

3 make
reversed
method

Stationary

Index Wagon

* * w.

The control rotors are stepped by
with the paper -

The stepping rotors must be
stepped in proper numerical
sequence

The rotor indicator system
and method of setting up machine
are identical with the
key method of setting up ECM -

These messages can be
read by alternative methods
so far as crypt permits

1. The control rotors are stepped -

2. The stepping rotor must be stepped in the proper numerical sequence -

The Key Indicator system and method of setting up the machine are identical with the Navy method of setting up the ECM.

If 20 messages of 400 or more letters in length are encrypted "in depth" - it is assumed that they can be read by elementary methods -

The over all cycle of the machine has weak points at considerable intervals of variable length and depending upon the rotor arrangements in the alphabet and the index maze settings.

With possession of the machine & rotors it is possible to set up a series of test messages in depth and with knowledge of exactly where the weak points fall it is possible to proceed along the general manner of solution in depth of the ECM. This contingency is not desirable to message cryptanalysts and therefore is to be discouraged.

Resistance to Brute force (another number!)
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If a long crib is obtained
& if there have ^{been a physical compromise} ~~been a physical compromise~~
of the rotors and if ~~we grant the~~
~~enemy~~ ^{is granted} possession of ~~high speed~~ ^{high speed} machinery which
has not yet been designed -

it is possible to trace the
crib through the rotor
rotor arrangements of the
alphabet maze, times the
 26^5 initial alignments of the alphabet
maze, with all the possible
stepping actions resulting therefrom,
and thereby obtain the
rotor arrangements of the
alphabet maze for a single
key's key - This process would
require several centuries & therefore
is not to be feared!