Wireless for the Warrior - Volume 4

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MRK-1

Country of origin: Hungary

Though not directly within the scope of Supplement Volume 4 was the MRK-1 VHF DF receiver. Considering as being used in the GDR by MfS, it was included in this Supplement.

DATA SUMMARY

Organisation: Security and probably Search & Rescue organisations of Warsaw Pact countries.

Design/Manufacturer: M.L., Budapest, Hungary.

Year of Introduction: 1980.

Purpose: Direction finder for locating emergency beacons

of downed pilots.

Receiver:

Circuit features: Dual conversion crystal controlled superheterodyne with special features including accurate direction of an emergency transmitter at very close distance. IF: 10.7 and 0.455MHz. AM.

Frequency: 121.5MHz. International VHF aircraft

emergency frequency.

Power Supply: 9.4V sealed battery.

Size (cm): Height 41/4, Length 291/2, Width 10.

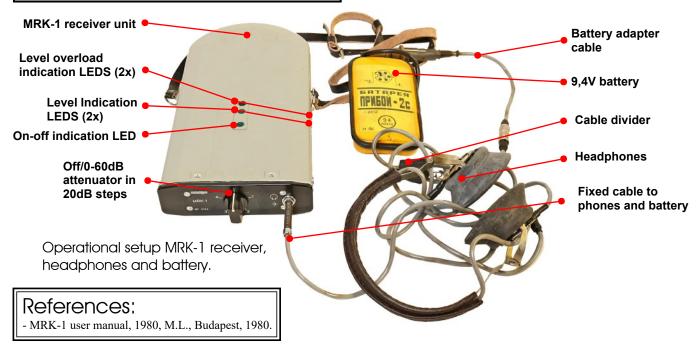
Weight (kg): 1.3.

Accessories: Battery, headphones, transport case.

MRK-1 was a portable fully transistorised, self contained and waterproof direction finder receiver operating on the 121.5MHz aircraft emergency frequency. It could therefore not only locate downed pilots from your own side, but also enemy pilots in possession of a VHF emergency beacon/transmitter-receiver. The MRK-1 receiver had a built-in loop aerial, the strength of the incoming signal (indication of direction and null) was indicated by the an audible signal level of a 1000Hz tone in the headphones. LEDS showing the visual level of the signal and overload indication were both on top and on the side of the receiver.

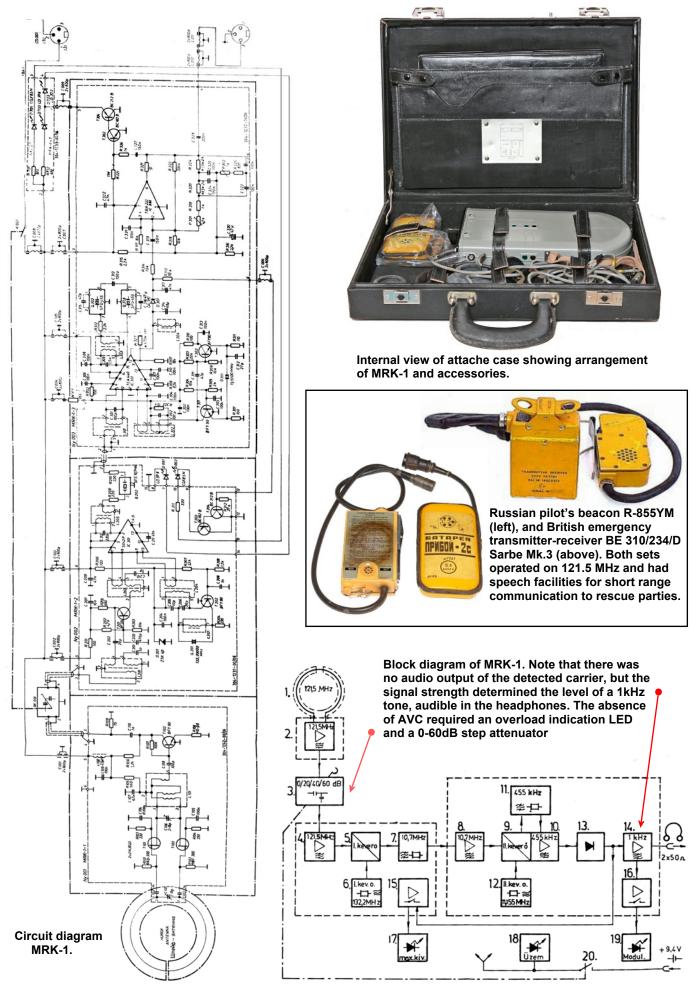
The receiver was powered by a 9.4V battery, which could be a type which was normally issued with a Russian R-855YM pilot's emergency transmitter (see next page). This battery was connected to the MRK-1 via an adapter cable, allowing the use of other types of batteries. The main reason for the choice of using an external battery was that it could be worn on the body, protecting it from being frozen in extreme low temperatures.

The MRK-1 and accessories were developed and produced by Mechanicai Laboratórium in Hungary.



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