

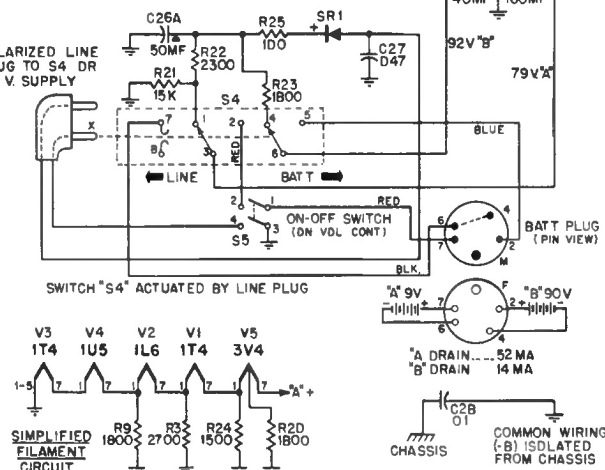
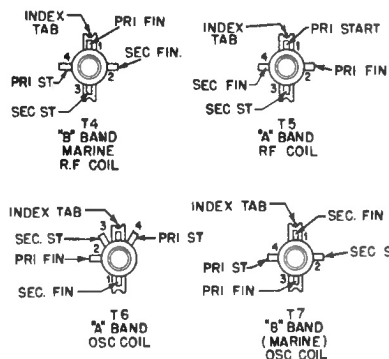
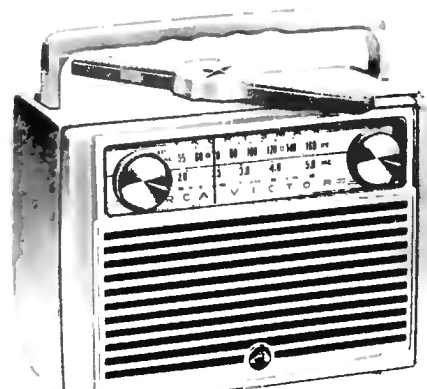
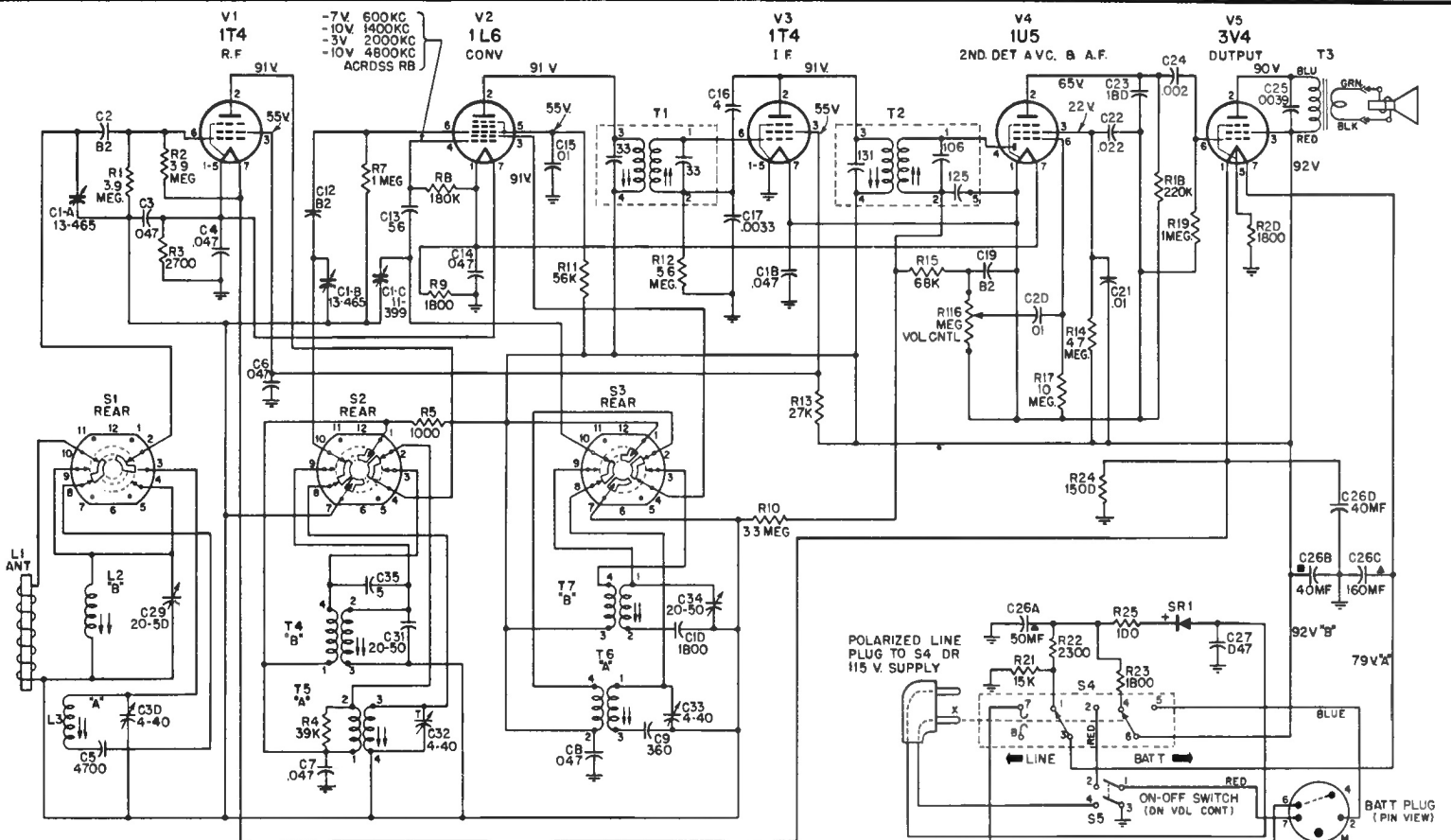


RCA Victor

AC-DC-Battery Portable Receiver

MODEL 7-BX-9H

Chassis No. RC-1163



VOLTAGES MEASURED TO COMMON WIRING (-B) WITH "VOLTOHMYST" AND SHOULD HOLD WITHIN $\pm 2\%$ WITH 115 V AC POWER SUPPLY

K=1000

ALL RESISTANCE VALUES IN OHMS ALL CAPACITANCE VALUES LESS THAN 10 IN MMF AND 10 AND ABOVE IN MMF EXCEPT THOSE INDICATED

REAR SECTIONS OF S1, S2 & S3 ARE VIEWED FROM FRONT POSITION #1 ----- "A" BAND WITH CONTROL SHAFT IN EXTREME C/CLOCKWISE POS. #1 POSITION #2 ----- "B" BAND

RCA Victor Model 7-BX-9H, Chassis RC-1163

| Step | Connect High Side of Sig. Gen. to — | Sig. Gen. Output | Dial Pointer Setting | Adjust for Max. Output |
|------|--|-------------------------|-----------------------------------|--|
| 1 | Disconnect loop—remove chassis—remove bottom cover. | | | |
| 2 | Pin #6 of 1T4 I.F. Amplifier thru .005 mf. | 455 kc | Quiet point near 1600 kc "A" Band | 2nd I.F. Trans. T2 Top & Bottom |
| 3 | Pin #6 of 1R5 Converter thru .005 mf. | | | 1st I.F. Trans. T1 Top & Bottom |
| 4 | Replace bottom cover and connect loop. Place loop in the same position in relation to chassis as when the receiver is fully assembled. | | | |
| 5 | Short wire placed near antenna for radiated signal | 1620 kc | gang fully open "A" Band | Osc. trimmer C33 |
| 6 | | 1400 kc | 1400 kc signal "A" Band | Ant. and R.F. trimmers C30 and C32 |
| 7 | | 600 kc | 600 kc signal "A" Band | T5 R.F. core and T6 Osc. core alternately while rocking gang |
| 8 | | Repeat Steps 5, 6 and 7 | | |
| 9 | | 5200 kc | gang fully open "B" Band | Osc. trimmer C34 |
| 10 | | 4800 kc | 4800 kc signal "B" Band | Ant. and R.F. trimmers C29 and C31 |
| 11 | | 2000 kc | 2000 kc signal "B" Band | T4 R.F. core and T7 Osc. core alternately while rocking gang |
| 12 | Repeat Steps 9, 10 and 11 | | | |
| 13 | Reassemble chassis and antenna in cabinet. Check adjustment of C29 ("B" Ant.) at 4800 kc and C30 ("A" Ant.) at 1400 kc. | | | |

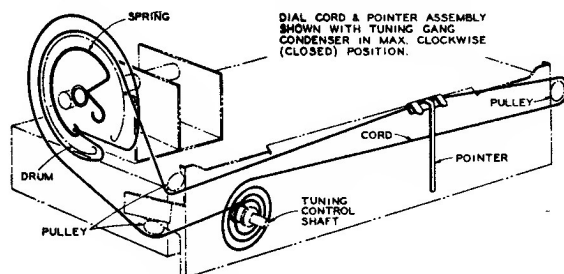
Alignment Procedure

Test Oscillator—For all alignment operations, connect the low side of the test oscillator to the receiver chassis and keep the oscillator output as low as possible to avoid AVC action.

Battery operation of the receiver is preferable during alignment; on AC operation an isolation transformer (117v./117v.) may be necessary if the test oscillator is also AC operated.

Critical Lead Dress

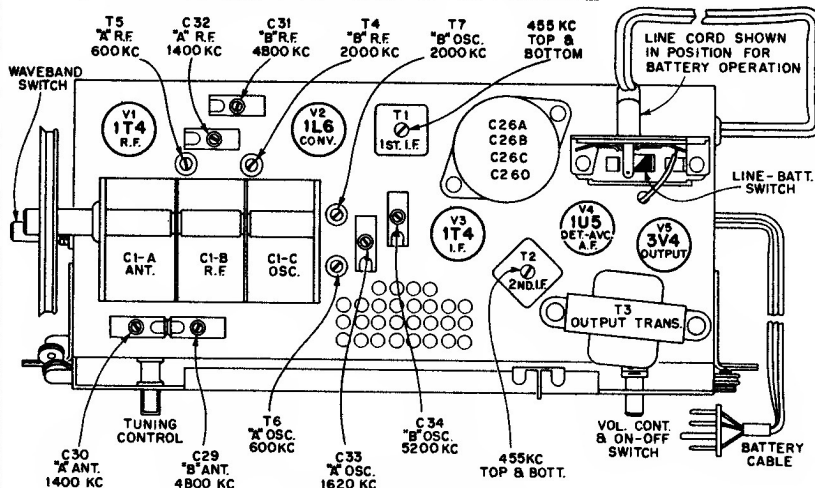
1. Dress all filament leads next to chassis.
2. Use short pigtail leads on components to V1, Pin 6.
3. Dress gang leads direct to avoid excess lead length.
4. Dress capacitor C17 across V3 socket to act as shield for C21.
5. Dress capacitors C3, C4 and C6 down to base between V1 socket and V2 socket, use short leads.
6. Use short pigtail lead on C16 to V3-2 and dress away from Pin 6.
7. Dress capacitor C24 down to base.
8. Twist loop antenna leads and dress into slots provided in cabinet—allow sufficient slack to permit rotation of antenna.
9. The "A" band series ant. coil (L3) and "B" band shunt ant. coil (L2) should be dressed away from chassis.



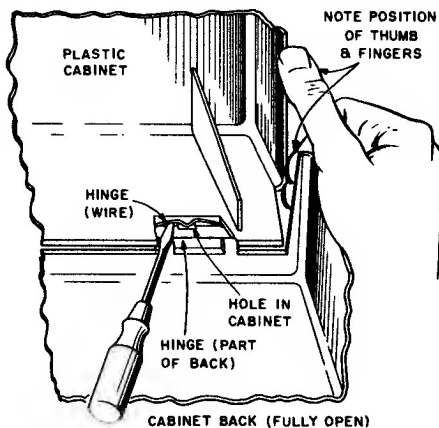
Dial-Indicator and Drive Mechanism

Chassis Removal

1. Remove control knobs (pull off).
2. Unsolder the two loop antenna leads.
3. Pull out battery and disconnect battery plug.
4. Remove the four chassis mounting screws, two at front sides and two at top rear.



Tube and Trimmer Locations



Removal of Cabinet Back