



BAND SELECTOR SWITCH SHOWN IN EXTREME COUNTER CLOCKWISE POSITION (PHONO).
 NUMERAL INDICATES WATER BACK FROM FRONT CHASSIS SKIRT AND LETTER
 DESIGNATES FRONT OR REAR OF INDICATED WAFER.

ALL VOLTAGES MEASURED TO CHASSIS WITH 20,000
 OHM VOLT METER AT 117 V. LINE VOLTAGE AND SELECTOR
 SWITCH IN F.M. POSITION AND ZERO INPUT.
 AM SIGNAL PATH INDICATED BY HEAVY LINE.

EMF72-418
 EMF72-418Z

VIKING 49-54, 49-89

J-2397

ALIGNMENT

A.M. INT. FREQ. 455 K.C.
F.M. INT. FREQ. 10.7 MC.

NOMINAL SENSITIVITY IN MICROVOLTS FOR 500 MILLIVOLTS INPUT SIGNAL MODULATED 30% AT 400 CPS (ON FM EQUIPMENT 3 KHZ) (KHZ)

APPLIED SIGNAL	TYPE AND SIZE	455 KC.	10.7 MC.	100 MC.
68A6	2nd I.F.	1	3500	35000
68A6	1st I.F.	1	3500	1800
58E6	5th I.F.	1	120	(0) 160
58E6	4th I.F.	1	120	120
A.M. INT.	200 μf		12	
F.M. INT.	300 Ω			100

FOOTNOTE:
① ANTENNA COIL DISCONNECTED FROM SELECTOR SWITCH CONNECT A 100-Ω OHM RESISTOR TO PIN NO. 7 AND GROUND.
② MUST BE A NON-INDUCTIVE CARBON RESISTOR AS RESULT OF WIRE WOUND RESISTOR WILL GIVE FALSE

No.	CONDENSERS	No.	CONDENSERS
C1	0.5 μf 400 V TUBULAR	C34	0.05 μf 100 V TUBULAR
C2	4 M OSCILLATOR TRIMMER	C35	260 μf 500 V MICA
C3	4 M OSCILLATOR SECTION GANG	C36	10 μf CERAMIC
C4	F M ANT SECTION GANG	C37	70 μf CERAMIC
C5	F M ANT SECTION GANG	C38	0.05 μf 400 V TUBULAR
C6	4 M ANT SECTION GANG	C39	0.02 μf 600 V TUBULAR
C7	4 M ANT TRIMMER	C40	270 μf 500 V MICA
C8	0.05 μf 200 V TUBULAR	C41	470 μf ±20% CERAMIC
C9	40-50 μf WAVE TRAP TRIMMER	C42	0.05 μf 600 V TUBULAR
C10	±5% CERAMIC (TEMP COMP)	C43	5 μf 100 V ELECTROLYTIC
C11	4 μf ±10% CERAMIC	C44	20 μf 150 V ELECTROLYTIC
C12	F M OSCILLATOR TRIMMER	C45	20 μf 25 V ELECTROLYTIC
C13	100 μf ±10% CERAMIC	C46	40 μf 350 V ELECTROLYTIC
C14	F M OSCILLATOR SECTION GANG	C47	40 μf 350 W
C15	10 μf ±20% 600 V MICA	C48	0.002 μf 600 V TUBULAR
C16	100 μf ±20% 500 V MICA	C49	400 μf ±20% 500 V MICA
C17	10 μf ±10% CERAMIC		
C18	500 μf ±20% 500 V MICA		
C19	100 μf MICA		
C20	100 μf DUAL MICA		
C21	100 μf DUAL MICA		
C22	0.1 μf 600 V TUBULAR		
C23	0.05 μf 200 V TUBULAR		
C24	0.05 μf 100 V TUBULAR		
C25	0.05 μf 400 V TUBULAR		
C26	10 μf DUAL MICA		
C27	100 μf DUAL MICA		
C28	150 μf DUAL MICA		
C29	110 μf		
C30	360 μf ±20% 500 V MICA		
C31	0.02 μf 600 V TUBULAR		
C32	0.02 μf 200 V TUBULAR		
C33	0.005 μf 600 V TUBULAR		

RESISTORS

R1	2200 Ω ±20%	1/2 W CARBON
R2	8200 Ω ±10%	2 W
R3	6800 Ω ±10%	2 W
R4	10 MEGOHM ±20%	1/2 W
R5	22,000 Ω ±20%	1/2 W
R6	47,000 Ω ±20%	1/2 W
R7	2.2 MEGOHM ±20%	1/2 W
R8	10 Ω ±10%	NON-INDUCTIVE
R9	1000 Ω ±20%	1/2 W
R10	56 Ω ±10%	1/2 W
R11	1000 Ω ±20%	1/2 W
R12	220,000 Ω ±20%	1/2 W
R13	500,000 Ω CONTROL TAPPED AT 250,000 Ω	
R14	150,000 Ω CONTROL	
R15	4.7 MEGOHM ±20%	1/2 W
R16	56 Ω ±10%	1/2 W
R17	1000 Ω ±20%	1/2 W
R18	23,000 Ω ±10%	1/2 W
R19	220,000 Ω ±20%	1/2 W
R20	1.0 MEGOHM ±20%	1/2 W
R21	470,000 Ω ±20%	1/2 W
R22	1600 Ω ±10%	2.6 W TAPPED
R23	2500 Ω ±10%	6.3 W TAPPED
R24	6800 Ω ±10%	1/2 W
R25	6800 Ω ±10%	1/2 W
R26	390 Ω ±10%	1/2 W
R27	1.0 MEGOHM ±20%	1/2 W
R28	1.0 MEGOHM ±20%	1/2 W

SPECIFICATIONS

Standard Broadcast Range.....540 Kc. - 1650 Kc.
Frequency Modulation Range.....88 Mc. - 108 Mc.
Intermediate Frequency (AM).....455 Kc.
Intermediate Frequency (FM).....10.7 Mc.
Power Consumption.....74 Watts
Undistorted Output.....4 Watts
Maximum Power Output.....8.5 Watts

