



Töpö
Country of origin:
Finland

It should be noted that several minor corrections to the original 'Töpö' section of WftW Volume 4 were made in this Supplement chapter.

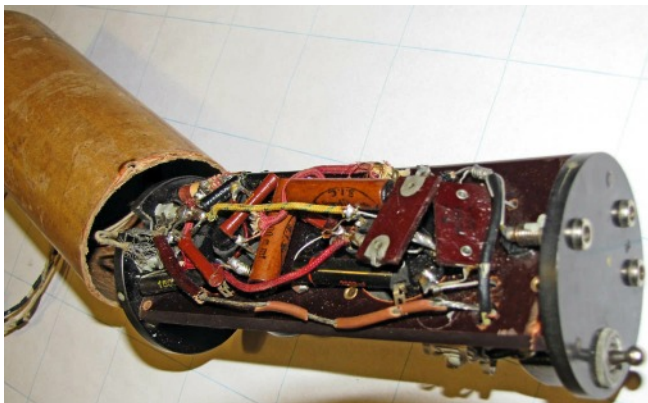
DATA SUMMARY

Organisation: Military Intelligence.
Manufacturer: Finnish Army Depot Company, Munnkiniemi (near Helsinki).
Year of Introduction: Mid 1941.
Purpose: Receiver for long-range patrols.
Receiver:
Circuit Features: RF, detector with reaction control, AF output. (high impedance headphones)
Frequency Coverage: Fixed tuned to the Finnish long wave broadcasting station Lahti on 166kHz.
Valves: DF11, DDD11.
Power Supply: 1.5VLT and 90-120V HT battery.
Size (cm): Diameter 7, Length 18.
Weight: 0.6kg, including batteries.
Accessories: Headphones, batteries, aerial wire.

REMARKS

Töpö was an interim receiver issued to Finnish long-range Army patrols for reception of coded messages at pre-arranged times transmitted by the Finnish long-wave broadcasting station Lahti. It was used at least until late 1941 when the Kyynel M7 short-wave receiver became available.
 The receiver was enclosed in a small (7cm diameter) impregnated cardboard container. The batteries were carried separately, probably on the body to keep them safe from freezing.

This Supplement chapter is a follow up and should be read in conjunction with the 'Töpö' section in the 'Finland' chapter of WftW Volume 4 for more detailed information.



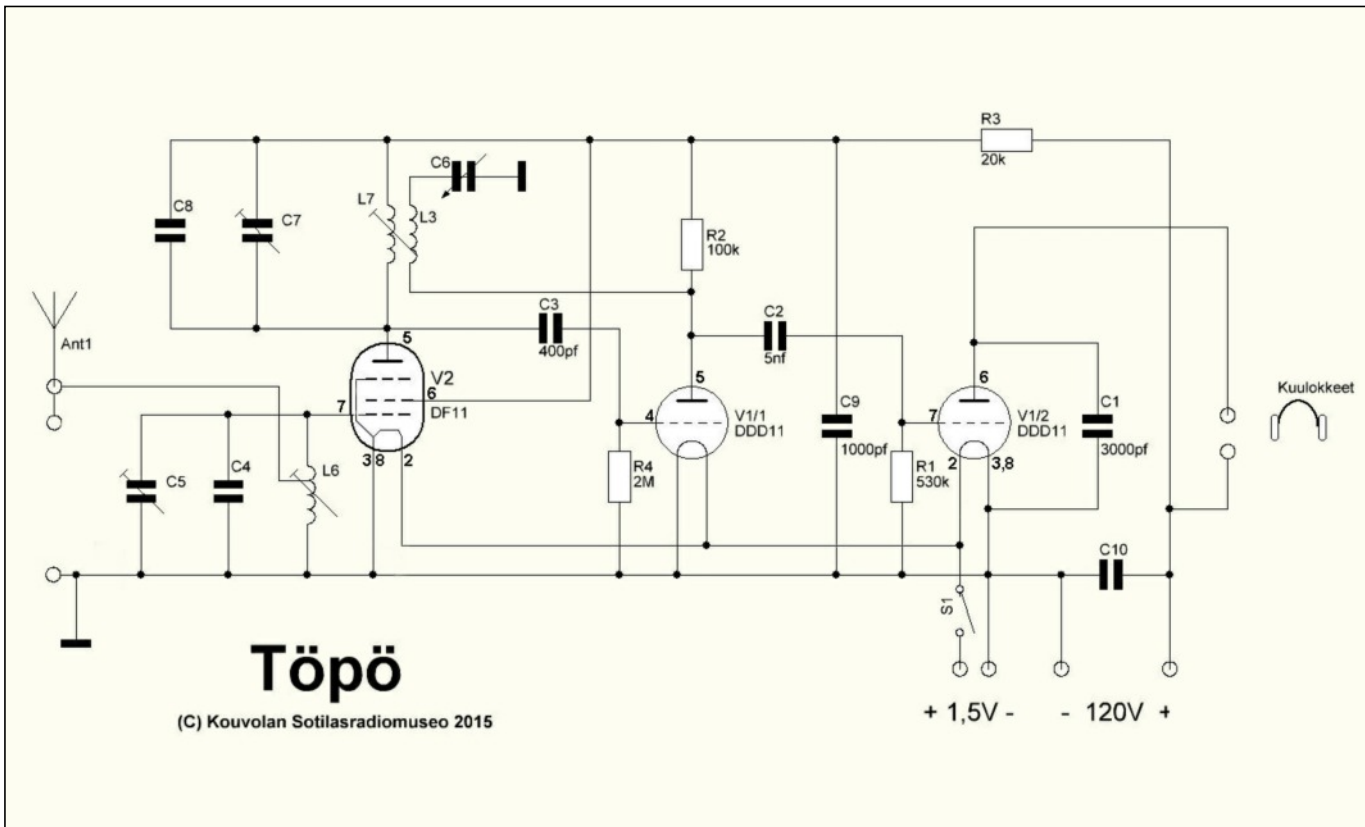
Bottom view of opened Töpö receiver showing the very adequate and lightweight construction.



Top view of opened Töpö: from left to right: reaction control, DDD11 double triode metal valve (detector and AF stage), detector coil in dust iron core, pre-set trimmer detector coil, DF11 metal valve (RF stage), and aerial coil.

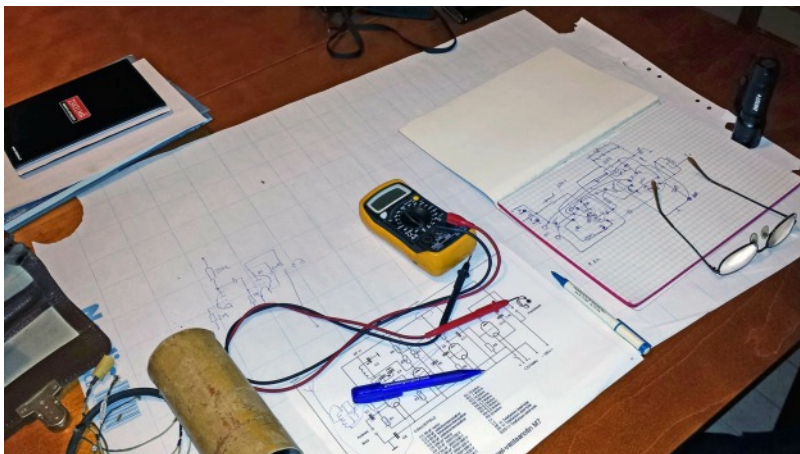
References:

- Photos and circuit diagram (from the only surviving Töpö kept in the Kouvola Sotilasradiomuseo) courtesy Kari Syrjänen, OH5YW, Finland.
- Kouvola Sotilasradiomuseo, Kouvola, Finland.



Circuit diagram of Töpö receiver reconstructed and drawn by Kari Syrjänen.

Close up view of bottom showing the fragile and brittle state of the original wiring. (right)



Special permission was granted to Kari Syrjänen by a Finnish museum (Kouvolan Sotilasradiomuseo) to open the only existing Töpö receiver, in order to investigate its mechanical design and reconstructing a circuit diagram. (above)