



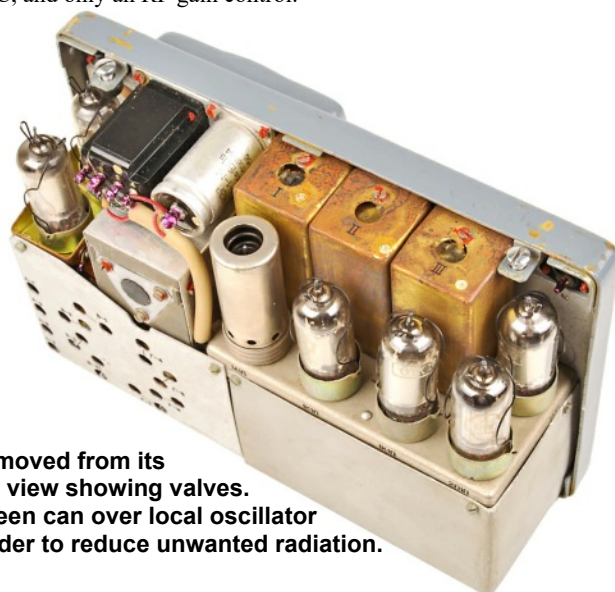
PR-56A Ver 2.02
Country of origin: Russia

DATA SUMMARY

Organisation: Former Soviet Union.
Year of Introduction: 1956.
Purpose: Agents, possibly special forces.
Receiver:
Circuit features: RF, mixer, oscillator, IF stage (2x), detector/AF, AF output, BFO. AM R/T and CW.
Frequency coverage: 2-12 MHz in 4 ranges: 2-3.2MHz, 3.2-5MHz, 5-8MHz and 8-12MHz.
Valves: 1K1P (1K1П) 3x, 2P1P (2П1П) 2x, 1A1P (1A1П) 2x
Power Supply: 80V HT, 1.5V LT (2 batteries connected in parallel).
Size (cm): Height 8, length 13, width 20.
Accessories: TA-4 headphones, aerial lead.

REMARKS

The PR-56A (Russian IIR-56A) was a miniature dry battery-powered short wave receiver. Used as a stand-alone receiver fitted in a suitcase, it was also part of the Rion R-57 suitcase set (see Chapter 154). The receiver was principally designed for CW reception, had no AVC, and only an RF gain control.



PR-56A removed from its cover. Top view showing valves. Note a screen can over local oscillator valve in order to reduce unwanted radiation.

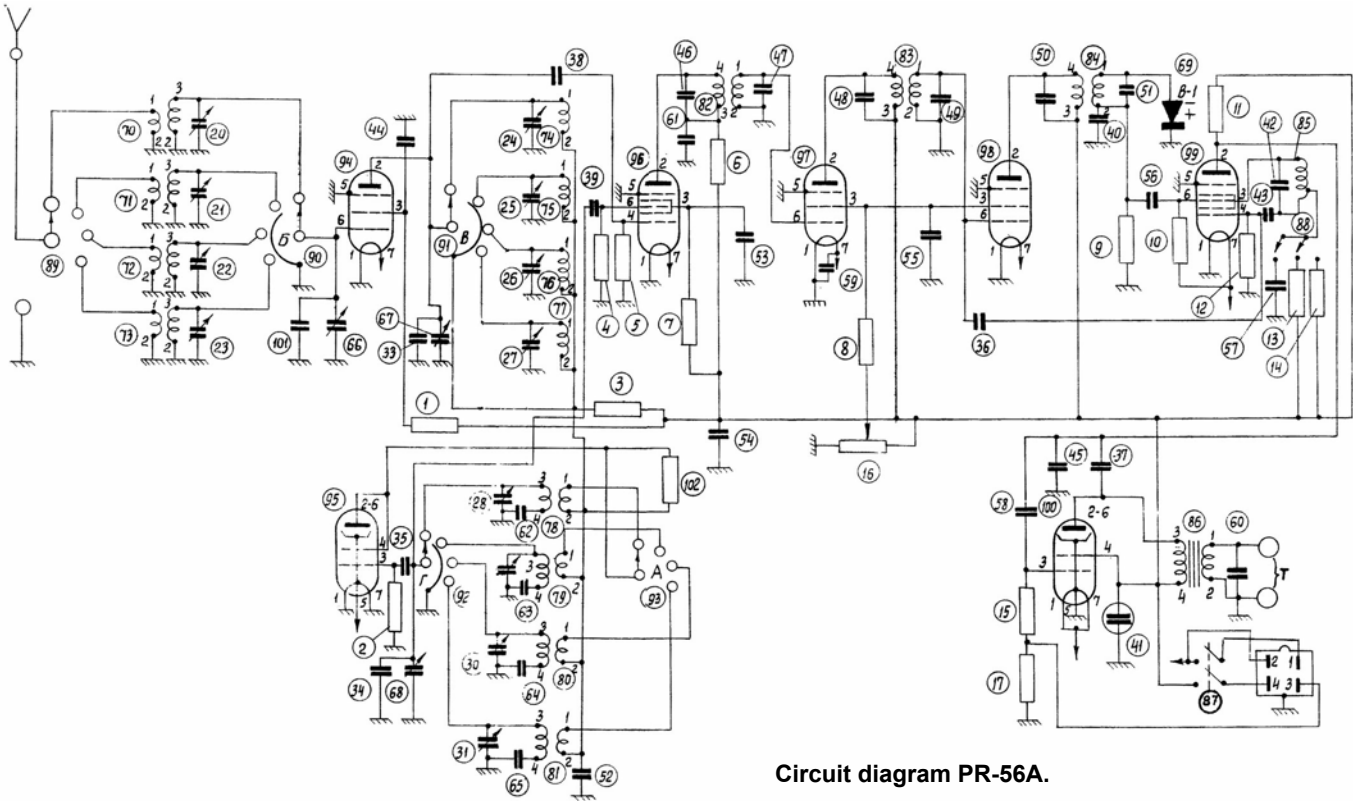


Detail view of frequency scales and tuning arrangements. Course tuning was done with the large black frequency scale which extends at both sides. The brown thumb wheel at the right was used for fine-tuning.

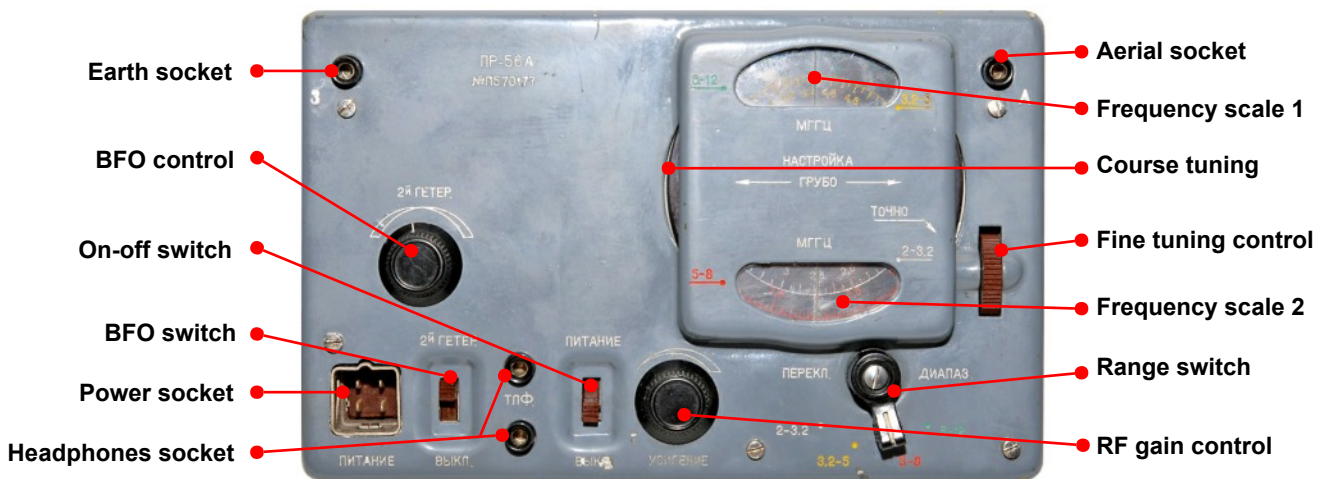
References:

This chapter presents an abridged version derived from a comprehensive account of the PR-56A receiver available at the museum's website, www.cryptomuseum.com. The included photos were taken from a PR-56A held in the museum's collection, and information from the website has been published with the kind permission of the Crypto Museum in Eindhoven, Holland.

- Photographs kindly provided by Bálint in Hungary, taken from his collection, show the front panel, details of the mounting frame, and the positions of the three dry batteries in a suitcase. More of his photos can be found here: <https://posting.cc/gallery/3Debkzn>
- Photographs of a second PR-56A suitcase were provided by Ernő Kollár, HA5DB, from the Virtual Radio Museum (<https://radiomuseum.hu>), for which we extend our sincere thanks for granting permission to publish.
- In version 2.02, corrections were made on two errors, which were kindly pointed out by Karsten Hansky, DL3HRT.



Circuit diagram PR-56A.



Front panel layout and functions of controls PR-56A.

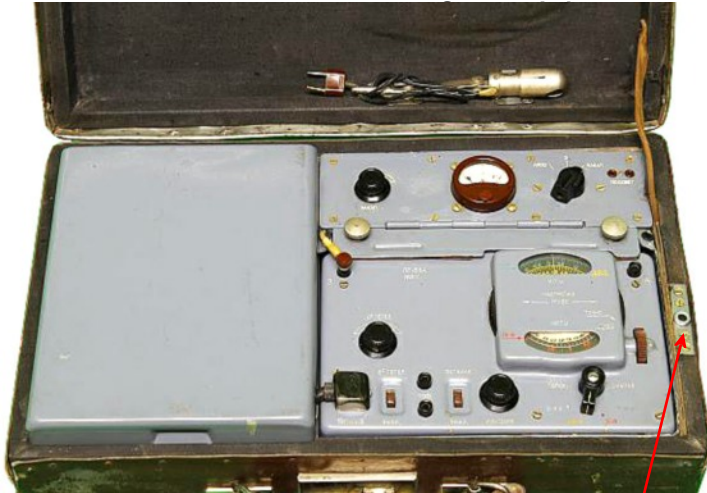


Receiver removed from its case.



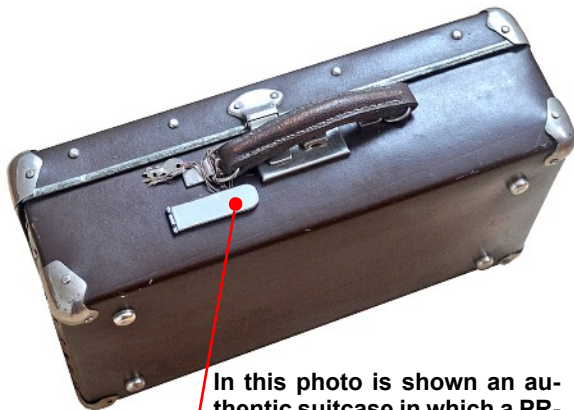
PR-56A rear view showing RF unit left and other stages right.

Wireless for the Warrior - Volume 4
 A suitcase for the PR-56A receiver.



An original suitcase was issued for the complete PR-56A receiver, featuring a socket on the right-hand side for inserting an operator's lamp.

When this chapter was compiled in 2017, it was unknown that a stand-alone PR-56A receiver had been issued, self-contained in a small suitcase. Additional items included a support frame with an integrated battery and accessories box, a small panel with a test meter, and an operator lamp socket. The issued aerial was a 7-meter long wire connected to the aerial socket by a banana plug, with the wire coiled up in the accessories' compartment when not in use.



In this photo is shown an authentic suitcase in which a PR-56A receiver was transported.



The flap below the carrying handle covered three sockets, assigned as follows from left to right: aerial, -LT and +LT for connecting an external LT battery and wire aerial.

The battery and accessories compartment, shown in the open position, displaying the 1.5V LT battery. Below the meter panel, a second 1.5V LT battery was connected in parallel. In the compartment on the left-hand side, an 80V HT battery was installed. (The suitcase is not original.)



Photo Karsten Hansky, DL3HRT

The metal frame in which the receiver was mounted. Note the three sockets at the bottom to connect an external LT battery and an aerial.

- Filament Voltage adjustment
- Meter panel
- Test meter switch
- Test meter
- Operator's lamp socket
- Operator's lamp



The suitcase was opened, revealing the battery/accessories compartment on the left, the PR-56A receiver at the bottom right, and a panel with filament voltage adjustment, meter, meter switch, and operator lamp socket.

- Space for accessories
- Meter panel
- LT battery (2)

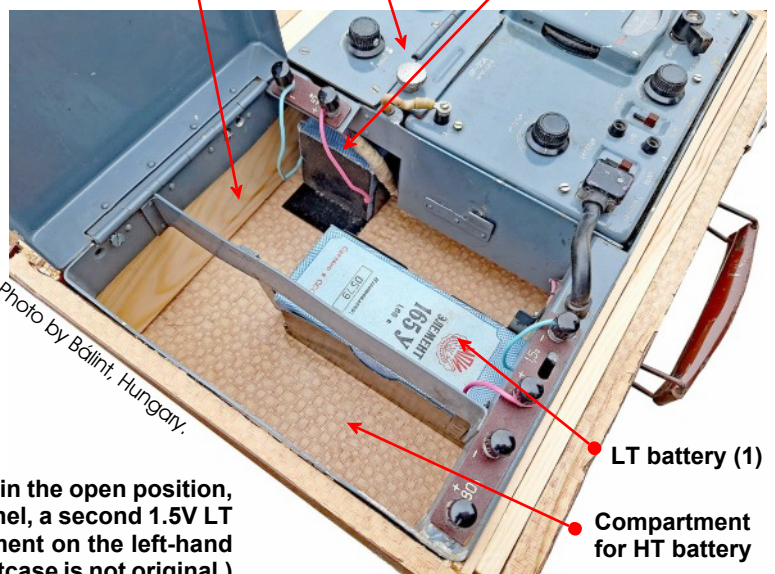


Photo by Balint, Hungary.

- LT battery (1)
- Compartment for HT battery