June 2, 1964

MEMORANDUM TO: Users of 1401 Autocoder System

SUBJECT: 1401 Autocoder System, Program #1401-AU-037,
                 Version 3, Modification Level 8

This modification letter has been prepared for distribution to all
users of the 1401 Autocoder System and contains changes to
Version 3, Modification Level 7 of that system. These change cards,
enclosed, listed and identified below (Attachment #1) are to be
inserted in the system deck as follows:

Card Number (Cols. 72-75)   Place between cards in system deck
-------------------------   ----------------------------------
   C088 – C090   175 – 176
   C091 – C095   211 – 212
   C096   C062 – 618
   C097   873 – 874
   C098   1015 – 1016
   C099 – C100   1047 – 1048

Cards C088 – C090 correct the error condition which occurs in a special
case of deleting library statements. That is, if deletion of two statements
in an unknown macro is tried, it will at times be incorrect.

Cards C091 - C095 correct the problem of punching an INSER card when
printing a library routine after just having punched a routine.

Card C096 corrects the problem of a tape error when reading Pass 3.

Card C097 - C099 corrects the problem of Pass 5 reading long.

The following minor restrictions or limitations are presently in effect
with regard to the use of 1401 Autocoder:

   1.   Comments cards should not follow an "ENT" statement as page
        overflow will be incorrect.

   2.   CALL or INCLD should not be punched in columns 16-19 or 16-20
        respectively of a comments card.

   3.   If an adcon is used within a suffixed area, there should also be a
        LTORG in that suffixed area. If not, the adcon will be defined
        with an address in the last suffix area in which it appeared.

   4.   Alterations cannot be made to sequence numbers greater than 9999.

The following items should be noted when using the 1401 Autocoder system.

   1.   The label of an ORG statement immediately following an EQU*+1
        will be assigned an address one greater than the address assigned
        the equate.

   2.   The highest core position may be exceeded without a flag if the
        operation code of the instruction falls within core, but the remainder
        goes over core.

   3.   Multiply defined tags will not be put out when iterations are made.

We appreciate your cooperation in making these changes. A list of the
material distributed with this letter follows:

```
Item No.        Contents
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  1             13 Cards (designated as C088, C089, etc.)

  2             Attachment #1 - listing of change cards

  3             Attachment #2 - symbolic changes to
                Autocoder listing
```

Initial requests for this system which are filled after the date of this
letter will not include the cards itemized above, as there cards are
included in the system deck as corrections. However, the Autocoder
listing does not include these corrections and should be corrected by the
user by referring to attachment #2. Any discrepancy between the material
received and the above list, as well as any errors in card reproduction,
should be directed to the attention of the Manager of the Program Information
Department, IBM, 112 East Post Road, White Plains, New York.

This program has been registered by system tape and is listed under the
name and address shown on your order. Program modifications as and
when made by IBM will be sent to this same address. Should there be a
change in your system type or in your address, or should you no longer
need maintenance of this particular program, we would appreciate your
notifying your IBM branch office.

Continued reporting of any difficulties encountered in using 1401 Autocoder
will be appreciated.

PROGRAM INFORMATION DEPARTMENT

Attachments

cc: Branch Offices (No attachments sent with carbons)

Attachment #1 - Listing of Change Cards

1401 Autocoder System, Program #1401-AU-037 Version 3, Modification Level 8

BC03S   L005W11,040040,040040,0400401040C0883715L

BC15N   L005W75,W75040,040040,0400401040C0893715L

VX30C361BW12BC28S)C36BW76,C36BX30 L034C36,C11C15,C20C24,C28C321040C0903715L

B?44   L004!72,040040,040040,0400401040C0913716L

M?10R02M?64N80BN63!73"   L022?65,?51?58,?62?65,0400401040C0923716L

,?65   L004!03,040040,040040,0400401040C0933716L

L?65   L004!07,040040,040040,0400401040C0943716L

L?65   L004J58,040040,040040,0400401040C0953716L

B221L   L005R36,040040,040040,0400401040C0963733L

MH44Z24,Z24BM00 "   L017804,795799,803804,0400401040C0973746L

)S54   L004Y48,040040,040040,0400401040C0983761L

)Z24B997 "   L010S54,S49S53,S54040,0400401040C0993762L

BS45   L004908,040040,040040,0400401040C1003762L

Attachment #2 - Symbolic Listing Changes

1401 Autocoder System, Program #1401-AU-037 Version 3, Modification Level 8

```
        Pass/
Action  Page#   Seq.   Pg.   Lin.   Label   Op    Operands
------  -----   ---    ---   ---    -----   --    --------
Change  1/17            7     07                   BE    EXIT1
Change  1/17            7     21                   B     EXIT2
Add     1/24           10     681    EXIT1   BW    FOUND,FNDSW
Add     1/24           10     682            B     SERCH&28
Add     1/24           10     683    EXIT2   BE    *&9
Add     1/24           10     684            CW    FNDSW
Add     1/24           10     685            B     HEADR&2
Add     1/24           10     686            SW    FNDSW
Add     1/24           10     687            B     FOUND
Add     1/24           10     688    FNDSW   DC    #1
Add     1/28           10     991            MLC   @ @,OPSAV
Change  3/21            8     42             BER   221
Change  4/54           20     87             MLC   GRPMK3,PASSC1-1
Add     4/54           20     871            SW    PASSC1-1
Add     4/54           20     872            B     PASSC2
Change  6/27           12     64     EOJOB   CW    GRPMK3-1,ENDOFC
```