Orange Bombe

A bombe for running 4-closure menus with known stecker e.g. 1 cilli on the stecker given by a key repeat & many Orange menus.

Specification   -usual 36 enigmas

No diagonal boards

For plugging from one enigma to the next we need two types of connection

(i) The normal cross-over connection that we have at present i.e. joining all 26 terminals of the output of one enigma each to its corresponding terminal on the input of the other enigma.
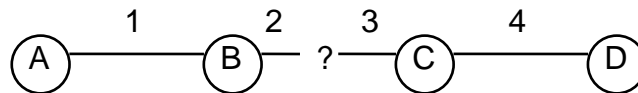
(ii) A special connection joining one particular line of the output of one enigma to one particular line of the input of the next *cf*

Connections of type (i) are standard; those of type (ii) should present no special difficulty

Inputs -   12

Relays -   12 $\neq$

(So that up to 12 enigma jobs can be run at a time).

Example (1)

A   a letter of known stecker (taken here as s.s)

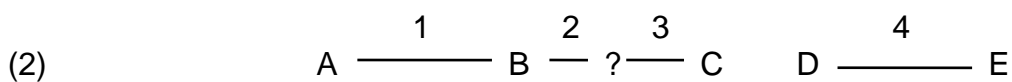?   a letter of unknown stecker

Plugging - Input to a line of enigma 1 input

b line of enigma 1 output to b line of enigma 2 input

Through connection between 2 & 3 (of type (I))   *

c line of 3 output to c line of 4 input

d line of 4 output to the sensing relay

(2)   A ———— B — ?—— C   D ———— E

Plugging as before up to * and then

c line of 3 output to d line of 4 input

d line of 4 output to sensing relay

The sensing relay is, of course, designed to set and stop the machine if current should get through to it.

I regard the above as essential; possible refinements :-

German wired wheels and r.s. cut - out

cf <u>Note on (ii)</u> D.R. suggests that a plug, slightly larger than the plug at the end of a two-ended jack be made with no leads attached but 26 plug - contacts. This is not ,of course a standard part (the only part that isn't). It is then possible, of course, but rather troublesome to do a stecker K.O. on letters of unknown stecker.

$\neq$ Commons. the supply as at present provided is ample.

L. E. C.