

	Informationsverarbeitung Programmiersprache COBOL Berichtigungen und Klarstellungen zu COBOL (ISO 1989:1985/Amd. 2:1994) Englische Fassung EN 21989:1989/A2:1995 Änderung A2	DIN 66028/A2
Diese Norm enthält die Internationale Norm ISO 1989 Amd. 2 ICS 35.060 Änderung von DIN 66028:1986-08 Deskriptoren: Informationsverarbeitung, Programmiersprache, COBOL, Datenverarbeitung, Anforderung Information processing – Programming language COBOL – Corrections and clarifications for COBOL (ISO 1989:1985/Amd. 2:1994); English version EN 21989:1989/A2:1995; Amendment A2 Traitement de l'information – Langage de programmation COBOL – Corrections et clarifications pour le COBOL (ISO 1989:1985/Amd. 2:1994); Version anglaise EN 21989:1989/A2:1995; Amendement A2 Die Europäische Norm EN 21989:1989/A2:1995 hat den Status einer Deutschen Norm. Nationales Vorwort Die vorliegende Änderung A2 ergänzt die gültige Norm über die Programmiersprache COBOL, siehe DIN 66028:1986-08, und enthält Berichtigungen und Klarstellungen zu COBOL. Fortsetzung 2 Seiten EN sowie 65 Seiten ISO-Original Normenausschuß Informationsverarbeitungssysteme (NI) im DIN Deutsches Institut für Normung e.V.		

ICS 35.060

Deskriptoren: Anforderung, COBOL, Datenverarbeitung, Informationsverarbeitung, Programmiersprache

Deutsche Fassung

Programmiersprachen

COBOL

**Berichtigungen und Klarstellungen zu COBOL
(ISO 1989 : 1985, Änderung 2 : 1994)**

Programming languages – COBOL – Correction and clarification amendment for COBOL (ISO 1989 : 1985, Amendment 2 : 1994)

Langages de programmation – COBOL – Amendement de correction et de clarification pour le COBOL (ISO 1989 : 1985, Amendement 2 : 1994)

Diese Änderung 2 modifiziert die Europäische Norm EN ISO 1989 : 1989.

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CEN

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Vorwort

Diese Europäische Norm wurde durch CEN von der Arbeit des Internationalen Technischen Komitees ISO/IEC JTC 1, "Information Technology", übernommen.

Diese Europäische Norm muß den Status einer nationalen Norm erhalten, entweder durch Veröffentlichung eines identischen Textes oder durch Anerkennung bis Oktober 1995, und etwaige entgegenstehende nationale Normen müssen bis Oktober 1995 zurückgezogen werden.

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Anerkennungsnotiz

Der Text der Internationalen Norm ISO 1989 : 1985, Änderung 2 : 1994 wurde von CEN ohne jegliche Änderung als Europäische Norm angenommen.

Preface

This amendment, the second to the document entitled *American National Standard for Information Systems – Programming Language – COBOL*, ANSI X3.23-1985, ISO 1989:1985, presents correction of errors and clarification of ambiguities in *Programming Language COBOL*.

The first amendment to ANSI X3.23-1985, ISO 1989:1985, entitled, *American National Standard for Information Systems – Programming Language – Intrinsic Function Module for COBOL*, ANSI X3.23a-1989 and *Programming Languages – COBOL – Amendment 1: Intrinsic Function Module*, ISO 1989/Amendment 1, must be applied to ANSI X3.23-1985 (or ISO 1989:1985) before applying the corrections identified in this second amendment.

Within this document:

- “First Standard COBOL” refers to ANSI X3.23-1968, ISO R-1989:1972.
- “Second Standard COBOL” refers to ANSI X3.23-1974, ISO 1989:1978, which superseded first Standard COBOL.
- “Third Standard COBOL” refers to ANSI COBOL X3.23-1985, ISO 1989:1985, which superseded second Standard COBOL.
- Both “Amendment 1” and “Intrinsic Function Amendment” refer to ANSI X3.23a-1989, ISO 1989:1985/Amd.1:1992.
- Both “Amendment 2” and “Correction Amendment” refer to ANSI X3.23b-1993, ISO 1989:1985/Amd.2:1993.
- “Amended third Standard COBOL” refers to third Standard COBOL updated first with the content of amendment 1 and then with the content of amendment 2. The terms “Standard COBOL” and “COBOL” also refer to amended third Standard COBOL.

Programming Language – Correction Amendment for COBOL

AMENDMENT 2

The changes in the column entitled *Description of Change* within this amendment are to be applied to ANSI X3.23-1985 (or ISO 1989:1985), updated with ANSI X3.23a-1989 (or ISO 1989:1985/Amd.1:1992). The beginning page number for the change is identified in the column entitled **Page No.** :

- without parentheses for a page in ANSI X3.23-1985 (or ISO 1989:1985);
- within parentheses for a page in ANSI X3.23a-1989 (or ISO 1989:1985/Amd.1:1992).

When the column entitled **Page No.** lists both a page number without parentheses and a page number within parentheses, the text in ANSI X3.23-1985 (or ISO 1989:1985) must be updated by ANSI X3.23a-1989 (or ISO 1989:1985/Amd.1:1992) before applying the change specified in this amendment. When the column entitled **Page No.** lists only a page number within parentheses, then new text from ANSI X3.23a-1989 (or ISO 1989:1985/Amd.1:1992) should first be inserted into the COBOL Standard and then updated as directed within this document. Within this amendment, the changes must be made in the order listed. Shading is used in this amendment to indicate specifications unique to level 2 (boxing was used for this purpose in third Standard COBOL).

Page No.

Description of Change

Preface Replace with preface from page iv of this document.

x Add the following after the last entry for the Segmentation module in the table of contents:

SECTION A: INTRINSIC FUNCTION MODULE

Chapter 1: Introduction to the Intrinsic Function Module

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1.2 Function-Name	A-27

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Chapter 2: General Description

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Page No.	Description of Change
xi (A-1)	Add the following after the entry for 3.5: 3.6 American National Standard COBOL 1985, Amendment 2 XVII-13
xi (A-1)	Replace the entry for 4.4 with the following: 4.4 ISO 1989:1985/Amd.1:1992 XVII-15 4.5 ISO 1989:1985/Amd.2:1994 XVII-15
xii	Replace the entries for 2.1 and 2.2 with the following: 2.1 Substantive Changes Not Affecting Existing Programs (Third Standard COBOL) XVII-42 2.1A Substantive Changes Not Affecting Existing Programs (Intrinsic Function Amendment) XVII-50 2.1B Substantive Changes Not Affecting Existing Programs (Correction Amendment) XVII-50 2.2 Substantive Changes Potentially Affecting Existing Programs (Third Standard COBOL) XVII-51 2.2A Substantive Changes Potentially Affecting Existing Programs (Intrinsic Function Amendment) XVII-80 2.2B Substantive Changes Potentially Affecting Existing Programs (Correction Amendment) XVII-80
I-8	Paragraph 1.5.2.5.2 entitled <i>Extension Language Elements</i> , last paragraph, add the following as the new last sentence: This warning mechanism is required to flag only extensions that are syntactically distinguishable.
I-8	Paragraph 1.5.2.5.3 entitled <i>Reserved Words</i> , change to read: An implementation of Standard COBOL must recognize as reserved words all of the COBOL reserved words occurring in the specifications of the seven required modules and the five optional modules. (See page IV-45, COBOL Reserved Words.)
I-12 (A-4)	Change the entry for "Reference-modifier" to "Reference modification".
I-42 (A-6)	Change the entry for "Reference-modifier" to "Reference modification".

Page No.	Description of Change
II-1	Paragraph 2.1 entitled <i>File Attributes</i> , change a portion of the last sentence from "sequence of the keys for indexed files, the blocking factor, the padding character" to "sequence of the keys for indexed files, the minimum and maximum physical record size, the padding character".
II-14	Paragraph 4.2 entitled <i>Initial Values of Tables</i> , change numbered item 3 at the top of page II-14 to read: (3) Every occurrence of an element in a table can be assigned the same initial value using the VALUE clause.
II-35 (A-7)	Paragraph 8 entitled <i>Intrinsic Function Facility</i> , second paragraph, replace the last sentence with the following: If, at the time a function is referenced, the arguments specified for that reference do not have values that comply with the specified constraints, then the result of such a reference is undefined.
III-1	Paragraph 1 entitled <i>Introduction</i> , second paragraph, change the last sentence to read: "Complete specifications for elements defined in this section can be located in Sections IV through XVI and Section A of this document."
III-4	Definition of COBOL Character Set, NOTE 2, first sentence, change "they may be used in character-strings." to "they may be used in character-strings and text words."
III-10	Definition of Fixed File Attributes, sixth line, change "the blocking factor" to "the minimum and maximum physical record size".
III-12 (A-9)	Definition of Integer, item 3, change to read: "An integer function."
III-12 (A-8)	Definition of Integer Function, change "A function whose category is numeric ..." to "A function whose class and category are numeric ...".
III-25	Definition of Text Word, item 3, add the following as a new last sentence: One or both of the bounding separators may be a pseudo-text delimiter.

Page No.	Description of Change
IV-4 (A-9)	Paragraph 4.2.1 entitled <i>Separators</i> , rule 4, change second sentence from: "Parentheses may appear only ..." to "Except in pseudo-text, parentheses may appear only ...".
IV-5	Paragraph 4.2.1 entitled <i>Separators</i>, change rule 5 to read: The punctuation character quotation mark is a separator. An opening quotation mark must be immediately preceded by a space, left parenthesis, or opening pseudo-text delimiter. A closing quotation mark, when paired with an opening quotation mark, must be immediately followed by one of the separators space, comma, semicolon, period, right parenthesis, or closing pseudo-text delimiter. Separators immediately preceding the opening quotation mark are not part of the opening separator quotation mark. Separators immediately following the closing quotation mark are not part of the closing separator quotation mark.
IV-5 (A-9)	Paragraph 4.2.2.1, entitled <i>COBOL Words</i>, replace the paragraph with the following: A COBOL word is a character-string of not more than 30 characters which forms a user-defined word, a system-name, a reserved word, or a function-name. Each character of a COBOL word that is not a special character word is selected from the set of letters, digits, and the hyphen; the hyphen may not appear as the first or last character in such words. Each lowercase letter is considered to be equivalent to its corresponding uppercase letter. Within a source program the following apply: (1) For all COBOL words excluding the words LENGTH, RANDOM, and SUM: a. Reserved words form disjoint sets with user-defined words, system-names, and function-names. b. Function-names, system-names, and user-defined words form intersecting sets. The same COBOL word may be used as a function-name, as a system-name, and as a user-defined word. The classification of a specific occurrence of such COBOL words is determined by the context of the clause or phrase in which it occurs.

Page No.	Description of Change
(2) For the COBOL words LENGTH, RANDOM, and SUM:	
a. The reserved words LENGTH, RANDOM, and SUM form an identical set with the function-names LENGTH, RANDOM, and SUM. The same COBOL word LENGTH, RANDOM, or SUM may be used as a function-name and as a reserved word. The classification of a specific occurrence of such COBOL words is determined by the context in which it occurs.	
b. The COBOL words LENGTH, RANDOM, and SUM form disjoint sets with user-defined words and system-names. The COBOL words LENGTH, RANDOM, and SUM may not be used as a system-name or as a user-defined word regardless of context.	
IV-9 (A-10)	Paragraph 4.2.2.1.4 entitled <i>Function-Names</i> , change the second sentence to read: "With the exception of the words LENGTH, RANDOM, and SUM, a word that is a function-name may appear in different contexts in a program as either a system-name or as a user-defined word."
IV-11	Paragraph 4.2.2.2.3 entitled <i>Figurative Constant Values</i> , second occurrence of a paragraph numbered (1), penultimate sentence, change in part from: "... until it is equal to the number of character positions in the associated data item." to "... until the number of character positions remaining is equal either to 1 or to the number of character positions in the associated data item, whichever is greater."
IV-22 (A-11)	Paragraph 4.3.8.3.1 change the title from <i>Purpose of a Function-Identifier</i> to <i>Function</i> .
IV-22 (A-12)	Paragraph 4.3.8.4, change the title from <i>Reference-Modifier</i> to <i>Reference Modification</i> .
IV-27	Paragraph 4.4.4 entitled <i>Explicit and Implicit Scope Terminators</i> , last paragraph, item 2, delete the last sentence that reads: "Examples of such phrases are ELSE, WHEN, NOT AT END, etc."

Page No.	Description of Change
IV-38	Paragraph 6.4.2.2.1 entitled <i>Definition of Compiler Directing Statement</i> , second sentence, change to read: "The compiler directing verbs are COPY, ENTER, REPLACE, and USE (see page XII-2, The COPY Statement; page VI-83, The ENTER Statement; page XII-6, The REPLACE Statement; and the USE statement on pages VII-50, VIII-35, IX-39, XIII-76, XIII-78, and XV-5).".
IV-43	Paragraph 7.2.5 entitled <i>Pseudo-Text</i> , change a portion of the first sentence from "The character-strings and separators comprising" to "The text words and the separator space comprising".
IV-45 (A-13)	Paragraph 8 entitled <i>COBOL Reserved Words</i> , change the first paragraph to read: "The following is a list of COBOL reserved words for the seven required modules and the five optional modules."
IV-45	Paragraph 8 entitled <i>COBOL Reserved Words</i> , add the word FUNCTION between the words FROM and GENERATE in the list of COBOL reserved words.
IV-46 (A-14)	Paragraph 8 entitled <i>COBOL Reserved Words</i> , delete the following text: The following is a list of COBOL reserved words for the optional Intrinsic Function module. FUNCTION
V-24	General format of the IF statement, delete the braces surrounding statement-1; delete the ellipsis following statement-1; delete the braces surrounding statement-2; delete the ellipsis following statement-2.
VI-15	Paragraph 4.5.4 of SPECIAL-NAMES paragraph, general rule 4d, second sentence, change "The collating sequence identified" to "The character code set and/or collating sequence identified".

Page No.	Description of Change
VI-16	Paragraph 4.5.4 of SPECIAL-NAMES paragraph, general rule 4d, subitem 4, replace the first sentence (Beginning "If the THROUGH phrase is specified") with the following new sentence: If the THROUGH phrase is specified, the contiguous characters in the native character set, beginning with the character specified by literal-1 and ending with the character specified by literal-2, are each assigned a successive ascending collating position in the collating sequence being specified and/or a successive ascending ordinal number in the character code set being specified.
VI-16	Paragraph 4.5.4 of SPECIAL-NAMES paragraph, general rule 4d, renumber subitems 4 and 5 to new subitems 5 and 6. Insert the following as the new subitem 4: 4) If a character code set is being specified, the implementor defines the ordinal number within the character code set being specified for each character within the native character set that is not specified by the literal-1 phrase.
VI-31	Paragraph 5.9.4 of the PICTURE clause, general rule 8, explanation of symbol "P", second paragraph, change subparagraph b to read: b. An elementary MOVE statement where the sending operand is numeric and its PICTURE character-string contains the symbol 'P'.
VI-31	Paragraph 5.9.4 of the PICTURE clause, general rule 8, explanation of the symbol "P", second paragraph, shade subparagraph c.
VI-34	Paragraph 5.9.5, editing rules of the PICTURE clause, editing rule 7, second paragraph, change last sentence from: "... this string of floating insertion characters may have the fixed insertion characters 'CR' and 'DB' immediately to the right of this string." to "... this string of floating insertion characters may have one of the editing sign control symbols '+', '—', 'CR', or 'DB' immediately to the right of this string."

Page No.	Description of Change
VI-37	Paragraph 5.9.6, PICTURE precedence chart, delete the symbol "X" at the following two intersections: 1. The first symbol (at the top of the table) is the right-most "P" under "Other Symbols"; the second symbol (at the side of the table) is the lower "{±}" for "Floating Insertion Symbols". 2. The first symbol (at the top of the table) is the right-most "P" under "Other Symbols"; the second symbol (at the side of the table) is the lower "cs" for "Floating Insertion Symbols".
VI-56	Paragraph 6.3.1.1.3 entitled <i>Comparisons Involving Index-Names and/or Index Data Items</i>, change the first sentence of subparagraph 2 to read: An index-name and a numeric data item or numeric literal.
VI-57 (A-18)	Paragraph 6.3.1.2 entitled <i>Class Condition</i>, replace the first paragraph after the general format beginning with "Identifier-1 must reference" and the second paragraph after the general format beginning with "When used, NOT and" with the following: Identifier-1 must reference a data item whose usage is explicitly or implicitly DISPLAY. If identifier-1 is a function-identifier, it must reference an alphanumeric function. When the class condition does not include the word NOT and identifier-1 is a zero-length group item, the result of the class test is always false. When used, NOT and the next key word specify one class condition that defines the class test to be executed for truth value; e.g. NOT NUMERIC is a truth test for determining that an operand is nonnumeric. When the class condition includes the word NOT and identifier-1 is a zero-length group item, the result of the class test is always true.
VI-90	Paragraph 6.16.2, general format of the IF statement, delete the braces surrounding statement-1; delete the ellipsis following statement-1; delete the braces surrounding statement-2; delete the ellipsis following statement-2.
VI-91	Paragraph 6.16.4 of the IF statement, general rule 2b, add the following as the new last sentence: This has the effect of causing a transfer of control to an implicit CONTINUE statement immediately preceding the next separator period.

Page No.	Description of Change
VI-91	Paragraph 6.16.4 of the IF statement, general rule 2e, add the following as the new last sentence: This has the effect of causing a transfer of control to an implicit CONTINUE statement immediately preceding the next separator period.
VI-91	Paragraph 6.16.4 of the IF statement, general rule 3, second paragraph, replace with the following: IF statements within IF statements are considered matched IF, ELSE, and END-IF ordered combinations, proceeding from left to right. Thus, any ELSE encountered is matched with the nearest preceding IF that either has not been already matched with an ELSE or has not been implicitly or explicitly terminated. Any END-IF encountered is matched with the nearest preceding IF that has not been implicitly or explicitly terminated.
VI-95	Paragraph 6.18.3 of the INSPECT statement, change syntax rule 8 to read: (8) When the CHARACTERS phrase is used, literal-3 or the size of the data item referenced by identifier-5 must be one character in length.
VI-96	Paragraph 6.18.4 of the INSPECT statement, insert the following as a new general rule 1 and renumber old general rules 1 through 7 as new general rules 2 through 8; renumber old general rules 8 through 17 as new general rules 10 through 19. (1) For the purpose of determining its length, identifier-1 is treated as if it were a sending data item. (See page VI-26, The OCCURS Clause).
VI-96	Paragraph 6.18.4, new general rule 2, last line, change "general rules 5 through 7." to "general rules 6 through 8."
VI-96	Paragraph 6.18.4, new general rule 3b, fourth line, change "(see general rule 2a)" to "(see general rule 3a)".
VI-96	Paragraph 6.18.4, new general rule 3c, fifth line, change "in general rule 2b" to "in general rule 3b".
VI-96	Paragraph 6.18.4, new general rule 4, first line, change "In general rules 5 through 17" to "in general rules 6 through 19".

Page No.	Description of Change
VI-97	Paragraph 6.18.4, new general rule 7a, subitem 2, change "general rules 10 and 13" to "general rules 12 and 15".
VI-97	Paragraph 6.18.4, new general rule 7a, subitem 3, change "defined in general rule 13" to "defined in general rule 15".
VI-97	Paragraph 6.18.4, new general rule 7c, second line, change "in general rules 10 and 13" to "in general rules 12 and 15".
VI-97	Paragraph 6.18.4, new general rule 7e, second line, change "paragraphs 6a through 6d" to "general rules 7a through 7d".
VI-97	Paragraph 6.18.4, new general rule 8, first line, change "in general rule 6" to "in general rule 7".
VI-97	Paragraph 6.18.4, new general rule 8a, third line, change "in general rule 6" to "in general rule 7".
VI-98	Paragraph 6.18.4, new general rule 8b, eighth line from end of paragraph, change "in general rule 6" to "in general rule 7".
VI-98	Paragraph 6.18.4, new general rule 8c, seventh line from end of paragraph, change "in general rule 6" to "in general rule 7".
VI-98	Paragraph 6.18.4 of the INSPECT statement, add the following as the new general rule 9 located immediately after the header FORMAT 1: (9) Identifier-1 is a sending data item.
VI-98	Paragraph 6.18.4, new general rule 12c, third line, change "in general rule 6e" to "in general rule 7e".
VI-99	Paragraph 6.18.4, new general rule 15a, second line, change "in general rule 6e to "in general rule 7e".

Page No.	Description of Change
VI-113	Paragraph 6.21.4 of the PERFORM statement, general rule 10d, change the fourth and fifth sentences to read: If index-name-1 is specified, the value of identifier-3, index-name-2, or literal-1 at the beginning of the execution of the PERFORM statement must correspond to an occurrence number of an element in the table associated with index-name-1. If index-name-3 is specified, the value of identifier-6, index-name-4, or literal-3 at the beginning of the execution of the PERFORM statement must correspond to an occurrence number of an element in the table associated with index-name-3.
VI-124	Paragraph 6.22.4 of the SEARCH statement, general rule 2b, add the following as the new last sentence: When control is passed to the next executable sentence, the effect is a transfer of control to an implicit CONTINUE statement immediately preceding the next separator period.
VI-124	Paragraph 6.22.4 of the SEARCH statement, general rule 4, add the following as the new last sentence: When control is passed to the next executable sentence, the effect is a transfer of control to an implicit CONTINUE statement immediately preceding the next separator period.
VII-5	Delete paragraph 1.3.7 entitled <i>The File Attribute Conflict Condition</i>; renumber paragraph 1.3.8 entitled <i>Special Register LINAGE-COUNTER</i> as new paragraph 1.3.7.
VII-32	Paragraph 3.8.4 of the RECORD clause, general rule 10, add the following as a new last paragraph: If the number of character positions in the logical record to be written is less than integer-2 or greater than integer-3, the output statement is unsuccessful and, except during execution of a RELEASE statement, the associated I-O status is set to a value indicating the cause of the condition. (See page VII-2, I-O Status.)
VII-32	Paragraph 3.8.4 of the RECORD clause, renumber general rules 13 and 14 as new general rules 14 and 15. Add the following as new general rule 13 after the header FORMAT 3: (13) It is implementor defined whether format 3 of the RECORD clause produces fixed length records or variable length records.

Page No.	Description of Change
VII-37	Paragraph 4.2.4 of the CLOSE statement in the Sequential I-O module, general rule 3, change paragraph F to read as follows: F. Close Reel/Unit <u>Input Files and Input-Output Files (Reel/Unit Media):</u> 1) If the current reel/unit is the last or only reel/unit for the file, there is no reel/unit swap, the current volume pointer remains unchanged, and the file position indicator is set to indicate that no next reel/unit exists. 2) If another reel/unit exists for the file, a reel/unit swap occurs, the current volume pointer is updated to point to the next reel/unit existing in the file, the standard beginning reel/unit label procedure is executed, and the file position indicator is set to one less than the number of the first record existing on the new current volume. If no data records exist for the current volume, another reel/unit swap occurs. <u>Output Files (Reel/Unit Media):</u> The following operations take place: 1) The standard ending reel/unit label procedure is executed. 2) A reel/unit swap. The current volume pointer is updated to point to the new reel/unit. 3) The standard beginning reel/unit label procedure is executed. 4) The next executed WRITE statement that references that file directs the next logical data record to the next reel/unit of the file. <u>Input Files, Input-Output Files, and Output Files (Non-Reel/Unit Media):</u> Execution of this statement is considered successful. The file remains in the open mode, the file position indicator is unchanged, and no action takes place except as specified in general rule 4.

Page No.	Description of Change
VII-41	Paragraph 4.3.4 of the OPEN statement in the Sequential I-O module, general rule 8, change to read: (8) If during the execution of an OPEN statement a file attribute conflict condition occurs, the execution of the OPEN statement is unsuccessful. The implementor defines which of the fixed file attributes are validated during the execution of the OPEN statement. The validation of fixed file attributes may vary depending on the organization and/or storage medium of the file. (See page II-1, File Attributes.)
VII-43	Paragraph 4.3.4 of the OPEN statement in the Sequential I-O module, add the following as the new general rule 26: (26) If the execution of the OPEN statement is unsuccessful, the physical file is not affected and the following actions take place in the following order: - A value is placed in the I-O status associated with file-name to indicate the condition that caused the OPEN statement to be unsuccessful. - Any applicable USE AFTER EXCEPTION procedure is executed. (See page VII-50, The USE Statement.)
VII-46	Paragraph 4.4.4 of the READ statement in the Sequential I-O module, replace general rule 10b with the following: b. If the AT END phrase is specified in the statement causing the condition, control is transferred to the AT END imperative-statement-1. Any USE AFTER EXCEPTION procedure associated with the file connector referenced by file-name-1 is not executed. Execution then continues according to the rules for each statement specified in imperative-statement-1. If a procedure branching or conditional statement that causes explicit transfer of control is executed, control is transferred in accordance with the rules of that statement; otherwise, upon completion of the execution of imperative-statement-1, control is transferred to the end of the READ statement and the NOT AT END phrase, if specified, is ignored.
VII-46	Paragraph 4.4.4 of the READ statement in the Sequential I-O module, general rule 10c, change the first sentence to read: "If the AT END phrase is not specified, a USE AFTER EXCEPTION procedure must be associated with the file connector referenced by file-name-1, and that procedure is executed."

Page No.	Description of Change
VII-46	Paragraph 4.4.4 of the READ statement in the Sequential I-O module, replace general rule 11b with the following: b. If an exception condition that is not an at end condition exists, control is transferred according to rules of the USE statement following the execution of any USE AFTER EXCEPTION procedure associated with the file connector referenced by file-name-1. (See page VII-50, The USE Statement.)
VII-48 (A-19)	Paragraph 4.5.3 of the REWRITE statement in the Sequential I-O module, syntax rule 1, second sentence, change to read: Record-name-1 and identifier-1 must not reference the same storage area.
VII-50	Paragraph 4.6.3 of the USE statement in the Sequential I-O module, syntax rule 3, change to read: (3) The same file-name must not appear in more than one USE AFTER EXCEPTION statement within the same Procedure Division.
VII-52 (A-19)	Paragraph 4.7.3 of the WRITE statement in the Sequential I-O module, syntax rule 1, second sentence, change to read: Record-name-1 and identifier-1 must not reference the same storage area.
VII-53	Paragraph 4.7.4 of the WRITE statement in the Sequential I-O module, replace general rule 9, including subparagraphs a and b, with the following: (9) If, during the successful execution of a WRITE statement with the NOT END-OF-PAGE phrase, the end-of-page condition does not occur, control is transferred to imperative-statement-2 after execution of the input-output operation.
VII-54	Paragraph 4.7.4 of the WRITE statement in the Sequential I-O module, renumber general rules 10 through 17 as new general rules 11 through 18.