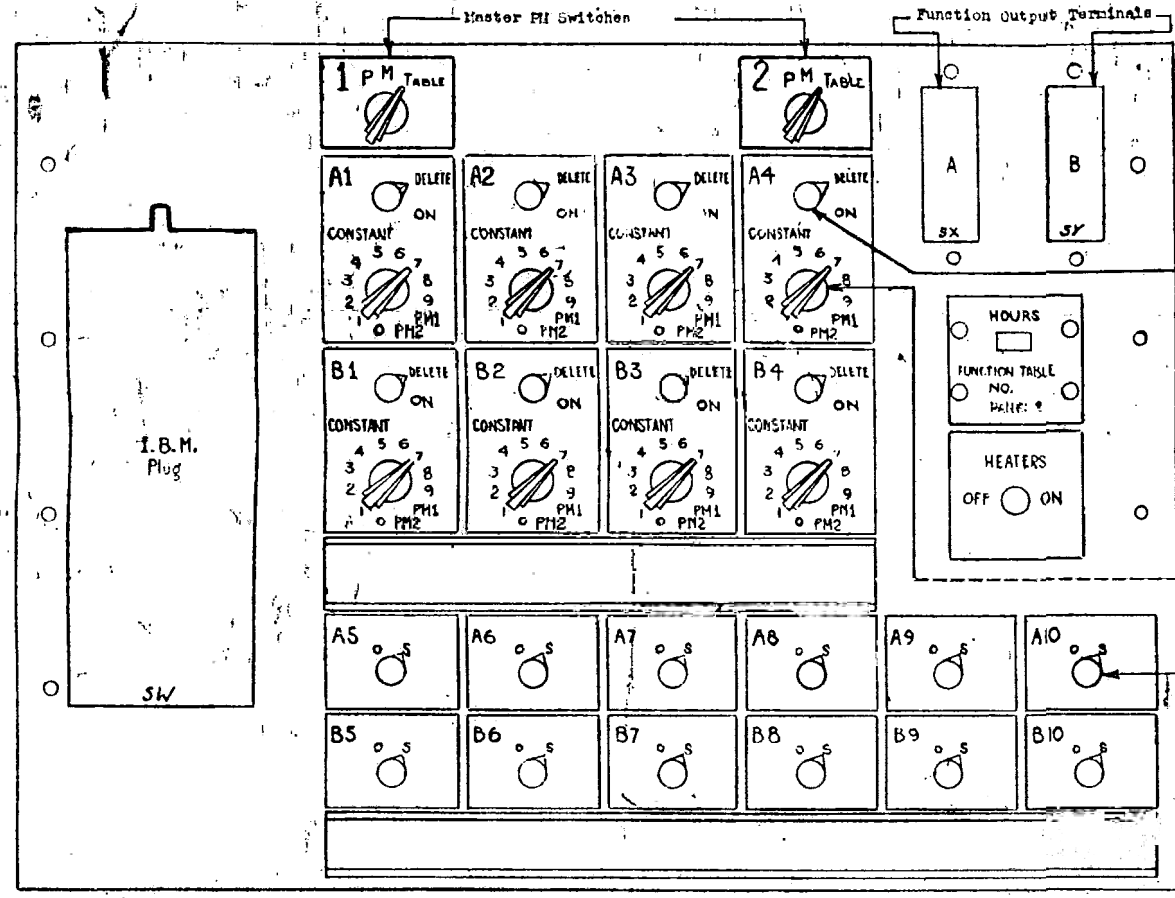


Function output terminals
 The digit pulses representing the value of the function are transmitted from these terminals. A connection table appears below. These terminals are to be connected to the digit trunks (trays) (see PX-7-305) by the digit cables for transmission of the function value to another unit of the EXIAC. It is to be noted that the division of the eight constant digit switches and the 12 function table entries into the groups A and B was an arbitrary one, and by means of special adaptors (PX-7-110) those can be regrouped in any manner.

Table showing connections of function output terminals

Line	Terminal A	Terminal B
12	Ground	Ground
11	PM 1	PM 2
10	Constant digit switch A4	Constant digit switch B4
9	Constant digit switch A5	Constant digit switch B5
8	Constant digit switch A2	Constant digit switch B2
7	Constant digit switch A1	Constant digit switch B1
6	Subtract pulse switch A10	Subtract pulse switch B10
5	Subtract pulse switch A9	Subtract pulse switch B9
4	Subtract pulse switch A8	Subtract pulse switch B8
3	Subtract pulse switch A7	Subtract pulse switch B7
2	Subtract pulse switch A6	Subtract pulse switch B6
1	Subtract pulse switch A5	Subtract pulse switch B5



Digit delete switch

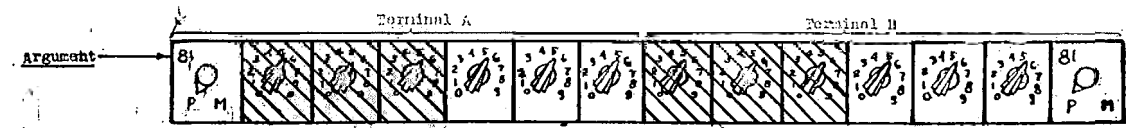
When the digit delete switch is set to delete the constant digit switch is disconnected from its function output terminal, otherwise it is left connected. Digits which are constant for all the values of a function may be set up on the constant digit switches. If these switches are set to PM1 or PM2, the outputs of the corresponding master PM switches are fed through these switches to the output terminals. This feature is used when some of the left hand places of a function with both positive and negative values are zeros; these switches then supply zeros when the transmitted number is positive and nine's when the transmitted number is negative, thus avoiding the use of shifters at the receiving terminals.

Constant digit switch

Subtract pulse switch

On a subtract transmit these switches feed a subtract pulse onto their corresponding function output terminal lines if they are set to S. Thus the switch corresponding to the units digit of the function should be set to S; the others feeding onto the same digit trunk should be set to O.

Sample row of switches on portable function table showing connection to function output terminals.



PM, Line 6 Line 5 Line 4 Line 3 Line 2 Line 1 Line 6 Line 5 Line 4 Line 3, Line 2 Line 1 PM2

For a positive number, set PM to P and set the number on the switches.
 For a negative number, set PM to M and set the complement of the number with respect to 10ⁿ on the switches.

MOORE SCHOOL OF ELECTRICAL ENGINEERING
 UNIVERSITY OF PENNSYLVANIA

FUNCTION TABLE SERIAL NO. 2

MATERIAL: _____

DATE: DEC. 1944

BY: [Signature]