

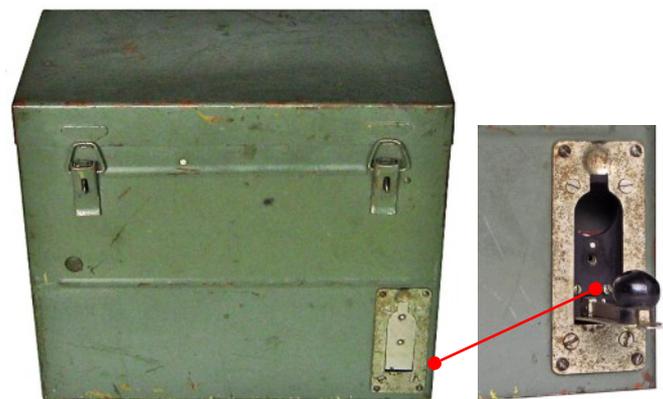
Granit Country of origin: Russia

DATA SUMMARY

Organisation: Navy Marines, Russia.
Manufacturer: Possibly Factory No. 22 in Nikolaev, Ukraine.
Year of Introduction: 1961.
Purpose: Special Forces (Specnaz/reconnaissance Marines) training set.
Receiver:
Circuit features: RF, mixer/oscillator, IF stage (2x), detector/AF, AF output, BFO. AM R/T and CW.
Frequency coverage: 3.5-4MHz.
Intermediate Frequency: 465kHz.
Valves: Miniature B7G types.
Transmitter:
Circuit features: LO, buffer/driver, RF PA. AM R/T and CW.
Frequency coverage: 3.5-4MHz.
RF output: 0.1W.
Valves: Miniature B7G types.
Power Supply: 60V HT battery (2x), 1.5V LT battery. External AC Mains power unit which could be placed in the battery compartment.
Size (cm): Height 28, Length 17, Width 25.
Weight (kg): 11.
Accessories: Headphones, microphone, Kulikow aerial and optional AC mains power unit.

REMARKS

‘Granit’ was a training radio set of the Specnaz Marines (other sources mention also Marines reconnaissance units). It was believed to be developed and made in 1960/61 by Zavod (factory) No. 22 in Nikoleav, Ukraine. A later modified version was known as Granit-M. The Granit was fitted in a metal case, completely self contained with internally carried batteries and accessories stowed in a separate compartment. The electrical design of the Granit was rather conservative for a small training set when looking at the number of valves. The set was primary intended for operating on dry batteries, but an optional AC mains operated power unit could be fitted in the place taken by the batteries.



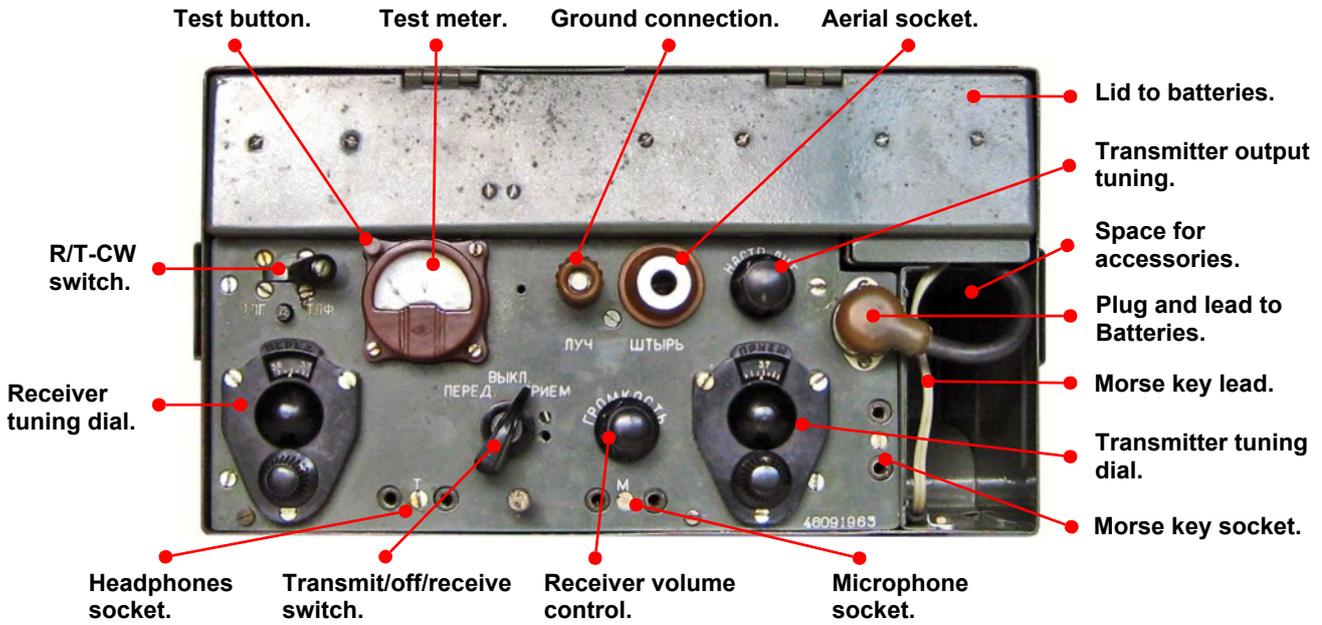
A folded Morse key was located at the side of the metal case.



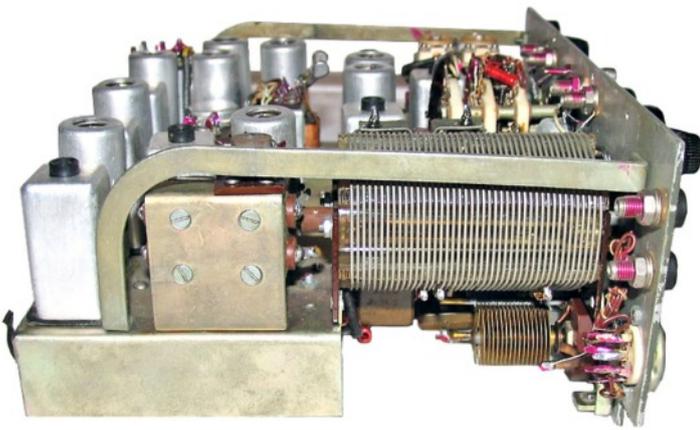
AC mains power unit.

References:

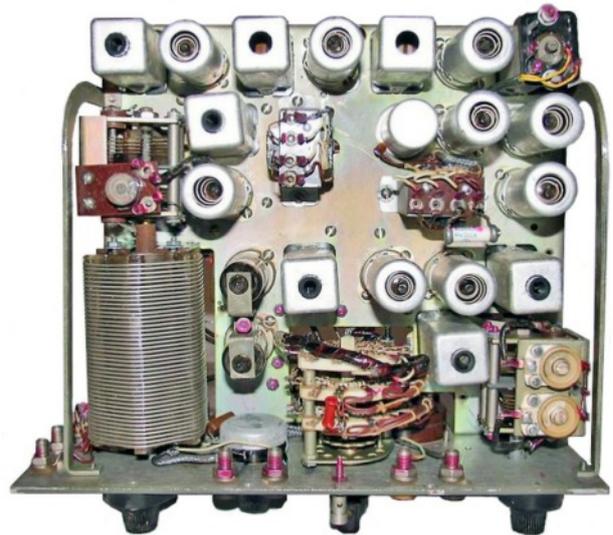
- Photographs, scans of the circuit diagrams, detailed information and further support courtesy Roman Buja, Poland.
- Photographs of power unit and chassis views were taken by Igor Bobel, USA and Sergey Gridč'in, Russia. Website: USSR Military and home radios <http://oldradio.cqham.ru/>



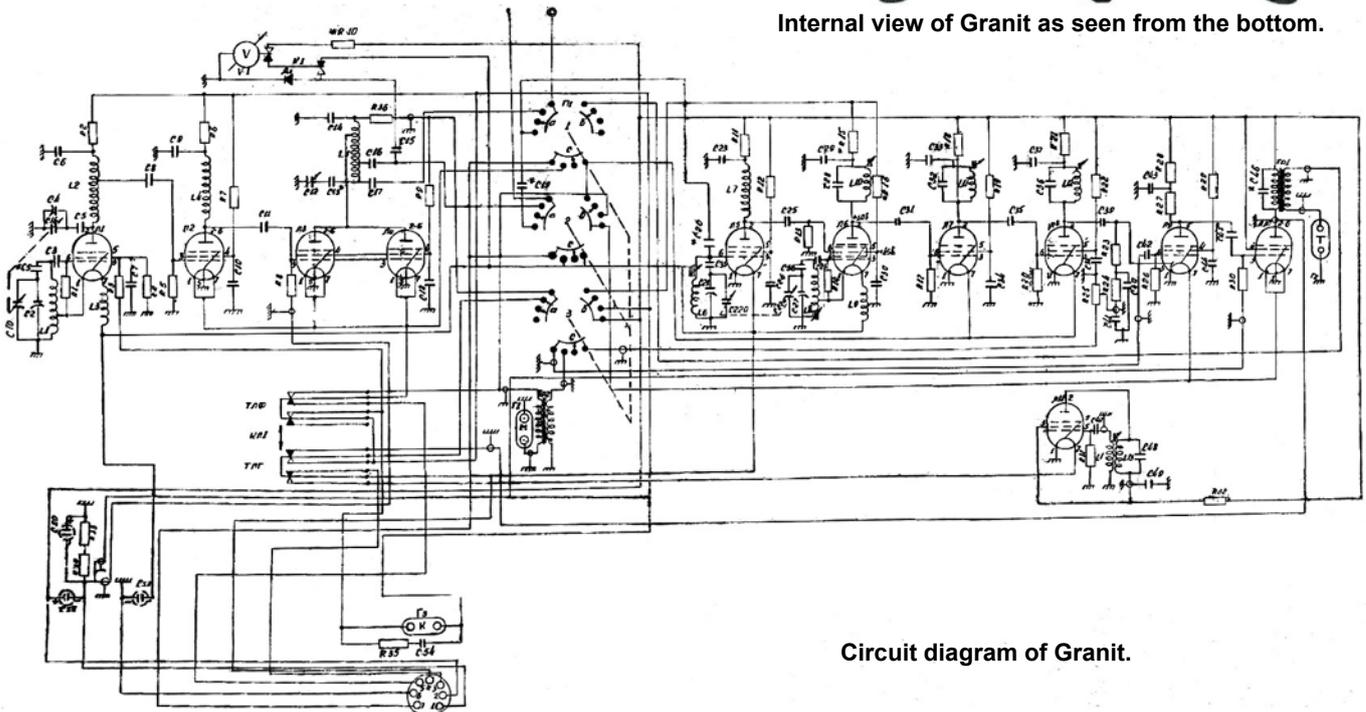
Layout front panel and functions of controls.



Side view of chassis showing transmitter section.



Internal view of Granit as seen from the bottom.



Circuit diagram of Granit.