

HOFFMAN RADIO CORP.

MODELS A200, A302
Chas. 103

No alignment adjustments should be attempted without first thoroughly checking over all other possible causes of trouble such as defective tubes, resistors, and condensers. In order to align the receiver properly, remove the chassis from the cabinet and proceed as follows.

EQUIPMENT REQUIRED:

1. Signal Generator.
2. Output Meter with 2.5 Volt Scale.
3. 1 Mfd. Condenser.

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.

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.

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 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.

DIAL ADJUSTMENT:

To set the dial on calibration, pick up a station of known frequency near the center of the dial and move the pointer by hand as required.

Power Consumption 26 Watts
Undistorted Audio Output 1.0 Watt
Maximum Audio Output 1.5 Watts
Loudspeaker 5-inch round P.M.

MAY, 1946

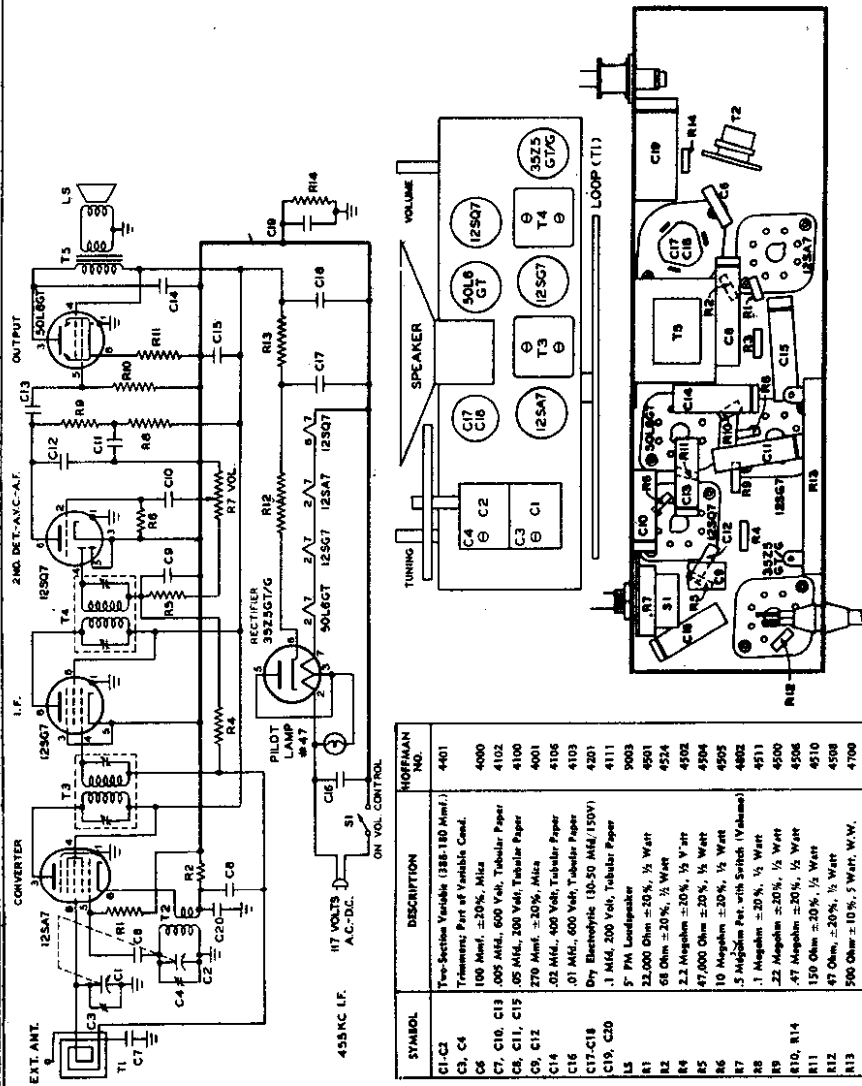


Fig. 2 Bottom of Chassis

NORMAL OPERATING CURRENTS
Cathode Current 57 Ma.
Control Current 33 Ma.

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

PIN NO.	1	2	3	4	5	6	7	8
12SA7		24.5AC	+87	+87	-7	0	12AC	-9
12SQ7		36AC	0	-9	0	+87	24AC	+87
12SQ7		-5	0	0	0	+62	0	12AC
50L6GT/G		87AC	+85	+87	0	+77 *	36AC	+53
35Z5GT/G		117AC	112AC	112AC	112AC	---	87AC	+117

* Means tie point
NOTE: The above readings are obtained with no signal input to receiver.

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.
Line voltage 117.5