

Important note concerning the partial products digit output terminals

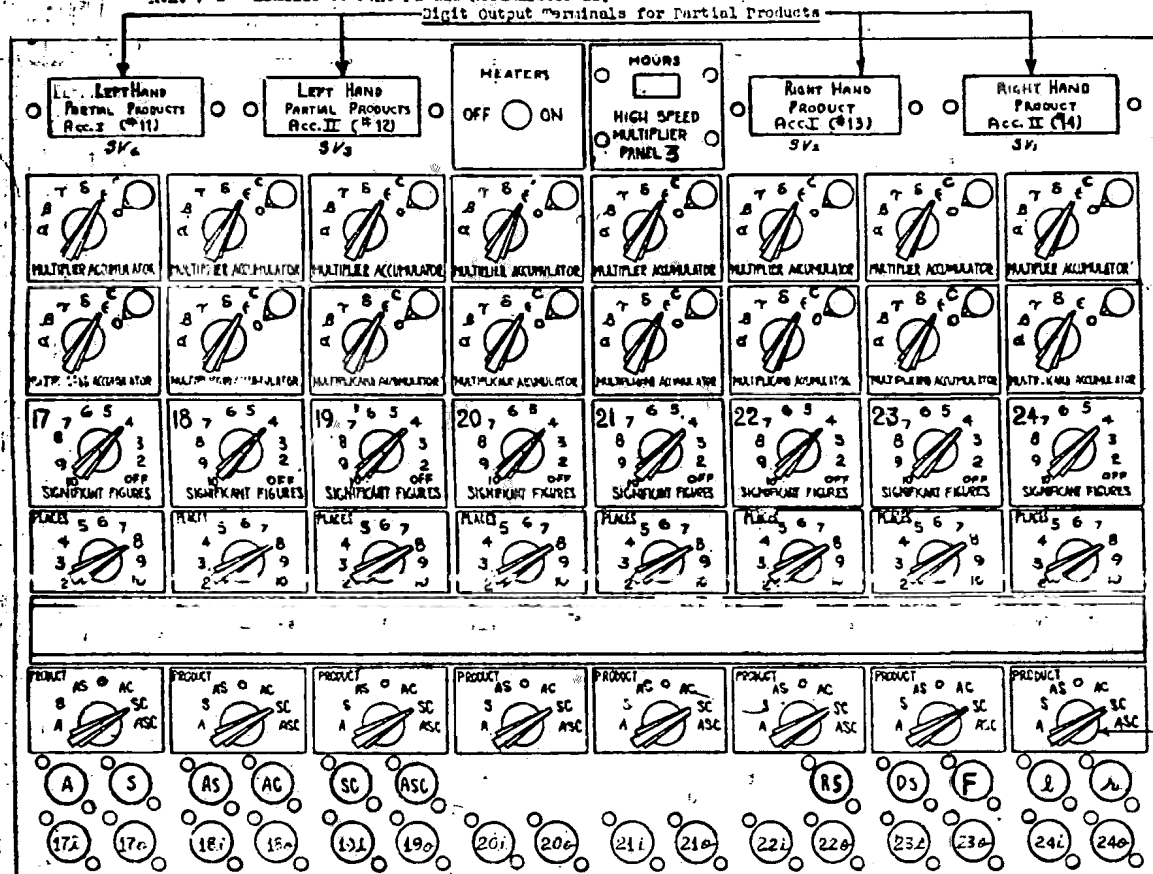
These terminals are to be semi-permanently connected to the α digit input terminals (see note on terminals 1, F) of the product accumulators (#11, 12, 13, 14) by trays or cables not used for any other purpose. No load boxes are to be used. The digit pulses emitted from these terminals are not supplied from transmitters, but from inverter tubes which cannot be connected in parallel with anything else and which have their own resistors. Hence the α digit input terminals of the product accumulators cannot be used for receiving any other numbers.

No shifters or deleters are to be used. Accumulators 11 and 12 and accumulators 13 and 14 are paired when more than eight places is desired in the product.

The load on these outputs must be kept as small as possible. Recommended method of connection is:

- L.H. #1 By special cable to Accumulator 11.
- L.H. #2 By short cable to tray (only one tray), and short cable to Accumulator 12.
- R.H. #1 By special cable to Accumulator 13.
- R.H. #2 Similar to L.H. #2 and Accumulator 12.

See also drawing PX-6-311



Terminals A-ASC
Program output terminals associated respectively with A, S, AS, AC, SC, ASC, on product disposal switch.

Terminals DS, F
Program pulse output terminals for transmitting pulses used in the programming of each multiplication:

DS - A program pulse is emitted at the end of the p+2d addition time if the multiplier is negative. Semi-permanent connections must be established so that this pulse programs the multiplicand acc. to transmit subtract and the right hand product accumulator I (#13) to receive.

DS - A program pulse is emitted at the end of the p+2d addition time if the multiplicand is negative. Semi-permanent connections must be established so that this pulse programs the multiplier acc. (#9) to transmit subtract and the left hand partial products acc. I (#11) to receive.

F - A program pulse is emitted at the end of the p+3d addition time. Semi-permanent connections must be established so that this pulse programs the left hand partial products accumulator (#11, 12) to transmit add (without shifting) and clear and programs the right hand product accumulator (#13, 14) to receive, or vice-versa.

Terminals 1, F
Receiver cathode follower buffer output lines. These are to be used to program the product acc. to receive the partial products. The following semi-permanent connections are to be established.

1. 1 is to be connected via acc. interconnector cable (Mult.) (PX-5-131) into the interconnector terminals I₁ and I₂ of left-hand partial products acc. I (#11). The α digit input terminal is to be used to receive this partial products.
2. F is to be similarly connected into right-hand product accumulator I (#13). Likewise, the α digit input terminal is to be used to receive the partial products.

Product disposal switch

This switch operates in conjunction with program pulse output terminals A through ASC and provides program facilities for the disposal of all 24 products using at most 6 program controls of the right-hand product accumulator (#13, 14).

At the end of the p+4th addition time (i.e., at the same time as the program output pulse is emitted) a program pulse is emitted from A-ASC according to the setting of the product disposal switch of the program control being used.

Semi-permanent connections may be established by connecting A through ASC to six program pulse inputs of the right-hand product acc. (#13, 14) and setting the corresponding operation switches and clear-correct switches to transmit on A-ASC. The program control output pulse may be used to stimulate that unit of the ENIAC which is to receive the transmitted product.

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| HIGH-SPEED MULTIPLIER FRONT PANEL-NO.3 | | |
| MATERIAL | FINISH | SCALE |
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| 1 | | PX-6-304 |