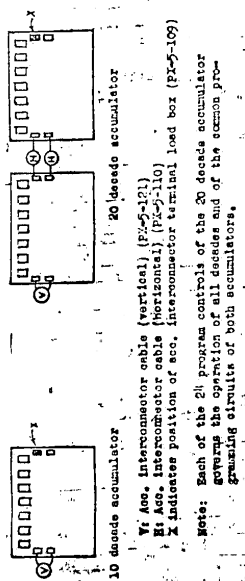


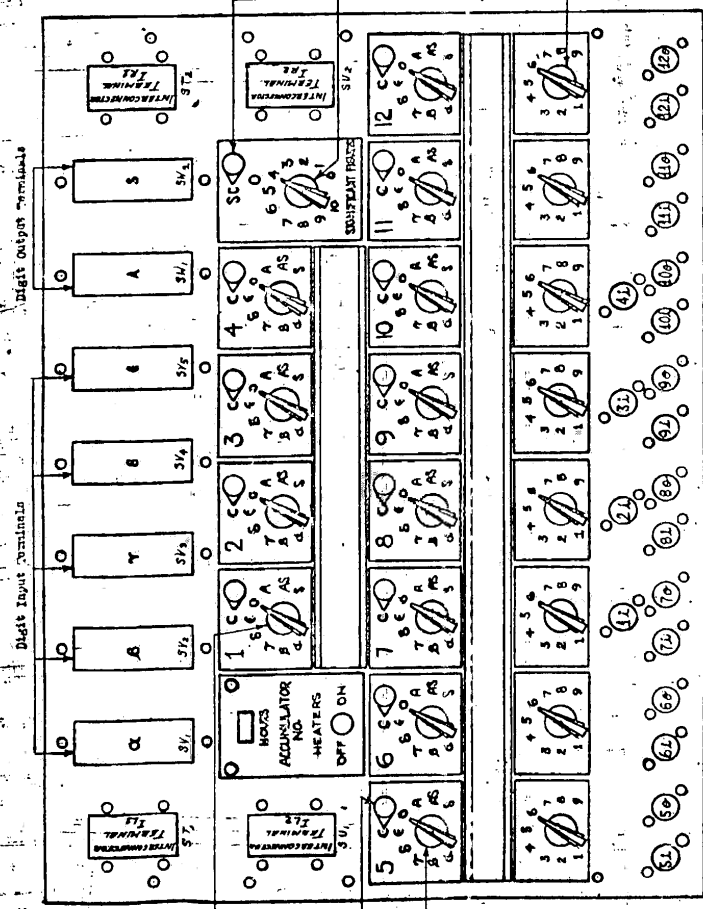
Accumulator Interconnection - Diagram



The digit terminals are to be connected to the digit transmitters (see PX-5-305) by the digit cables for receiving and transmitting numbers. The operation of these terminals is governed by the program controls of the accumulator. (Thus digit pulses transmitted on a trunk to which the C terminal is connected are received only if the accumulator is programmed to receive on C.)

Multiplication by powers of ten may be accomplished by means of shifters (PX-5-104) which transposes the digit wires. Shifters must be placed only in digit input terminals, not in digit output terminals.

Deleters (PX-5-103) are used in connection with the significant digit switches they may be placed only in digit output terminals.



Switches 1-4: Operation switches for non-repeat program controls.

Clear correct switch.

Switches 5-12: Operation switches for repeat program controls.

Terminals 11, 21, 31, 41, 51, 61, 71, 81, 91, 101, 111, 121: Program pulse input terminals for non-repeat program controls 1-4 respectively.

Terminals 51, 61, 71, 81, 91, 101, 111, 121: Program pulse input terminals for repeat program controls 5-12 respectively.

REPEAT PROGRAM CONTROLS 1-4.

These operate for one addition time and exit no program output pulse.

- 1) Program control of input terminal (When stimulated with program pulse causes program control to program operation in accordance with its switch setting.)
- 2) Operation switch
- 3) Clear-correct switch
- 4) Associated receiver (for non bulbs see PX-5-305)

REPEAT PROGRAM CONTROLS 5-12.

These operate for n addition times, where n is the setting of the repeat switch.

- 1) Program control of input terminal (When stimulated with program pulse causes program control to program operation in accordance with its switch setting.)
- 2) Program pulse output terminal (When program pulse at end of nth addition time)
- 3) Operation switch
- 4) Clear-correct switch
- 5) Repeat switch
- 6) Associated transmitter (for non bulbs see PX-5-305)

Selecting clear switch  
If this switch is set to 30 the accumulator is cleared whenever a program pulse is transmitted to one of the selective clear inputs of the initiating unit.

HEATERS: Program switch  
This switch determines which decade (if any) is cleared to 5 instead of 0 whenever the accumulator is cleared and on which line the subtract pulse is transmitted on a subtract transmission. It does not govern the deletion of non-significant digits; this must be done by means of deleters (PX-5-103) (When the switch is set to n, deleter number n should be used, etc.)  
If the switch is set to n, decade 10-n (counting from the right) is cleared to 5, and the subtract pulse is transmitted on digit line 11-n.  
When a 30 decade accumulator is wired, the two significant figures are cleared to 5, and the following:  
10, then 9 or less significant figures are deleted, the left hand switch is set to the number desired and the right hand switch to 10.  
11, then 9 or less significant figures are deleted, the left hand switch is set to 10 and the right hand switch set so that the sum of the two switch readings equals the number of significant figures desired.

REPEAT SWITCHES FOR REPEAT PROGRAM CONTROLS 5-12  
Each switch governs the number of addition times its repeat program control operates.

Operation switches and clear-correct switches  
These operate together in the following manner:

Operation switch setting	Operation programmed by operation switch	Operation programmed by clear-correct switch
C	Receive on C digit input terminal	A correct pulse (an internally reset 1 pulse) is placed in the write decade at each addition time.
A	Receive on A digit input terminal	
B	Receive on B digit input terminal	
Y	Receive on Y digit input terminal	
Z	Receive on Z digit input terminal	
0	Nothing	
A	Transmit on add digit output terminal	The accumulator is cleared to the end of the addition time of the program.
AB	Transmit on both add and subtract digit	
B	Transmit on subtract digit output terminal	

MOORE SCHOOL OF ELECTRICAL ENGINEERING  
UNIVERSITY OF PENNSYLVANIA

ACCUMULATOR FRONT PANEL

MATERIAL FINISH SCALE

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Approved by: [Signature]

PX-5-301  
1/23 PX-5-301A