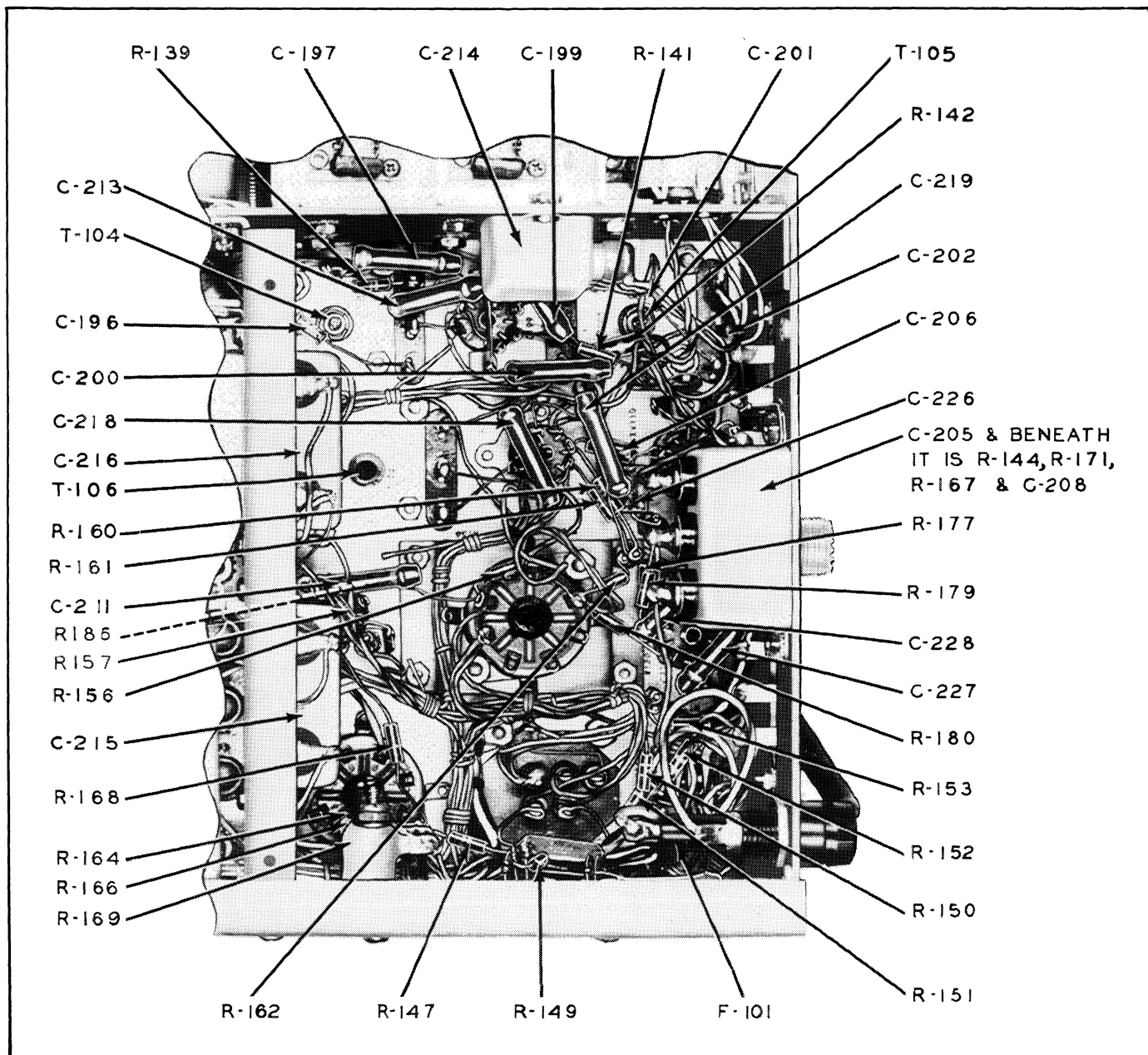


Figure 7-5. 51J-4 Bottom View, Compartment 2

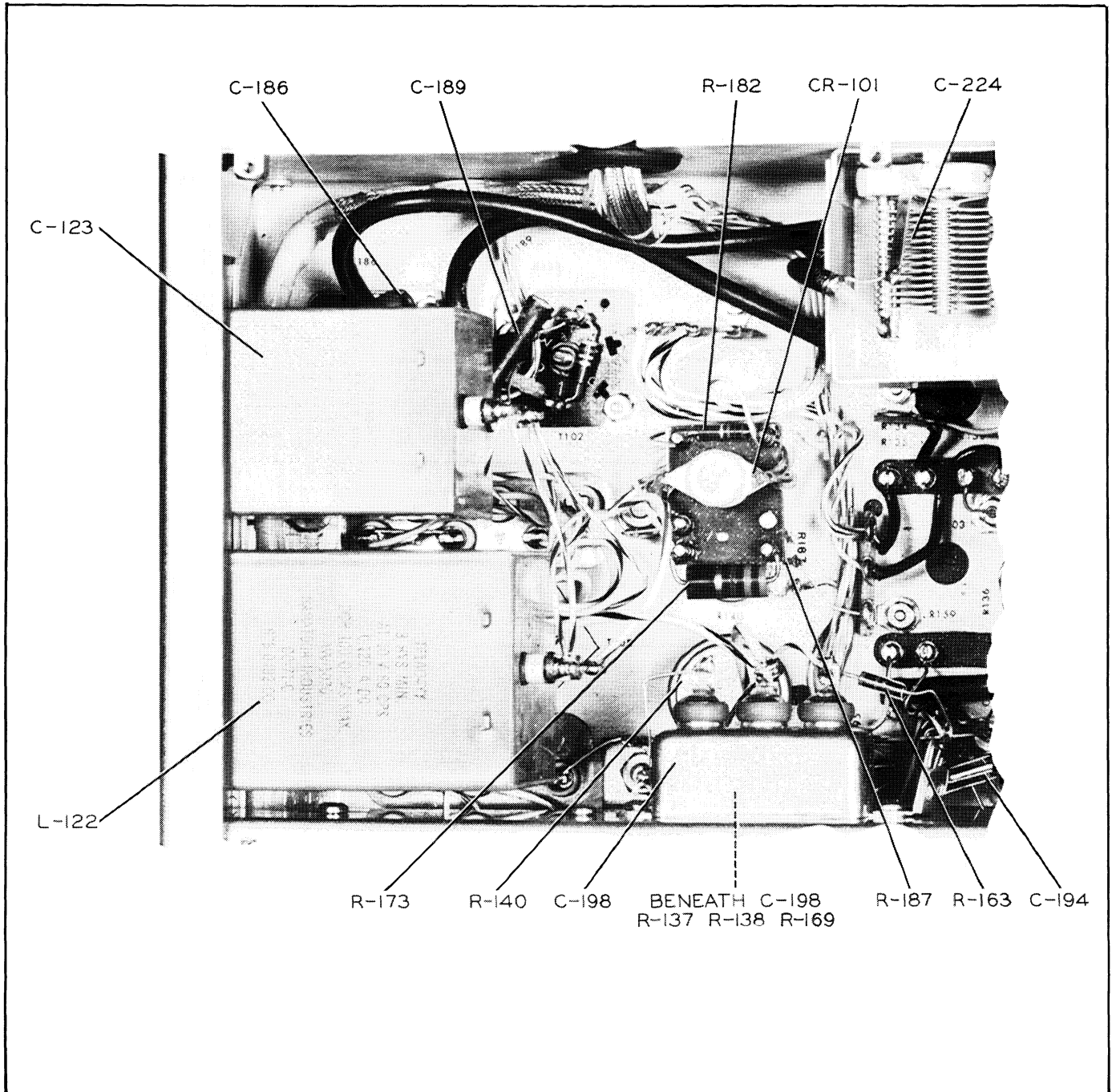
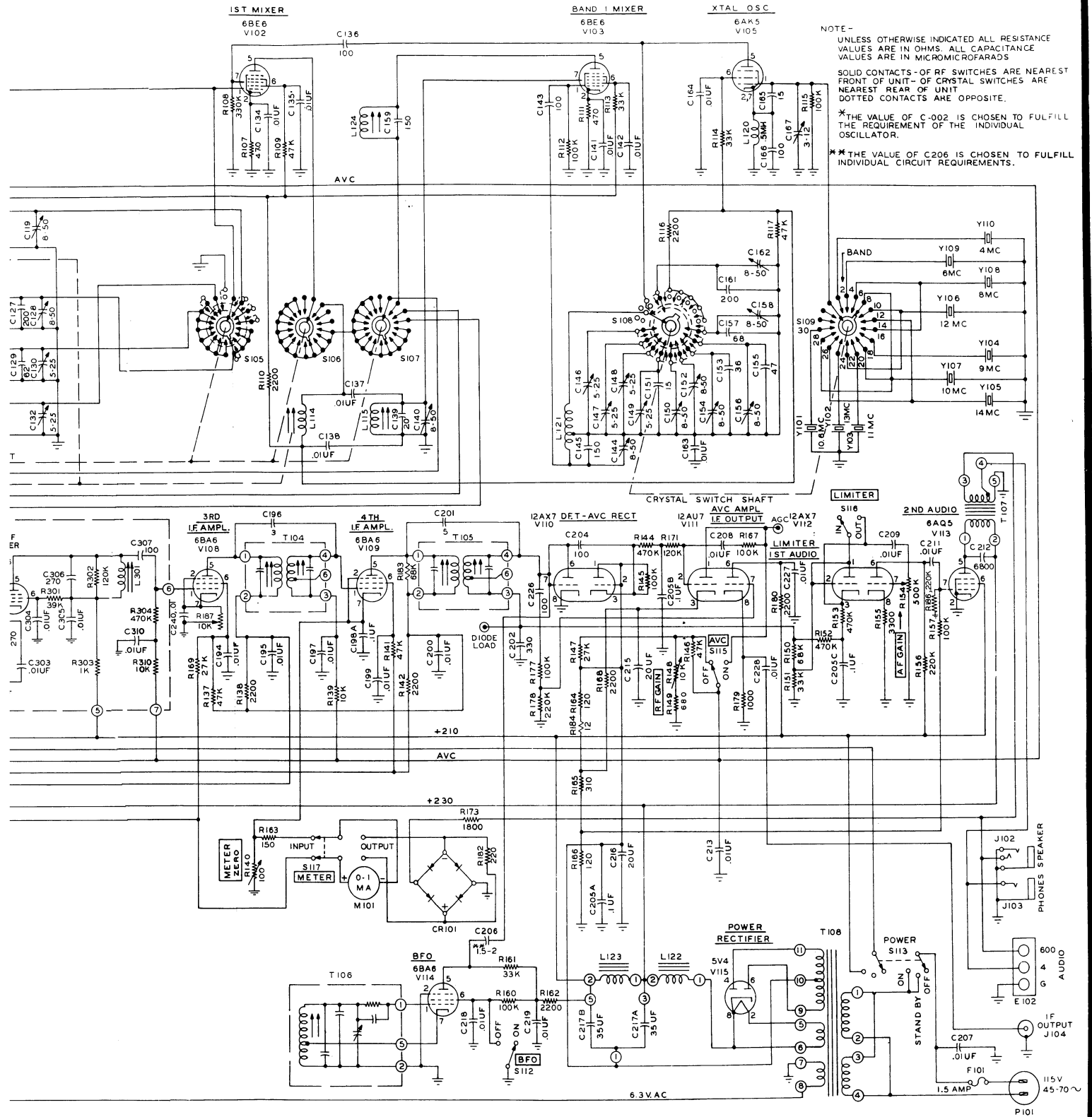


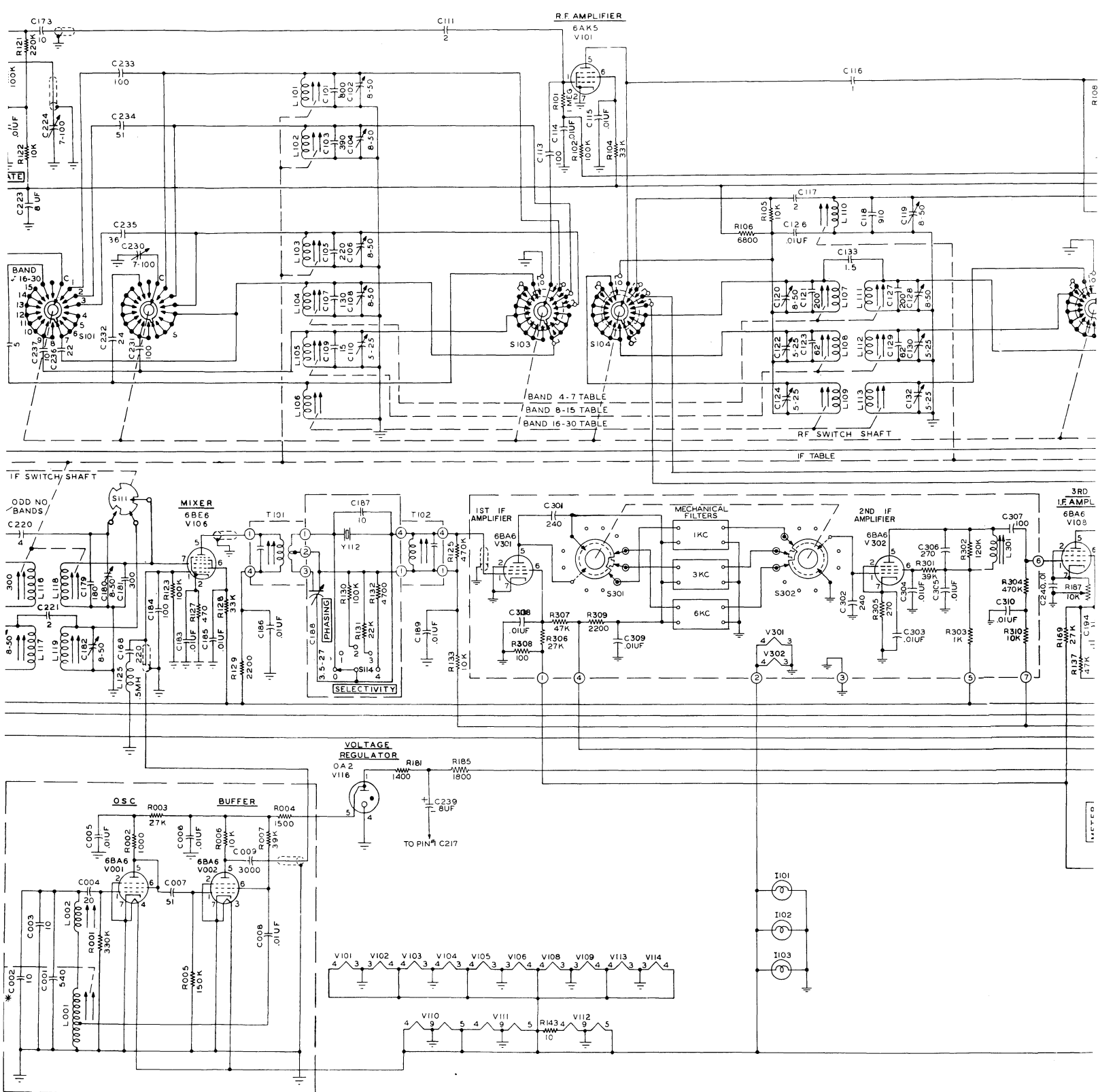
Figure 7-6. 51J-4 Bottom View, Compartment 3



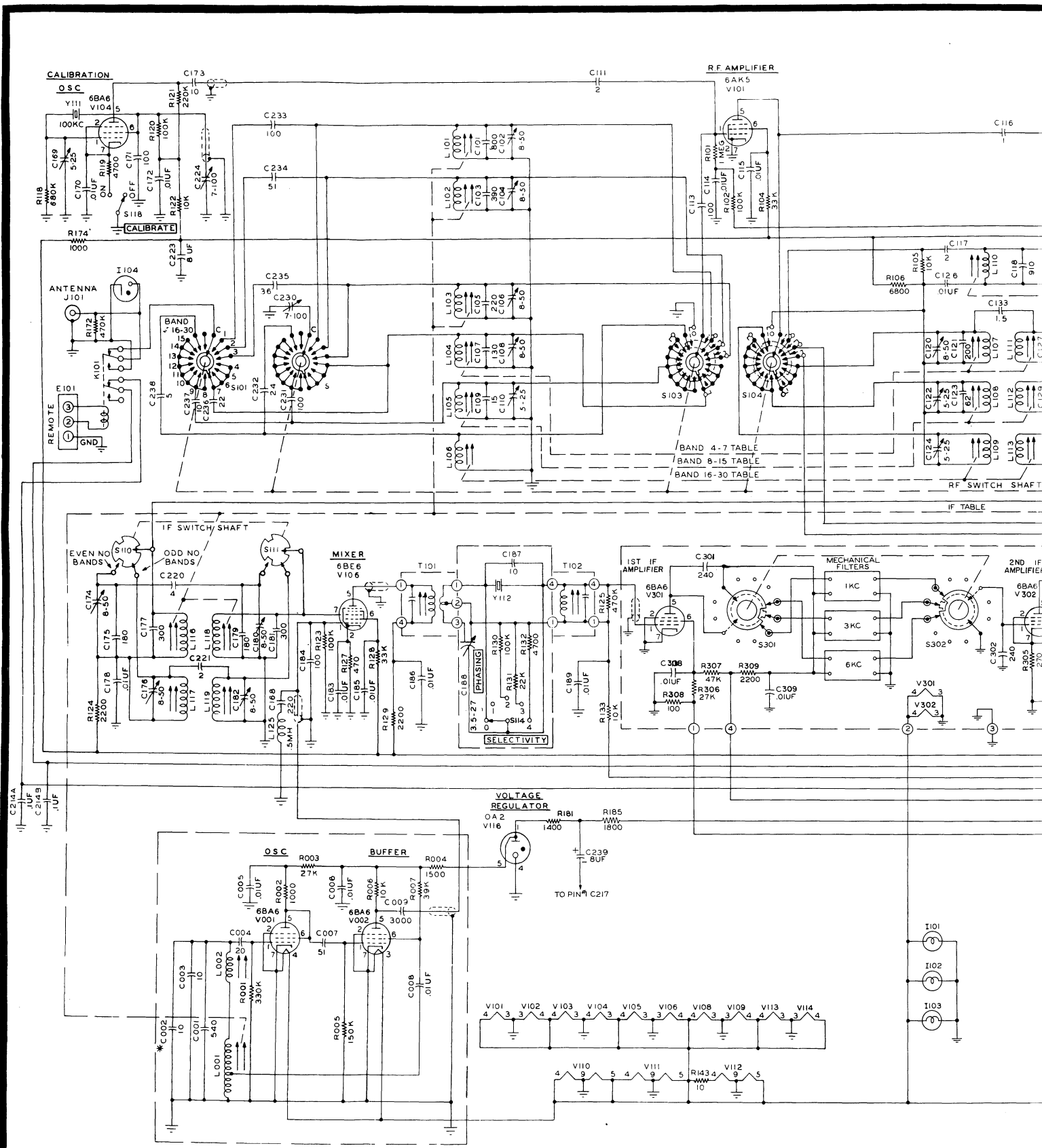
NOTE -
UNLESS OTHERWISE INDICATED ALL RESISTANCE VALUES ARE IN OHMS, ALL CAPACITANCE VALUES ARE IN MICROMORFARADS
SOLID CONTACTS - OF RF SWITCHES ARE NEAREST FRONT OF UNIT - OF CRYSTAL SWITCHES ARE NEAREST REAR OF UNIT
DOTTED CONTACTS ARE OPPOSITE.
* THE VALUE OF C-002 IS CHOSEN TO FULFILL THE REQUIREMENT OF THE INDIVIDUAL OSCILLATOR.
** THE VALUE OF C206 IS CHOSEN TO FULFILL INDIVIDUAL CIRCUIT REQUIREMENTS.

RADIO RECEIVER 51J-4

Figure 7-7. 51J-4 Main Schematic Diagram



BORDER TO APPEAR ON DECAL



BORDER TO APPEAR ON DECAL

HOOK-UP WIRE CODE

The characteristics of the hook-up wire used in this equipment are indicated by groups of symbols on the diagrams. Each symbol group consists of a maximum of three letters followed by a maximum of three numerals. When three letters are used the first indicates the type of wire, the second represents the size of wire, and the third is the letter "S", used only when the wire is shielded. When two letters are used, the first and second letters indicate either the type and size of wire or the size of wire and shielding, respectively. When one letter is used it indicates the wire size only. The first numeral indicates the color of the wire body and the second and third numerals, if any, represent the colors of tracers, all numerals being in accordance with the standard EIA and MIL-W-16878 color code.

The symbols are assigned according to the following table.

TYPE OF WIRE CODE		SIZE OF WIRE CODE		COLOR CODE	
LETTER	TYPE OF WIRE	LETTER	SIZE	NUMBER OR LETTER	COLOR
A	Cotton Braid Over Plastic (Formerly AN-J-C-48)	A	#22 AWG	0	Black
B	Busbar, Round Tinned	B	#20	1	Brown
C	MIL-W-16878 Type B (#20 and Larger) (600 Volts)	C	#18	2	Red
D	Miniature Wire, MIL-W-16878 Type B (#22 and Smaller)	D	#16	3	Orange
E		E	#14	4	Yellow
F	Extra Flexible Varnished Cambric	F	#12	5	Green
G		G	#10	6	Blue
H	Kel-F (Monochlorotrifluoroethylene)	H	#8	7	Violet
J		J	#6	8	Gray (Slate)
K	Neon Sign Cable (15,000 Volts)	K	#4	9	White
L	Silicone	L	#2	a	Clear
M		M	#1	b	Tan
N	Single Conductor Stranded (Not Rubber Covered)	N	#0	c	Pink
P	Single Conductor Stranded (Rubber Covered)	P	#00	d	Maroon
Q		Q	#000	e	Light Green
R	MIL-W-16878 Type C (1000 Volts)	R	#0000	f	Light Blue
T	Teflon, MIL-W-16878 Type E (600 Volts)	T	#28		
V	MIL-W-16878 Type D (3000 Volts)	V	#26		
W	Teflon, MIL-W-16878 Type EE (1000 Volts)	W	#24		
X		X	#19		
Y		Y	#30		
Z	Acetate Yarn, Telephone Type	Z			

EXAMPLES

MIL TYPE C, #22AWG, UNSHIELDED WIRE, WHITE WITH RED AND GREEN TRACERS:

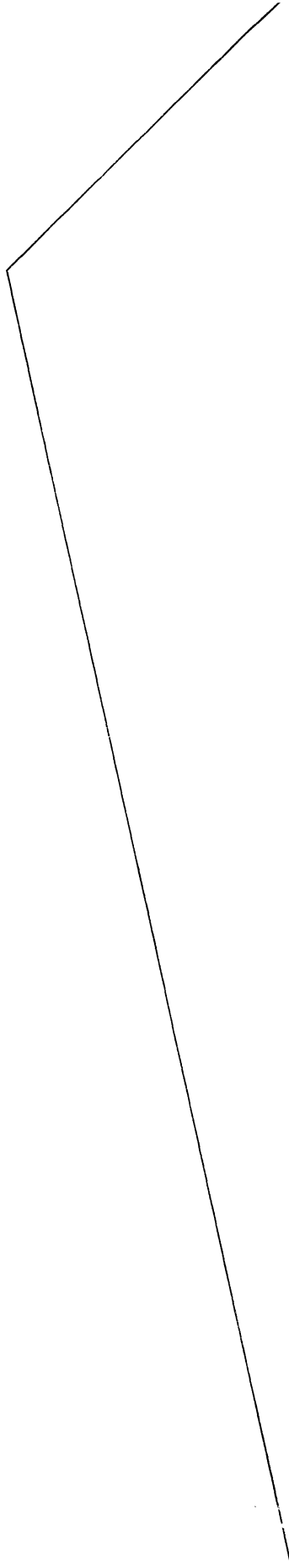
R	A	9	25	4-1/4
Type of Wire	Size of Wire	Color of Body	Color of Tracers	-- Length of Wire in Inches
(Includes Stripping & Tinning)				

MIL TYPE C, #16AWG, SHIELDED WIRE (SINGLE), WHITE WITH RED AND GREEN TRACERS:

R	D	S	9	25	4-1/4
Type of Wire	Size of Wire	Shielded	Color of Body	Color of Tracers	-- Length of Wire in Inches
(Includes Stripping & Tinning)					

MIL TYPE B, #22AWG, SHIELDED WIRE (MULTIPLE), WHITE, AND WHITE WITH RED TRACER:

D	A	S	(9)	(92)	4-1/4
Type of Wire	Size of Wire	Shielded	First Conductor	Second Conductor	-- Length of Wire in Inches
(Includes Stripping & Tinning)					



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