

NSP III transmitter.

## DATA SUMMARY

**Organisation:** Polish Home Army (Armia Krajowa).

**Design/Manufacturer/Workshop:** Secret AK workshops.

**Year of Introduction:** Believed 1943.

**Purpose:** Transmitter for Polish Home Army.

**Transmitter NSP III:**

**Frequency coverage:** Not yet known.

**Circuit features:** Crystal oscillator, RF power amplifier.

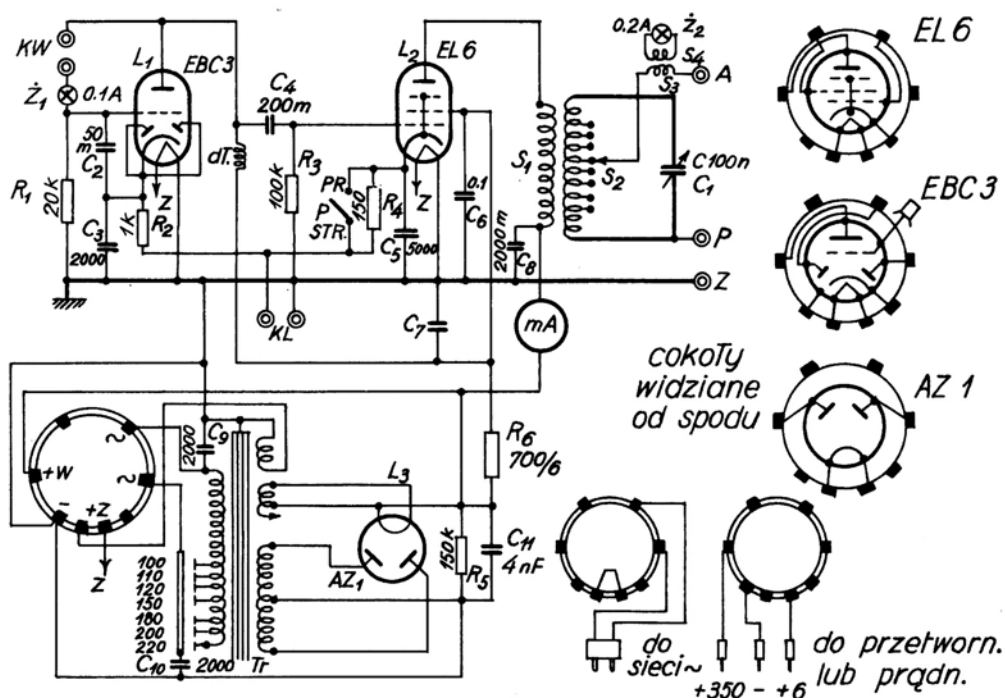
**Valves:** EBC3, 6L6G, AZ4. (Variation NSP-II see below)

**Aerial:** Wire and counterpoise.

**Power Supply:** 100-220V AC mains. A socket on the front panel was provided for connecting an external power source.

**Dimensions (cm):** Height 8.5, length 24.5, width 19.5

Circuit diagram of the NSP II transmitter. Note the ('P' valve base) socket for connecting an AC mains lead 'Do sieci(owy)' or an external DC power source 'Do przetwornicy lub prądu(ica)'.



## NSP III

(Armia Krajowa #5)

Country of origin:  
Poland

## REMARKS

The NSP III transmitter was a development version of the NSP-II and earlier NSP-I. The difference between the versions was basically the types of valves. It was developed and constructed around 1943 in secret AK workshops for communication within the Polish Home Army. Built into a metal box, it was self contained and powered by AC mains with the possibility to connect an external accumulator and HT power source via an octal socket. The NSP III had variants with different components and a built-in receiver. The NS-30 for example was a variation with a wider frequency coverage using slightly different components.

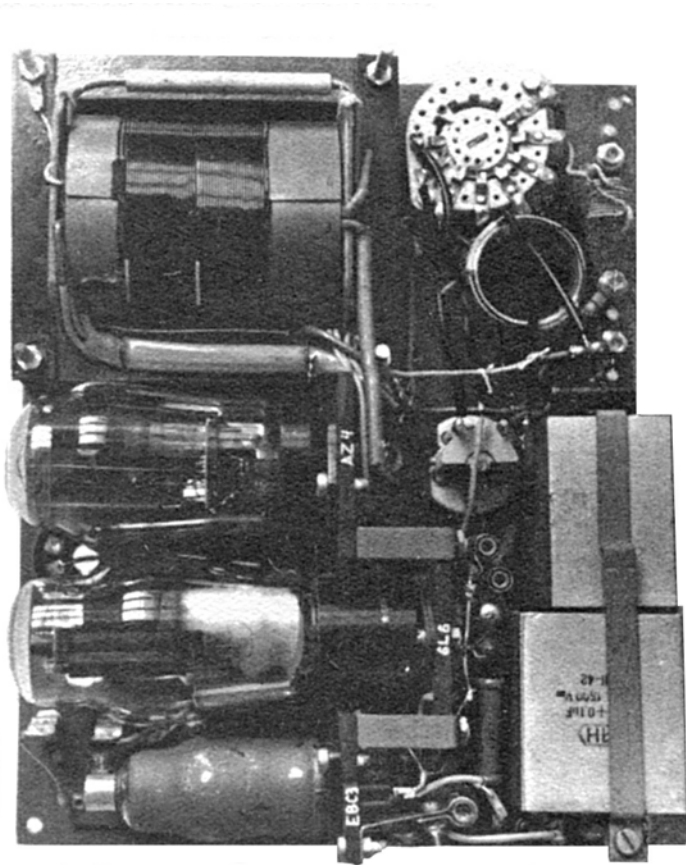
## References:

- Drawing, photographs, circuit diagrams and information courtesy Bogdan Szkudlarek, SP3LD, Poland.
- *Zolnierze Lacznojej Warszawy* (Communications soldiers of fighting Warsaw), Kazimierz Malinowski, Warszawa, 1983, isbn 83-211-0378-2.
- *Wireless for the Warrior, Volume 4, Clandestine Radio*, Louis Meulstee, Wimborne, 2004, isbn 095263 36 0.

Diagram of the front panel layout for the NSP III variation. The diagram shows various controls and their functions in Polish. Labels include: antenna, wskaźnik do stroj. (żarówka) (tuning indicator (lamp)), przeciwwaga (counterpoise), strojenie (tuning), przełącznik mocy (power switch), przyrząd pomiarowy (measuring instrument), klucz (Morse key), ziemia (ground), transform. (transformer), rozdzielnik napięć (voltage divider), przełącznik antenowy (aerial switch), praca (pełna moc) (full power), strojenie (pół mocy) (half power), kwarc (crystal), and gniazdka do prądu lub sieci (power or mains sockets).

Antena	Aerial
Ziemia	Ground
Wskaźnik do strojenia (żarówka)	Tuning indicator (Lamp)
Przeciwwaga	Counterpoise
Strojenie	Tuning
Przełącznik mocy	Power switch (high and low)
Przyrząd pomiarowy	Measuring instrument
Klucz	Morse key
Przełącznik antenowy	Aerial switch
Kwarc	Crystal
Gniazdko do prądu lub sieci	Power socket (gen. or mains)

Front panel layout and text translation functions of controls NSP III variation.



Internal view of NSP III variation with a 6L6G as RF output amplifier.

Front panel view of the OSB type II receiver (lower section) and NSPIII transmitter (top section) combined in a single box. The image shows the front panel with various controls, including a large tuning knob and a power switch.

Front panel view of an OSB type II receiver (lower section) and NSPIII transmitter (top section) combined in a single box.

Internal view of the OSB type II receiver (lower section) and NSPIII transmitter (top section) combined in a single box. The image shows the internal components, including the vacuum tubes, capacitors, and wiring.

Internal view of OSB type II receiver (lower section) and NSPIII transmitter (top section) combined in a single box.