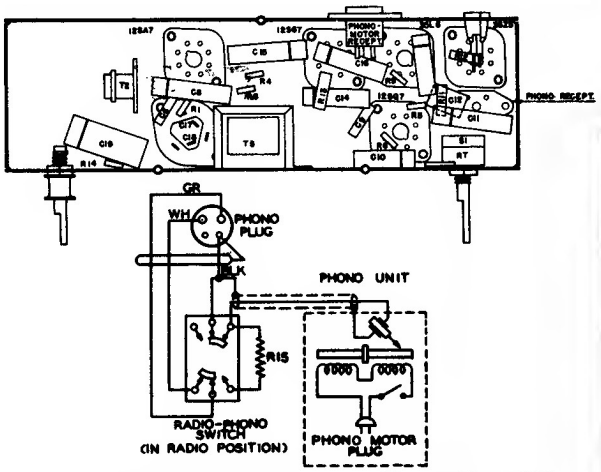
Hoffman RADIO CORP.

MODEL B400

CHASSIS 118

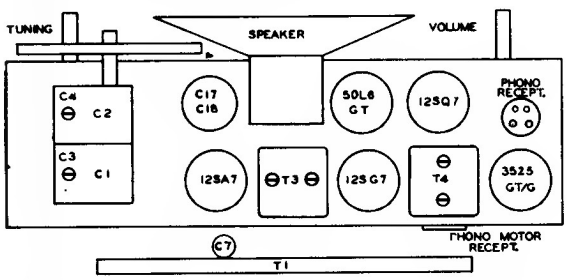


I. F. ALIGNMENT:

1. Connect output meter across speaker voice coil; set meter on 2.5 volt scale.
2. Connect output of signal generator directly to antenna post on loop; connect ground side of generator to chassis of receiver through .1 Mfd. condenser. Set signal generator on 455 Kc (modulated).
3. Adjust I.F. trimmers (first T4 and then T3) for maximum reading on output meter.

R.F. ALIGNMENT:

1. Set tuning condenser with plates completely out.
2. Set signal generator at 1650 Kc (modulated) and feed its output into a loop of wire about 6" in diameter. Place this loop about one foot away from and parallel to the receiver loop antenna.
3. Tune in signal by adjusting oscillator trimmer (C4).
4. Adjust output of signal generator to obtain deflection on lower half of meter scale.
5. Adjust oscillator trimmer (C4) for maximum output.
6. Set signal generator at 1400 Kc and tune in signal with tuning condenser.
7. Adjust antenna trimmer (C3) while rocking gang condenser for maximum reading on output meter. Feed only enough signal from generator to keep maximum reading on lower half of meter scale.



SYMBOL	DESCRIPTION	HOFFMAN No.
C1, C2	Two Section Variable (388-180 Mmf.)	4401
C3, C4	Trimmer: Part of Variable Cond.	
C6	100 Mmf. ±20% Mica	4000
C7, C10, C13	.005 Mfd. 600 Volt Tubular Paper	4102
C8, C11, C15	.05 Mfd. 200 Volt Tubular Paper	4100
C9, C12	270 Mmf. ±20% Mica	4001
C14	.02 Mfd. 400 Volt Tubular Paper	4106
C16	.05 Mfd. 400 Volt Tubular Paper	4101
C17, C18	Dry Electrolytic (50 30 Mfd. 150 V.)	4201
C19	.2 Mfd. 200 Volt Tubular Paper	4108
C20	.001 Mfd. 600 Volt Tubular Paper	4104
R1	22,000 Ohm ±20% ½Watt	4501
R4	2.2 Megohm ±20% ½Watt	4502
R5	47,000 Ohm ±20% ½Watt	4504
R6, R8	10 Megohm ±20% ½Watt	4505
R7	.5 Megohm Pot. with Switch (Vol.)	4002
R9	.22 Megohm ±20% ½Watt	4500
R10, R14, R15	.47 Megohm ±20% ½Watt	4506
R11	150 Ohm ±20% ½Watt	4510
R12	47 Ohm ±20% ½Watt	4508
R13	1500 Ohm ±20% 1 Watt	4552
S2	Phono-Radio-Tone Switch	6021
LS	PM Loudspeaker	9023
S1	On-Off Switch (on Vol. Control)	
T1	Antenna Loop	5255
T2	Oscillator	5208
T3	Input I.F. Transformer (455Kc.)	5205
T4	Output I.F. Transformer (455Kc.)	5206
T5	Audio Output Transformer	5117

PIN NO.	1	2	3	4	5	6	7	8
12SA7	0	24 A.C.	+85	+92	−5.5	0	11.5 A.C.	−.4
12SG7	0	22 A.C.	0	−.4	0	+92	36 A.C.	+86
12SQ7	0	−.8	0	0	−1.0	+60	0	9 A.C.
50L6	0	36 A.C.	+101	+93	+.2	0	87 A.C.	+7.5
35Z5	0	117 A.C.	114 A.C.	+112	114 A.C.	0	87 A.C.	+116

D.C. voltages measured with 20,000 ohm/volt meter.
A.C. voltages measured with 1,000 ohm/volt meter.
All voltages measured with reference to B−.

NOTE: The above readings are obtained with no signal input to the receiver, radio-phono switch in the RADIO position, and volume control full on.