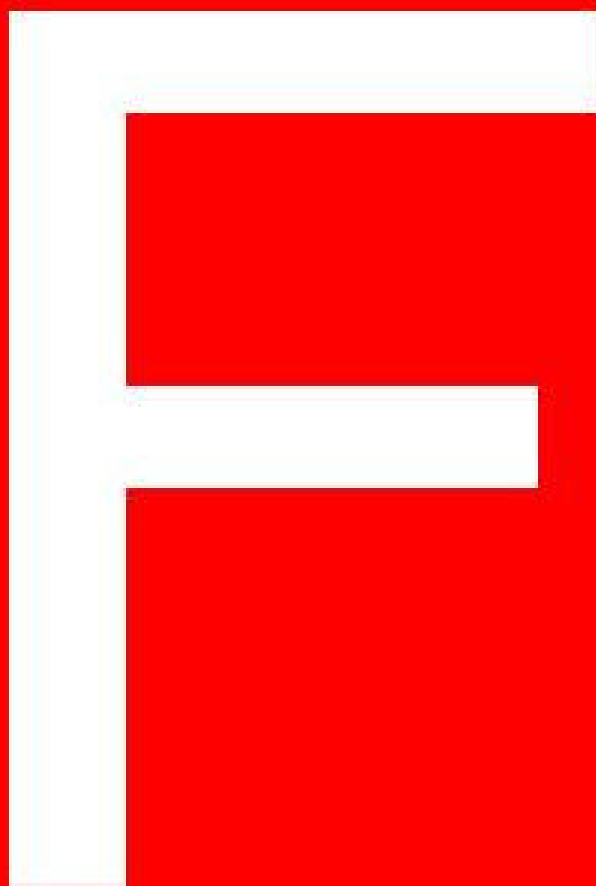


German Field Line Communication equipment of WW 2



Funksammler Publications

Table phone *Tischfernsprecher 38*

Development and description

Similar in functionality to the *FF 33* with *SB Zusatz 33* the *Tischfernsprecher 38* was developed as a neater desk version of the field telephone. To minimise the cabling required on the desk itself, a single cable leads to a separate battery/connection box, which can be placed under the desk or hung on the wall.



Figure 30: *Tischfernsprecher 38*

The *Tischfernsprecher 38* can be used in central and local battery systems, as well as end-pulse networks. In addition, an external bell could be connected to the phone so that important calls could not be missed. These features make it a telephone more suited to higher staff and administration

functions bound to offices and barracks, less so as a field telephone.



Figure 31:
Tischfernsprecher 38
terminal unit

The Terminal unit has the following connections:

MB	Two “ <i>Mikrofon Batterie</i> ” or microphone battery connections
La/OB/SB	“ <i>Leitung a / Orts Batterie / Schlusszeichen Batterie</i> ” or line a / local battery / end pulse battery: This connection was to be used in local battery or end pulse systems, also when the <i>Tischfernsprecher 38</i> is connected to another field telephone
La/ZB	“ <i>Leitung a / Zentral Batterie</i> ” or line a / central battery. This connection was to be used for central battery networks
Lb/E	“ <i>Leitung b / Erde</i> ” or line b / earth:
W2	Two “ <i>Wecker 2</i> ” or Bell 2 connections: an external bell could be connected to these terminals.

The telephone unit itself consists of a bakelite base plate on which all components are mounted. On the back side connection terminals to the battery/connection box, handset and optional headphone are placed together so that all leads can be neatly led outside through a rubber seal. The bakelite top lid pivots open and is locked closed with two spring loaded hooks.

Construction

Figure 32: Tischfernsprecher 38 overview



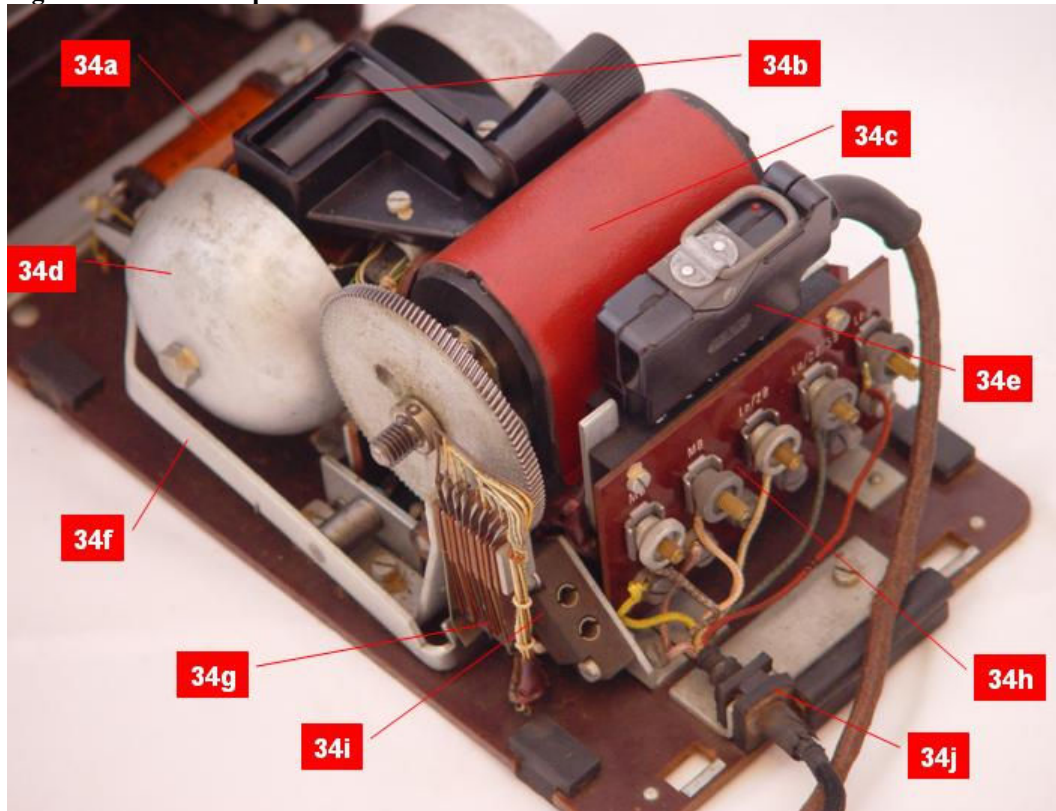
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| 32a Handset | 32e Generator crank | 32i Terminal box terminals |
| 32b End pulse switch | 32f Manufacturer plate | 32j Terminal box battery compartment |
| 32c Alphabet tag | 32g Rubber cable transit | |
| 32d Bakelite housing | 32h Connection cable | |

Figure 33: Tischfernsprecher 38 underside



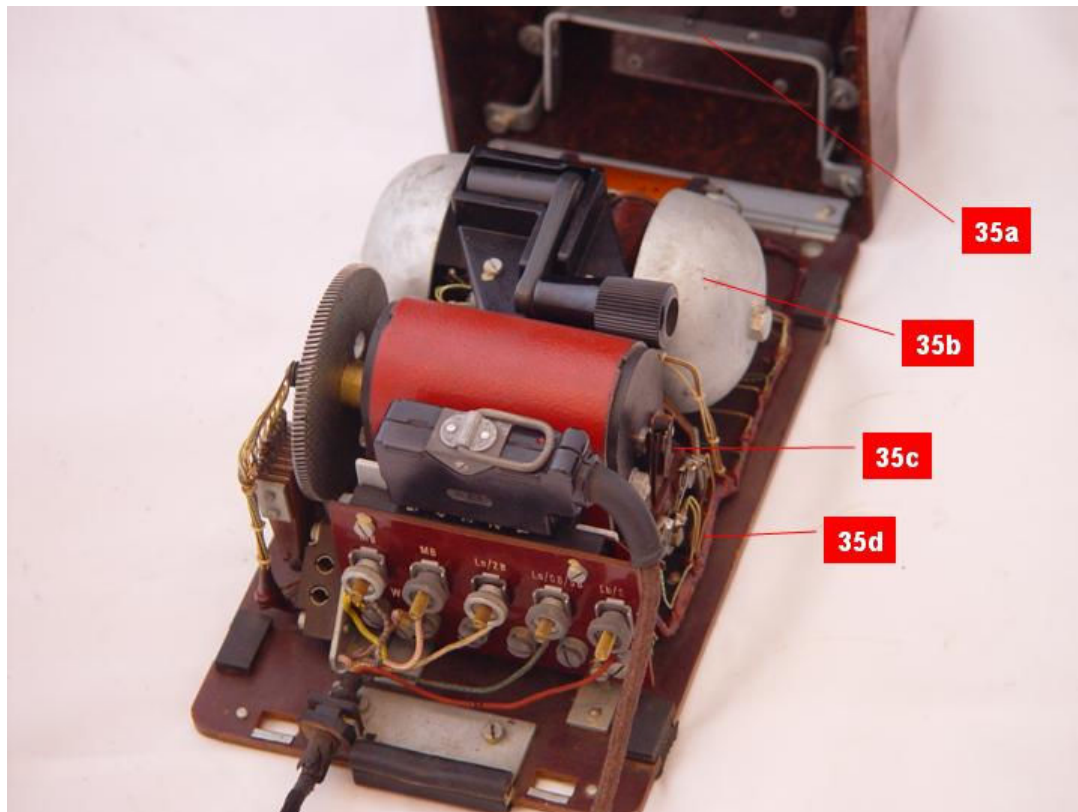
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|--------------------|------------------|-------------------|
| 33a Housing swivel | 33c Bottom plate | 33e Housing Locks |
| 33b Rubber feet | 33d Schematic | |

Figure 34: Tischfernsprecher 38 interior view



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|---|-------------------------------|--|
| 34a Microphone coil | 34d Bell assembly | 34h Connection cable termination panel |
| 34b Storage recess for generator crank handle | 34e Handset connection plug | 34i Headset connection socket |
| 34c Ring tone generator | 34f End pulse switch lever | 34j Connection cable transit |
| | 34g End pulse switch contacts | |

Figure 35: Tischfernsprecher 38 interior view



- | | | |
|--|----------------------|-----------------|
| 35a End pulse switch suspension in top cover | 35b Bell assembly | 35d Wiring loom |
| | 35c Generator switch | |

Operation

- Open the *Tischfernsprecher 38*, plug in the handset, remove the generator handle from its storage recess and closing the unit again, taking care that the cables pass through the rubber seal.
- Place the handset on the telephone unit and connect the generator handle.
- Open the battery compartment of the battery/connection box and connect a 1.5 V battery to the “MB” terminals.
- Close the battery compartment and connect the telephone line to the required terminals. For connection with another *Tischfernsprecher 38* or and *FF 33* use the “La/OB/SB” and “Lb/E” terminals.
- Connect an extra bell if required to the “W2” connections.
- Place the battery/connection box in a convenient place and the telephone unit on the desk with the Alphabet and writing tabs facing the user.

Operation is identical to a normal *FF 33* field telephone so crank the generator handle to call the other end of the line and depress the microphone switch in the handset while talking.

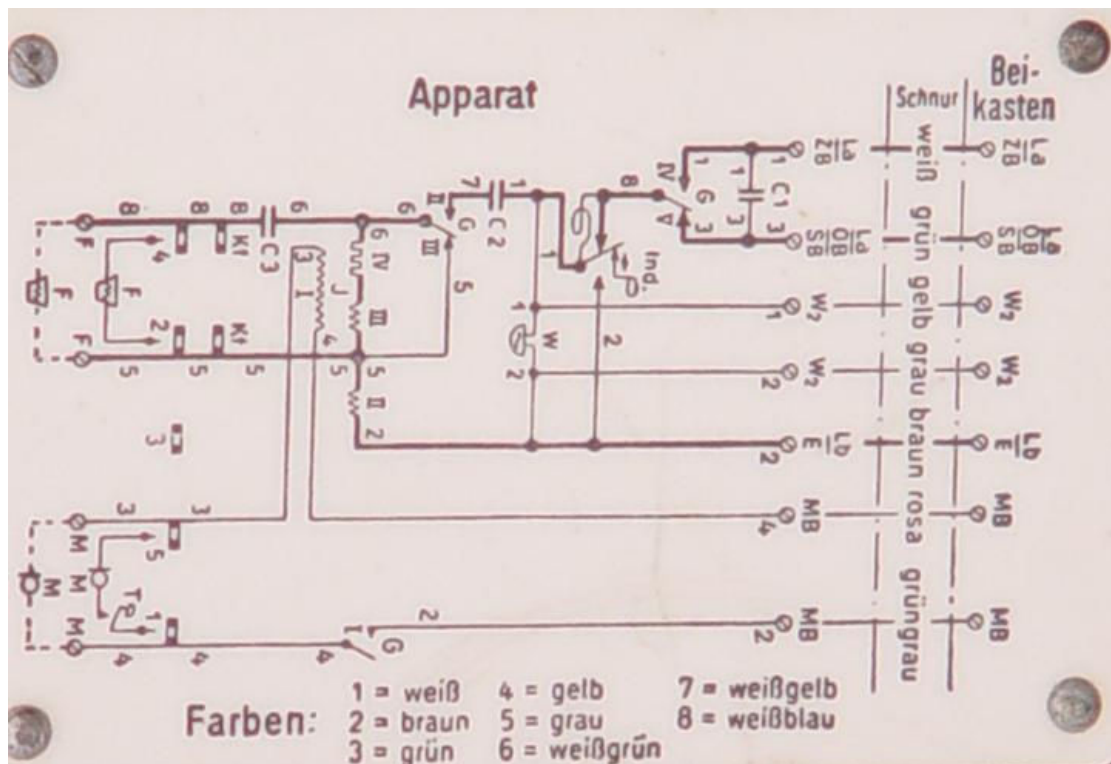


Figure 36: Tischfernsprecher 38 schematic