

Clandestine Midget Receivers #5

Country of origin: Holland

DATA SUMMARY

Design/Manufacturer: Philips employee.
Year of Introduction: Mid- to the end of WW2.
Purpose: Clandestine listening to Allied SW broadcasts.
Circuit Features: TRF: RF, regenerative detector, AF.
Frequency Coverage: Probably 49m and 41m band.
AF output: High impedance headphones.
Valves: E1F=4672 (3x), EA50.
Power Supply: 220V AC mains.
Sizes (cm) and Weight: Height 6, length 10, width 9; 675g.

Remarks

Clandestine midget receiver #5, held in the collection of the Amateur Radio Museum 'Jan Corver', was another variation of the vast number of miniature clandestine receivers made by Philips employees during WW2. It was probably constructed in the later part of the war when German jamming on medium- and long wave was intensified, most of the Dutch broadcast receivers were confiscated, and many Allied broadcast stations transmitted on short wave. The receiver was built with almost 100% Philips components, of which of particular interest were the miniature acorn valves E1F (4672), EA50 signal diode, and large size beehive trimmers, used for tuning the RF amplifier and detector stages. The latter was accomplished by a special insulated trimming tool. The enclosure was made to fit the size of the receiver using wood from empty cigar boxes, neatly varnished with a copper lock in an effective attempt to disguise the receiver as a ladies accessories box. The actual receiver was mounted on a small hardboard panel.



Wooden enclosure with lid closed, resembling a ladies accessories case.



Philips E1F valve, equivalent to 954.



Large format Philips 'beehive' trimmer.



Philips EA 50 signal diode used as HT rectifier.



Side view of clandestine midget receiver #5.

References:

- Information and photographs from this receiver, kept in the collection of Amateur Radio Museum 'Jan Corver', Budel, Holland. www.jancorver.org

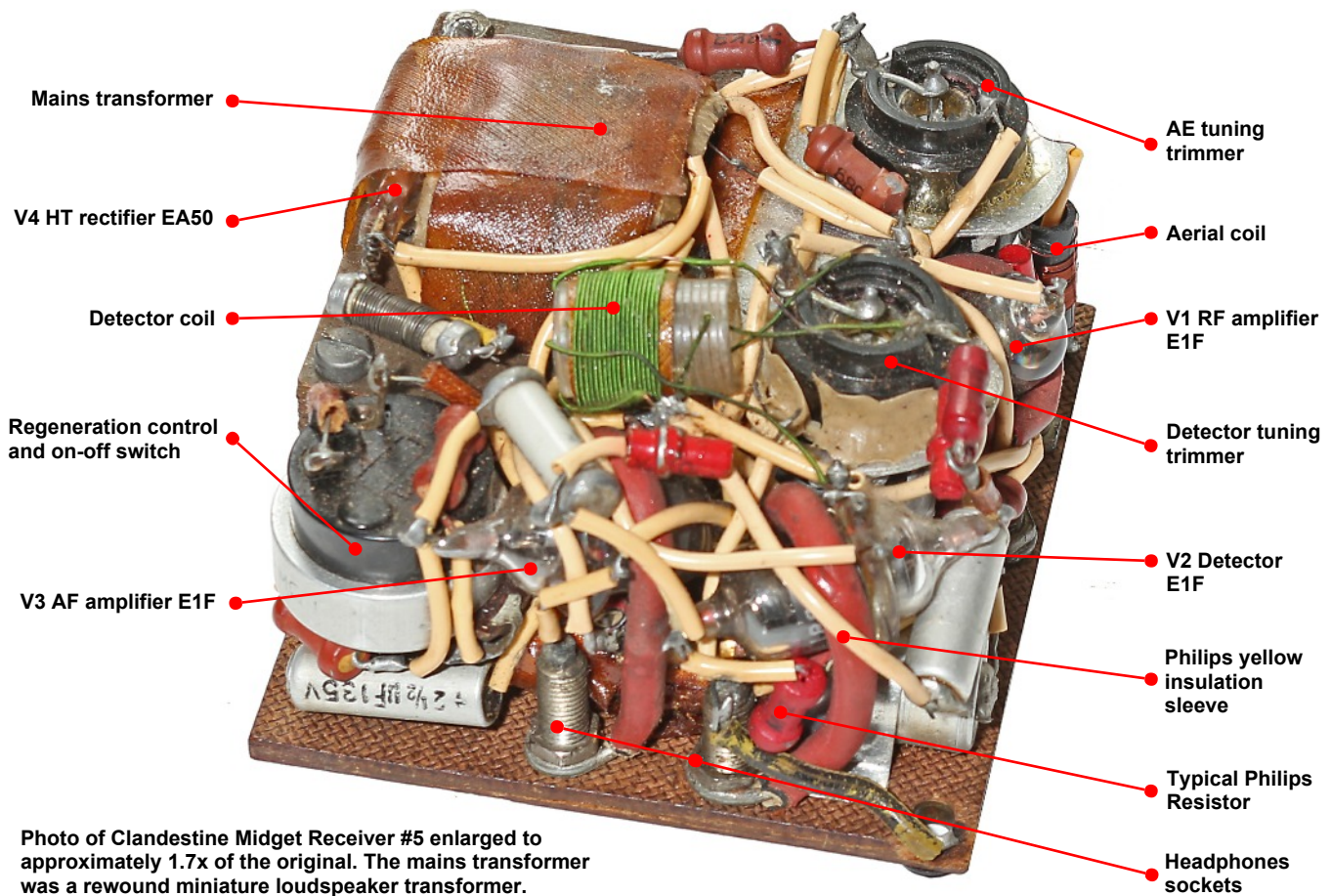


Photo of Clandestine Midget Receiver #5 enlarged to approximately 1.7x of the original. The mains transformer was a rewind miniature loudspeaker transformer. Note the typical yellow insulation sleeve which can be found in other clandestine receivers made by Philips employees. (Chapter 151 #3D, #3E and 152 #4E)

Internal views of Clandestine Midget Receiver # 5, photographed in the Amateur Radio Museum 'Jan Cover'.

