



SERVICE MANUAL

MODEL "ROYAL 1000"

ALL TRANSISTOR TRANSOCEANIC

PORTABLE RECEIVER

CHASSIS 9CT40Z2

To the Serviceman

The transistor portable chassis is a conventional super-heterodyne receiver using an individual mixer and oscillator to produce the 455 Kc. intermediate frequency. The intermediate frequency amplifiers are conventional. It is necessary to use neutralization in the I.F. amplifier stages as is done when using a triode tube. The 100-22 diode is used as a detector and AVC voltage source. This diode is part of I.F. Transformer T4. This is then followed by a first audio amplifier and a driver stage for the class B push pull output. The 121-47 output transistors are a matched pair and will be coded with point dots, red, white, yellow and green. Should one transistor fail it must be replaced with another 121-47 transistor with corresponding color. Do not use 121-47 transistors in pairs unless their color codes are identical.

The iron core stage of the R.F. mixer and oscillator coils have bushings through their centers. This will enable the technician to raise the top slug then drop alignment screw No. 68-12 down through the slug to adjust the slug in the lower coil.

Power Supply — Eight Zenith Z201, 1½ volt or Standard Flashlight Batteries used 12 volts D.C. Approximate battery life 300 hours. One Zenith Z201, 1½ volt or Standard Flashlight Battery for the dial light.

Frequency Range:	
540 to 1600 Kc	11.4 to 12.5 Mc
2 to 4 Mc	14.6 to 15.8 Mc
4 to 9 Mc	17.1 to 18.5 Mc
9.4 to 10.1 Mc	20.7 to 22.0 Mc

Intermediate Frequency: 455 Kc
Power Output Unmodulated: 500 milliwatts
Speakers: 4 inch P.M.
Audio V. Voice Coil Impedance — 3.2 ohms @ 1000 cycles
Accessory Earphone 30-22 Impedance 15 ohms @ 1000 cycles

NECESSARY TEST ASSUMPTIONS

When making resistance measurements in the circuit, it is most important to remove the transistors in the circuit under test otherwise readings obtained will be incorrect. This is the direct result of a transistor acting as a diode.

When making measurements across an electrolytic capacitor, be certain the ohm meter leads are correctly polarized. Also be certain the battery voltage of the meter does not exceed the working voltage of the capacitor. Otherwise damage to the capacitor may result.

VOLTAGE READINGS

It is suggested that a VTVM with an excellent low range scale be used to measure all circuit voltages. All voltages indicated on the accompanying diagrams have been measured under no signal conditions and a custom battery supply voltage of 12.0 volts. Under these no signal conditions, a check can be made of the batteries. With carbon batteries, the total voltage should be 12.0 volts.

COMPONENT REPLACEMENT

When soldering components at the base of the transistor socket, it is suggested that the transistor be removed to avoid any possibility of excessive heat being transferred through the socket to the transistor. When soldering the low voltage electrolytic and germanium diodes, it is suggested that the wire be held with a pair of long nose pliers while soldering. The long nose pliers will act as a heat sink.

TRANSISTORS

At the present time we do not have of any satisfactory commercially available transistor tester.

Zenith Cl007 Manual

RM Cervero



Zenith Cl007 Manual:

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