

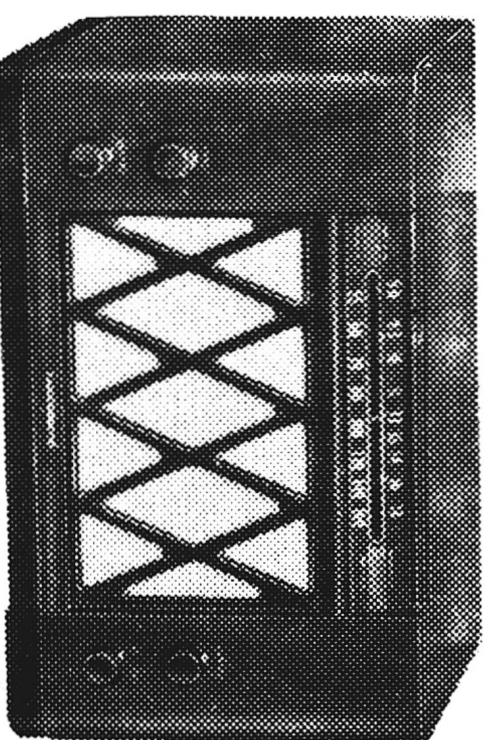
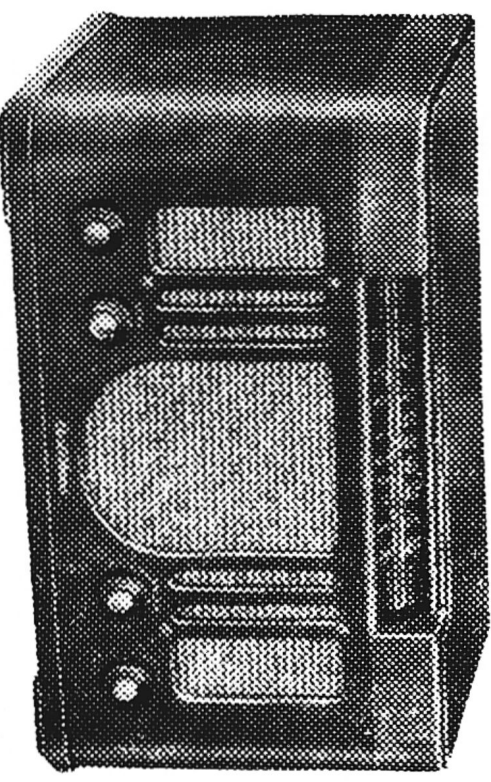
NOTE: ALL VOLTAGES MEASURED TO CHASSIS WITH 20,000-Ω PER VOLT METER. SWITCHES S2 AND S3 ARE SHOWN IN COUNTER CLOCKWISE (B.C.) POSITION.

U-2158

VIKING 51-14

(Factory Models PMB62-417, PMB62-427)

Condensers		Resistors		Switches				
No	Description	No	Description	CN No	Date	Change	Sym	CHK
C1	GANGED CONDENSER - ANT SECTION	C29	100 μ fd \pm 20% 500V MICA	2775	10-23-47	1/MEG \pm 20% 1/4W RESISTOR REMOVED	a 2	
C2	B.C. ANT TRIMMER (ON GANG)	C30	.01 μ fd 400V TUBULAR	2775	" "	.05 μ fd 400V TUB COND REMOVED	b 2	
C3	300 μ fd \pm 1% 500V CERAMIC	C31	4 μ fd 100V ELECTROLYTIC	2775	" "	820 Ω 1/4W RESISTOR ADDED	c 2	
C4	.05 μ fd 400V TUBULAR	C32	.02 μ fd 400V TUBULAR	2775	" "	4 μ fd 100V ELECT COND ADDED	d 2	
C5	10 μ fd \pm 5% 500V MICA	C33	.005 μ fd 400V TUBULAR	2775	" "	C5 CONNECTION CHANGED	e	
C6	5W ANT TRIMMER 4-40 μ fd.	C34	4 μ fd 100V ELECTROLYTIC Δ					
C7	.05 μ fd 400V TUBULAR							
C8	50 μ fd \pm 20% 500V MICA							
C9	GANGED CONDENSER - R.F. SECTION							
C10	B.C. R.F. TRIMMER (ON GANG)							
C11	5W OSC TRIMMER 3-30 μ fd.							
C12	.005 μ fd 400V TUBULAR							
C13	B.C. PADDER 100 - 225 μ fd							
C14	FIXED PAD 270 μ fd \pm 1% 500V CERAMIC	R1	33,000 OHM \pm 20% 1/4 W	2775	10-23-47	1/MEG \pm 20% 1/4W RESISTOR REMOVED	a 2	
C15	20 μ fd \pm 5% 500V MICA	R2	1 MEGOHM \pm 20% 1/4 W	2775	" "	.05 μ fd 400V TUB COND REMOVED	b 2	
C16	50 μ fd \pm 20% 500V MICA	R3	100,000 OHM \pm 20% 1/4 W	2775	" "	820 Ω 1/4W RESISTOR ADDED	c 2	
C17	270 μ fd \pm 1% 500V CERAMIC	R4	8,200 OHM \pm 10% 1/4 W	2775	" "	4 μ fd 100V ELECT COND ADDED	d 2	
C18	GANGED CONDENSER OSC SECTION	R5		2775	" "	C5 CONNECTION CHANGED	e	
C19	B.C. OSC TRIMMER (ON GANG)	R6	2-2 MEGOHMS \pm 20% 1/4 W					
C20	300 μ fd \pm 1% 500V CERAMIC	R7	10 MEGOHMS \pm 20% 1/4 W					
C21	.01 μ fd 400V TUBULAR	R8	47,000 OHMS \pm 20% 1/4 W					
C22	DUAL I.F. TRIMMER 15-150 μ fd	R9	1 MEGOHM VOLUME CONTROL					
C23	5W R.F. TRIMMER 3-30 μ fd	R10	470,000 OHM \pm 20% 1/4 W					
C24	.05 μ fd 400V TUBULAR	R11	1 MEGOHM \pm 20% 1/4 W					
C25	DUAL I.F. TRIMMER 15-150 μ fd Δ	R12	.39 OHM \pm 10% 1/2 W					
C26	260 μ fd \pm 20% 500V MICA	R13	300 OHM \pm 5% 1/2 W W W					
C27	.005 μ fd 600V TUBULAR	R14	75,000 OHM TONE CONTROL					
C28		R15	820 OHM \pm 10% 1/4 W Δ					



Factory Model PMB62-427

Factory Model PMB62-417

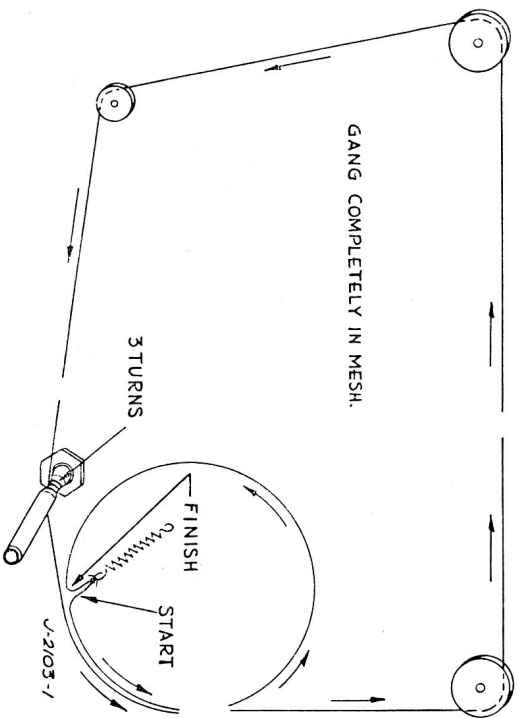
ALIGNMENT—PROCEED IN SEQUENCE LISTED.

Band	Band Switch Setting	Dummy Antenna	Connect Generator To	Radio Dial Setting	Generator Frequency	Trimmer Adjusted	Adjustment	Note
2nd I.F.	B.C.	.1 Blocking Condenser	INSGT/G 1st I.F.		455 K.C.	C-26	Maximum Output	
1st I.F.	B.C.	.1 Blocking Condenser	Grid of 1R5 Converter	Gang Open	455 K.C.	C-22	Maximum Output	
1460 K.C.	B.C.	200 mmfd.	Antenna	1460 K.C.	1460 K.C.	B.C. Osc. C-19 B.C. Int. C-10 B.C. Ant. C-2	Maximum Output	
600 K.C.	B.C.	200 mmfd.	Antenna	600 K.C.	600 K.C.	C-13	Check	Calibrate Sensitivity
17 M.C.	S.W.	400 ohm	Antenna	17 M.C.	17 M.C.	C-11 C-23 C-8	Maximum Output	
10 M.C.	S.W.	400 ohm	Antenna	10 M.C.	10 M.C.		Maximum Output	

SENSITIVITIES

Sensitivity in microvolts for 500 milliwatts output (voice coil imp 3.2 ohms) carrier modulated 30% at 400 c

1st I.F. Grid	8000	455 K.C.	1460 K.C.	900 K.C.	600 K.C.	16 M.C.	10 M.C.	6 M.C.
Converter Grid	300	350	350	350	350	270	250	270
Antenna	—	5	5	5	8	35	45	70

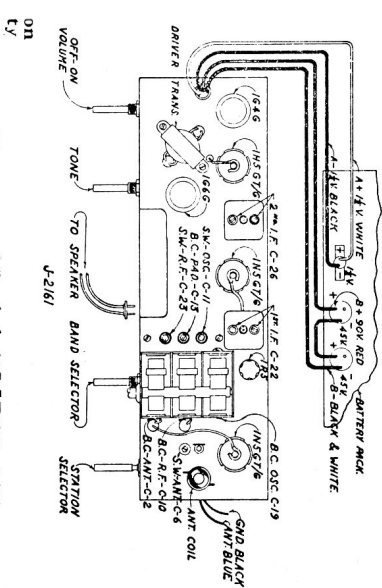


VIKING 51-14
(Factory Models PMB62-417, PMB62-427)

SPECIFICATIONS

- Standard Broadcast Range - 540 Kc. - 1650 Kc.
- Short Wave Range - 9.0 Mc. - 18.0 Mc.
- Intermediate Frequency - 455 Kc.
- Undistorted Power Output - 140 mw.
- Maximum Power Output - 400 mw.
- "A" Battery: Voltage - 1.5 V.
- Average Drain - .35 amps.
- "B" Battery: Voltage - 90 V.
- Average Drain - 13 ma.

Factory Model PMF62-427



Factory Model PMB62-417

