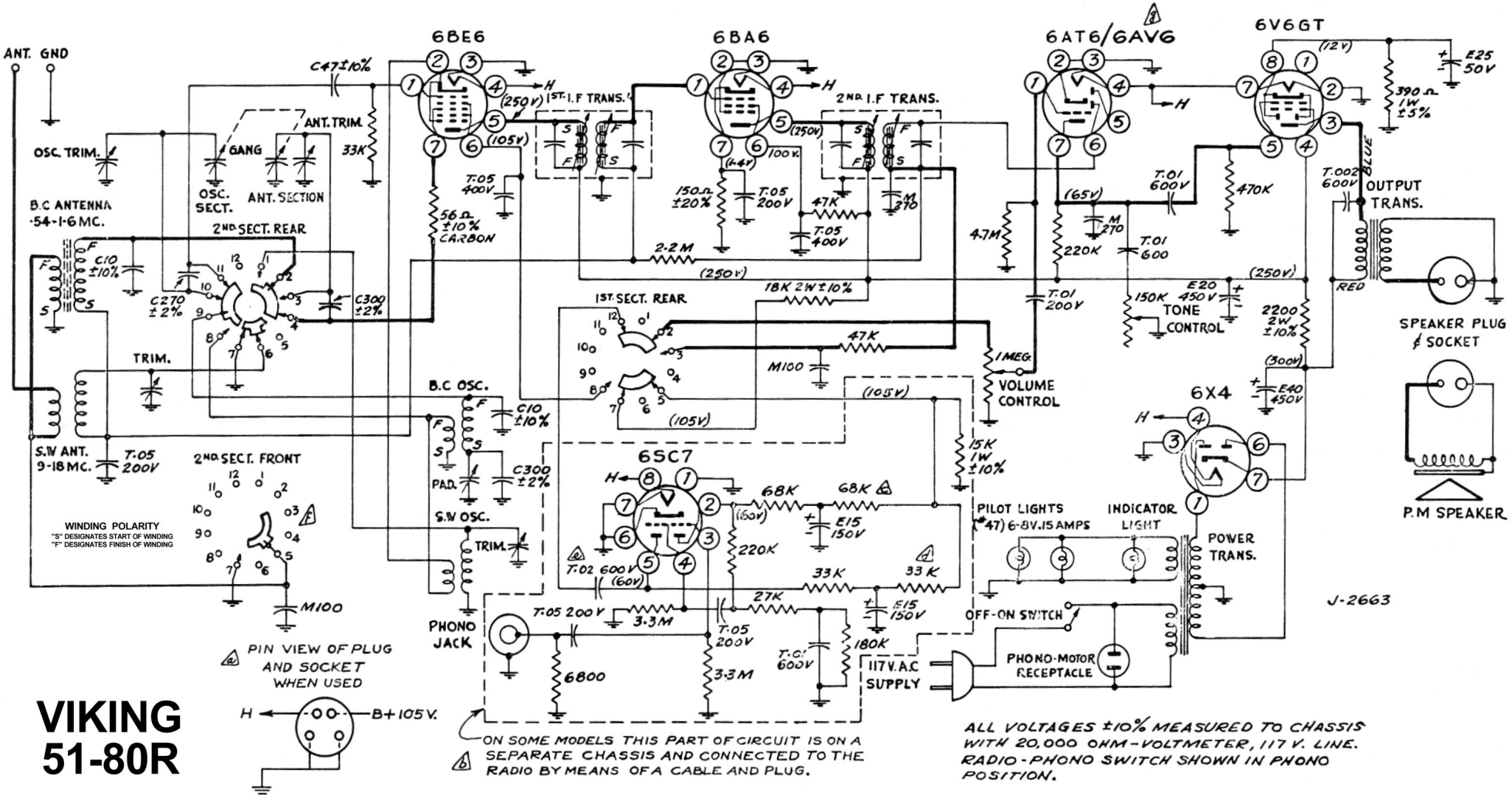
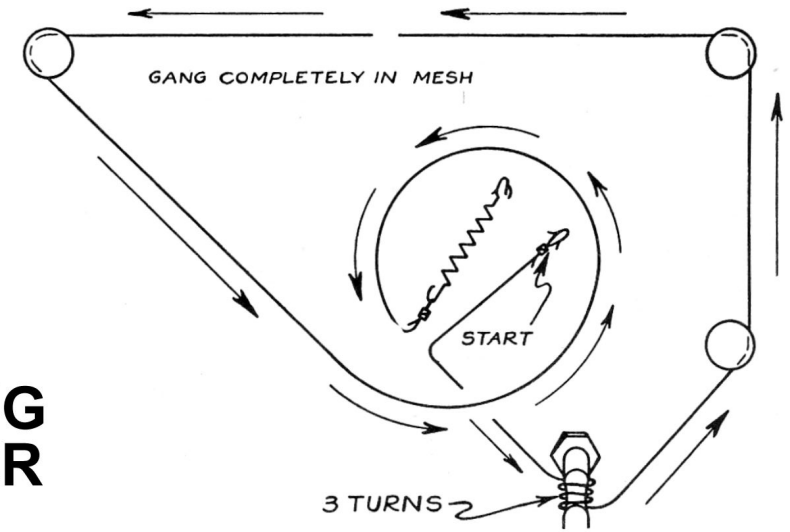
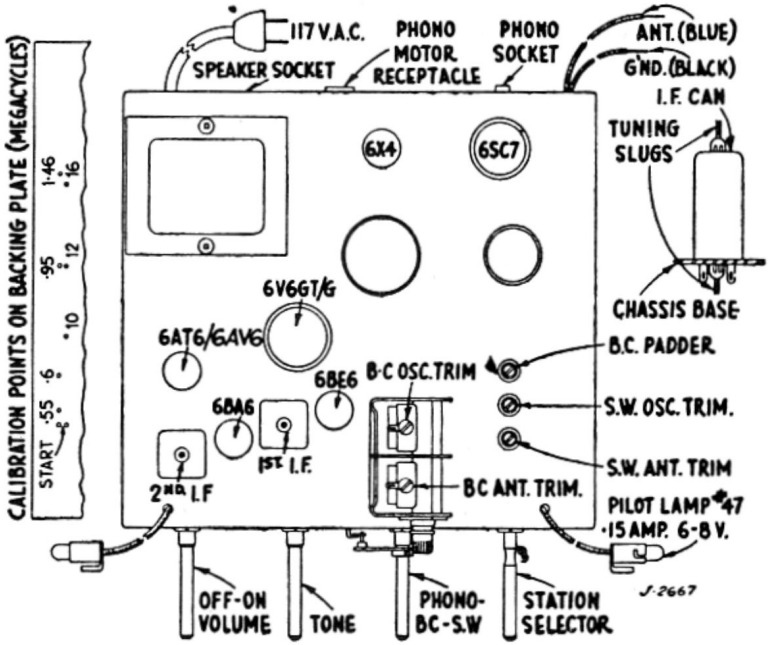

VIKING
51-80R
6BE6
6BA6
6AT6/6AV6
6V6GT
6SC7
6X4
ANT. GND
OSC. TRIM.
GANG
ANT. TRIM.
ANT. SECTION
OSC. SECT.
B.C ANTENNA
·54-1·6 MC.
2ND SECT. REAR
TRIM.
S.W ANT.
9-18 MC.
2ND SECT. FRONT
WINDING POLARITY
"S" DESIGNATES START OF WINDING
"F" DESIGNATES FINISH OF WINDING
M100
B.C OSC.
PAD.
S.W OSC.
PHONO JACK
1ST. I.F TRANS.
2ND. I.F TRANS.
1ST SECT. REAR
VOLUME CONTROL
TONE CONTROL
OUTPUT TRANS.
SPEAKER PLUG & SOCKET
P.M SPEAKER
PILOT LIGHTS (*47) 6-8V. 15 AMPS
INDICATOR LIGHT
POWER TRANS.
OFF-ON SWITCH
PHONO-MOTOR RECEPTACLE
117 V. A.C SUPPLY
PIN VIEW OF PLUG AND SOCKET WHEN USED
H
B+105 V.
ON SOME MODELS THIS PART OF CIRCUIT IS ON A SEPARATE CHASSIS AND CONNECTED TO THE RADIO BY MEANS OF A CABLE AND PLUG.
ALL VOLTAGES ±10% MEASURED TO CHASSIS WITH 20,000 OHM-VOLTMETER, 117 V. LINE. RADIO-PHONO SWITCH SHOWN IN PHONO POSITION.
J-2663

VIKING 51-80R

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

STEP	APPLY SIGNAL AT KC	APPLY SIGNAL TO	THRU SERIES DUMMY	SET GANG AT	ADJUST FOR MAX. OUTPUT	NOMINAL SENSITIVITY FOR 500 MILLIWATTS OUTPUT
1	455	6BA6 #1 PIN	.05 μfd.		2ND. I.F	3000 μv.
2	455	6BE6 #7 PIN	.05 μfd.	1460	1ST. I.F. 2ND. I.F.	60 μv.
3	1460	ANT.	200 μμfd.	1460	TWO GANG TRIMMERS	15 μv.
4	600	ANT.	200 μμfd.	600	B.C OSC PADDER	15 μv.
5	16 MC.	ANT.	400Ω	16 MC.	S.W. OSC. & ANT. TRIM.	45 μv.
6	10 MC	ANT.	400Ω	10 MC.	CHECK POINT.	45 μv





SPECIFICATIONS

Standard Broadcast Range	535 Kc. - 1650 Kc.
Short Wave Range	9.0 Mc. - 18.0 Mc.
Intermediate Frequency	455 Kc.
Power Consumption (Radio Only)	48 Watts
Power Consumption (Radio and Phono)	65 Watts
Undistorted Output	2.5 Watts
Maximum Power Output	4.0 Watts

COMPONENT VALUES

RESISTORS: HALF WATT UNLESS OTHERWISE NOTED.
20% TOLERANCE UNLESS OTHERWISE NOTED.
K = 1000 OHMS.
M = 1,000,000 OHMS.

CONDENSERS: T = TUBULAR FOLLOWED BY CAP. IN MFD. AND D.C.W.V
E = ELECTROLYTIC FOLLOWED BY CAP. IN MFD. & D.C.W.V
C = CERAMIC FOLLOWED BY CAP. IN MMFD & TOL. IF CRITICAL.
M = MICA FOLLOWED BY CAP. IN MMFD & TOL. IF CRITICAL.

CHANGE

PIN VIEW OF PLUG & SOCKET ADDED (a); NOTE ADDED (b); WAS 33K (c)
WAS 68K (d); WAS T-05 200V. (e)
LENGTH OF SHOE ON SECOND SECTION FRONT OF SWITCH CHANGED (f) 6AV6 ADDED (g)