

Plug-in transmitter

Country of origin:
Yugoslavia

Remarks

The plug-in transmitter depicted in this chapter was developed and constructed for the Yugoslav State Security Organisation. It was principally intended for stay-behind communications.

The design might have been an adoption of the German 'Adapter Transmitter' (see WftW Vol 4, Chapter 'Germany up to 1945') but more likely of similar sets of the 1950s era, notably the 'Plug-in' transmitters used by

French agents (see Chapters 79-81). It is not believed that the CIA TA-1A ('Transmitter Adaptor', developed in 1957, see chapter 176 in Part 2) which was functionally similar, was captured in Europe. The filament voltage and high tension were derived from a standard broadcast receiver via a plug and cable, plugged into the type EL84 output valve socket. (Noted are the use of connectors for different types of valves). The +HT and ground were connected to two free pins of the EL84, (pin 6 and 8), bypassing the cathode resistor and AF transformer, requiring a minor modification to the receiver. A small headphone socket fitted on top of the plug to the receiver was connected to the control grid of the EL84. (See inset top left). This still allowed reception when the AF output valve was removed. The difference between the Yugoslav 'Plug-in' transmitter and the the French 'Plug-in' transmitters, compared to the WW2 German Adapter Transmitter and CIA TA-1A, was that the latter two employed the valve from the donor broadcast receiver. The TA-1A had a built-in BFO allowing reception of CW signals.

DATA SUMMARY

Organisation: Yugoslav State Security Administration. (UDBA)

Year of Introduction: Probably 1960s.

Purpose: Stay behind.

Receiver: Any available commercial (short wave) receiver.

Transmitter:

Circuit Features: Crystal oscillator/amplifier. CW only.

Frequency Coverage: 3-7MHz.

Valve: 6L6.

RF output: Estimated about 5-8W.

Power Supply: Derived from a broadcast receiver having an EL84 valve as AF output amplifier.

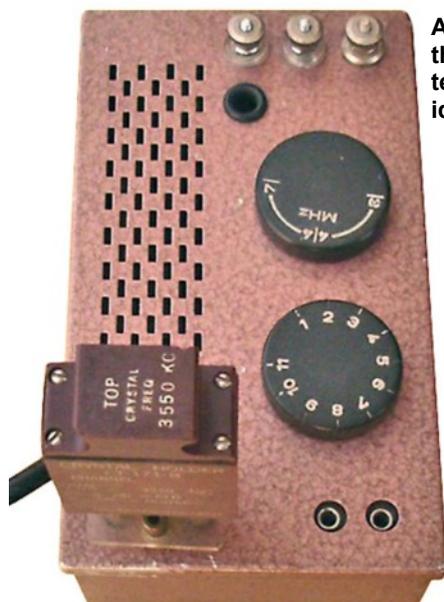
Size (cm): Height 4, Length 14, Width 8. (approximately)

Accessories: Wire for aerial and earth, Morse key, crystal.

References:

- Photographs and general technical information was kindly provided by Mirko, S52PC, Slovenia.

- See also Mirko's website: <http://lea.hamradio.si/~s52pc/>



A 'brown' version of the Plug-in transmitter was internally identical. (Left)



Internal view of the 'Plug-in' transmitter. Note the use of a metal version of the 6L6 valve.