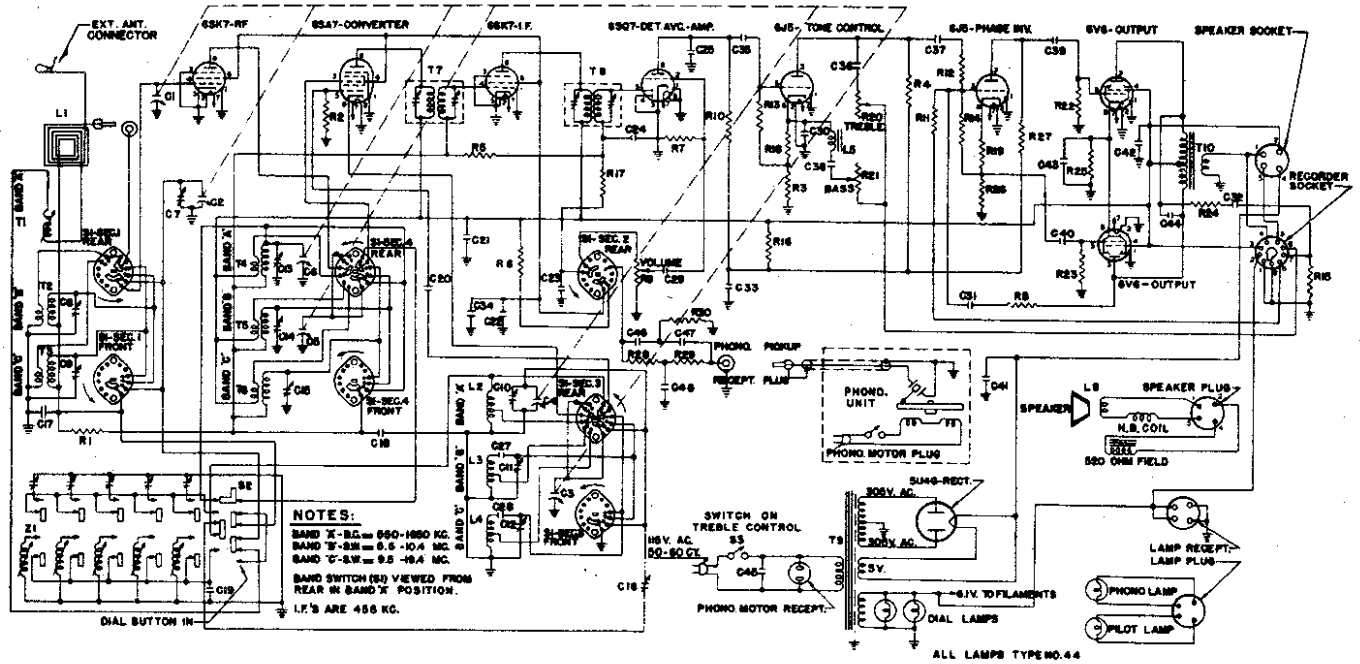


MODEL B503, chassis 115 HOFFMAN RADIO CORP.



**NOTES:**  
 BAND X - S.W. = 650-1450 KC.  
 BAND Y - S.W. = 6.5 - 10.4 MC.  
 BAND Z - S.W. = 9.5 - 16.4 MC.  
 BAND SWITCH (S2) VIEWED FROM REAR IN BAND X POSITION.  
 I.F.'S ARE 455 KC.

**NORMAL OPERATING VOLTAGES**

The following table lists the normal operating voltages to be expected at the various tube socket terminals.

(Tuner Chassis) **NORMAL OPERATING CURRENTS**  
 5U4G Cathode Current 115 Ma.  
 6V6 Cathode Current (both tubes) 70 Ma.

**TUNER CHASSIS**

PIN NO.	1	2	3	4	5	6	7	8
6SK7 (R.F.)	0	0	0	-1	0	+95	6.2 AC	+290
6SA7 (Conv.)	0	0	+290	+95	-5 to -10	0	6.2 AC	-15
6SK7 (I.F.)	0	0	0	-15	0	+95	6.2 AC	+290
6SQ7	0	-2	0	-25	0	+75	6.2 AC	0
6J5 (Tone)	0	0	+130	0	+20 □	0	6.2 AC	+22
6J5 (Inverter)	0	0	+105	0	+50 #	0	6.2 AC	+43
6V6	0	0	+290	+290	0	0	6.2 AC	+17
6V6	0	0	+290	+290	0	0	6.2 AC	+17
5U4G	0	+350 5.2 AC*	0	335 AC	0	335 AC	0	+350 5.2 AC*

D.C. voltages measured with 20,000 ohm/volt meter.  
 A.C. voltages measured with 1,000 ohm/volt meter.  
 Line voltage 117.  
 # measured at junction of R13 and R16.  
 □ measured at junction of R15 and R17.

All voltages measured with reference to chassis except as follows:  
 \* measured between pins 2 and 8; not to chassis.  
 NOTE The above readings are obtained with no signal input to receiver and band switch in position "A".

**RECORDER CHASSIS**

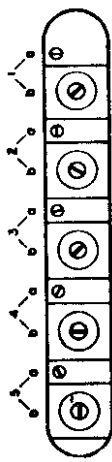
Pin No.	1	2	3	4	5	6	7	8
6SJ7	0	6.1AC	+9	0	+9	+15	0	+48
6SQ7	0	-3	0	-4	-4	+93	0	6.1AC
6U5/6G5	6.1AC	+33	-3	+260	0	0	0	0

All voltages measured with reference to chassis with no signal input.

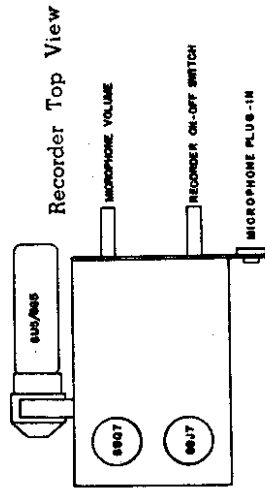
HOFFMAN RADIO CORP.

MODEL B503

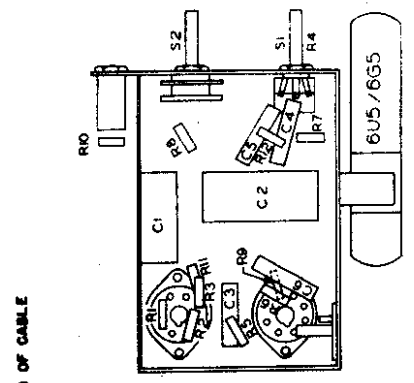
SYMBOL	RECORDER CHASSIS DESCRIPTION	HOFFMAN NO.
C1, C2, C4	25 Mfd. -25 Volt. Electrolytic	4208
C3	10 Mfd. 450 Volt. Electrolytic	4122
C5	.01 Mfd. 400 Volt. Tubular Paper	4102
C6	.02 Mfd. 400 Volt. Tubular Paper	4106
R1	2200 Ohm ±20% 1/2 Watt	4512
R2	10,000 Ohm ±20% 1/2 Watt	4515
R3	.47 Megohm ±20% 1/2 Watt	4505
R4	5 Megohm Potentiometer	4502
R5	10 Megohm ±20% 1/2 Watt	4500
R6	1.5 Ohm ±20% 1/2 Watt	4509
R7	1.0 Ohm ±20% 1/2 Watt	4510
R8	47,000 Ohm ±20% 1/2 Watt	4516
R9, R10	1.0 Megohm ±20% 1/2 Watt	4518
R11	1.0 Megohm ±20% 1/2 Watt	4511
S1	Master On-off Switch (Part of R4)	6003
S2	Recorder On-off Switch	4707
S3	5 Ohm ±20% 1/2 Watt Wire Wound	4708



Pushbutton Adjustments

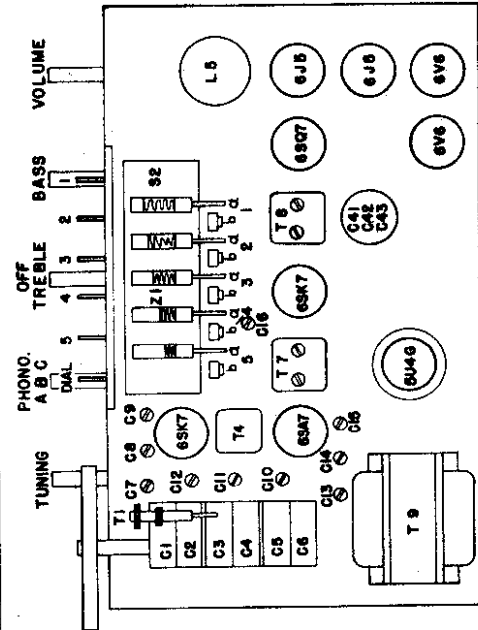


Recorder Top View

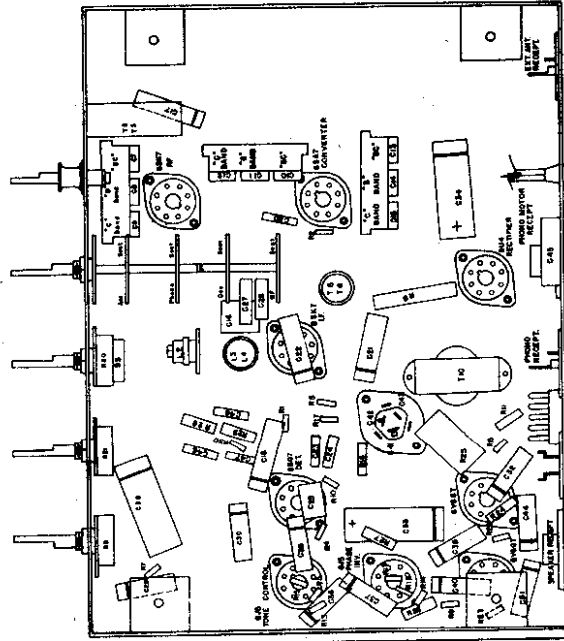


Bottom View of Recorder

SYMBOL	TUNER CHASSIS DESCRIPTION	HOFFMAN No.
C1-C2, C3-C4	Three-Section Variable with Split Stator (100-260, 160-260, 160-260 Mmf.)	4403
C5-C6	Three-Section Tuner Assembly	4300
C7	Three-Section Tuner Assembly	4300
C8, C9, C10, C11, C12, C13, C14, C15	Three-Section Tuner Assembly	4300
C16	110-560 Mmf. Padler, Band "A"	4301
C17, C18	65 Mfd. 200 Volt. Tubular Paper	4100
C19	500 Mmf., 1% Silver Mica	4007
C20	100 Mfd., 50 Volt. Tubular Paper	4101
C21, C22, C23, C24, C25	65 Mfd. 400 Volt. Tubular Paper	4000
C26	1050 Mmf., 20% Mica	4005
C27	2300 Mmf., 5% Mica	4006
C28	105 Mfd. 50 Volt. Tubular Paper	4003
C29, C30, C31, C32	105 Mfd. 50 Volt. Tubular Paper	4003
C33	105 Mfd. 50 Volt. Tubular Paper	4003
C34, C35, C36, C37	105 Mfd. 50 Volt. Tubular Paper	4003
C38	.01 Mfd. 400 Volt. Tubular Paper	4112
C39, C40	.5 Mfd. 200 Volt. Tubular Paper	4110
C41, C42, C43	20-20.30 Mfd. 450-150 25V. Electrolytic	4200
C44	100 Mfd. 400 Volt. Tubular Paper	4102
C45	100 Mfd. 400 Volt. Tubular Paper, Heat Con.	4105
C46, C47	330 Mmf., 5% Mica	4010
C48	650 Mmf., 5% Mica	4011
L1	Lamp Antenna	5210
L2	Oscillator Coil (Band "A")	5211
L3, L4	12" Loudspeaker (Electrodynamic)	5103
L5	12" Loudspeaker (Electrodynamic)	5044
R1, R2, R3, R4	1 Megohm ±20% 1/2 Watt	4501
R5	2.2 Megohm ±20% 1/2 Watt	4502
R6	10 Megohm ±20% 1/2 Watt	4505
R7	10 Megohm ±20% 1/2 Watt	4505
R8	5 Megohm Potentiometer—Volume Control	4544
R9	22 Megohm ±20% 1/2 Watt	4500
R10, R11, R12	1 Megohm ±20% 1/2 Watt	4511
R13, R14, R15	47,000 Ohm ±20% 1/2 Watt	4516
R16, R17	2,200 Ohm ±20% 1/2 Watt	4504
R18, R19	2,200 Ohm ±20% 1/2 Watt	4512
R20	25 Meg. Pot. with Switch—Traction Control	4805
R21	50,000 Ohm Potentiometer—Base Control	4806
R22, R23, R24	25 Meg. Pot. with Switch—Base Control	4519
R25	22,000 Ohm ±5% 1/2 Watt	4537
R26, R27, R28, R29	17,000 Ohm ±5% 1/2 Watt	4538
R30	22,000 Ohm ±5% 1/2 Watt	4538
S1	Master On-off Switch	6003
S2	Recorder On-off Switch	4707
T1	Pushbutton Switch Assembly	5220
T2	On-off Switch (Band "A")	5117
T3	On-off Switch (Band "B")	5216
T4, T5	Antenna Coil (Band "B" and "C")	5219
T6	R.F. Coil Shield (Band "A")	5219
T7	R.F. Coil (Band "B" and "C")	5219
T8	Power Transformer	5211
T9	Audio Output Transformer	5001
T10	Pushbutton Tuning Assembly	5108
Z1	Pushbutton Tuning Assembly	52200



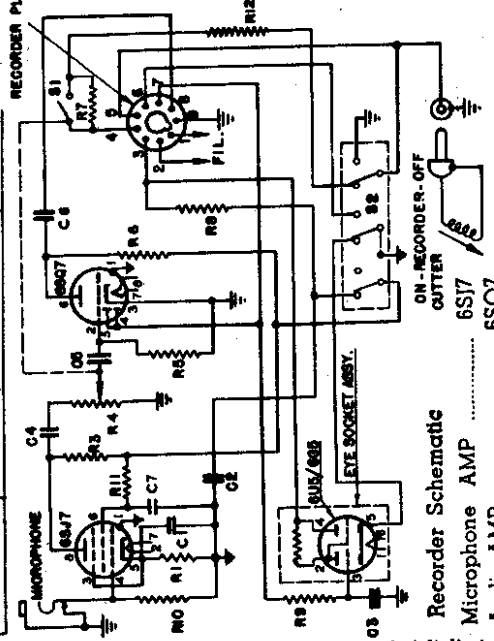
Tuner Top View



Bottom of Tuner Chassis

SPECIFICATIONS

- TUNING RANGES:
  - Band "A" ..... 540 Kc to 1600 Kc.
  - Band "B" ..... 5.6 Mc to 10.4 Mc.
  - Band "C" ..... 9.4 Mc to 19.4 Mc
- Intermediate Frequency ..... 455 Kc
- Power Supply ..... 115V. A.C., 50-60 C.P.S.
- Power Consumption (incl. phono) ..... 150 Watts
- Undistorted Audio Output ..... 12 Watts



Recorder Schematic

Microphone AMP

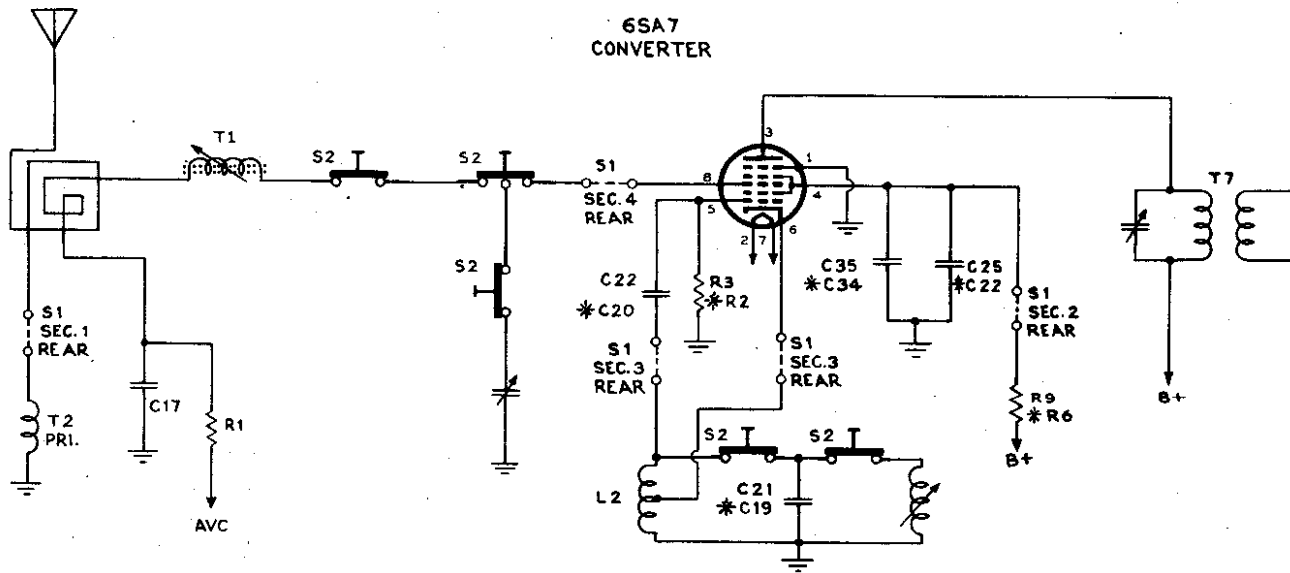
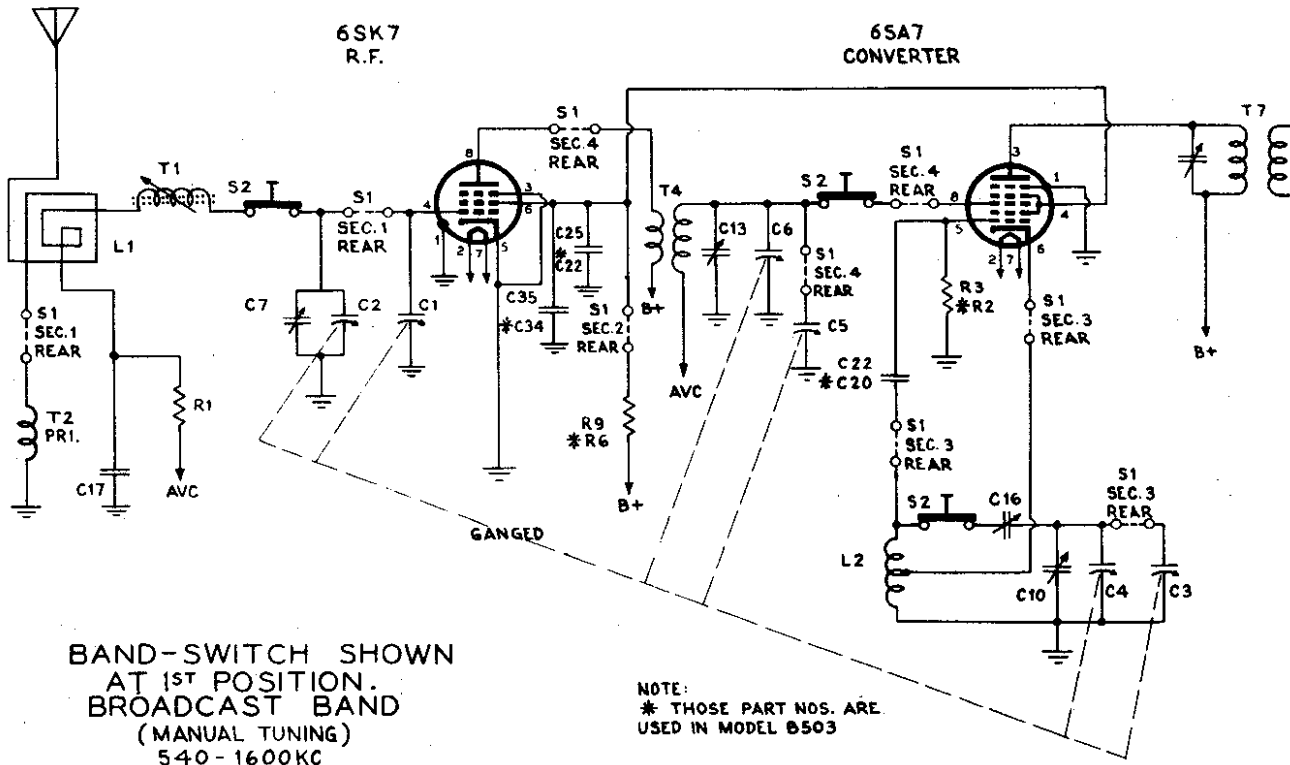
Audio AMP

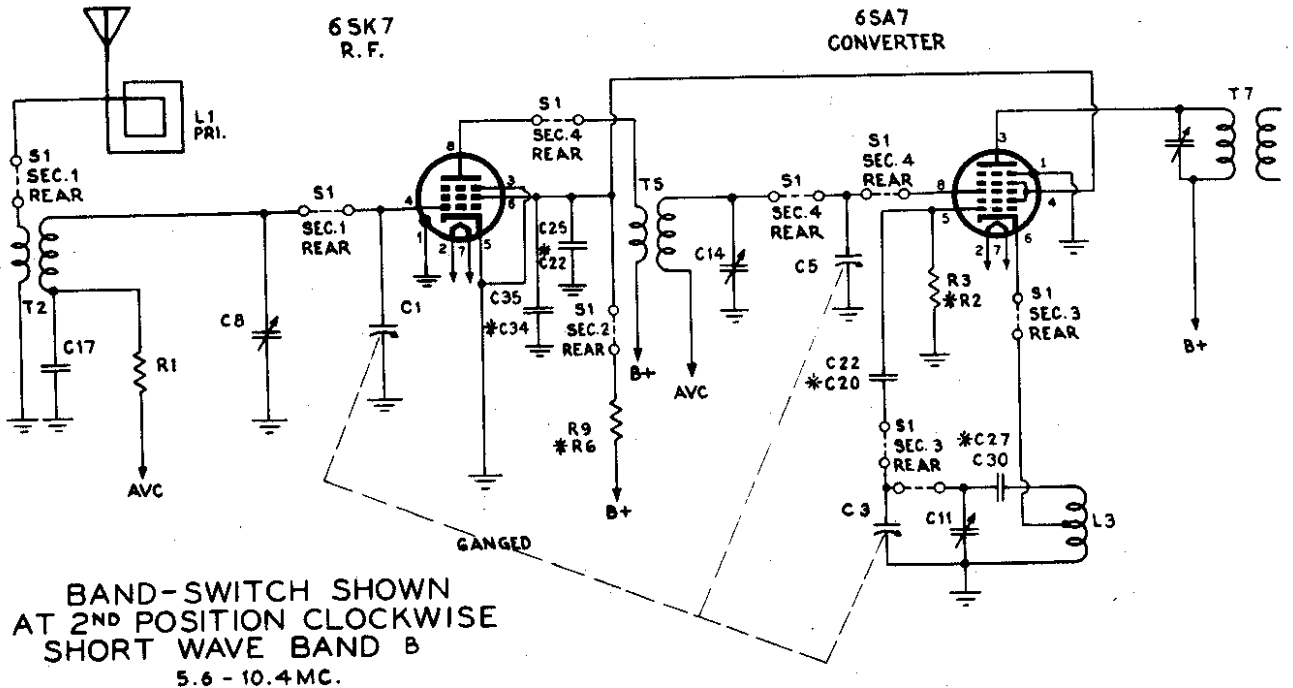
Volume Level Indicator 6U5/6G5

# "clarified schematics"

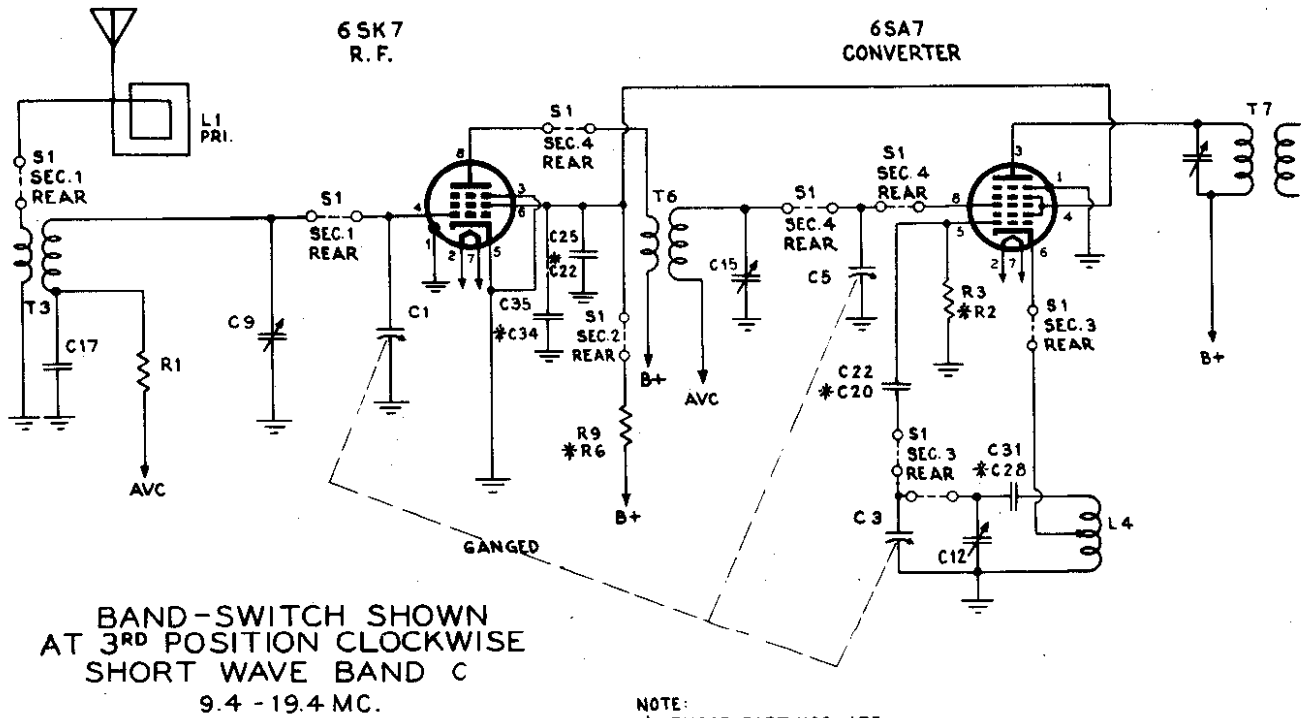
MODELS B503,  
B1000

HOFFMAN RADIO CORP.





NOTE:  
\* THOSE PART NOS. ARE  
USED IN MODEL B503



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