

*h. Alternate Overlap Distribution.* Overlap distribution of the following form produces a good key but does not follow strictly the rules for overlap distribution. Lug settings of this nature should be kept to a minimum in key lists.

1	2	3	4	5	6
1	5	12	10	3	2
	└─┐	└─┐		└─┐	
	3	2		1	

3. PURPOSE. The foregoing limitations are imposed to provide the greatest amount of security possible in the shifting of the alphabets, and to add to the difficulties of enemy cryptanalysts engaged in making a mathematical analysis of the messages.

TABLE III. Position of drum bar lugs work sheet.

	1	2	3	4	5	6
1.....			X			X
2.....						X
3.....	X					X
4.....	X				X	
5.....				X	X	
6.....				X		
7.....				X		
8.....				X		
9.....				X		
10.....		X				
11.....		X				
12.....		X				
13.....		X				
14.....		X				
15.....		X				
16.....		X				
17.....		X				
18.....		X				
19.....		X				
20.....		X			X	
21.....		X			X	
22.....					X	
23.....					X	
24.....					X	
25.....					X	
26.....					X	
27.....					X	