

ZENITH RADIO Chassis 7CT40Z1 & 7CT40Z2, Model "Royal 275"

(Additional service material on page 180, over)

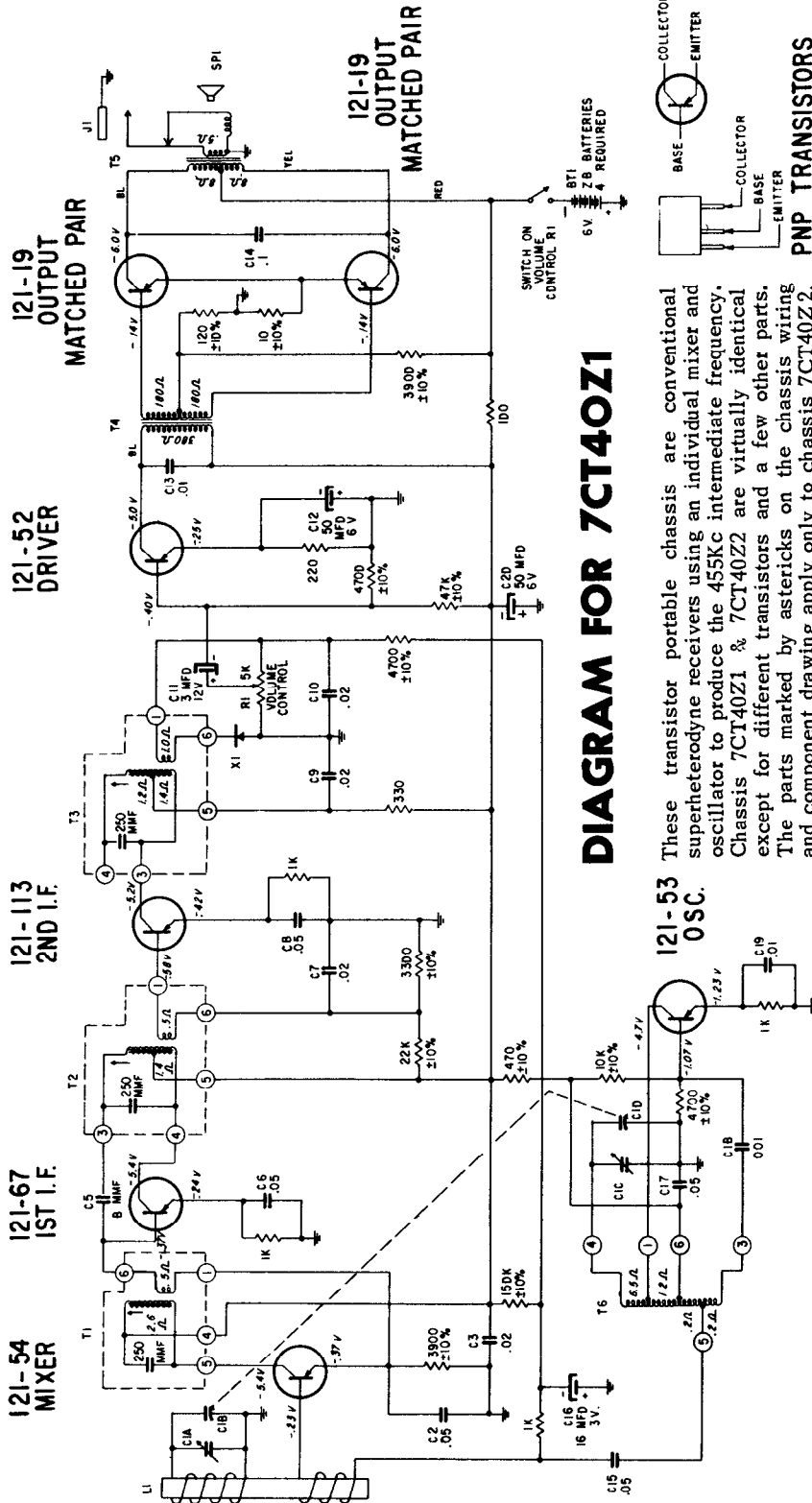
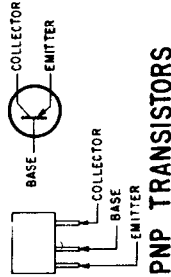


DIAGRAM FOR 7CT40Z1

These transistor portable chassis are conventional superheterodyne receivers using an individual mixer and oscillator to produce the 455Kc intermediate frequency. Chassis 7CT40Z1 & 7CT40Z2 are virtually identical except for different transistors and a few other parts. The parts marked by asterisks on the chassis wiring and component drawing apply only to chassis 7CT40Z2.



ALIGNMENT PROCEDURE

| Operation | Input Signal Frequency | Connect Inner Conductor From Oscillator To | Connect Outer Shield Conductor From Oscillator To | Set Dial At     | Trimmers                            | Purpose                       |
|-----------|------------------------|--|---|-----------------|-------------------------------------|-------------------------------|
| 1         | 455 KC                 | ONE TURN LOOSELY COUPLED TO WAVEMAGNET     | Chassis   | 600 KC          | Adj. T1, T2, T3 for maximum output. | For I.F. Alignment            |
| 2         | 1620 KC                |  |   | Gang wide open. | C1C                                 | Set Oscillator to dial scale. |
| 3         | 535 KC                 |  |   | Gang Closed     | Adjust slug in T6                   | Set Oscillator to dial scale. |
| 4         | REPEAT STEPS 2 & 3     |  |   |                 |                                     |                               |
| 5         | 1260 KC                |  |   | 1260 KC         | C1A                                 | Align loop ant.               |

NOTES:  
 ALL RESISTORS ARE 5% TOLERANCE, CARBON, 1/2 WATT UNLESS OTHERWISE SPECIFIED.  
 ALL VOLTAGES ARE D.C. UNLESS OTHERWISE SPECIFIED.  
 ALL CAPACITORS ARE IN MICROFARADS UNLESS OTHERWISE SPECIFIED.  
 D.C. VOLTAGES SHOWN ARE MEASURED FROM CHASSIS WITH NO SIGNAL USING AN A.C.-D.C. OR VACUUM TUBE VOLTMETER.

⚡ DENOTES CHASSIS

