

May 19, 1959

MEMORANDUM TO: 1401 File
SUBJECT: Design for Release

We presently are planning to release two sets of wiring lists during the month of August, 1959:

Set #1 - Model I (basic) Machine.

We are defining a Model I machine as a "two-cube" machine, that is, a "minimum" machine that can only handle a certain few options. We will call these options "Class A" options.

"Class A" options are those which will be wired in all machines, and are made available to the customer by plugging in cards, either at the factory or in the field.

A wire list for a Model I machine, then, includes the basic circuits plus all Class A options.

Tentatively, the Class A options are as follows:

- Additional 32 Print Positions
- Additional 6 Sense Switches
- Additional 600 positions of Storage
- Additional 2000 positions of Storage*
- Feed/Punch Release
- Expanded Print Edit Facility
- ~~"Auto-Test"~~
- Full Carriage Channel Test*

Set #2 - Model II Machine.

We are defining a Model II machine as a "four-cube" machine. It is functionally identical to the Model I, but differs physically in that a considerable amount of additional drive is provided in order to power all of the anticipated options that can be packed into four cubes.

We will call all of these additional options "Class B" options.

Because a Model II is functionally identical to Model I, Class A options are available here in the same manner.

*Perhaps but not firm at this time.

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Those logic diagrams and wire lists for the basic Model I machine will be designated by the title "BA 1401". They will be processed thru Designation under DVL 2000 series numbers.

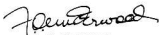
Those logic diagrams and wire lists that are for the Model II machine will be designated by the title "OF 1401", and processed thru Designation under DVL 3000 series numbers.

There are certain gates that are no different for either Model I or Model II machines, such as the Print Magnet driver gate. These will be carried thru as Model I circuits.

Those logic diagrams and wire lists that provide for the attachment of other systems (such as 7070) to the 1401 will be designated by the title "AT 1401" and processed thru Designation under DVL 4000 series numbers.

The Class B options to be designed, released during August, and included in the Optional features model are as follows:

Expanded Arithmetic
(Mult-Divide-three address)
Hi-Lo-Eq Alpha comparing
Chinese binary
Address-Stop Mode
Indexing
Store I address and branch
Print Buffer
Read/Punch/Read
Dual Read Hoppers



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