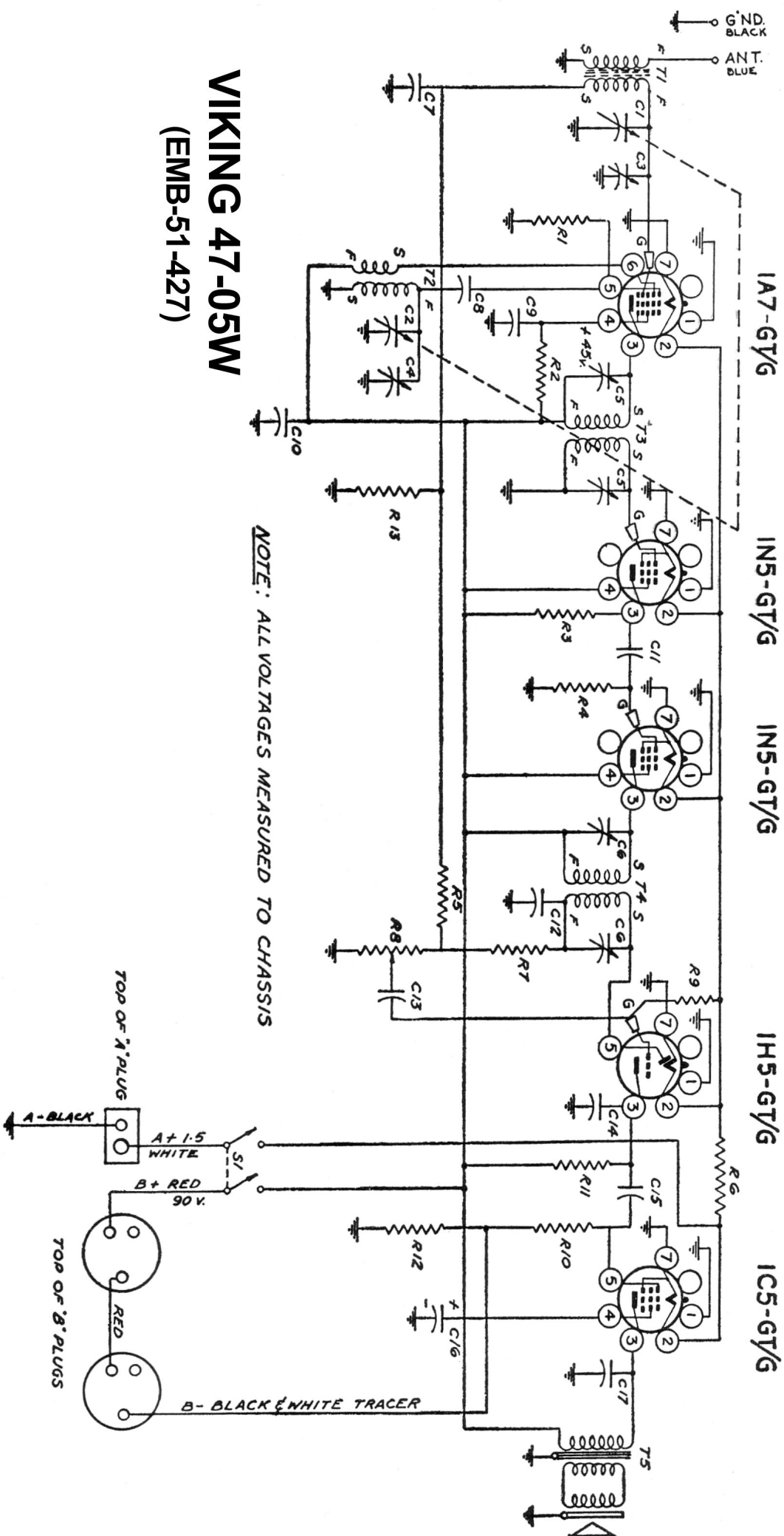


VIKING 47-05W

(EMB-51-427)

NOTE: ALL VOLTAGES MEASURED TO CHASSIS



ALIGNMENT—PROCEED IN SEQUENCE LISTED

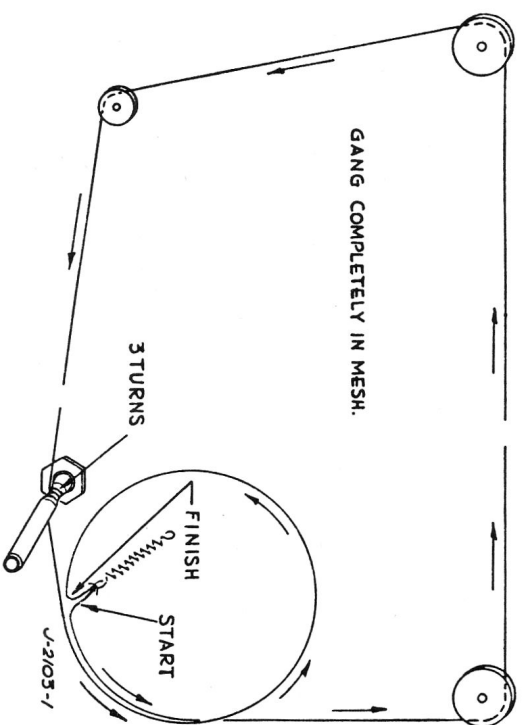
Band	Band Switch Setting	Dummy Antenna	Connect Generator To	Radio Dial Setting	Generator Frequency	Trimmer Adjusted	Adjustment	Note	Approx. Sensitivity for 50 M.W. Output
2nd I.F.		.05 Mfd.	Grid of IN56T/G 1st I.F. Tube	1650 K.C.	455 K.C.	2nd I.F. C-5	Maximum Output		2500 Microvolts
1st I.F.		.05 Mfd.	Grid of 1A7GT/G Converter	1650 K.C.	455 K.C.	1st I.F. C-5	Maximum Output		130 Microvolts
B.C.		250 Mmfd.	Ant.	1400 K.C.	1400 K.C.	B.C. Osc. C-4 B.C. Ant. C-5	Maximum Output		30 Microvolts
B.C.		250 Mmfd.	Ant.	600 K.C.	600 K.C.		Check	Calibration Sensitivity	25 Microvolts

STAG GAIN

Sensitivity in microvolts for 50 milliwatts output (voice coil impedance 3.2 ohms) carrier modulated 30% at 400 cycles. Dummy antenna of 200 mms. is used in the antenna sensitivity measurement.

2nd I.F. Grid.....	455 Kc.	600 Kc.	1 Mc.	1.5 Mc.
1st I.F. Grid.....	13,000	—	—	—
Converter Grid.....	2,600	—	—	—
Antenna Grid.....	103	110	110	110
	—	20	25	30

STRINGING DETAIL

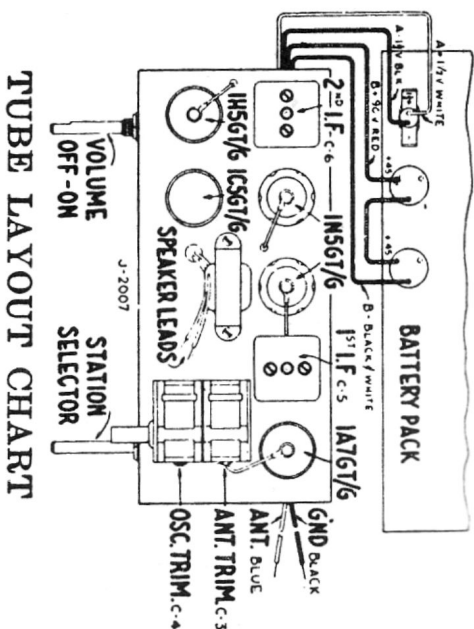


VIKING 47-05W
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ALIGNMENT AND CALIBRATION

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.



CONDENSERS

C 1	GANG CONDENSER (ANT. SECTION)	
C 2	GANG CONDENSER (OSC. SECTION)	
C 3	ANT. TRIMMER ON GANG	
C 4	OSC. TRIMMER ON GANG	
C 5	DUAL I.F. TRIMMER	
C 6	DUAL I.F. TRIMMER	
C 7	.05 MF 400 V	± 20%
C 8	260 MMF 500 V	± 20%
C 9	.05 MF 400 V	± 20%
C 10	.05 MF 400 V	± 20%
C 11	50 MMF 500 V	± 20%
C 12	260 MMF 500 V	± 20%
C 13	.01 MF 600 V	± 20%
C 14	260 MMF 500 V	± 20%
C 15	.01 MF 600 V	± 20%
C 16	4 MF 100 V TUBULAR ELECTRIC	
C 17	.005 MF 600 V	± 25%

RESISTORS

R 1	150,000 Ω	1/4 W.	± 20%
R 2	47,000 Ω	1/4 W.	± 20%
R 3	15,000 Ω	1/4 W.	± 20%
R 4	2.2 MEGOHMS	1/4 W.	± 20%
R 5	2.2 MEGOHMS	1/4 W.	± 20%
R 6	.5 Ω	1/4 W.	± 10%
R 7	47,000 Ω	1/4 W.	± 20%
R 8	1 MEGOHMS	VOLUME CONTROL	± 20%
R 9	10 MEGOHMS	1/4 W.	± 20%
R 10	1 MEGOHM	1/4 W.	± 20%
R 11	470,000 Ω	1/4 W.	± 20%
R 12	620 Ω	1/2 W.	± 5%
R 13	1 MEGOHM	1/4 W.	± 20%