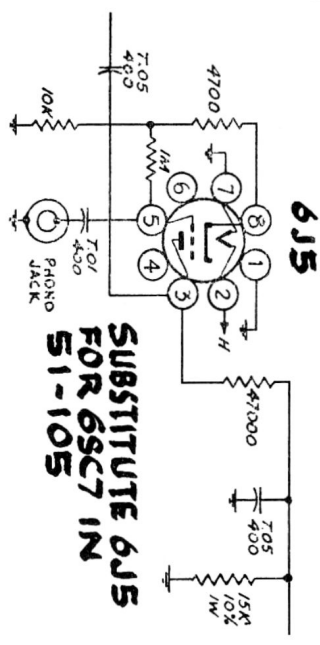


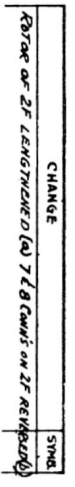
**VIKING 51-103, 51-105, 51-105R**

NOTE: 47 ufd. Ceramic Condenser added from Plug No. 1 Section IR of Selector Switch to ground.



**SUBSTITUTE 6U5  
FOR 6SCT7 IN  
51-105**

ALL VOLTAGES ±10% MEASURED TO CHASSIS WITH 20,000 OHM/VOLT METER AT 117 V. LINE.  
SELECTOR SWITCH SHOWN IN PHONO POSITION.



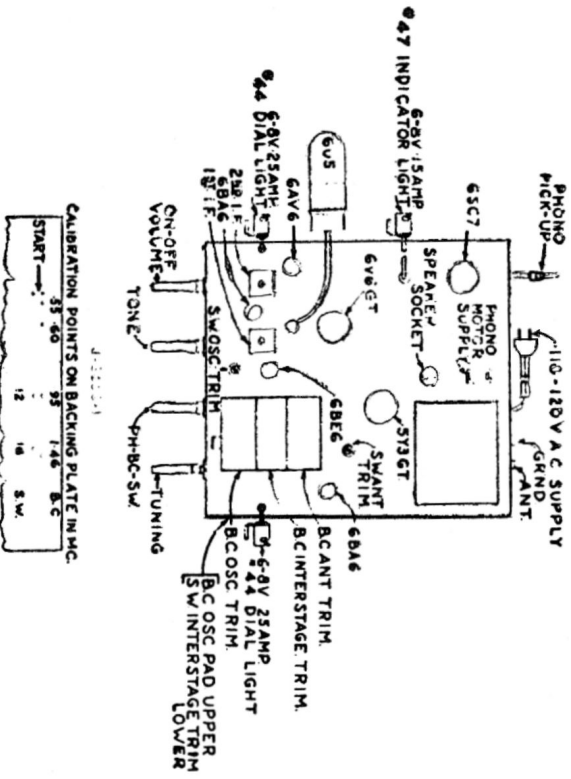
## ALIGNMENT AND SENSITIVITY SIGNAL GENERATOR MODULATED 30% AT 400 C.P.S.

| APPLY SIGNAL AT KC | THRU SERIES TO DUMMY          | SET 6AMG AT | ADJUST FOR MAX. OUTPUT             | NOMINAL SENSITIVITY FOR 500 MILLIVOLTS OUTPUT |
|--------------------|-------------------------------|-------------|------------------------------------|---|
| 455                | 6846 1/2 1/2 PIN<br>0.05 ufd. |             | 2ND I.F.<br>1000 CORES             | 4000 MICROVOLTS                               |
| 455                | 6B6B 1/2 PIN<br>0.05 ufd.     | MIN. CAP    | 1ST I.F.<br>2ND I.F.               | 75  |
| 1460               | 6846 1/2 PIN<br>0.05 ufd.     | 1460 KC.    | B.C. OSC.<br>TR/NA.                | 85  |
| 1460               | ANT.                          | 200 ufd.    | B.C. ANT.<br>INTERSTAGE TRIM       | 5   |
| 600                | ANT.                          | 200 ufd.    | D.C. OSC.<br>PADOOR                | 5   |
| 16 MC.             | ANT.                          | 400 Ω       | S.W. OSC.<br>INTERSTAGE ANT. TRIM. | 15  |
| 10 MC.             | ANT.                          | 400 Ω       | CHECK POINT                        | 20  |

### COMPONENT VALUES

**RESISTORS:** HALF WATT UNLESS OTHERWISE NOTED.  
20% TOLERANCE UNLESS OTHERWISE NOTED.  
M = 1000, 000 OHMS.  
K = 1000 OHMS.

**CONDENSERS:** T-TUBULAR, FOLLOWED BY CAP IN MPD AND D.C.V.  
E - ELECTROLYTIC FOLLOWED BY CAP IN MPD & D.C.V.  
C - CERAMIC, FOLLOWED BY CAP IN MPD & TOL IF CRITICAL.  
M - MICA, FOLLOWED BY CAP IN MPD & TOL IF CRITICAL.



CALIBRATION POINTS ON BACKING PLATE IN MC.

|       |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|
| START | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|       | 12 | 15 | 18 | 21 | 24 | 27 | 30 |

### CHASSIS LAYOUT CHART

