

TF-B tx (2B) bug concealed in a HA subscriber telephone terminal box.

TF-B tx (2B) Telephone 2

33011 and 33012

(GDR line bugs VII)

Country of origin: GDR

(To be read in conjunction with Chapters 163 and 168.

DATA SUMMARY

Organisation: MfS, Abt. 26, GDR.

Design/manufacturer: MfS, OTS Abt. 33.

Year of Introduction: 1982.

Purpose: Sub-miniature line based bug comprising a 33010 board concealed in a subscriber telephone terminal box.

FM carrier frequencies: 24kHz, 40kHz, 104kHz; $\pm 1/2$ kHz.

Technical details: See Chapter 168.

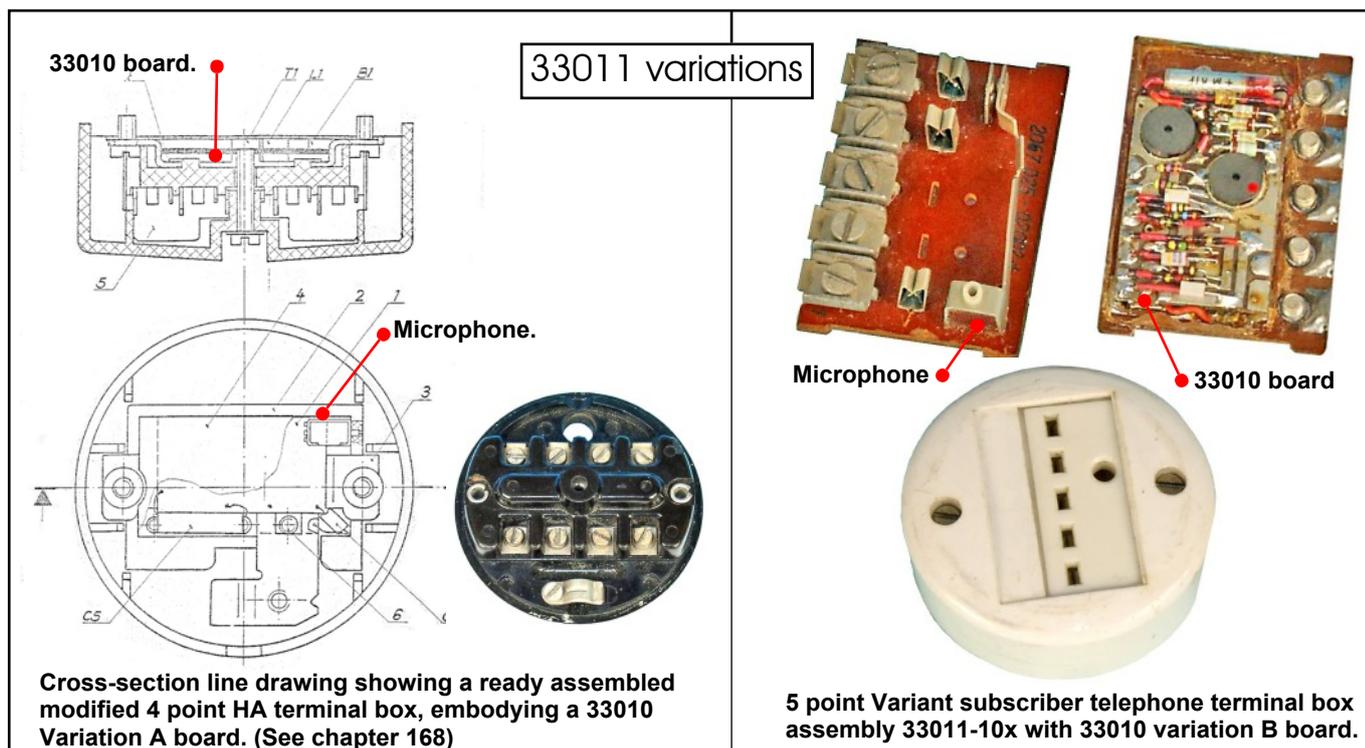
Microphone: Knowles type BT 1750.

REMARKS

The 33011 and 33012 were TB-B tx (2B) transmitters (bugs) using part of a standard subscriber telephone line as a medium to route the signal from an Operational Object to the CEKO central system. Both were assemblies, comprising a 33010 board (see Chapter 168) concealed in various types of subscriber telephone terminal boxes.

The 33010 bug was mounted inside a terminal box with the microphone speech opening at the back of the box.

It was concealed in the terminal box, covered with a plate glued with special two component epoxy adhesives.

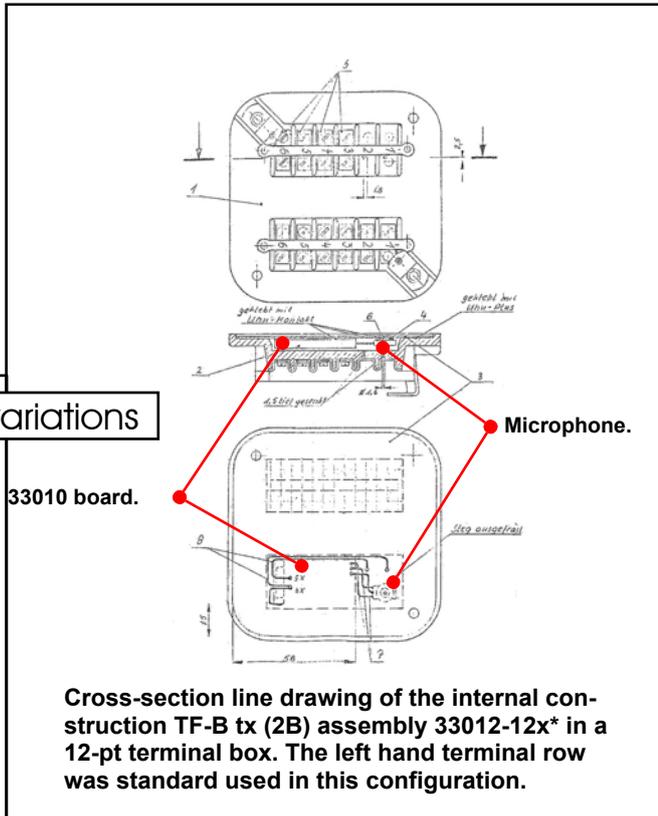
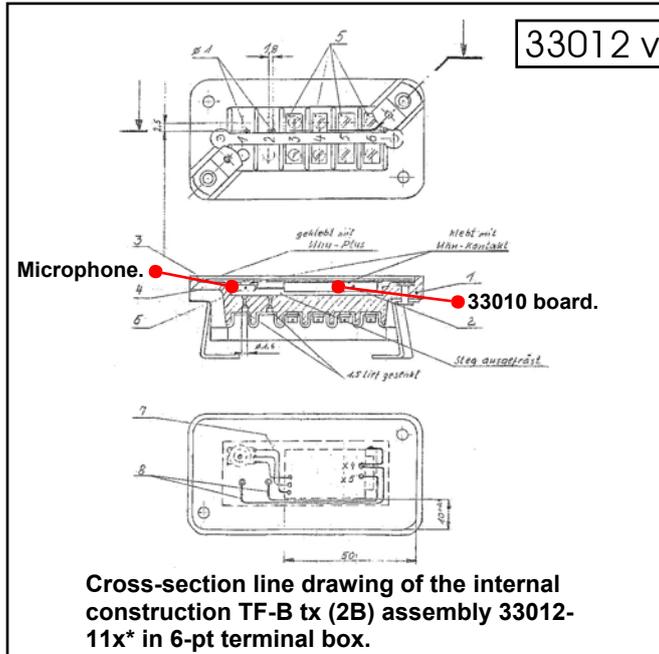


Cross-section line drawing showing a ready assembled modified 4 point HA terminal box, embodying a 33010 Variation A board. (See chapter 168)

Apart from mounted in a terminal box with direct connection to the subscriber telephone line, a single 33010 board could e.g. be concealed in an Operational Object and its output connected via hidden thin wires to a subscriber telephone line in a neighbouring apartment.-

- The assembly for HA and Variant terminal boxes was known under covert numbers 33011-101/102/103.*
- 6-point rectangular terminal box assembly had covert numbers 33012-111/112/113.*
- 12, 24 and 48-pt terminal box assemblies had covert numbers 33012-12x*, 33012-13x* and 33012-14x*

* 3 different FM carrier frequencies.



- Currently known covert numbers of TF-B tx (2B) transmitters. Each model had three versions (channels).**
- 31130-11/12/13 Early Models*.
 - 33010-10/11/12 Board only; used in assemblies below.
 - 33011-101/102/103 Assembly with 33010 board in Variant and HA terminal block.
 - 33012-111/112/113 Assembly with 33010 board in 6-point terminal block.
 - 33012-121/122/123 Assembly with 33010 board in 12-point terminal block.
 - 33012-131/132/133 Assembly with 33010 board in 24-point terminal block.
 - 33012-141/142/143 Assembly with 33010 board in 48-point terminal block.
 - 33014-101/102/103 Round block with microphone*.
 - 33014-111/112/113 Round block without microphone*.
- *) No details known.

References:

- With thanks to Detlev Vreisleben, DC7KG, Germany for taking excellent photographs and scans, and providing further technical and historical information.
- MfS documents:
 - Kennblatt Gerät 33011-110...113, 30-07-1981.
 - Kennblatt Gerät 33012-1, 03-03-1981.
 - Prüfvorschrift Gerät 33011-110...113, 16-07-1981.
- Operativ-Technischer Sektor, Abt 33:
 - Erprobungsbericht 33011-11, 28-06-1981.
 - Erprobungsbericht 33012-11 und 33012-12, 13-05-1981.
 - Taktisch-technische Forderungen TF-B Sender in spezieller Tarnung. Gerät 33012-1, 18-02-1981.