

Hoffman

RADIO CORP.

MODEL B400

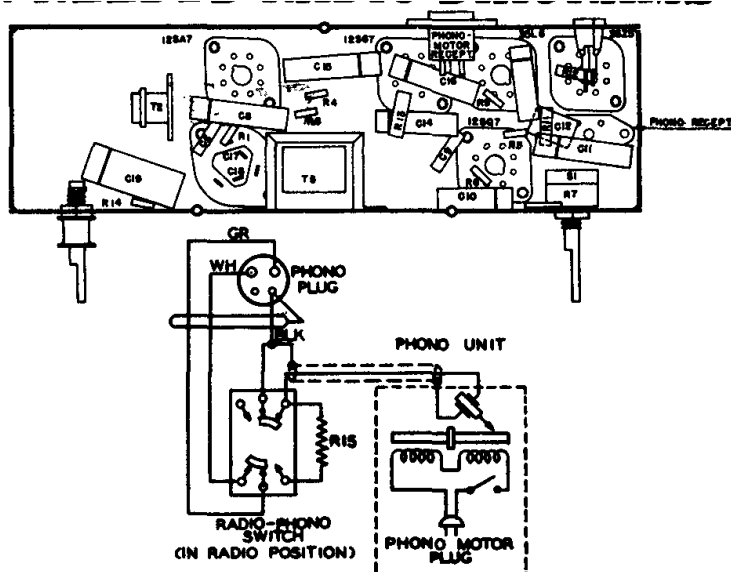
CHASSIS 118

I. F. ALIGNMENT:

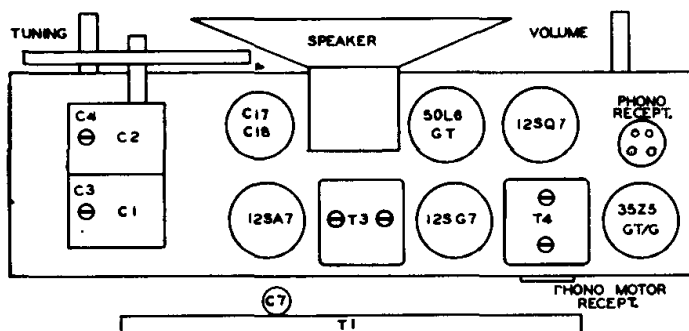
1. Connect output meter across speaker voice coil; set meter on 2.5 volt scale.
2. Connect output of signal generator directly to antenna post on loop; connect ground side of generator to chassis of receiver through .1 Mfd. condenser. Set signal generator on 455 Kc (modulated).
3. Adjust I.F. trimmers (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. $\pm 20\%$ 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. $\pm 20\%$ 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 $\pm 20\%$ $\frac{1}{2}$ Watt | 4501 |
| R4 | 2.2 Megohm $\pm 20\%$ $\frac{1}{2}$ Watt | 4502 |
| R5 | 47,000 Ohm $\pm 20\%$ $\frac{1}{2}$ Watt | 4504 |
| R6, R8 | 10 Megohm $\pm 20\%$ $\frac{1}{2}$ Watt | 4505 |
| R7 | .5 Megohm Pot. with Switch (Vol.) | 4002 |
| R9 | .22 Megohm $\pm 20\%$ $\frac{1}{2}$ Watt | 4500 |
| R10, R14, R15 | .47 Megohm $\pm 20\%$ $\frac{1}{2}$ Watt | 4506 |
| R11 | 150 Ohm $\pm 20\%$ $\frac{1}{2}$ Watt | 4510 |
| R12 | 47 Ohm $\pm 20\%$ $\frac{1}{2}$ Watt | 4508 |
| R13 | 1500 Ohm $\pm 20\%$ 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.

