



3.4 Setting the jumpers

The jumpers are only used to turn off certain features of your **Enigma-E**. The table below shows the meaning of each of the jumpers. They are numbered ① to ⑤, just like it is printed on the PCB. The topmost one is ⑤.

out	X	⑤	Hide Permutations	If the jumper is <u>out</u> , the Enigma-E will slowly show the entire translation process (permutations) in the displays.
in	X	④	No Scrolling messages	If the jumper is <u>in</u> , no scrolling messages will be used in the Configuration Mode.
in		③	No Startup text	If the jumper is <u>in</u> , the Enigma-E will not show the lengthy startup message.
out	X	②	Morse OFF Serial port ON	If the jumper is <u>out</u> , the <u>serial port</u> will be turned off and the terminals of the serial port may be used to connect an extra (optional) buzzer. Each time you press a key, the corresponding enciphered letter will be sounded in morse code. Check the website for more information.
in	X	①	Buzzer inhibit	If the jumper is <u>in</u> , the buzzer will be turned off.

Jumper ⑤ needs a little extra attention. If you press a key, with the jumper removed, the **Enigma-E** will show all permutations as and when they happen. It'll show the encoding by each of the wheels. Try some messages and see if it works correctly. This feature has been implemented in case you want to learn more about the internal algorithm used by the Enigma. For normal use, jumper ⑤ should be in place. Please refer to paragraph 3.8 for more information.

3.5 Factory Default settings

At some stage you may end-up in a situation whereby you've messed up all of the settings. If that's the case, you might want to return your **Enigma-E** to the default settings. The factory default settings of the **Enigma-E** are:

Emulation:	M4
Walzenlage:	gamma-215
Ringstellung:	ASOD
Grundstellung:	AMZI
Umkehrwalze:	C

Here's how to return to the factory default settings:

- Turn the **Enigma-E** off by removing the power.
- Press and hold down the **MODE** key.
- Turn the **Enigma-E** on, whilst keeping the **MODE** key depressed.
- Wait until the **Enigma-E** has fully started and release the **MODE** key.

The factory defaults have now been restored and you may save the new situation:

- Press **MODE** again,
- Toggle between **M4 -> M3 -> M4** emulation (the software needs this to notice a change).
- Press the **MODE** key for 3 seconds.
- Press any of the keys **A...H** on the keyboard.

Note:

Please note that, after the factory defaults have been restored, the display will read **FAIL** on startup. This is not a malfunction of your **Enigma-E**, but an indication that it has failed to load any user settings. Once you've stored a setting, as described above, this message will no longer appear.