

July 16th, 1946

Latest Enigma Alterations Winter 1946

NO DISSEMINATION OR DECLASSIFICATION

TO: HUT 6, BLETCHLEY PARK

For the past several months Bletchley Park has been unable to decipher the German Wehrmacht's communications due to an unforeseen heavy alteration to their Enigma machine design.

Luckily, our sources in continental Europe have provided us valuable information about the current version of the device. They have gotten access to a broken machine and analysed its parts, but are unable to ship it to Britain safely as a result of heightened submarine activity.

This new version of the Enigma has no reflector, meaning it can no longer encipher and decipher using the same settings. A toggle switch has been installed which allows the flow of electricity through the rotors and plug-board to now be reversed. However, the plug-board technique is still in effect, thus we may yet be able to rely on the use of 'cribs' for future transmissions. Each rotor besides the first will turn one click after a full rotation of the one prior - it seems as if the use of notches on certain letters is no longer in effect. Intelligence furthermore indicates there are no individual ring settings, only initial positions. In addition, there seems to be no message key at the beginning. The Enemy must have been clued in to certain operators not following standard operating procedures!

The subsequent rotors, indicated by roman numerals, describe the letter substitutions in use by the Germans for this new version of the Enigma:

I	NHRMEWUKBQXAOLVJTPYDIGFZSC
II	TYCXZOSFDWPBRHLKUQJAVEINMG
III	LQGYZRUMSWKOTEVDNFACHXBIJP
IV	RMUDCXFOWTYJZKIEAHSVLPNGBQ
V	CRADPXJUGZQINKLESMOVYHFTWB
VI	SPIQJDZWKCHRFUYXOTLGVBNMAE
VII	JWGEAFLOIZHPVQKMDSBCRYUTNX
VIII	THPBSEQJUNVGLOKZWCRMAYFDIX
IX	SBCUWMEXPQYGJVNDRDKZTOLIHAF
X	KHSWDIGFXVETMYRUCJPLNOBAZQ
XI	ZAJGKUOYDTHLRVFNQSIWBEPXMC
XII	HAVBWPOKNXMICJTSFQDEGURYLZ

Unfortunately, we do not have access to one of these new devices, and our current repertoire of several hundred Bombes are in no way fit to find the settings for a 12-rotor Enigma machine!

We need you decipher the provided message captured earlier this morning within the next 48 hours. You must read all of it and report back any important information found. This information is critical to sustain the war effort against the Jerrys!

Provided is a page of settings with which we believe the message was enciphered.

Good luck and cheerio, cryptologist!