

# Hoffman

RADIO CORP.

MODELS A202 & A309

CHASSIS 119

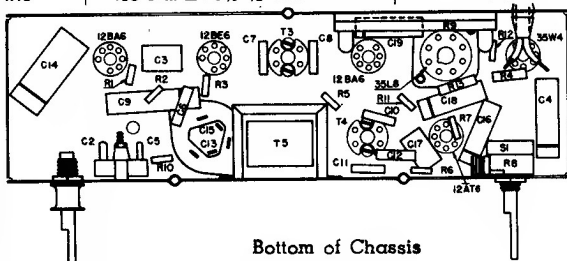
SYMBOL	DESCRIPTION	HOFFMAN No.
C1	.005 Mfd. 600 Volt Tubular Paper	4102
C2, C5	Dual Padder 280 Mmf. Por Section	4307
C3, C6	100 Mmf. $\pm$ 20% Mica	4000
C4	.05 Mfd. 400 Volt Tubular Paper	4101
C7, C8	100 Mmf. $\pm$ 10% Ceramic	4012
C9	.05 Mfd. 200 Volt Tubular Paper	4100
C10, C11	100 Mmf. $\pm$ 10% Ceramic	4012
C12	270 Mmf. $\pm$ 20% Mica	4001
C13, C15	Dry Electrolytic (30-50 Mfd./150 V)	4201
C14	.2 Mfd. 200 Volt Paper Tubular	4108
C16	.005 Mfd. 600 Volt Paper Tubular	4102
C17	270 Mmf. $\pm$ 20% Mica	4001
C18	.005 Mfd. 600 Volt Tubular Paper	4102
C19	.02 Mfd. 400 Volt Tubular Paper	4106
LS	5" PM Loudspeaker	9003
R1	2200 Ohm $\pm$ 20% 1/2 Watt	4512
R2, R6	47,000 Ohm $\pm$ 20% 1/2 Watt	4504
R3	22,000 Ohm $\pm$ 20% 1/2 Watt	4501
R4	47 Ohm $\pm$ 20% 1/2 Watt	4508
R5	2.2 Megohm $\pm$ 20% 1/2 Watt	4502
R7	10 Megohm $\pm$ 20% 1/2 Watt	4505
R8	.5 Megohm Pot. with Switch (Volume)	4802
R9	500 Ohm $\pm$ 10% 5 Watt	4700
R10, R12	.47 Megohm $\pm$ 20% 1/2 Watt	4506
R11	.22 Megohm $\pm$ 20% 1/2 Watt	4500
R13	150 Ohm $\pm$ 20% 1/2 Watt	4510

## I.F. ALIGNMENT:

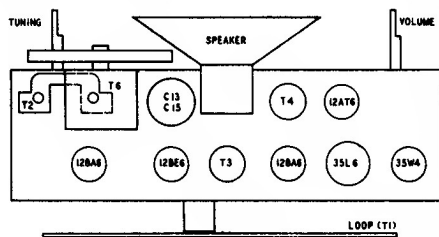
1. Connect output meter across speaker voice coil; set meter on 2.5 volt scale.
2. Connect output of signal generator directly to 12BE6 control grid; connect ground side of generator to chassis of receiver through .25 Mfd. condenser. Set signal generator on 455 Kc (modulated).
3. Adjust I.F. slugs (first T4 and then T3) for maximum reading on output meter.  
Note: Keep signal level low, just enough to keep maximum reading on lower half of meter scale. Tuning condenser plates should be all the way out; volume control should be on full. After adjustment, put a drop of wax on each I.F. tuning slug to hold it in place.

## R.F. ALIGNMENT: control slugs

1. Set receiver tuning control with all the way in.
2. Set signal generator on 540 Kc (modulated) and connect generator output to antenna post on receiver. The ground side of the generator should be connected to receiver B through a .25 Mfd. condenser.
3. Tune in signal by adjusting oscillator trimmer C5.
4. Adjust output of signal generator to obtain deflection on lower half of meter scale.
5. Adjust oscillator trimmer for maximum output.
6. Set signal generator on 1650 Kc and check signal with tuning condenser plates all the way out.
7. Set signal generator on 1470 Kc.
8. Tune in signal on receiver and adjust rf trimmer C2 for maximum reading on output meter. Feed only enough signal from the generator to keep maximum reading on lower half of meter scale.
9. Recheck at 600 Kc, 1000 Kc and 1410 Kc for tracking and readjust as required.



Bottom of Chassis



PIN NO.	1	2	3	4	5	6	7	8
12BA6(R.F.)	— .45	0.	25. A.C.	37.5 A.C.	+65.	+80.	0.	
12BE6	4.6*	0.	12.5 A.C.	25. A.C.	+80.	+80.	0.	
12BA6 (I.F.)	— .45	0.	37.5 A.C.	50. A.C.	+80.	+80.	0.	
12AT6	—1.5*	0.	0.	12.5 A.C.	0.	—15.	+37.5	
35L6	0.	85 A.C.	+75 D.C.	+80. D.C.	0.	0.	50. A.C.	+4.6
35W4	115 A.C.	0.	85. A.C.	115. A.C.	110. A.C.	110. A.C.	+110. D.C.	

D.C. voltages measured with 1000 ohm/volt meter  
A.C. voltages measured with 1000 ohm/volt meter  
All voltages measured with reference to B-

\* These readings taken with V. T.V. M.

NOTE: The above readings are obtained with no signal input to receiver.

