

ROD Wz. OP 1
(ROD Model OP1)
Country of origin: Poland

DATA SUMMARY

Organisation: Polish Army.
Design/Manufacturer: PWL / PZTiR
Year of Introduction: 1930.
Purpose: Separate receiver for an RKD station.
Circuit features: Aperiodic RF 2x, regenerative detector, AF 2x.
Frequency coverage: 460-1200kHz.
Range: On the march - 40 km (CW), 5 km (AM). At the halt with 5,2 m (3 + 2,2 m) antenna - 70 km (CW), 10 km (AM).
Valves: A415 (5x); alternative A409.
Power Supply: 4V LT accumulator and 60V HT battery.
Dimensions (cm): Height length width
 Receiver: 17 27 35
 Battery pack: 41 17 30
 Weight of an operational set 18 kg. Complete station 49kg.

REMARKS

ROD Wz. OP1* was a portable stand alone battery powered wireless receiver, part of a RKD station (Chapter 307). In addition it was also used as separate receiver at regiments and divisions level for one way communication. It was designed to maintain continuous listening at the halt and on the march. The aerial wire was a wire fed into a hollow bamboo pole.

The ROD Wz. OP1 was designed and manufactured by Panstwowa Wytownia Laczności (PWL) in Warsaw from 1930 until 1932, later by Panstwowe Zakłady Radio- i Teletechniczne (PZT or PZTiR in short). Recorded is the production of 150 units.

The complete receiver was carried by one soldier - the actual receiver in a special canvas bag on the chest, and the batteries in wooden box on the back. The bamboo aerial pole was attached to the chest of the radio operator. There were 2 bamboo aerials in the station: 3m in length for receiving on the move in a vehicle, and 2.2m when listening out on the march. On the halt the two bamboo poles could be put together.

* (ROD Wz OP1; Radiostacja Odbiorcza Dywizji = Receiving Radio station for Division; Wz. = Wzór = Model)



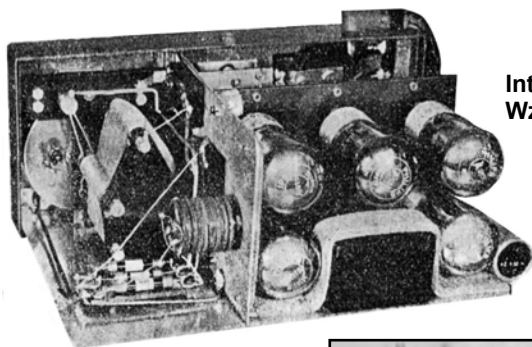
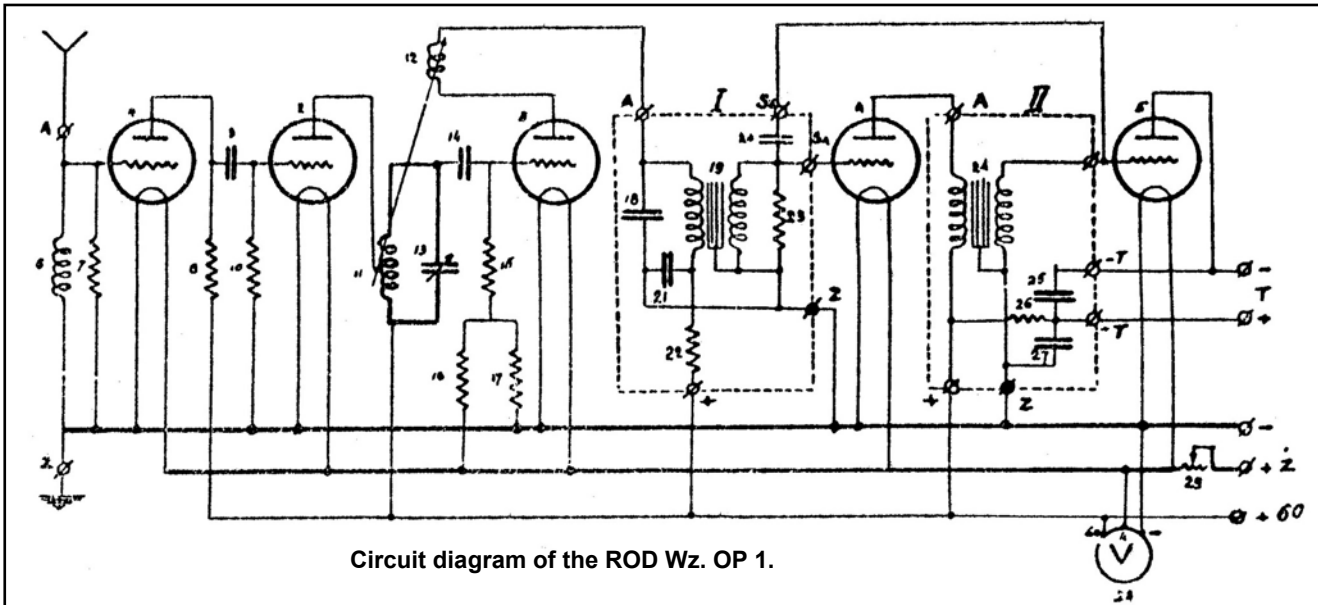
Listening on a ROD Wz. OP1 receiver whilst on the move, the operator sitting on the rear limber of a RKD station (above).



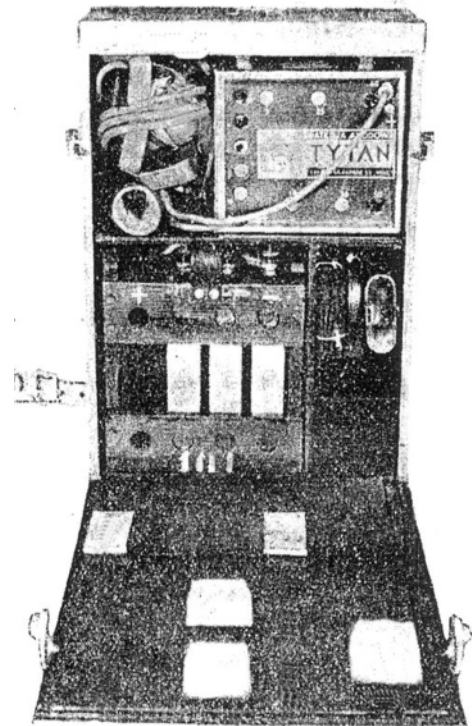
Listening on the march (right).



Monitoring the assigned frequency during a short halt on a ROD Wz. OP1 receiver (left)/

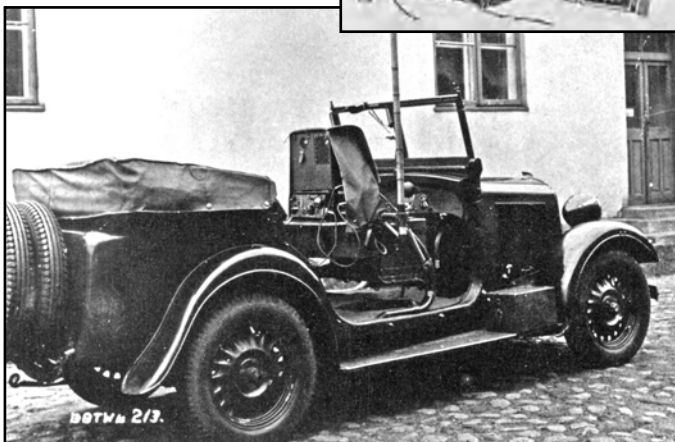


Internal view of the ROD Wz. OP 1 receiver (left).



ROD Wz. OP1 battery pack in a wooden box comprising 3 accumulators, a 60 dry HT battery, and compartments for storage of headphones and spares.

Complete ROD Wz. OP1 station with transit case (right).



ROD receiver installed in a Polish Fiat 508 III. Note the ubiquitous bamboo pole aerial mast. The ROD was also part of a RKD station fitted in a CWS M 111 motor cycle with side car (See Chapter 309-2).

References:

- With thanks to Bogdan Szkudlarek, SP3LD, for scans of the ROD user manual.
- Roman Buja, Poland kindly granted publishing photographs and translation of detailed information taken from his book 'Radiostacje Polowe'.
- Instrukcja o sprzecie łączności, Czesc II, Radiostacja Odbiorcza Dywizji (R.O.D.), Wzor O.P.1., Warszawa, 1937.
- Radiostacje Polowe, Roman Buja, ISBN 978 83 7769 588 3, Edipresse, Warsaw 2014.