

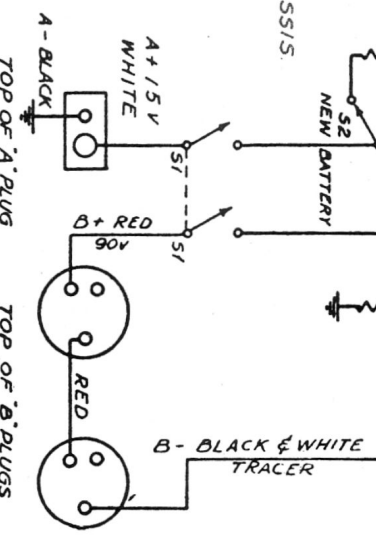
ALL VOLTAGES TAKEN TO CHASSIS WITH 20,000Ω PER VOLT METER ON 100V RANGE AND ECONOMIZER SWITCH IN OLD BATTERY POSITION.

NOTE: ALL VOLTAGES MEASURED TO CHASSIS.

ERRATA

Change R5 to 22000 ohms and Connect to AVC.

Remove Control Grid 1H5GT/G from Pin No. 5 and Connect to Pin No. 7.



VIKING 47-06, 48-06
 (Chassis EB1-4617, EB2-4617)
 (Factory Model EMB-61-417, EMB-61-427)

ALIGNMENT—PROCEED IN SEQUENCE LISTED

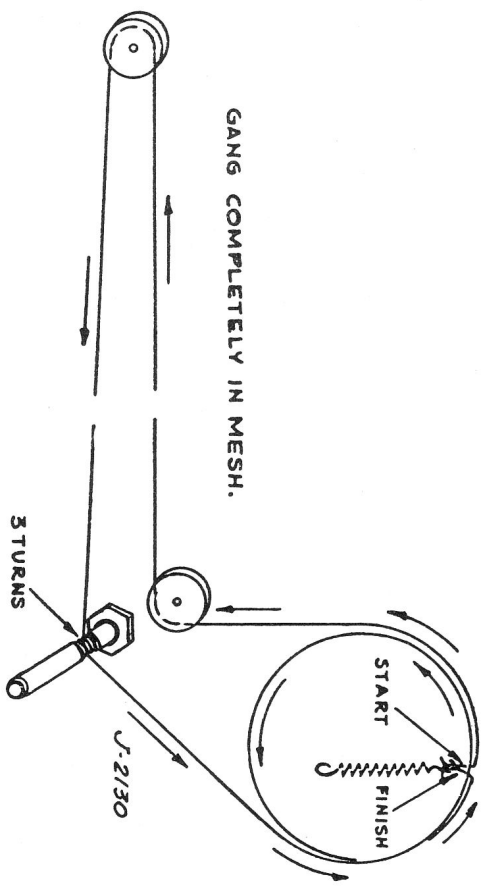
Band	Dummy Antenna	Connect Generator To	Radio Dial Setting	Generator Frequency	Trimmer Adjusted	Adjustment	Approx. Sensitivity for 50 M.W. Output
2nd I.F.	.05 Mfd.	Grid of IN5GT/G 1st I.F. Tube	1650 K.C.	455 K.C.	2nd I.F. C-6	Maximum Output	6800 Microvolts
Converter Grid	.05 Mfd.	Grid of 1A7GT/G Converter	1650 K.C.	455 K.C.	1st I.F. C-5	Maximum Output	52 Microvolts
B.C.	200 Mmfd.	Ant.	1460 K.C.	1460 K.C.	B.C. Osc. C-4 B.C. Ant. C-8	Maximum Output	16 Microvolts
B.C.	200 Mmfd.	Ant.	600 K.C.	600 K.C.		Check	9 Microvolts

SENSITIVITIES

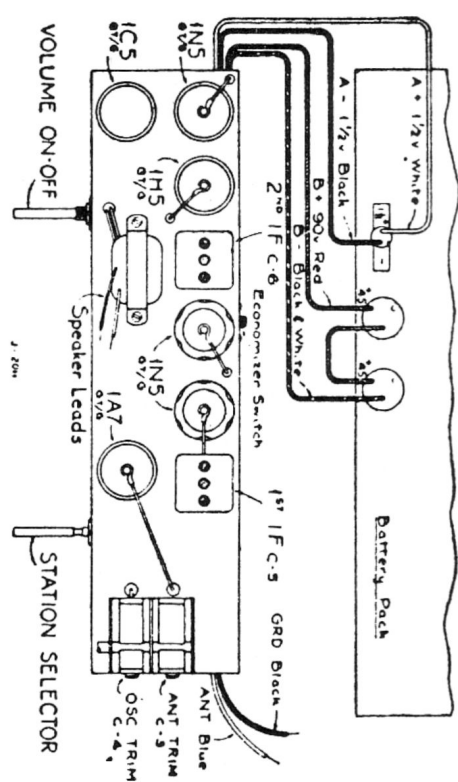
2nd I.F. Grid.....	455 Kc.	600 Kc.	1 Mc.	1.5 Mc.
1st I.F. Grid.....	6800	—	—	—
Converter Grid.....	1200	—	—	—
Antenna Grid.....	52	55	55	55
	—	9	10	16

Sensitivity in microvolts for 50 milliwatts output (voice coil impedance 3.2 ohms) carrier modulated 30% at 400 cycles.

STRINGING DETAIL



CONDENSERS		RESISTORS	
C 1	GANG CONDENSER (ANT SECTION)	R 1	150,000 Ω 1/4 W ± 20%
C 2	GANG CONDENSER (OSC SECTION)	R 2	47,000 Ω 1/4 W ± 20%
C 3	ANT. TRIMMER (ON GANG)	R 3	1 MEGOHM 1/4 W ± 20%
C 4	OSC. TRIMMER (ON GANG)	R 4	15,000 Ω 1/4 W ± 20%
C 5	1ST. I.F. TRIMMER	R 5	2.2 MEGOHMS 1/4 W ± 20%
C 6	2ND. I.F. TRIMMER	R 6	2.2 MEGOHMS 1/4 W ± 20%
C 7	.05 MF. TUBULAR	R 7	47,000 Ω 1/4 W ± 20%
C 8	260 MMF ± 20% MICA	R 8	1 MEGOHM VOLUME CONTROL ± 20%
C 9	.05 MF. 400V TUBULAR	R 9	10 MEGOHMS 1/4 W ± 20%
C 10	50 MMF ± 20% MICA	R 10	.39 Ω ± 10%
C 11	260 MMF ± 20% MICA	R 11	1 MEGOHM 1/4 W ± 20%
C 12	.01 MF. 600V TUBULAR ELECTRIC	R 12	270,000 Ω 1/4 W ± 20%
C 13	.4 MF. 150V TUBULAR	R 13	1 MEGOHM 1/4 W ± 20%
C 14	.1 MF. 200V TUBULAR	R 14	510 Ω ± 5%
C 15	260 MMF ± 20% MICA		
C 16	.01 MF. 600V TUBULAR		
C 17	.005 MF. 600V TUBULAR		
C 18	.05 MF. 400V TUBULAR		



TUBE LAYOUT AND CALIBRATION

ALIGNMENT AND CALIBRATION

These receivers are carefully aligned and calibrated at the factory with precision instruments. If realignment is necessary, the following equipment is required:

- (1) A signal generator to supply with accuracy the frequencies:
 - (a) 455 K.C., (b) 1460 K.C., (c) 600 K.C.
- (2) A dependable output meter.