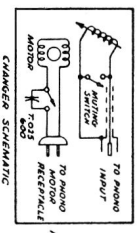


NUM BALANCE CONTROL: ADJUST FOR MINIMUM NUM ON PHONO.
D.C. BALANCE CONTROL: CONNECT D.C. VOLTMETER ACROSS OUTPUT TRANS PRIMARY AND ADJUST CONTROL FOR ZERO VOLTAGE.

BAND SWITCH SHOWN IN PHONO (EXTREME COUNTER-CLOCKWISE) POSITION.
 SWITCH SEQUENCE: PHONO - BC DISTANT - BC LOCAL - SW1 - SW2.
 TONE CONTROL SWITCHES SHOWN IN NORMAL (CENTER) POSITION.
 RECORD COMPENSATOR SWITCH SHOWN IN A E S (EXTREME COUNTER-CLOCKWISE) POSITION.
 SWITCH SEQUENCE: A E S - ORPHO - N A P T B - EARLY 78-7778-4141.
 HEAVY LINE INDICATES SIGNAL PATH FOR BROADCAST - DISTANT POSITION.
 DOTTED LINE INDICATES SIGNAL PATH FOR PHONO POSITION.
 GREEN HEAVY LINE INDICATES FEEDBACK PATH IN TONE CONTROL SELECTOR SWITCH.

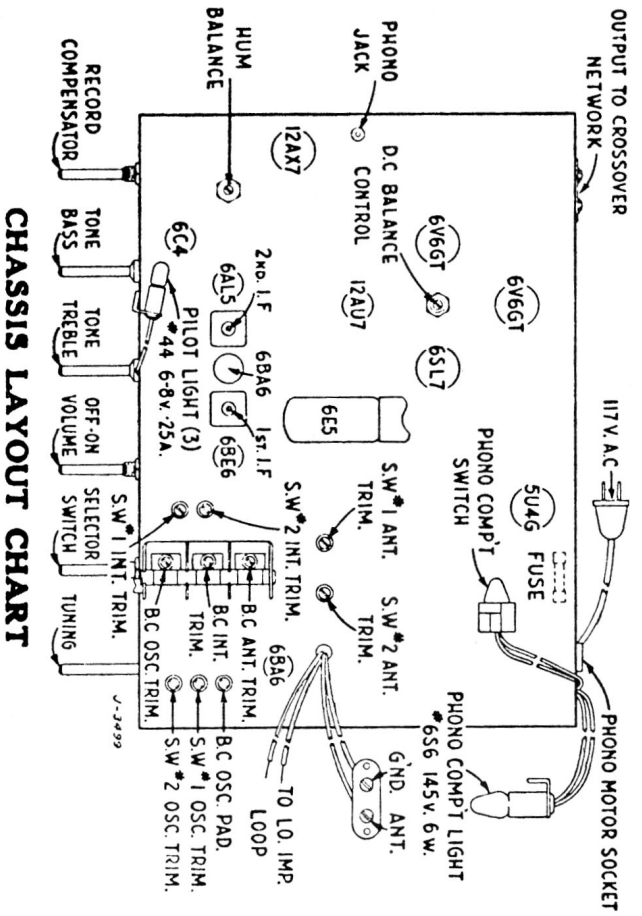
COMPONENT VALUES
 RESISTORS: HALF WATT, UNLESS OTHERWISE NOTED.
 20% TOLERANCE UNLESS OTHERWISE NOTED.
 N = 1,000,000 OHMS
 K = 1,000 OHMS
 C = CERAMIC, FOLLOWED BY CAP IN MPD, F, D.C.W.V.
 C = ELECTROLYTIC, FOLLOWED BY CAP IN MPD, F, D.C.W.V.
 ALL VOLTAGES REFERRED TO CHASSIS WITH 20,000 OHM/VOLTMETER $\frac{1}{1}$.
 $\frac{1}{2}$ VOLTAGES INDICATED WITH ASTERISK ARE FOR LOCAL SETTINGS OF SELECTOR SWITCH.



SPECIFICATIONS

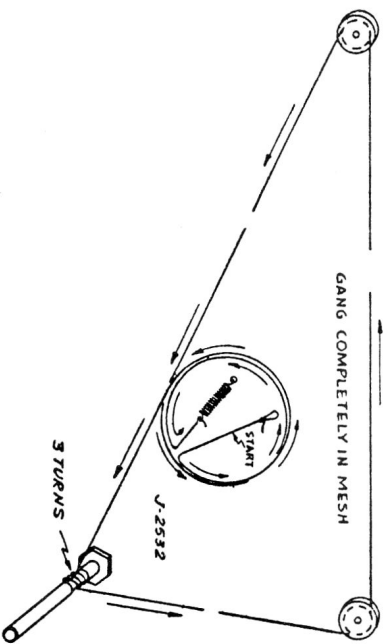
Standard Broadcast Range	540-1640 Kc.
Short Wave SW-1	5.7-11.0 Mc.
SW-2	10.0-18.0 Mc.
Intermediate Frequency	455 Kc.
Power Consumption (radio only)	84 Watts
(radio & phono)	94 Watts
Maximum Power Output at 400 C.P.S.	14 Watts
Undistorted Power Output at 400 C.P.S.	10 Watts
Undistorted Power Output 20 C.P.S. to 10,000 C.P.S.—7 Watts \pm 1 1/2 db.	
Undistorted Power Output 20 C.P.S. to 20,000 C.P.S. at Normal Listening Level i.e. 2 Watts	

VIKING 55-146



CHASSIS LAYOUT CHART

ALIGNMENT AND SENSITIVITY						
SIGNAL GENERATOR MODULATED 30% AT 400 C. P. S.						
TONE CONTROL SWITCHES IN NORMAL OR CENTER POSITION						
BROADCAST ALIGNMENT MADE WITH SELECTOR SWITCH AT "DISTANT"						
STEP	APPLY SIGNAL AT KC.	TO	THRU SERIES DUMMY	SET GANG AT	ADJUST FOR MAX OUTPUT 500 MILLIWATTS OUTPUT	NOMINAL SENSITIVITY FOR 2500uV "DISTANT" 8500uV "LOCAL"
1	455	6B86 #1 PIN	.05 ufd.		180V CORES	50
2	455	6B86 #7 PIN	.05	MIN. CAP.	180V CORES	175
3	1460	6B86 #7 PIN	.05	1460 KC.	B.C.	—
4	1460	ANT.	400 Ω	1460	BC ANT. f INTERSTAGE TRIMMERS	2 2
5	600	ANT.	400	600 KC.	B.C. OSC. PADDED	8 100
6	16 MC.	ANT.	400	16 MC.	S.W. 2 OSC. INTERSTAGE ANT TRIM.	10
7	10.5 MC.	ANT.	400	10.5	CHECK ADJMT S.W. 2	10
8	10 MC.	ANT.	400	10	S.W. 1 OSC. INTERSTAGE ANT TRIM	5
9	6 MC.	ANT.	400	6	CHECK POINT S.W. 1	5



STRINGING DETAIL

HUM BALANCER

A Hum Balancer has been incorporated in this receiver to balance out hum which may be present because of the high gain and wide frequency response of the audio portion of the receiver. It may be necessary to re-adjust the hum balancer for minimum hum reproduction when the 12AX7 tube is replaced. Set the tone controls in their extreme right hand positions, turn the selector switch to phono position, the volume control full on and adjust the hum balancer for minimum hum level.

DRIVE BALANCE CONTROL

See instructions on schematic for adjustment of this control.