



Sázava
Country of origin:
Czechoslovakia

Sázava I, produced in 1952.

DATA SUMMARY

Organisation: ŠtB - Štátna bezpečnosť (Secret State Police) and 2 Správa - kontrarozviedka (Government, Department 2, counter-espionage).
Design/Manufacturer: 6 Správa - spojovacia technika (Government, Department 6, communication technics).
Year of Introduction: Sázava I 1952, Sázava II and III believed late 1950s.
Purpose: Reception of wireless bugs.
Receiver: Circuit features: Superheterodyne.
 Sázava I: IF 3.1MHz; FM and AM.
 Sázava II and III: FM only. IF unknown.
Frequency coverage: Sázava I: 42.1-47.8 MHz; Sázava II and III probably the same range but not yet confirmed.
Power Supply: AC mains.

REMARKS

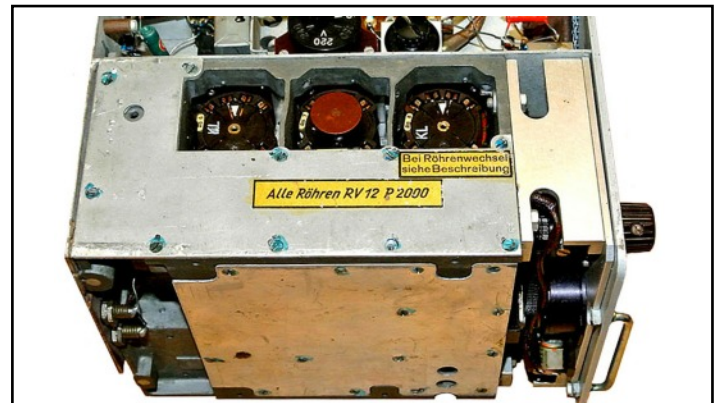
Developed and produced under project numbers TI-418, TI-457-1 and TI-473-2 as Sázava I, II and III *) were a series of receivers designed for reception of room interception surveillance wireless bugs. The electrical and mechanical design was conventional; in the early TI-418 model the receiver RF front end of a German WW2 FuG 17 aircraft transceiver was used. As supplies of this unit were probably exhausted, later models were made with a more up-to-date front end.
 (The covert name was derived from a river in the Czech republic, flowing into the Moldau).



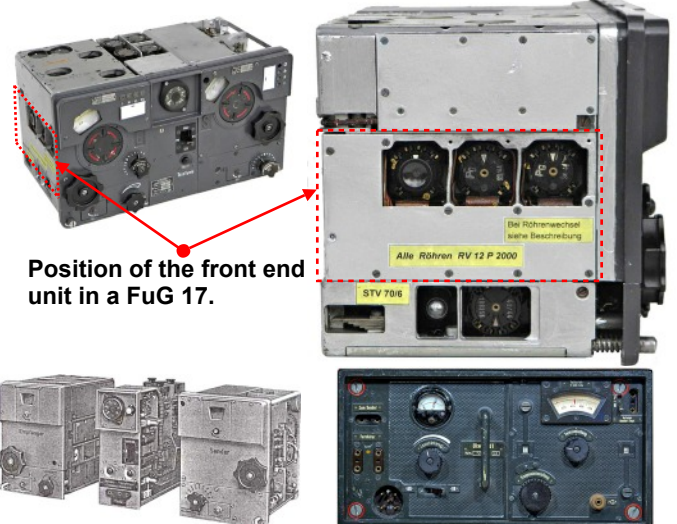
Top view of Sázava I chassis showing the Fug 17 front end unit (right) and IF strip (rear and left).



Mechanical construction of the AM/FM switch.



The RF front end of Sázava I was originally part of a Luftwaffe FuG 17. This unit was also used in the Ukw.E.d1 (part of Wehrmacht Fu7 vehicle set for communication with aircraft), and Kriegsmarine Lo10uk39, the latter with a slightly different frequency coverage.



Position of the front end unit in a FuG 17.

Kriegsmarine Lo10uk39.

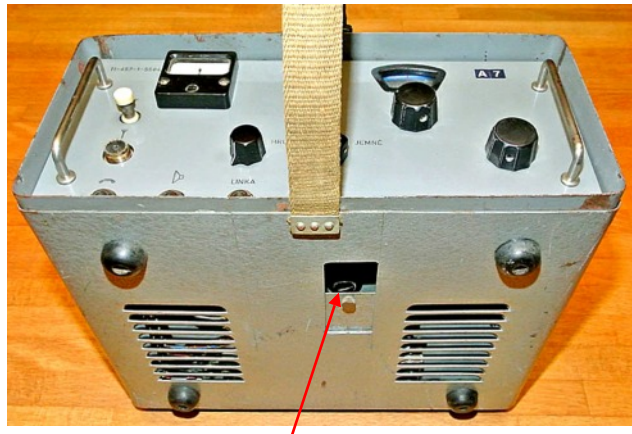
Wehrmacht Ukw.E.d1.

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Sázava II



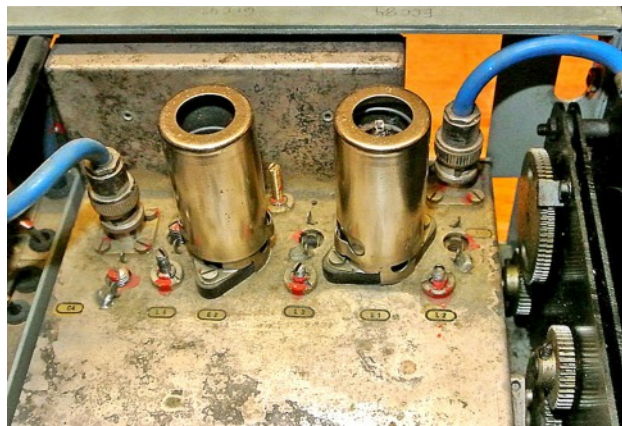
Front panel view of the Sázava II (TI-457). The tuning scale was not calibrated in frequency. A meter with a centre scale pointer allowed accurate tuning to the FM signal of a bug.



Bottom view of the Sázava II (TI-457) showing access to the AC mains input voltage selector.



Top view of a Sázava II (TI-457) showing RF front end unit (top left with two valves on a silver plated enclosure); AC mains power supply and AF output stage (top right); IF strip (bottom).



Close up view of RF front end unit and tuning reduction gear (left).

References:

- Photographs and information were published with kind permission of Petr, OK1PM: More information can be seen on his website Zelená Vlna (Green wave) www.zelenavlna.com
- Die deutschen Funknachrichtenanlagen bis 1945, Band 2, Fritz Trenkle, (ISBN 3-7785-3034-2) and Band 3, H.J. Ellissen, (ISBN 3-928388-1-0).