



# RT-49

Country of origin: USA

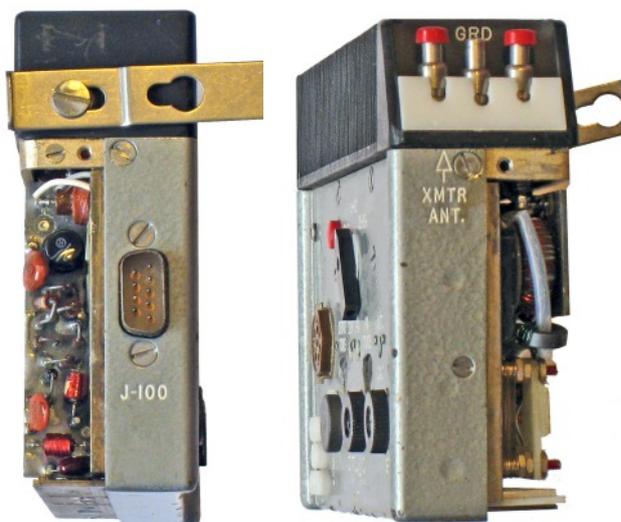
This Supplement chapter is a follow up and should be read in conjunction with the 'RS-49' section in the 'USA' chapter of WftW Volume 4 for more information including a circuit diagram.

## DATA SUMMARY

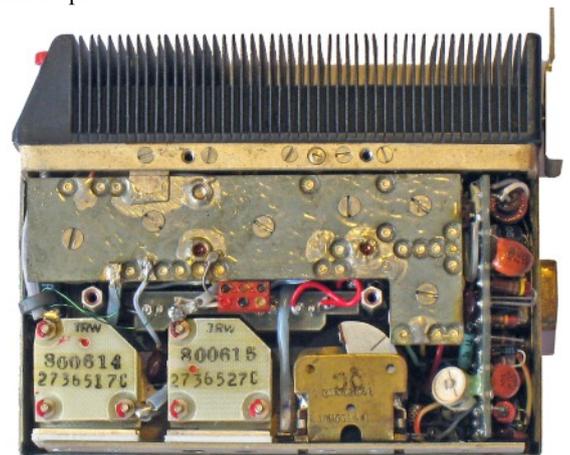
**Organisation:** Central Intelligence Agency.  
**Year of Introduction:** 1966.  
**Purpose:** Agents communication.  
**Transmitter:**  
**Circuit features:** CO/doubler, RF output. CW only.  
**Freq. Coverage:** 3-24MHz in three switched bands: 3-6MHz, 6-12MHz and 12-24MHz.  
**RF output:** 15W.  
**Receiver:** RR-49 (See Chapter 112)  
**Power Supply:** 42V DC, derived from a DC/DC converter Power Supply RP-49 which was powered by 12V.  
**Size (cm):** Height 4, length 10, width 12.5, weight 800g.  
 RP-49: Height 4, length 8.5, width 15, weight 700g.  
**Accessories:** RR-49 receiver, 12V power cable, auxiliary power cable, aerial and earth wire. Morse key and high speed keyer GRA-71.

## REMARKS

Transmitter RT-49 was part of a fully transistorised miniature agents transmitter-receiver station RS-49. The associated receiver was the RR-49, which was also used as a stand alone. See WftW Supplement Chapter 112.  
 A Morse key was provided for manual keying up to 12 wpm, but the RT-49 was normally used with an automatic high speed keyer operating at a speed of 300wpm.  
 Power was applied through a DB-9 plug. Power Supply RP-49 had the mating connector, and sited directly beside the RT-49 when in operation. The transmitter had a binding post for the receiver aerial. The RT-49 supported crystal control or VFO input, a frequency synthesiser, probably an OS/A-8, or a crystal matrix of an unknown type. The OS/A-8 was a digitally tuned oscillator designed to replace crystals in agent transmitters. The frequency coverage was 2-11.99MHz in 10kHz steps.



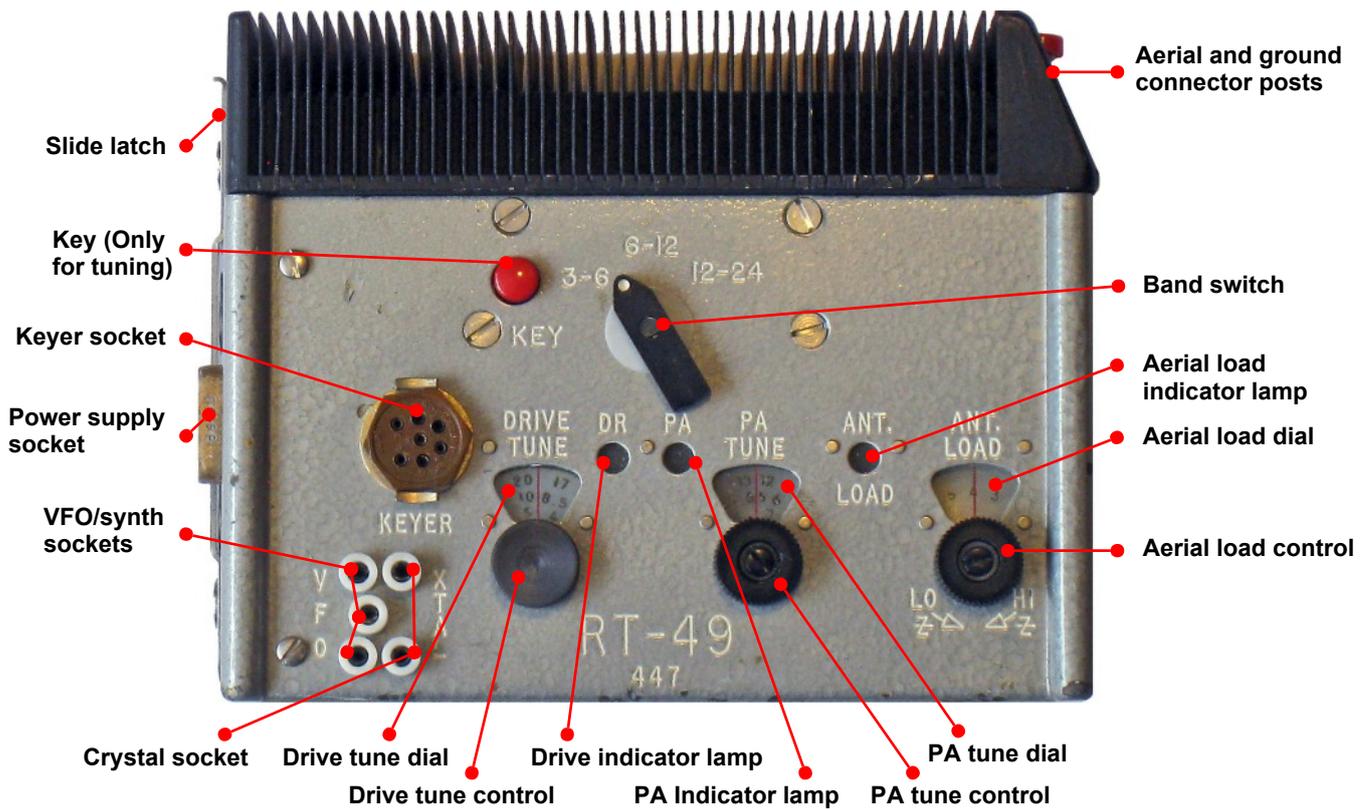
Left hand side view showing DB-9 DC input plug for connecting RP-49 power unit, and right hand side with aerial and earth plugs.



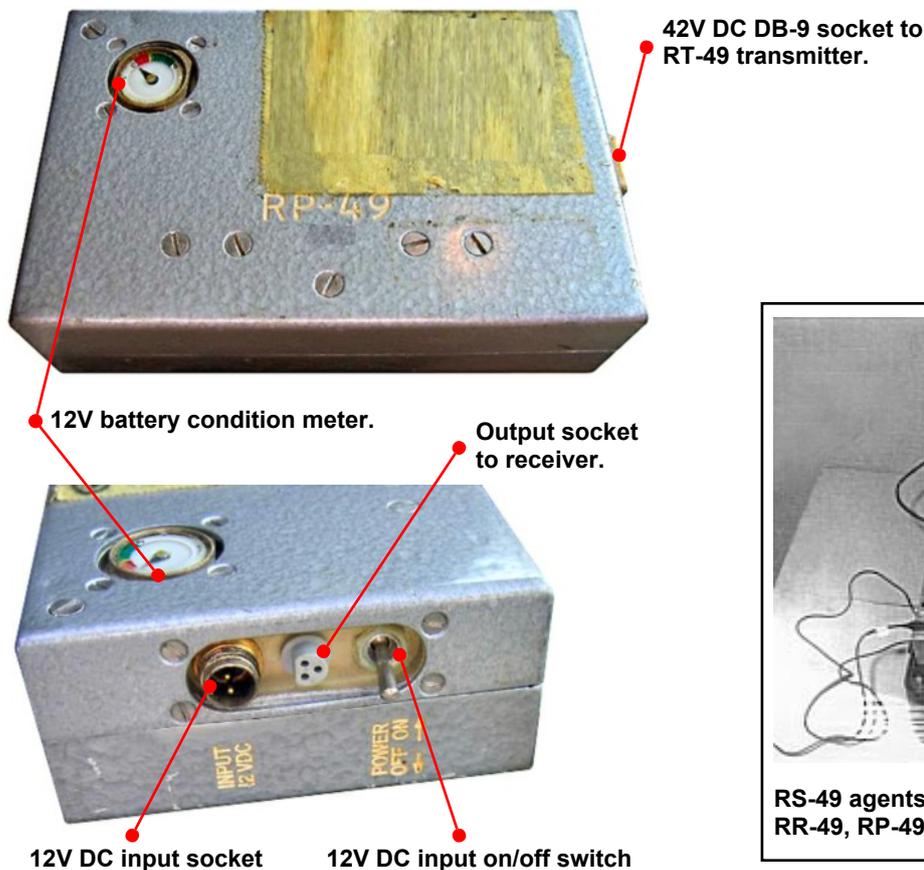
Bottom view of RT-49 with cover plate removed.

## References:

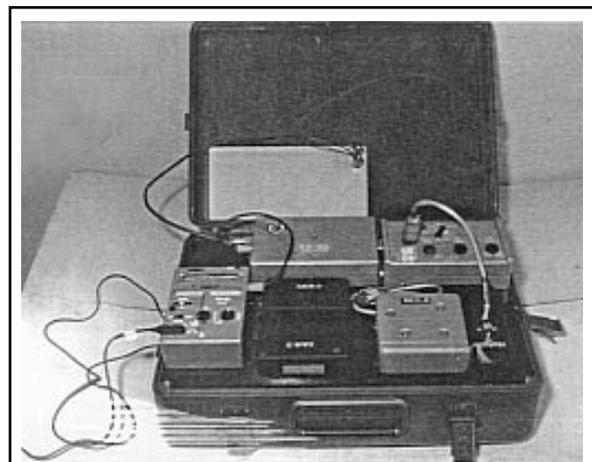
- Information, colour pictures and documents below courtesy Pete McCollum N0TDM, USA.
- RT-49 transmitter operating instructions, CIA, n.d.
- RP-49 miniature power supply instructions, CIA, n.d.
- Inspection report No. 6, OS/A8 and OS/B-100, CIA, Sept 1965.



Overview of functions controls RT-49.



Functions controls and sockets RP-49 power supply.



RS-49 agents station in a suitcase with RT-49, RR-49, RP-49, GRA-71 and manual Morse key.