

October 31, 1931.

PH:MP

MEMORANDUMMethod of Ascertaining the Notching on the
Mixer Dials

- (1) Set the Mixer to AAAAAAAAAA.
- (2) Remove the top cover so that the movement of the switch operating levers can be seen.
- (3) Prepare a record sheet with 20 columns and a maximum of 105 lines, which should be numbered on the right hand margin.
- (4) Note down by some symbolization in the odd-numbered columns whether the operating levers are in or out, and in the corresponding even-numbered columns the letters which show up in the windows. For the initial setting the operating levers will all be in.
- (5) Throw the machine into cipher and operate the space bar or any other key, noting on the record sheet the positions of the 10 operating levers. Thus, after the first operation of the space bar, all the operating levers will be pushed out and should be so recorded. At the next operation of the space bar a variation will begin to show. After 105 operations of the space bar with the corresponding recording, the record sheet will show the actual notching of all the wheels and the proper relation of the key word letters to that notching.

~~(signed) Hitt~~
Col. Parker Hitt.