

Hoffman

RADIO CORP.

Models B503, B513, Chassis 115

TUNING RANGES:

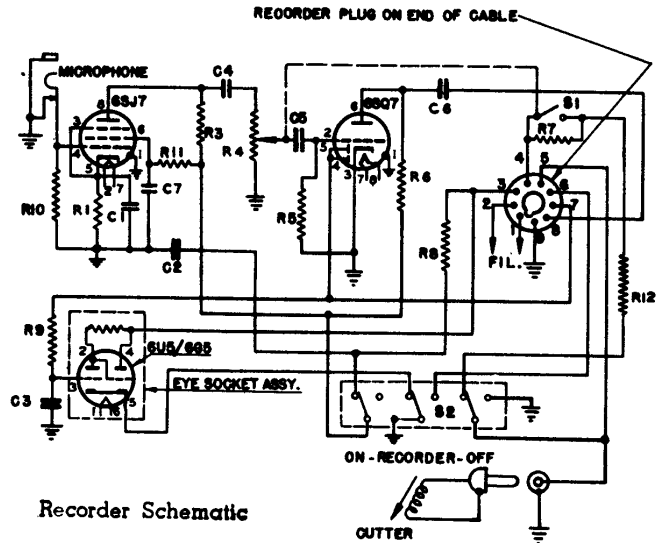
Band "A"	540 Kc to 1600 Kc.
Band "B"	5.6 MC to 10.4 Mc.
Band "C"	9.4 Mc to 19.4 Mc
Intermediate Frequency	455 Kc
Power Supply	115V. A.C., 50-60 C.P.S.

SYMBOL	DESCRIPTION	HOFFMAN No.	*LIST PRICE
C1-C2, C3-C4, C5-C6	Three-Section Variable with Split Stator (160-260, 160-260, 160-260 Mmf.)	4403	6.88
C7, C8, C9	Three-Section Trimmer Assembly	4300	.76
C10, C11, C12	Three-Section Trimmer Assembly	4300	.76
C13, C14, C15	Three-Section Trimmer Assembly	4300	.76
C16	110-560 Mmf., Padder, Band "A"	4301	.45
C17, C18, C19	.05 Mfd., 200 Volt, Tubular Paper	4100	.21
C20	500 Mmf., ± 5% Silver Mica	4004	.45
C21, C22	.47 Mmf., ± 10% Mica	4007	.22
C23, C24, C25	.05 Mfd., 400 Volt, Tubular Paper	4101	.23
C26	100 Mmf., ± 20% Mica	4000	.18
C27	1050 Mmf., ± 5% Mica	4005	.42
C28	2300 Mmf., ± 5% Mica	4006	.63
C29, C30, C31, C32	.005 Mfd., 600 Volt, Tubular Paper	4102	.21
C33, C34	10 Mfd., 450 Volt, Tubular Electrolytic	4203	1.24
C35, C36, C37	.01 Mfd., 400 Volt, Tubular Paper	4112	.19
C38	.5 Mfd., 200 Volt, Tubular Paper	4110	.19
C39, C40	.02 Mfd., 400 Volt, Tubular Paper	4106	.19
C41, C42, C43	20-20-20 Mfd., 450-450 25V. Electrolytic	4200	2.28
C44	.001 Mfd., 600 Volt, Tubular Paper	4104	.20
C45	.01 Mfd., 600 V. Tubular Paper, Metal Can.	4105	.37
C46, C47	.330 Mmf., ± 5% Mica	4010	.34
C48	.650 Mmf., ± 5% Mica	4011	.38
L1	Loop Antenna	55210	1.85
L2	Oscillator Coil (Band "A")	5215	1.08
L3, L4	Oscillator Coil (Bands "B" and "C")	5218	1.68
L5	Choke-Beam Boost	5103	3.80
L6	12" Loudspeaker (Electrodynamic)	9044	19.68
R1	1 Megohm ± 20% 1/2 Watt	4511	.05
R2, R3, R4	22,000 Ohm ± 20% 1/2 Watt	4501	.05
R5	2.2 Megohm ± 20% 1/2 Watt	4502	.05
R6	10,000 Ohm ± 10% 2 Watt	4503	.19
R7	10 Megohm ± 20% 1/2 Watt	4505	.05
R8	5 Megohm ± 20% 1/2 Watt	4544	.07
R9	.5 Megohm Potentiometer—Volume Control	4804	.80
R10, R11, R12	10 Megohm ± 20% 1/2 Watt	4500	.05
R13, R14, R15	1 Megohm ± 20% 1/2 Watt	4513	.05
R16	47,000 Ohm ± 20% 1 Watt	4516	.09
R17	47,000 Ohm ± 20% 1/2 Watt	4504	.05
R18, R19	2,200 Ohm ± 20% 1/2 Watt	4512	.05
R20	.25 Meg. Per. with Switch—Treble Control	4805	1.38
R21	50,000 Ohm Potentiometer—Bass Control	4806	.75
R22, R23, R24	.47 Megohm ± 20% 1/2 Watt	4506	.05
R25	220 Ohm ± 20% 3 Watt	4519	.29
R26, R27, R28, R29	47,000 Ohm ± 5% 1/2 Watt	4537	.11
R30	22,000 Ohm ± 5% 1/2 Watt	4538	.11
S1	Band Change Switch	6005	2.81
S2	Pushbutton Switch Assembly	6004	2.92
S3	On-Off Switch (on Treble Control)		
T1	Antenna Coil (Band "A")	5220	1.18
T2, T3	Antenna Coil (Bands "B" and "C")	5217	1.68
T4	R.F. Coil, Shielded (Band "A")	5216	1.45
T5, T6	R.F. Coil (Bands "B" and "C")	5219	1.68
T7	Input I.F. Transformer	5213	2.15
T8	Output I. F. Transformer	5214	1.93
T9	Power Transformer	5001	10.08
T10	Audio Output Transformer	5108	2.68
T11	Pushbutton Tuning Assembly	55200	4.40

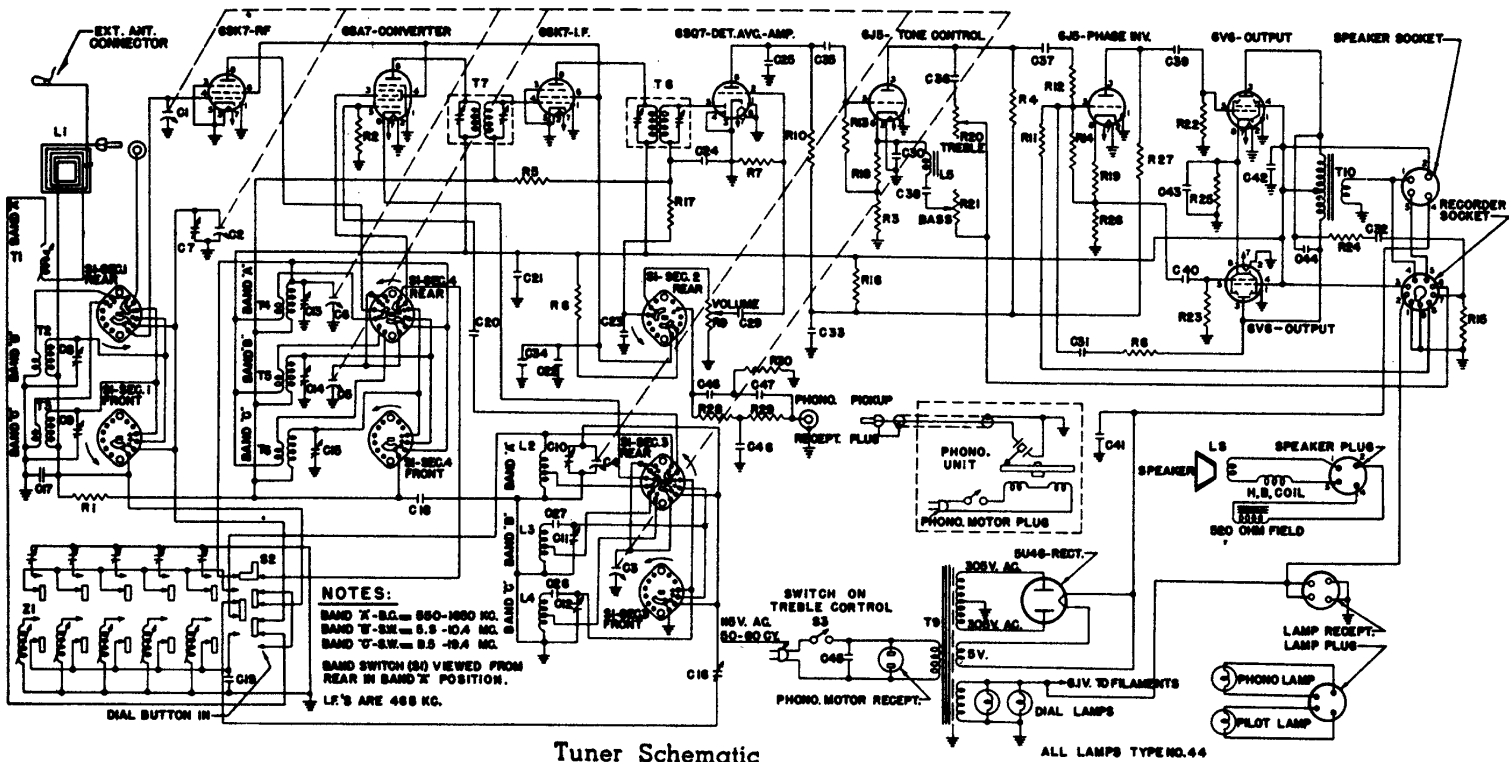
*Prices subject to change without notice.

Hoffman Models C503 and C513 are electrically identical with Models B503 and B513 respectively, except for the following:

1. Push-pull parallel 6K6's are used in the output stage instead of push-pull 6V6's.
2. An "Entertainment Panel" has been wired into the tuner chassis to provide microphone input, a speaker off-on switch, a pillow speaker plug, and an auxiliary phono input.
3. A resistance-capacity filter has been inserted in the B-plus line feeding the phase inverter stage (see R111 and C110, power supply schematic)
4. On the recorder amplifier the screen dropping resistor (R111) has been changed from .1 meg to 2.2 meg and the cathode resistor (R2) for this stage changed from 2200 ohms to 4700 ohms.



SYMBOL	DESCRIPTION	HOFFMAN NO.	*List Price
C1	25 Mfd.—25 Volt, Electrolytic	4205	.73
C2, C3, C4	10 Mfd. 450 Volt, Electrolytic	4208	1.24
C5	.01 Mfd. 400 Volt, Tubular Paper	4112	.19
C6	.005 Mfd., 600 Volt, Tubular Paper	4102	.21
C7	.02 Mfd., 400 Volt, Tubular Paper	4106	.19
R1	2200 Ohm ± 20% 1/2 Watt	4512	.05
R2	10,000 Ohm ± 20% 1/2 Watt	4515	.05
R3	.47 Megohm ± 20% 1 Watt	4506	.05
R4	.5 Megohm Potentiometer	4802	1.09
R5	10 Megohm ± 20% 1/2 Watt	4505	.05
R6	22 Megohm ± 20% 1/2 Watt	4500	.05
R7	1.0 Ohm ± 20% 1/2 Watt Wire Wound	4707	.13
R8	47,000 Ohm ± 20% 1 Watt	4516	.09
R9, R10	1.0 Megohm ± 20% 1/2 Watt	4513	.05
R11	.1 Megohm ± 20% 1/2 Watt	4511	.05
S1	Monitor on-off Switch (Part of R4)		
S2	Recorder On-off Switch	6003	1.45
R12	.5 Ohm ± 20% 1/2 Watt Wire Wound	4708	.06



Tuner Schematic

ALL LAMPS TYPE NO. 44