



Šimandl
Country of origin:
Czech in England

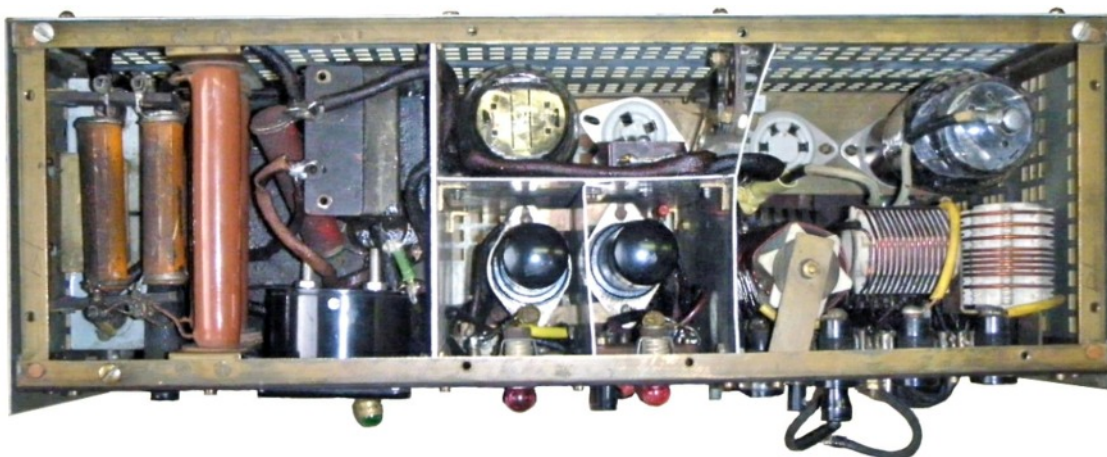
DATA SUMMARY

Organisation: Czech Army in exile. (Clandestine network)
Design: Antonín Šimandl.
Production: Czech Central Radio Station, England.
Year of Introduction: 1942.
Purpose: Resistance. (SOE trained operators dropped by parachute in the Czech Republic)
Transmitter:
Circuit Features: Crystal oscillator/multiplier or alternative Crystal oscillator/driver/multiplier, RF power amplifier. (CW only)
Frequency Coverage: 3-18.3MHz.
 RF output: 30-60W.
Valves: 6V6 (2x), 807 (3x, one spare).
Power Supply: 120 or 220V AC mains. 5Z4 rectifier.
Size (cm): height 18½, length 39, width 14.
Weight: 12kg.
Accessories: Wire for aerial and earth, mains lead, optional external Morse key.

This Supplement chapter is a follow up and should be read in conjunction with the ‘Šimandl’ section in the ‘Czechoslovakia’ chapter of WftW Volume 4 for more detailed information including a circuit diagram.

REMARKS

The Šimandl was developed and produced at the Czechoslovak Central Radio Station in Woldingham and Hockliffe in Bedfordshire. About 10-15 units were built. The associated receiver was initially a British Mk.V or the receiver section of Type 3 Mk.II; later a Marjánka receiver. (Chapter 93)
 The use of sockets and wander plug in the transmitter stages was not only a constructional feature saving space and simplified wiring, it also avoided switch failures. Tuning of the various stages was by means of maximum brilliance on miniature bulbs.
 A sliding miniature Morse key was fitted in the front panel of the RF power amplifier front panel and provision was made for connecting an external key.



Top view of a Šimandl transmitter with top cover removed. Mains power unit left, crystal oscillator and multiplier/driver centre bottom, rectifier and spare 807 centre top, RF output valves and aerial matching/tuning circuit right. Two type 807 valves are missing: one of the RF power amplifier valves (right) and a spare (left).

References:

- With thanks to Vit Hanák †, OK1HR, Czech Republic, for technical and historical data supplied in 1998.
- Photos taken from a Šimandl that survived, now in the collection of the Military History Institute in Prague with kind permission of Michal Burian.