

Polish Test Set

Country of origin:

England

(Version 1.01)

The three photos on this page were taken from the Polish test set in the collection of the Royal Signals Museum.

Remarks

This miniature test set was developed by the Polish Wireless Research Unit in England for testing, alignment and fault finding in receivers and transmitters. It comprised a signal generator with internal modulation and variable output attenuation, an AF output meter, a transmitter dummy load with relative RF output indication on a meter, and a modulation monitor (detected modulation in headphones).

The functions, frequency coverage of the signal generator and choice of power input voltages indicated that these test sets were developed for use by (Polish) resistance groups for servicing their AP and BP series of radios.

Used in its construction were the metal case with a slightly different hinged lid, and parts of the BP3 and BP4 (particularly the signal generator frequency tuning and fine control adjustment). Little is known of this Polish test set and it may be speculated that not many were built. To date 3 surviving examples have been located.

DATA SUMMARY

Organisation: Polish Home Army (Armia Krajowa); SOE.

Design/Manufacturer: Polish Wireless Research Unit, Stanmore, England.

Year of Introduction: Probably 1943 or later.

Purpose: Testing and servicing of receivers and transmitters by Polish resistance groups.

Circuit Features: Signal generator with (internal) modulator, variable attenuator, AF output meter, RF dummy load, relative RF output meter, and modulation monitor.

Frequency Coverage (signal generator): 440kHz-1400kHz, 1.4-4.5MHz, 4.5-15MHz.

Valves: 2 x 6SC7.

Power Supply: 120V or 220V AC.

Size (cm): Height 7, length 25, width 30.

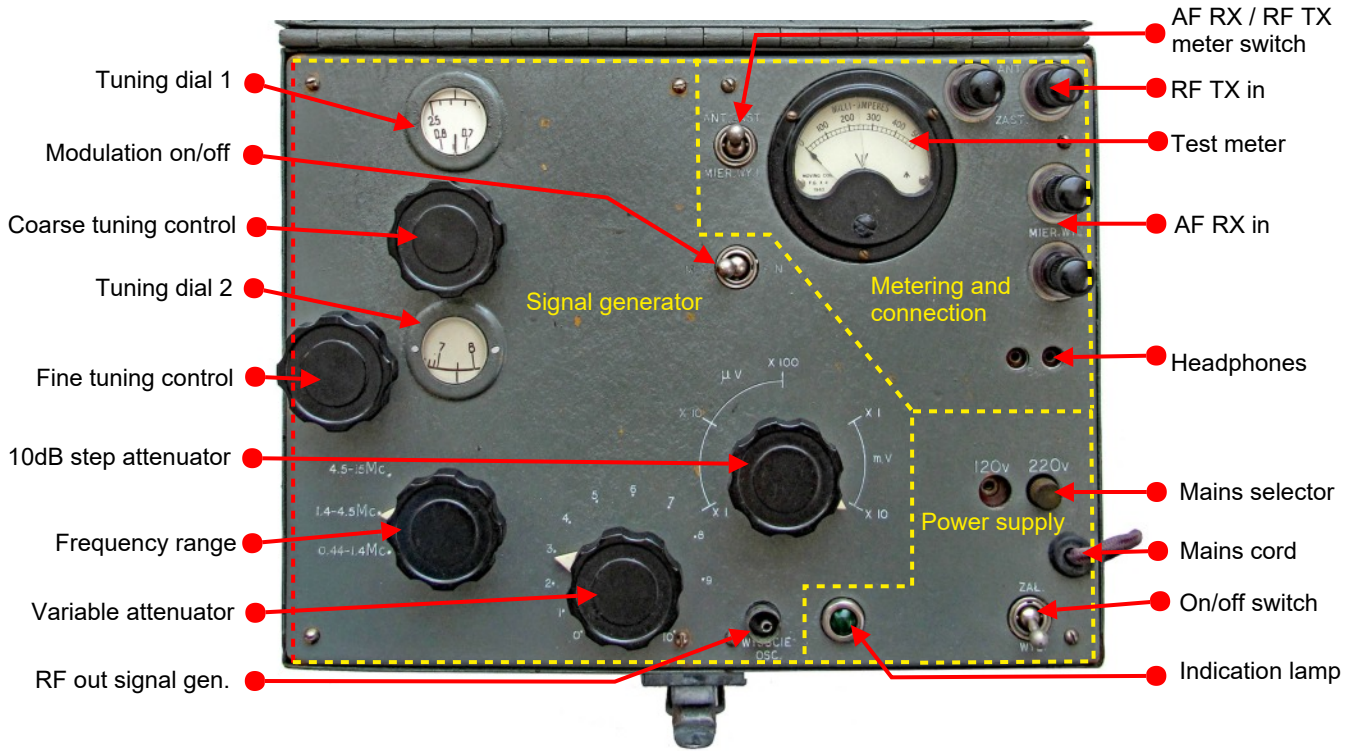
References:

Photos of a Polish test set were first taken from an example held in the collection of the Royal Signals Museum, Blandford Forum, U.K. Later photos for ver 1.01 of this supplement were taken by Anthony Howard, U.K., and interior pictures taken from a unit held by an anonymous Dutch collector.



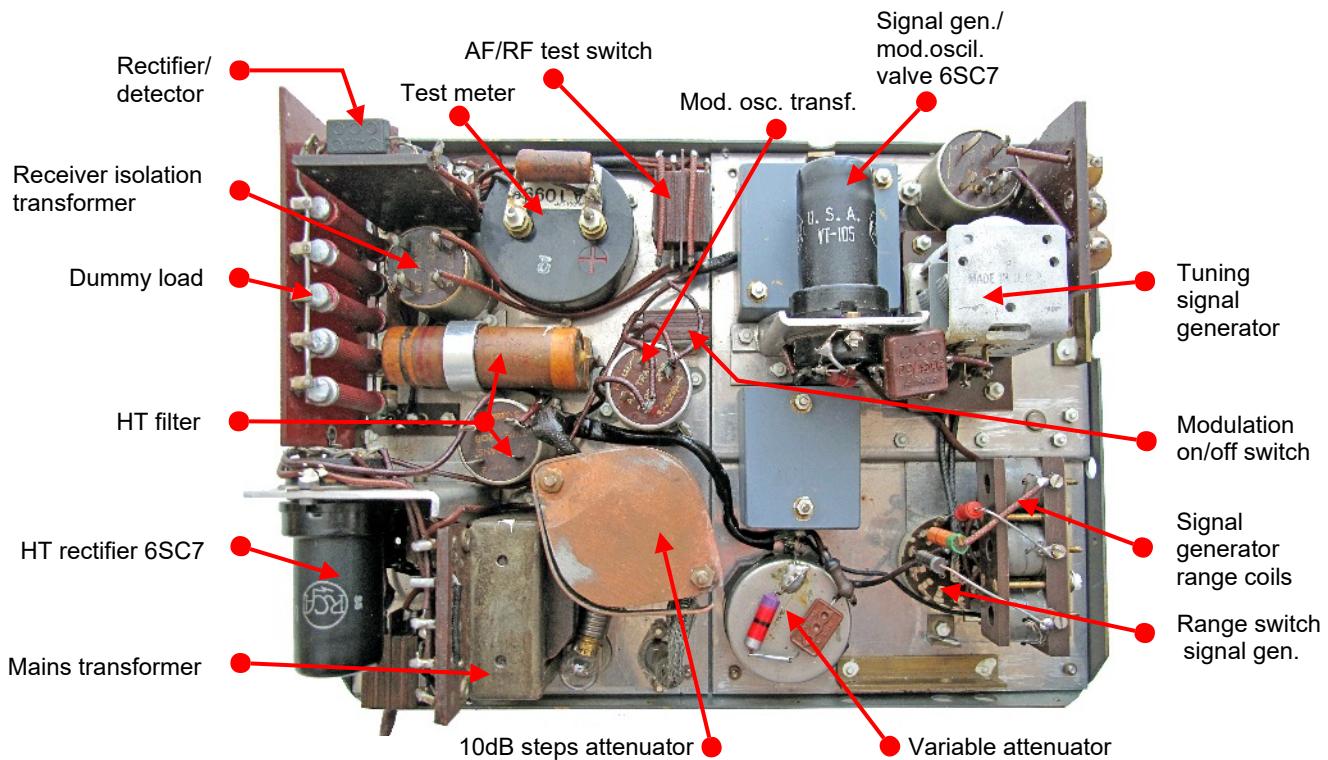
General view (left) and internal view (above) of the Polish test set. Note that the RF oscillator section and attenuator of the signal generator were enclosed in two fully screened compartments (box at right and cylinder in the centre). The five large resistors (to be seen on top left) comprised the transmitter dummy load.

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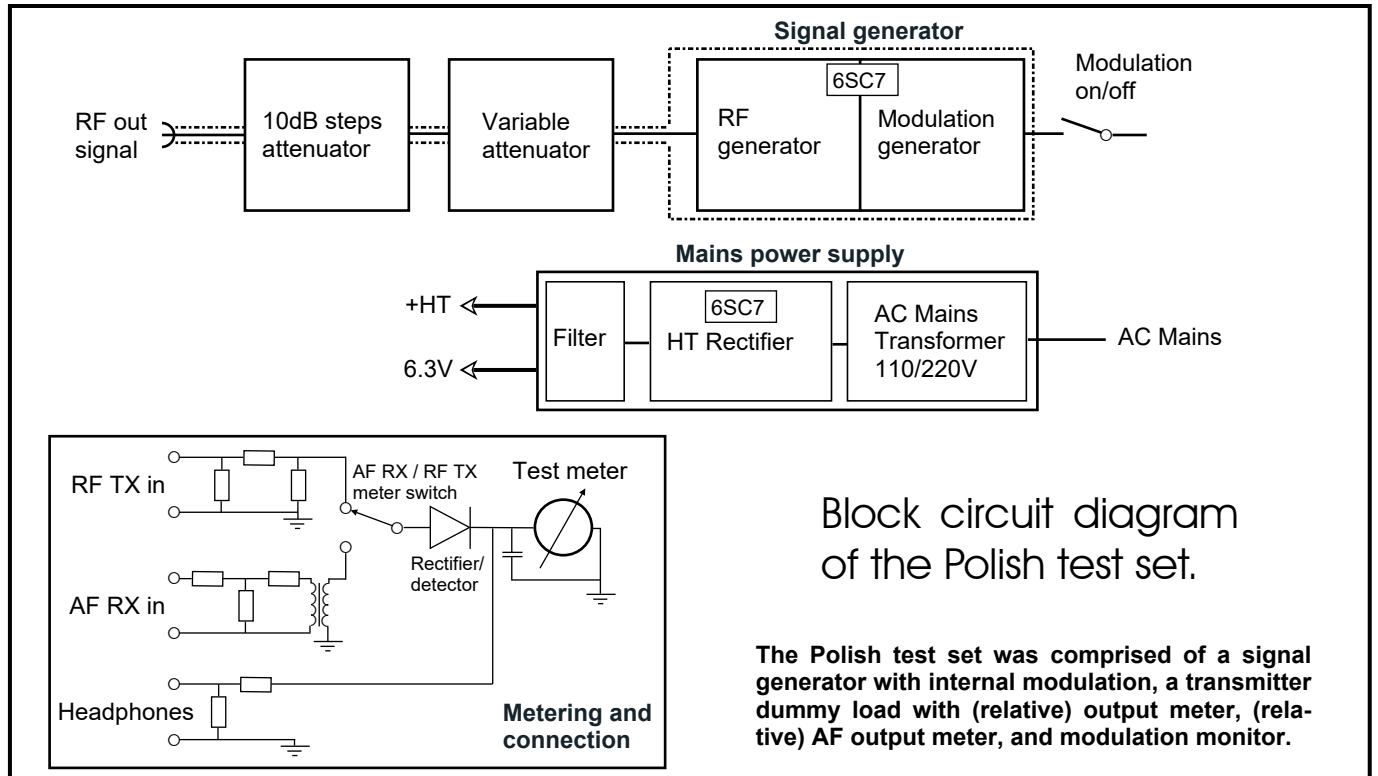


Functions of controls Polish test set.

The photos on this page were taken from a Polish test set in a Dutch collection.



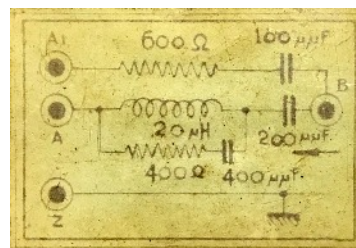
Bottom view of the Polish test set showing internal components with internal signal generator screen detached.



Photographs taken by Anthony Howard. His Polish test set is complete with both tuning tools and the signal generator artificial aerial. Note a different type of RF out socket and plug.



View of the Polish test set enclosure. Avoiding RF leakage of the signal generator, the (existing) punched ventilation holes were covered by metal plates at the inside.



Circuit diagram of the separate artificial aerial of the signal generator.

Close up view of the RF out socket and plug of the artificial aerial (right).



Close up view of the RF out socket on the Dutch collection and Blandford Polish test sets (left).