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### DATA SUMMARY

Organisation: SOE

Design/Manufacturer: Unknown Year of Introduction: 1945.

**Purpose:** Miniature receiver for resistance groups. **Circuit features:** RF stage, regenerative detector, AF. **Frequency coverage:** 3-12MHz in two ranges: 3-6MHz

and 6-12MHz. (Dial calibrated in MHz).

AF Output: High impedance hearing-aid type crystal

earphones; 300mV over 80kΩ. **Performance:** Sensitivity 5uV. **Valves:** 9001 (3x); rectifier 3A5.

Power Supply: AC mains 100-140V and 200-240V.

Consumption: HT 100V at 4mA; LT 6.3V at 0.45A.

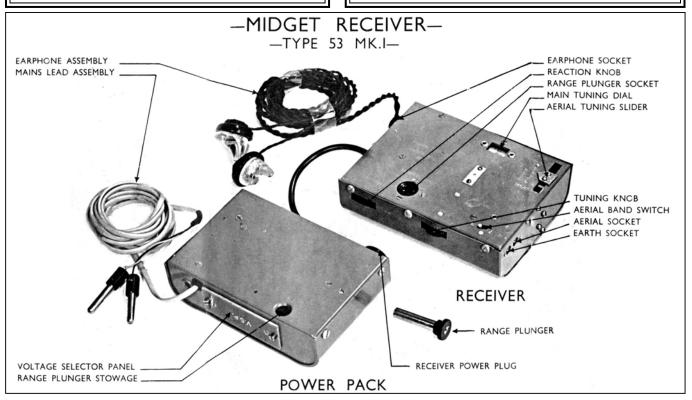
Size (cm) and Weight (kg: Height length width weight Type 53/1 receiver 4 9 12 0.4 Mains power unit 4 8 12 0.6

This supplement chapter is a follow up and should be read in conjunction with the Type 53/1 section in the 'Great Britain' chapter of WftW Volume 4.

#### Remarks

Type 53/1, also known as Type 53 Mk.I and 'Midget Receiver', was a miniature radio receiver developed for SOE in late WW2. It comprised a separate receiver and AC mains power supply unit, believed to be produced as an easy to conceal alternative to the MCR 1 receiver which was normally powered by difficult to obtain replacement batteries. The Type 53/1 resembled the battery powered Type 31/1 ('Sweetheart' see Chapter 250) which was intended for general *(cont. next page)* 

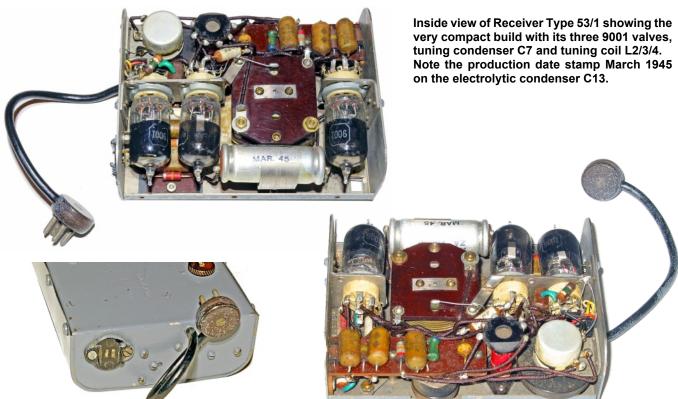
Accessories: Pair of miniature crystal earphones, 6m aerial and 2m earth wire, lamp socket adapter for bayonet cap or Continental Edison screw socket, two brass pins for conversion of mains plug to English or continental type wall sockets (all contained in a linen bag), and a folded user instruction booklet.



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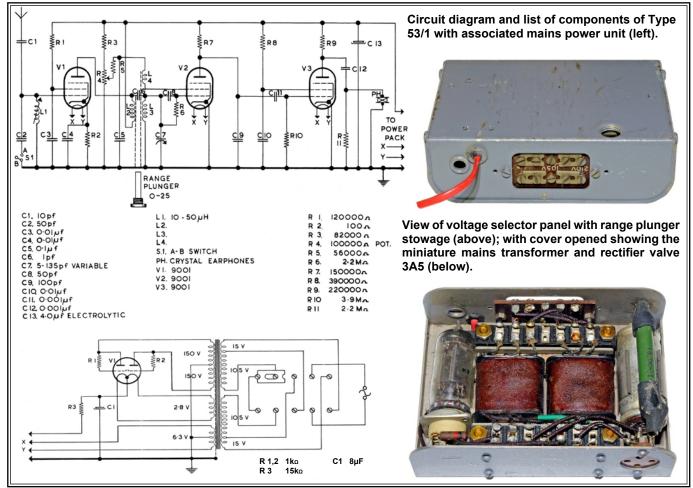
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(Cont. from page 1) purpose broadcast reception, whereas the Type 53/1 was principally intended to be used by resistance groups. With its RF stage it was more sensitive and not liable to RF radiation when listening to CW signals. The piezo-crystal earphone assembly was identical to that used with the 'Sweetheart'. It was connected to a similar type of sliding socket. (See inset above).

#### References:

- WftW Volume 4, *Clandestine Radio*, L. Meulstee, 2004, Wimborne Publishing Ltd., ISBN 0952063 36 0.
- Receiver Type 53/1, Instruction booklet, n.d.



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