```
MEMORANDUM TO: Users of 1401 Autocoder System
SUBJECT: 1401 Autocoder System, Program #1401-AU-037,
    Version 3, Modification Level 4
```

This modification letter has been prepared for distribution to all
users of the 1401 Autocoder System and contains changes to
Version 3, Modification Level 3 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
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    ------------------------------------
    C062
    C063 - C067
    C060 - 618
    C061 - 636
    C068
    C069 - C072
    C073 - C075 1079 - 1080
    C079 - C080
    1243 - 1233
```

    Card C062 corrects the d - modifier on Write Disk Check instructions. The
    processor will now give an \(R\) d-modifier rather than the previous \(W\)
    d - modifier
    Cards C063 to C065 and C073 to C080 restores the "chain" ability connected with
    blank op codes which was inherent in the processor previous to modification level 3 .
    With these change cards source statements with blank op codes will be flagged as bad
    op codes and the op code of the previous instruction will be inserted as well. Hence
    customers who made use of this "chain" ability previously will be able to reassemble
    without changing many cards in their source decks.
    Cards C066 to C067 correct an error where the CHAIN Macro following a B M
    instruction gave two character instructions rather than the desired one character instruction.
    ```
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Card C068 revises an error routine to permit completion of assembly when an erroneously punched literal card was encountered. Previously when the processor encountered a source statement with a long literal and no comma separating the operands it went into an unending loop, or came to a process error halt.

Cards C069 - C072 correct a bad modify aaddress statement within the processor. This will now permit a valid noise record test in pass 5 of the processor.

Note: Please check your system deck to see if change cards C034, C035 and C036 have been removed according to the instructions of the memorandum dated May 2, 1962. These cards appear in the systems between cards 820 and 821. If they are not removed some literals will not be correctly generated.

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

1. 3 and 4 character alphameric literals which are identical except for a double @ (i.e., @XXX@ and @XXX@@) can not be generated correctly by the processor.
2. When reassembling with alterations no instructions can be changed immediately after the last GENIO instruction.
3. When reassembling with alterations in IOCS programs, regeneration of IOCS can not be correctly completed if a previous reassembly has altered within the GENIO instructions.

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

Item No. Contents
119 cards (designated as C062, C063, C064, 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.

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

GP Applied Programming

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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 4 |  |
| F3RM2 WDC | L009C40,040040,040040,0400401040C0623733L |
| BS11 | L004/70,040040,040040,0400401040C0633734L |
| B013A68PB013A68JB013A68XCA69115H099 | L035S21, /95S03,S11S18,0400401040C0643734L |
| C099A78B013SMS45IIIBO36* | L024S45,S29S34,S41S45,0400401040C0653734L |
| BS46R52RBS46R52S | L016840,833040,040040,0400401040C0663734L |
| B848R82\&MR78R82YS53R82B848 | L028S73, S54S61,S68S72,S730401040C0673734L |
| N | L001U20,040040,040040,0400401040C0683741L |
| ) R02 | L004M64,040040,040040,0400401040C0693751L |
| \#Q97Q94 | L007P10,040040,040040,0400401040C0703751L |
| MR01L99 | L007Q29,040040,040040,0400401040C0713751L |
| 013000I" | L008R02, Q98R02,040040,0400401040C0723751L |
| LP 75199 | L007K93,040040,040040,0400401040C0733771L |
| BW37H43*BB/56 | L014P99,P94P95,P99040,0400401040C0743771L |
| B314 | L004M02,040040,040040,0400401040C0753771L |
| B183 | L004W36,040040,040040,0400401040C0763773L |
| LP98195LLB201 | L014327,321322,323327,0400401040C0773773L |
| Y198005 | L007'91, 040040, 040040,0400401040C0783773L |
| Y199G41 | L007P57,040040,040040,0400401040C0793774L |
| Y196H16 | L007R44,040040,040040,0400401040C0803774L |

```
Attachment #2 - Symbolic Listing Changes
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1401 Autocoder System, Program \#1401-AU-037
Version 3, Modification Level 4
Pass/
Action Page\# Seq. Pg. Lin. Label Op Operands
Change $3 / 8$
$\begin{array}{lll}3 / 8 & 409 & 3 \\ 3 / 10 & 77\end{array}$
Change $3 / 1041$
Delete $3 / 104413$
$3 / 10 \quad 4 \quad 414$
$\begin{array}{lll}3 / 10 & 4 & 415\end{array}$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
$3 / 10$
3/10
$3 / 10$
$3 / 10$
$408 \quad 3 \quad 76$
Add


```
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MEMORANDUM TO: Users of 1401 Autocoder System

```
SUBJECT: Addenda to Program Number 1401-AU-037,
    Version 3, Modification Level 4
```

The following information is necessary to complete the documentation for
Modification Level 4:
Change Cards C076 through $C 078$ are to be placed
in the system deck between cards 1181 and 1182.
We appreciate your cooperation in making these changes.
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.
Continued reporting of any difficulties encountered in using 1401
Autocoder will be appreciated.

