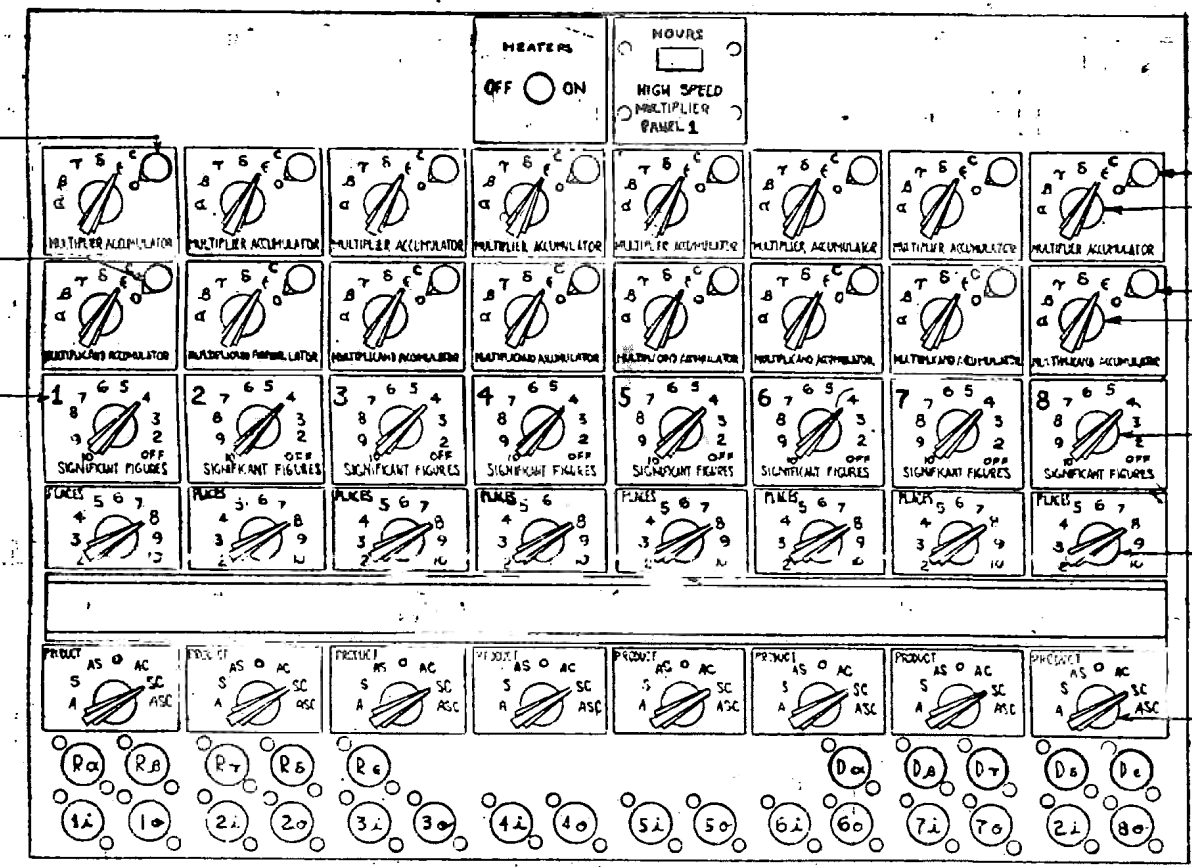


Multiplier Acc. Clear Switch

Multiplicand Acc. Clear Switch

Number of the program control to which the switches in a given column belong and to which the corresponding numbered program input and program output terminals belong.



Multiplier Accumulator Clear Switch

This governs the clearing of the multiplier acc. by means of the static cable running into the multiplier acc. PW plug-in unit. If this switch is set on C, the multiplier is cleared during the last addition time of the multiplication.

Multiplier Accumulator Receive Switch

Whenever a program pulse is received on a program input terminal of a given program control, a pulse is immediately emitted from R_α-R_ε, or not at all, accordingly as the multiplier acc. function switch of that program control is set on α-β, or 0 respectively. These pulses may be used to cause the multiplier acc. to receive the multiplier during the next addition time by having them transmitted to properly set multiplier acc. program controls, i.e. by connecting R_α-R_ε to five program pulse inputs of the multiplier acc. (#9) and setting the corresponding operation switches to receive on α-ε respectively.

It is to be noted that all 24 multiplier program controls cause pulses to be emitted on R_α-R_ε so that only five multiplier acc. program controls are required to receive all 24 multipliers.

Multiplicand Accumulator Clear Switch

This operates the same as the multiplier acc. clear switch except that it governs the clearing of the multiplicand acc.

Multiplicand Accumulator Receive Switch

This functions the same as the multiplier acc. receive switch except that it gives out program pulses on terminals D_α to D_ε and may be used with the multiplicand acc. (#10).

Significant Figure Switch

Multiplier Places Switch

Product Disposal Switch

Terminals 11, 21, 241
Program pulse input terminals for program controls 1-24 respectively.

Terminals 10, 20, 240
Program pulse output terminals for program controls 1-24 respectively.

Terminals R_α - R_ε
Program pulse output terminals associated respectively with α, β, γ, δ, ε on the 24 multiplier accumulator function switches.

Terminals D_α - D_ε
Program pulse output terminals associated respectively with α, β, γ, δ, ε on the 24 multiplicand accumulator function switches.

There are 24 multiplier program controls, each consisting of

- 1) Program pulse input terminal (when stimulated with program pulse causes program control to program multiplication in accordance with its switch settings).
- 2) Program pulse output terminal (emits program pulse on completion of multiplication).
- 3) Multiplier acc. receive switch
- 4) Multiplier acc. clear switch
- 5) Multiplicand acc. receive switch
- 6) Multiplicand acc. clear switch
- 7) Significant figures switch
- 8) Places switch
- 9) Product disposal switch
- 10) Associated transceiver

Described on this drawing

Described on PX-6-303

Described on PX-6-304

For neon bulbs see PX-6-309

The high-speed multiplier operates in conjunction with four or six associated accumulators. These are the multiplier acc. (#3), the multiplicand acc. (#10), the left-hand partial products acc. (#11 and perhaps #12) and the right-hand products acc. (#23 and perhaps #14). For a diagram showing the interconnections of the high-speed multiplier with its associated accumulators see PX-6-311.

MOORE SCHOOL OF ELECTRICAL ENGINEERING UNIVERSITY OF PENNSYLVANIA		
HIGH-SPEED MULTIPLIER FRONT PANEL NO.1		
MATERIAL	FINISH	SCALE
Drawn By: JEDELSKIK DEC 1941	Checked By: awb 11/6/45	Approved By: PX-6-302