



INSTRUCTION MANUAL

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electronic typewriter



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FOR USA ONLY

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, use and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC WARNING:

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- Use a shielded interface cable.

INTRODUCTION

Your new Electronic Typewriter increases your typing efficiency through the use of the latest, most advanced technology. This manual describes your typewriter's functions, operating controls and procedures, and replacement procedures for accessories. Thorough study of these instructions will allow you to maximize the efficient use of your new electronic typewriter.

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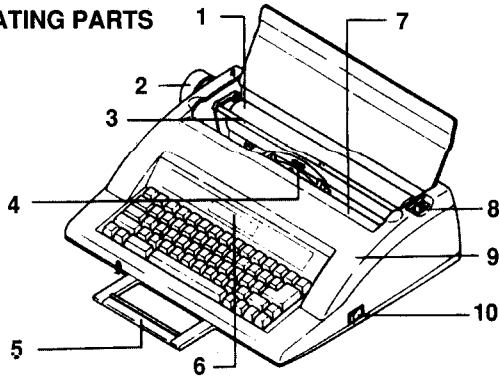
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RULES FOR SAFE OPERATION

- 1) Make sure you are using a properly rated power source, as indicated on the name plate on the back of the typewriter.
- 2) Your typewriter contains highly sophisticated mechanisms. Never attempt to repair it yourself. If repair becomes necessary, take it to your nearest authorized service center.
- 3) Never insert metal objects such as a screwdriver, paper clip, nail file, etc., into the typewriter. This could cause damage to the typewriter and/or electrical shock.
- 4) Do not leave your typewriter unattended when it is turned on. Always turn off the typewriter when you finish typing.
- 5) Dust the typewriter lightly, using only a dry cloth. Never use water or solvents such as thinner, alcohol, etc., to clean your typewriter.
- 6) Make sure that an easily-accessible power outlet is located close to the equipment.

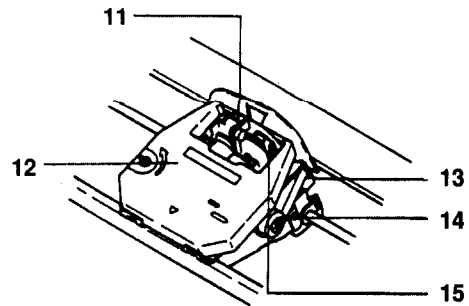
PART NAMES AND FUNCTIONS

OPERATING PARTS



1. **PLATEN ROLLER**
Rolls paper in and out.
2. **PLATEN KNOB**
Used to turn the Platen Roller.
3. **PAPER BAIL**
Holds the paper against the Platen.
4. **CARRIAGE**
Prints characters; moves at it prints.
5. **CARRYING HANDLE**
Used to carry the machine.
Normally contained inside the bottom pan.
6. **LCD (Liquid Crystal Display)**
Displays the typed characters.
7. **MARGIN SCALE**
Provides a numerical indication of the printing position.
8. **PAPER RELEASE KNOB**
Releases paper for alignment.
9. **TOP COVER**
Open to replace accessories.
10. **POWER SWITCH**
Turns power on and off.

CARRIAGE MECHANISM

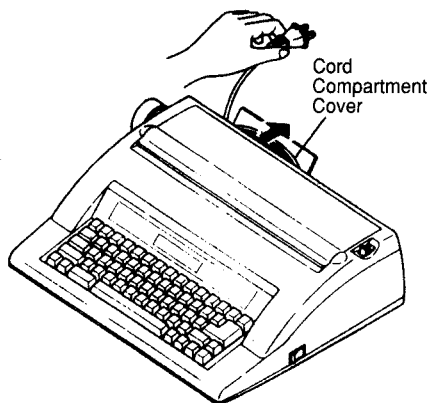


11. **PRINTWHEEL**
Element with characters for printing.
12. **RIBBON CASSETTE**
13. **CORRECTION TAPE GUIDE**
Guides the Correction Tape.
14. **CORRECTION TAPE**
15. **PRINTWHEELSET/RELEASE LEVER**
Used when replacing the Printwheel.

BASIC OPERATIONS

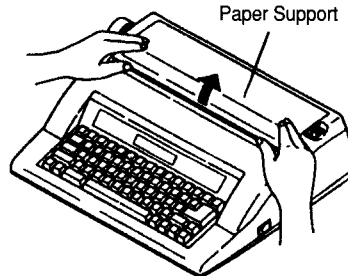
SETTING UP THE TYPEWRITER

Place the typewriter on a flat surface. Lift up the keyboard cover and remove. Before using your typewriter, be sure to remove the packing materials as described in the unpacking instructions (See illustration 2).

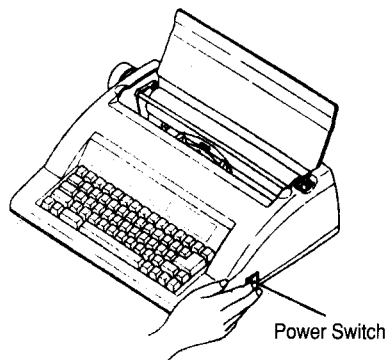


Open the cord compartment cover on the rear of the typewriter and pull out the power cord. Place the power cord in one of the notches in the cord compartment and then close the cover. Plug the power cord into a suitable outlet.

TURNING ON THE TYPEWRITER



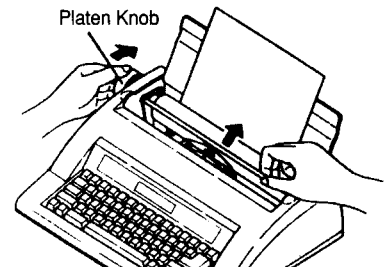
Push the paper support up. Turn on the power switch located on the right side of the typewriter. Make sure the printwheel, ribbon cassette and correction tape are properly installed.



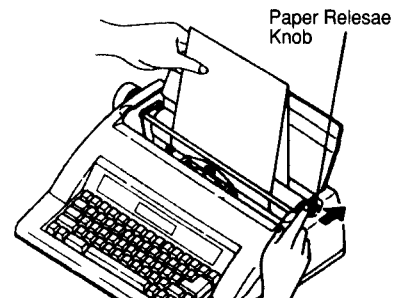
The typewriter will beep and the green power LED on the keyboard will light. The printwheel will turn and the carriage will move to the right, stopping at the programmed position.

INSERTING PAPER

Insert a sheet of paper between the platen and the paper support.



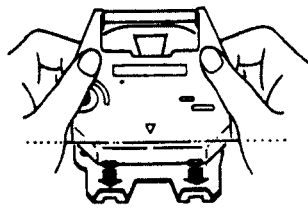
Turn the platen knob to feed the paper forward. When the leading edge of the paper becomes visible under the platen, lift up the paper bail. Continue to feed the paper forward until it is between the platen and the paper bail.



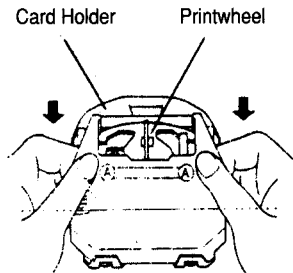
Push the paper release knob towards the rear of the typewriter to release the paper. Adjust the position of the paper so that it is straight. Return the paper bail to its original position, and return the paper release knob to the forward position.

HOW TO CHANGE ACCESSORIES

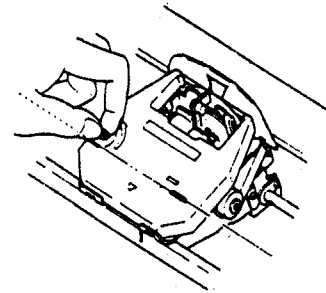
RIBBON CASSETTE



Remove the top cover.
When installing a new ribbon, wind up all of the colored portion of the start of the ribbon.
Insert the two projections on the rear of the ribbon cassette into the two holes in the ribbon cassette holder.

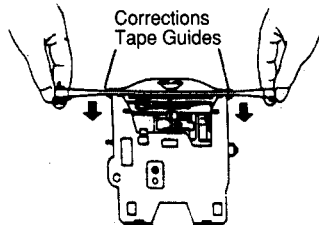


Carefully lower the front portion of the cassette so that the ribbon is located between the card holder and the print wheel.
Press on the locations marked "A" until the ribbon cassette snaps into place.

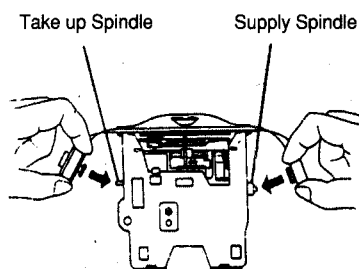


Turn the ribbon take-up knob to the left until there is no slack in the ribbon.
Close the top cover.

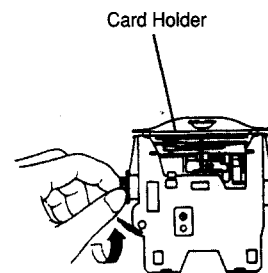
CORRECTION TAPE



Remove the top cover and the ribbon cassette.
Unpack the correction tape and hold the two spools in both hands. Insert the correction tape behind the correction tape guide and the print wheel as shown in the diagram.
Make sure that the powdered side of the correction tape is facing the card holder.

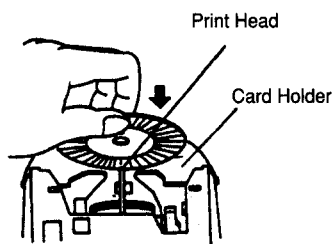


Mount the spool holding the bulk of the correction tape onto the spindle on the right side. Mount the left spool (with the knob) onto the left spindle.



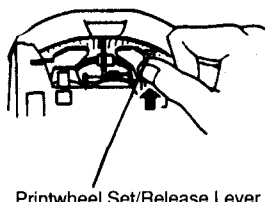
Turn the left spool to the left and wind up the colored portion of the tape. Make sure that the correction tape passes behind both the left and right tape guides. Re-install the ribbon cassette and close the top cover.

PRINT WHEEL



Remove the top cover and the ribbon cassette. Gently grasp the edge of the print wheel and carefully lower it between the card holder and the print head.

Be sure that the character faces point in the direction of the platen.



Printwheel Set/Release Lever

Press the printwheel set/release lever until it snaps into place, locking the printwheel in.

Re-install the ribbon cassette and close the top cover.

If the printwheel makes any unusual noise, or if the wrong characters are printed, re-install the printwheel.

- After replacing the printwheel and with the power on, pressing CODE+W. The printwheel turns and stops at a default position.

KEY FUNCTIONS

MARGIN RELEASE KEY

Releases the margin setting so that you can type beyond the margin or set new margins.

TAB KEY

Moves the carriage to the next tab position.

SHIFT LOCK KEY

When typing a string of capital letters, press this key to lock the Shift key. When locked, the Shift LED (red) lights. The lock can be released by pressing either of the Shift keys.

SHIFT KEY

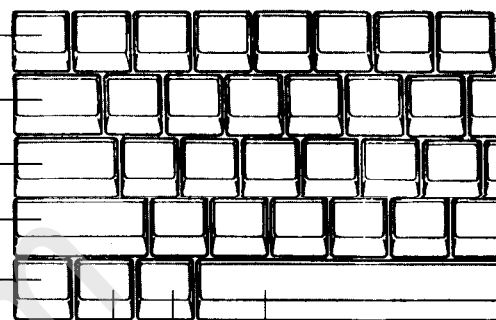
Press this key to type in capital letters or to type the symbol on the upper portion of a key.

LEFT/RIGHT MARGIN SET KEYS

Sets a new margin. Move the carriage to the position where you want to set the new margin. Press the MAR LEFT key to set the left margin. Hold down the Code key and press the MAR LEFT key to set the right margin. When a new margin is set, the typewriter beeps.

- When setting new margins, the display must be clear. Furthermore, new margins can not be set when the Auto Center or Decimal Tab functions are active.
- The left and right margins must be set at least one inch apart. When the typewriter is turned on, the auto margin function is set.

	Left Margin	Right Margin
10 pitch (PICA)	10	75
12 pitch (ELITE)	12	90
15 pitch (MICRO)	15	113



SPACE BAR

Press once gently to move the carriage one space. Holding down the Space Bar causes the carriage to move continuously.

CODE KEY

Press this key along with another key in order to use a special function.

TAB SET/CLEAR KEY

This key is used to set and clear tabs.

Move the carriage to the position where you want to set a tab and then press the Tab Set key. The typewriter then beeps to indicate that the tab has been set. Up to 16 tab positions can be set.

To clear a tab, move the carriage to the tab to be cleared and then press CODE + TAB SET/CLEAR. The typewriter then beeps to indicate that the tab has been cleared.

< that can be used by pressing the Code key together with other keys >

Paper Eject < CODE + [Q] >

This function automatically ejects the paper.

HALF BACK

Half Back < CODE + [] >

Hold down the Code key and press the HALF BACK key. The carriage moves a half space to the left. This function can only be used in NP mode.

Line Spacing < CODE + [2] >

This function allows you to set the line spacing. Press CODE + 2. "LINE SP 1 1.5 2" appears on the display. To change the line spacing, hold down the Code key and press the "2" key again. Each time the "2" key is pressed, the line spacing changes. Each time the setting changes, the new setting begins to blink. When the Code key is released, the current setting becomes the line spacing and the typewriter exits the line spacing setting mode.

Print Pitch < CODE + [3] >

This function sets the pitch in accordance with the printwheel. Press CODE + 3. "PITCH 10 12 15" appears on the display. To change the print pitch, hold down the Code key and press the "3" key again. Each time the "3" key is pressed, the print pitch changes. Each time the setting changes, the new setting begins to blink. When the Code key is released, the current setting becomes the print pitch and the typewriter exits the print pitch setting mode.

- This typewriter is equipped with a memory backup battery that allows it to retain the line spacing and print pitch settings for approximately five years with the power turned off.

Bold < CODE + [6] >

This functions prints characters in bold type. This function is useful for titles and for emphasizing important information. Press CODE + 6. The "▼" mark appears above the word "BOLD" on the display, indicating that the "Bold" function is set. To release this function, press CODE + 6 again. The "▼" mark above the word "BOLD" on the display disappears.

Automatic Full Underline < CODE + [4] >

This function underlines all characters (including spaces) that are typed. Press CODE + 4. The "▼" mark appears above the symbol "XX" on the display. To release this function, press CODE + 4 again. The "▼" mark above the symbol "XX" on the display disappears.

Automatic Word Underline < CODE + [5] >

This function underlines each word that is typed. Press CODE + 5. The "▼" mark appears above the symbol "X X" on the display. To release this function, press CODE + 5 again. The "▼" mark above the symbol "X X" on the display disappears.

Automatic Centering < CODE + [C] >

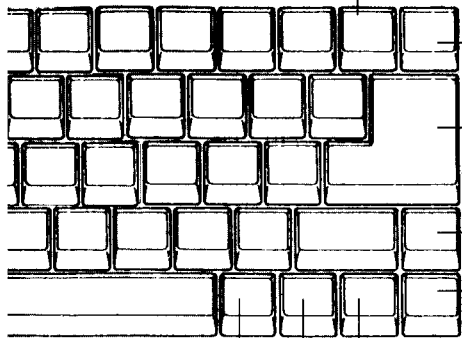
This function allows you to center your typing between the left and right margins. While holding down the Code key, press the key with the label "CENTER" on the side. When this function is turned on, the carriage/cursor automatically moves to the center point between the two margins. After inputting the characters that you want to type, press the Return key. (The text that was entered appears on the display.) The text is printed in the center between the left and right margins, the carriage/cursor returns to the left margin on the next line, and the function is then released.

- To cancel this function before printing anything, use the Correction key to erase the text on the display and press the Return key.

Right Margin Flush < CODE + [R] >

It is possible to print text so that the right edge of the text is flush with the right margin. Press CODE + R. "RIGHT MARGIN FLUSH" appears on the display and the carriage/cursor moves to the right margin. Input text and then press the Return key. (The input text appears on the display.) The text is printed so that it is flush with the right margin, the carriage/cursor returns to the left margin of the next line, and this function is then released.

- To cancel this function before printing anything, use the Correction key to erase the text on the display and press the Return key.

**CORRECTION KEY**

Deletes characters. To delete a character, press the Correction key; the carriage moves back one space and the character is deleted. If the Correction key is held down, characters on that same line are deleted until the Correction key is released. (Full line correction memory)

- To delete characters outside of the correction memory, move the carriage one space to the right of the character to be deleted. Press the Correction key and then press the key corresponding to the character to be deleted.

RELOCATION KEY

Moves the carriage/cursor one space to the right of the last character typed.

Decimal Tabulation < CODE + TAB >

This function allows you to line up columns of numbers containing decimal points so that the decimal points are all in the same position in the column.

Set a tab at the decimal point position in each column. Return the carriage/cursor to the left margin. Press CODE + TAB. The typewriter enters decimal tab mode, and the "▼" mark appears above "DEC" on the display. Press the TAB key. The carriage/cursor moves to the decimal tab position. Input text. (The input text appears on the display.)

If the Return key is pressed, the text is printed, and the carriage/cursor returns to the left margin.

If the TAB key is pressed, the text is printed and the carriage/cursor moves to the next decimal tab position.

To release this function, press CODE + TAB again. The "▼" mark above "DEC" disappears.

Ribbon Select Setting

This function is used to indicate to the typewriter whether a multi-strike ribbon or a correctable ribbon is being used in the ribbon cassette.

To select the multi-strike ribbon, hold down the code key and press the key to the left of the Right Shift key.

To select the correctable carbon ribbon, hold down the code key and press the second key to the left of the Right Shift key.

Wheel Setting < CODE + W >

After changing the printwheel, hold down the CODE key and press the W key.

Impression Control

Impression control allows you to control the striking force of the print head as best suits the type of print wheel, ribbon or paper, or the number of carbon copies being printed.

Determine the best value for each situation experimentally, choosing from the following settings.

- **LOW:** Press the I key while holding down the Code key. One beep will sound, and impression strength will be set to Low.
- **MEDIUM:** Press the I key while holding down Code key. Two beeps will sound, and impression strength will be set to Medium.
- **HIGH:** Press the I key while holding down the Code key. Three beeps will sound, and impression will be set to High. Each time the key is pressed, the setting will change in the following order: Low, Medium, High, Low...

BACKSPACE KEY

Press the Backspace key once to move the carriage back one space. On the display, the cursor moves one space to the left. Hold the Backspace key down to move the carrier continuously to the left.

EXPRESS KEY

Press this key to move the carriage to the left margin without a line feed. (The display must be cleared.) On the display, the cursor moves one space to the right. If this key is held down, it repeats the same operation continuously.

RETURN KEY

Pressing the Return key causes the paper to feed forward one line and causes the carriage to return to the left margin. In addition, the correction memory is cleared.

INDEX KEY

Pressing the Index key feeds the paper forward without moving the carriage. The paper is fed one-half of a line (1/12") each time this key is pressed. If this key is held down, the paper is fed forward continuously. In addition, the correction memory is cleared.

REVERSE INDEX KEY

Feeds the paper backward without moving the carriage. The paper is fed one-half of a line down (1/12") each time this key is pressed. If this key is held down, the paper is fed backwards continuously. In addition, the correction memory is cleared.

MODE KEY

This key is used to change the mode the typewriter is in. (The typewriter can be in one of four modes.) When the Mode Key is pressed, the mode changes and the "▼" mark appears on the display above the mode that is in use.

(NP mode)

When the typewriter is first turned on, it is in Normal Print (NP) mode.

(LP mode)

In this mode, lines or text are printed one at a time. Characters that are input appear on the display. This mode allows you to correct input characters on the display before printing them on paper. The characters on the display are printed when the Return key or the Tab key is pressed.

(JUST mode)

This mode automatically aligns words between the left and right margins when they are printed out. When characters are input they appear on the display, where they can be corrected before printing them on paper.

When a word that will extend beyond the right margin is input, all of the text prior to that word is automatically printed between the left and right margins with the spaces between the words adjusted so that the output lines up with the left and right margins. The word that would have extended beyond the right margin remains on the display and becomes the first word in the next line.

- If the Return key or the Tab key is pressed while typing a line, the text is immediately printed with no adjustments made to the spacing between words.

(STORE mode)

In this mode, the text is stored in the typewriter's memory. For details, refer to the section on "Memory Functions".

SPECIAL FUNCTIONS

WORD CORRECTION

- This typewriter is equipped with a 1-line correction memory. Text in the correction memory can be deleted word by word.

- 1) Using the backspace key or the space bar, move the carrier to the last letter in the word to be deleted.
- 2) While holding down the Code key, press the Correction key. The typewriter will beep intermittently.
- 3) Press the space bar or first character key.
- 4) Type the new word.
- 5) Press the Relocation key. The carriage moves to the end of the current line.

- ☛ It is also possible to delete a portion of a word.
 - a) Move the carrier to the last character in the word that you want to delete.
 - b) While holding down the Code key, press the Correction key.
 - c) Type the first character that you want to delete. The specified portion of the word is deleted.

CORRECTION ON LCD (DISPLAY)

- Text on the display can be corrected or deleted.

- 1) To make corrections, press the Backspace key or the Express key to move the cursor so that it is underneath the character to be changed. Type the correct character. The new character automatically replaces the old character.
- 2) To delete a character in the middle of other text, press the Backspace key or the Express key to move the cursor so that it is underneath the character to be deleted. Pressing the Correction key then causes the character to disappear and the remaining text to shift to the left.

- Holding down the Correction key makes it possible to quickly delete more than one character.
- When the cursor is located at the end of the text, the text moves to the right as each character is deleted.

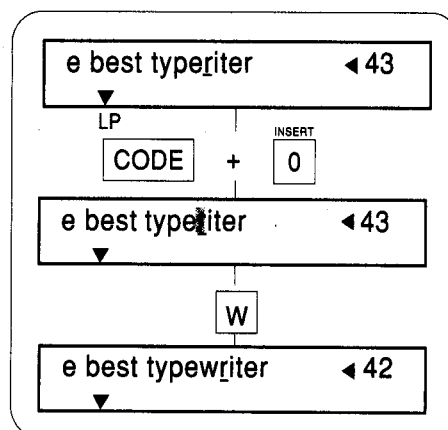
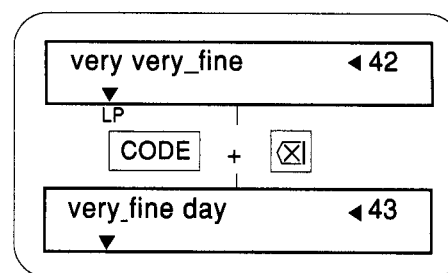
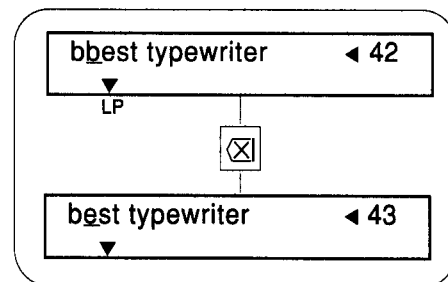
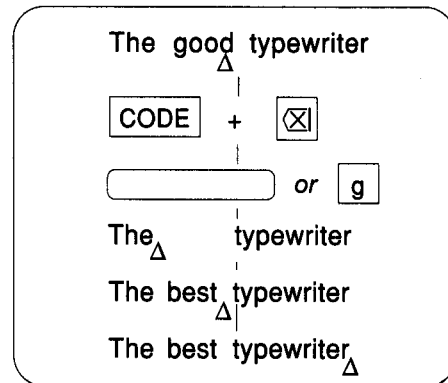
- 3) To delete text one word at a time, move the cursor so that it is underneath the space following the word to be deleted. While holding down the Code key, press the Correction key. The word is deleted and the remaining text shifts to the left.

- 4) To insert a character in the middle of text, press the Backspace key or the Express key and move the cursor to the character to the right of where you want to insert a character.

While pressing the Code key, press the "0" (INSERT) key. The character above the cursor begins blinking in alternation with the "■" mark. Type the character (or space) that you want to insert. The character is inserted to the left of the cursor. Each time a character is inserted, the cursor moves to the right. (When the cursor is at the right-hand edge of the display, the text shifts to the left.) To terminate insert mode, hold down the Code key and press the "0" (INSERT) key again.

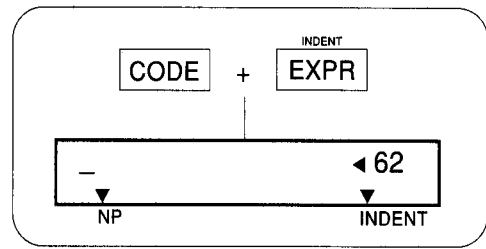
Key to symbols used on the following pages:

- : Explanation of how to use a function
- : Explanation of how to make a setting
- ▲ : Explanation of how to release a setting
- ★ : Warning
- ☛ : Notes

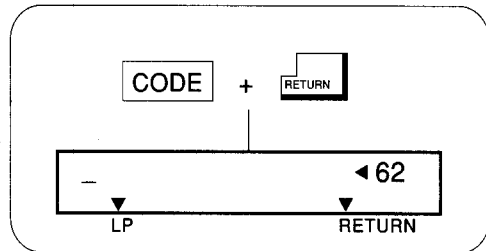


PARAGRAPH INDENTATION

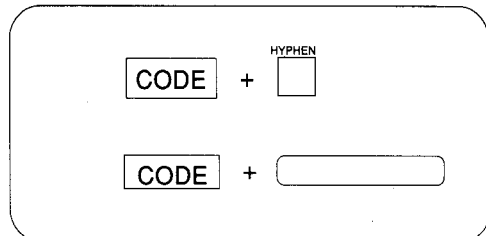
- It is possible to set a temporary left margin.
- 1) Move the carriage to the position where you want to set the temporary left margin.
- 2) While holding down the Code key, press the Express (INDENT) key. The "▼" mark will appear above "INDENT" on the display, indicating that the current position has now been set as a temporary margin.
- 3) Type the text that you want indented.
- ▲ To release the temporary left margin, hold down the Code key and press the Express (INDENT) key again. The "▼" mark above "INDENT" disappears.

**AUTOMATIC CARRIER RETURN**

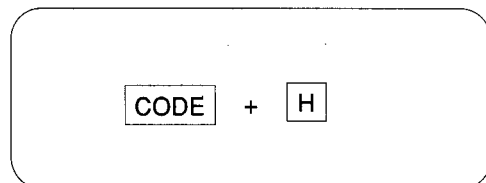
- This function makes it possible to type continuously and have the carrier/cursor automatically return to the start of the next line without having to press the Return key at the end of each line.
- 1) While holding down the Code key, press the Return (AUTO RET) key. The "▼" mark will appear above "RETURN" on the display.
- 2) Once this function is activated, the typewriter will beep when the carrier enters the auto return zone (the five spaces to the left of the right margin). When a hyphen or space is typed in the autoreturn zone, the carriage/cursor automatically returns to the left margin on the next line.
- ▲ In order to release this function, hold down the Code key and press the Return (AUTO RET) key again the "▼" mark above "RETURN" disappears.
- ☞ (For the typewriter with USA or Canada French keyboard)
If a hyphen or space is not typed in the hot zone, the carriage will advance past the right margin.

**REQUIRED HYPHEN AND REQUIRED SPACE**

- This function allows you to input a hyphen or space within the auto return zone without triggering the auto return function.
- 1) Hold down the Code key and press the (HYPHEN) key at the position where you want the required hyphen. On the display, the "-" mark appears, representing a required hyphen.
- 2) Hold down the Code key and press the space bar at the position where you want the required space. On the display, the " " mark appears, representing a required space.

**SYLLABLE HYPHEN**

- This function allows you to hyphenate words at the right margin.
- ★ Syllable hyphens are available in STORE mode only.
- Hold down the Code key and press the "H" key. The "H" mark appears on the display, representing a syllable hyphen. As this manual goes to press, the syllable hyphen is printed only when it falls in the auto return zone. If you modify the file and the hyphenated word shifts out of the autoreturn zone, the syllable hyphen is ignored and is not printed.



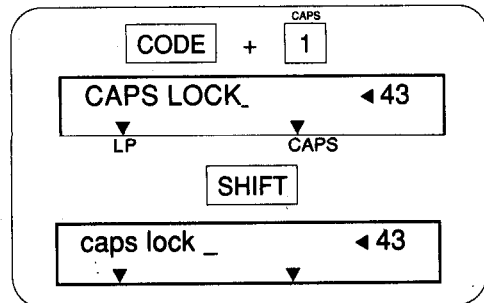
CAPS LOCK

- This function allows you to type upper case letters without pressing the Shift key.

- 1) While holding down the Code key, press the "1" (CAPS) key. The "▼" mark appears above "CAPS" on the display.

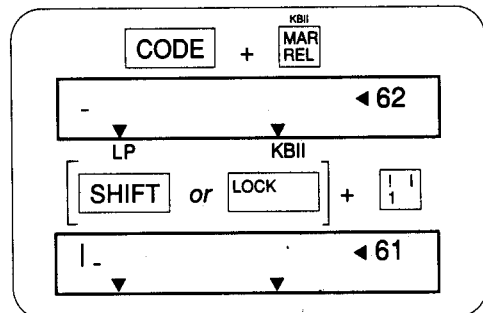
★ In Caps Lock mode, pressing a letter key causes an upper case character to be typed without pressing the Shift key. The number/symbol keys are printed in lower case. If you press the Shift key in this mode, letter keys are printed in lower case, and the number/symbol keys are printed in upper case.

- ▲ In order to release this function, hold down the Code key and press the "1" (CAPS) key. The "▼" mark above "CAPS" disappears.

**KEYBOARD II (SPECIAL CHARACTERS)**

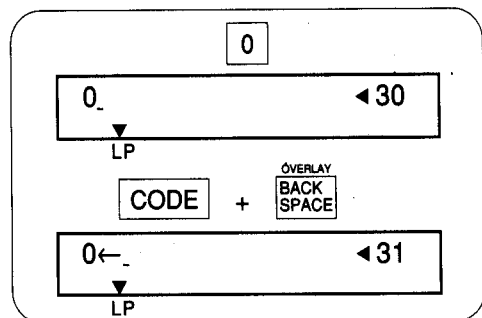
- The following method is used to type the upper right-hand characters shown on keys that display three characters.

- 1) While holding down the Code key, press the Margin Release (KB II) key. The "▼" mark appears above "KBII" on the display.
- 2) While pressing the Shift key or with the Shift Lock key down, press the key containing the symbol that you want to type.
- 3) In order to release this function, hold down the Code key and press the Margin Release (KB II) key again. The "▼" mark above "KBII" disappears.

**OVERLAY**

This function is used to create characters not found on the keyboard by printing one character on top of another.

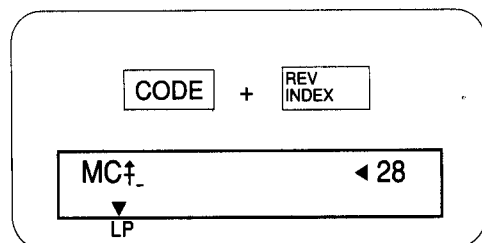
- This function is available in the LP, JUST mode and STORE modes.
- 1) Press the first key desired. The corresponding character appears on the display.
- 2) Hold down the Code key and then press the Backspace (OVERLAY) key. The "←" mark appears on the display.
- 3) Type the key for the character that you want to type over the previous character.

**SUPERSCRIP/T/SUBSCRIPT**

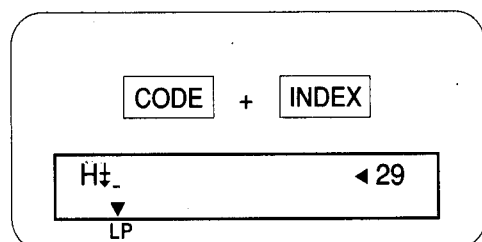
- This function allows you to type text that contains superscripts or subscripts, such as H₂O or E=MC².

SUPERSCRIP/T/S

- With the carriage/cursor located at the position where you want to type the superscript character, hold down the Code key and press the Reverse Index key. In NP mode, the printing position moves up one-half of a line. In LP, JUST, or STORE mode, the "‡" mark appears on the display. Type the superscript character. When the superscript carriage is printed, the carriage returns to its original position.

**SUBSCRIPTS**

- With the carriage/cursor located at the position where you want to type the subscript character, hold down the Code key and press the Index key. In NP mode, the printing position moves down one-half of a line. In LP, JUST, or STORE mode, the "‡" mark appears on the display. Type the subscript character. When the subscript carriage is printed, the carriage returns to its original position.



MEMORY FUNCTIONS

This function allows you to type quickly and efficiently by letting you store frequently used phrases, long words, and correspondence, all of which you can later edit and print immediately. You can also create format files containing margin and tab information.

The typewriter's memory stores 16,000 characters that can be divided into a maximum of 50 files. The contents of the files in memory are maintained by a back-up battery for about five years, even when you turn off the typewriter. You can create three types of files with this typewriter:

- 1) Text files -----for storing correspondence, etc. (including tabs and margins)
- 2) Phrase files -----for storing frequently used phrases and words
- 3) Format files -----For storing line formats (margin and tab information only)

Select the appropriate file according to your requirements.

CREATING A TEXT FILE

There are three ways to create a text file:

<Display mode>

You create a text file line by line using the margin settings, in the same way as you would type on paper. Characters appear on the display as you type. When a line is completed, the line is stored in memory, but nothing is printed on the paper.

<Print mode>

You create a text file line by line using the margin settings, in the same way as you would type on paper. Characters appear on the display as you type. When a line is completed, the line is stored in memory and printed on paper.

In both the Display mode and Print mode, a column counter appears on the right side of the display indicating the remaining number of spaces to the right margin.

<Edit mode>

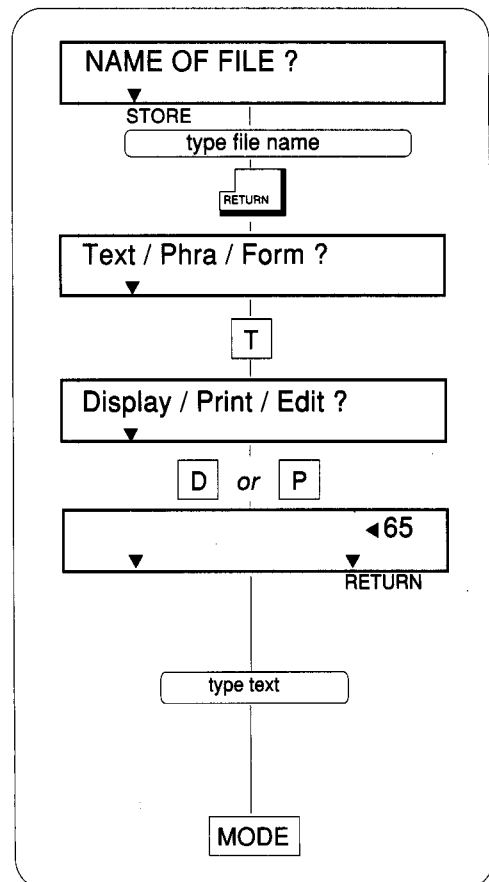
You create a text file as one continuous line of text. Characters appear on the display continuously through to the end of the file, without changing the line. You can scroll to any point in the file to make changes, corrections, or to simply review the text.

Creating a text file in the Display mode or Print mode

- 1) Press the Mode key until a "▼" appears above "STORE" on the display. The message "NAME OF FILE?" appears. Type the file name (five letters/numbers), then press the Return key.
- 2) The message "Text/Phra/Form?" appears on the display. Press the "T" key to select a text file. The paper advances one line and the carriage returns to the left margin. The message "Display/Print/Edit?" appears on the display.
- 3) Press the "D" key to choose the Display mode, or press the "P" key to choose the Print mode. The display is cleared and the column counter appears on the right side of the display. The automatic return function is automatically activated.
- 4) Type the text. Characters appear on the display as you type. When a line is completed, the line is stored in memory and disappears from the display. In the Print mode, the line is printed onto the paper at this time.

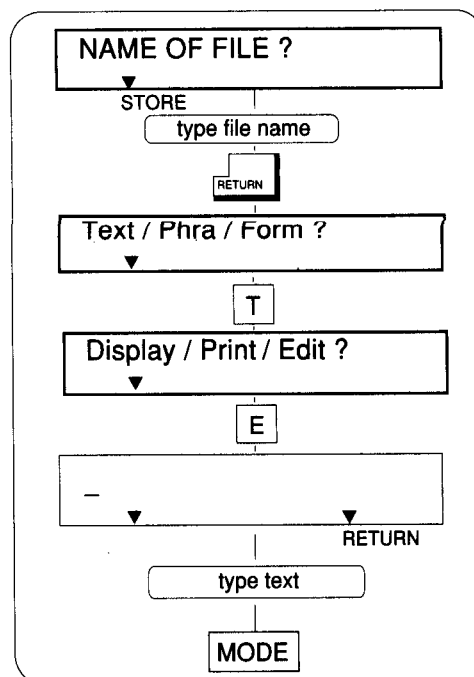
☛ Correct errors while the line of text appears on the display, since you cannot scroll back after the line is stored and disappears from the display.

- ▲ 1) Press the Mode key to exit the Store mode. The typewriter returns to the NP mode.
- 2) You can exit the STORE mode by pressing the Mode key at any time.



Creating a text file in the Edit mode

- 1) Press the Mode key until a "▼" appears above "STORE" on the display. The message "NAME OF FILE?" appears. Type the file name (five letter/numbers), then press the Return key.
- 2) The message "Text/Phra/Form?" appears on the display. Press the "T" key to select a text file. The paper advances one line and the carriage returns to the left margin. The message "Display/Print/Edit?" appears on the display.
- 3) Press the "E" key to choose the edit mode. The display is cleared.
- 4) Type the text. As you type, characters appear on the display as one continuous line of text, without changing the line.
- ▲ 1) Press the Mode key to exit the Store mode. The typewriter returns to the NP mode.
- 2) You can exit the Store mode by pressing the Mode key at any time.

**Some tips for using the edit mode**

- 1) The typewriter functions are indicated by the following symbols on the display. In the edit mode, the column counter does not appear and the carriage does not move. The following symbols appear to represent carriage movement.

At the position where you activate a function, a box mark "■" appears to represent the function. The box mark alternately flashes with the function name when you position the cursor under the box mark. To cancel the function, delete the box mark.



Margins and tabs are set, two box symbols appear on the display (TEXT files only). The right box symbol flashes in alternation with the function name, such as LEFT MARGIN SET* or TAB SET*. The left box symbol flashes in alternation with the message "MOVE CARRIER TO XX." The number "XX" indicates the margin or tab position. If the numbers "XX" in the left box are changed, the margin or tab setting changes. Pressing the Index key causes the number to increase, and pressing the Reverse Index key causes the number to decrease. To set a margin or tab in the middle of text, first hold down the Code key and then press the "0" key to enter Insert mode. Next, press the Code key and the "M" key to insert the box symbol (MOVE CARRIER TO XX). Next, press the Left Margin key, the Tab Set/Clear key or a similar function key, and insert the box mark. Then move the cursor underneath the "XX" marks and enter the desired number.

- 2) Move the cursor to scroll to any position in the file.

Press the Backspace key to move the cursor one space to the left.

Press the Express key to move the cursor one space to the right.

Press the Relocation key to move the cursor to the end of the file.

Press the Code key + the "B" key to move the cursor to the beginning of the file.

↵ Return	‡ Super script
→ Tab	⌋ Required Hyphen
↓ Index	⌋ Required Space
↑ Reverse Index	Ⓢ Stop code
↓ Sub script	

■↔LEFT MARGIN SET*	■↔TAB SET*
■↔RIGHT MARGIN*	■↔TAB CLEAR
■↔MARGIN RELEASE	■↔INDENT
■↔MOVE CARRIER TO XX	■↔AUTO CENTER
■↔RIGHT MARGIN FLUSH	
■↔PAGE LENGTH=XX HIT*	
■↔ALL TABS CLEARED	

You can not use the functions marked * in Phrase files.

BACK
SPACE

EXPR

RELOC

CODE + B

MODIFYING A TEXT FILE

There are two ways to modify the text file stored in memory.

<Add mode>

You add some text at the end of the text file line by line, the same way you created the file in the Display mode or Print mode.

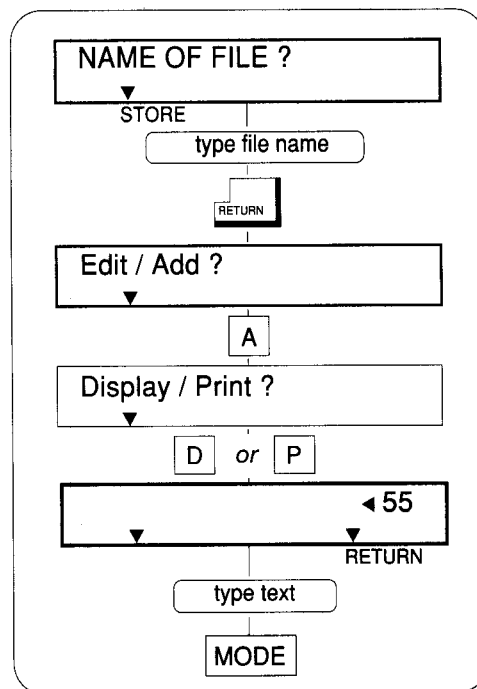
<Edit mode>

You edit the text file scrolling to a desired location in the file.

Modifying a text file in the Add mode

- 1) Press the Mode key until a "▼" appears above "STORE" on the display.
- 2) Type the name of the text file you want to add text to. Then press the Return key. The message "Edit/Add?" appears on the display. Press the "A" key to choose the Add mode. The message "Display/Print?" appears on the display.
- 3) Press the "D" key to choose the Display mode or press the "P" key to choose the Print mode.
- 4) Type the text to be added. Characters appear on the display as you type. When a line is completed, the line is stored in memory and disappears from the display. In the Print mode, the line is printed on the paper at this time.

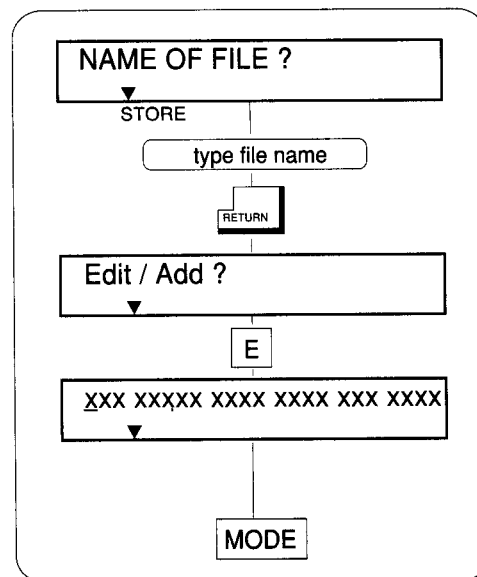
▲ Press the Mode key to exit the STORE mode. The typewriter returns to the NP mode.

**Modifying a text file in the Edit mode**

- 1) Press the Mode key until a "▼" appears above "STORE" on the display.
- 2) Type the name of the text file you want to edit. Then press the Return key. The message "Edit/Add?" appears on the display. Press the "E" key to choose the Edit mode.

The text file appears on the display as one continuous line of text. You can scroll to any point in the file to make changes, corrections, or to simply review.

▲ Press the Mode key to exit the STORE mode. The typewriter returns to the NP mode.



CREATING A PHRASE FILE

There are two ways to create a phrase file.

<Display mode>

You create a phrase file on the display as one continuous line of text, regardless of the margin settings. Nothing is printed on the paper.

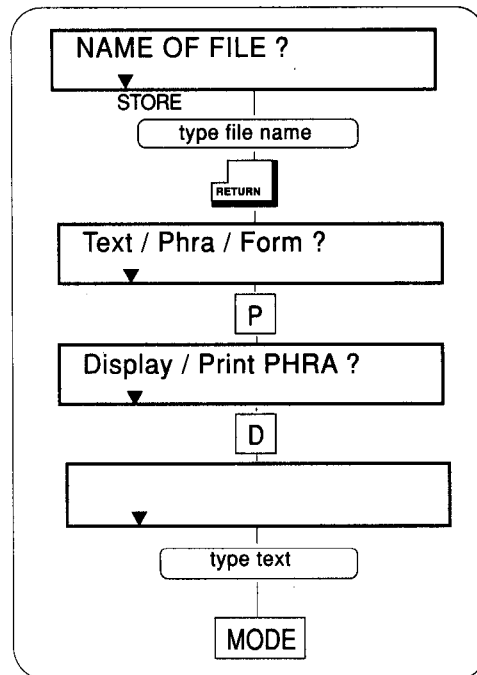
<Edit mode>

You create a phrase file on the display line by line. The line is printed on the paper according to the current margin settings, but the margin settings are not stored in the file.

Creating a phrase file in the Display mode

- 1) Press the Mode key until a "▼" appears above "STORE" on the display. The message "NAME OF FILE?" appears. Type the file name (five letters/numbers), then press the Return key.
- 2) The message "Text/Phra/Form?" appears on the display. Press the "P" key to select a phrase file. The message "Display/Print PHRA?" appears on the display.
- 3) Press the "D" key to choose the Display mode. The display is cleared.
- 4) Type the phrase to be stored. Characters appear on the display as one continuous line of text. You can scroll to any point in the file to make changes, correction, or to simply review.

▲ Press the Mode key to exit the Store mode. The typewriter returns to the NP mode.

**Creating a phrase file in the Print mode**

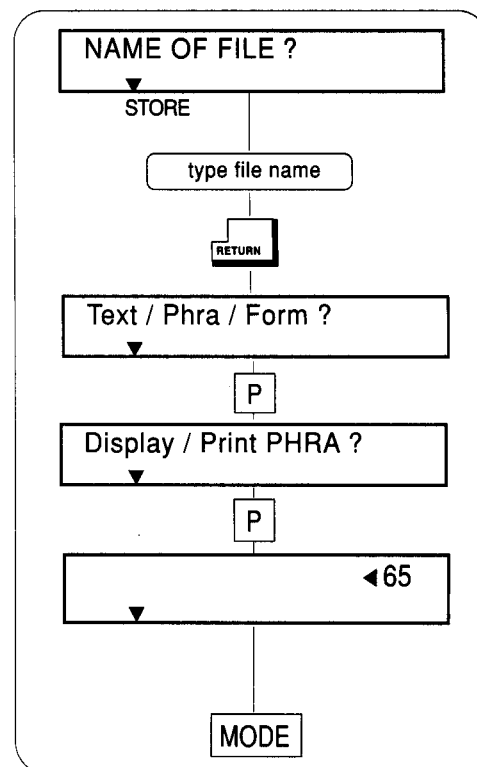
- 1) Press the Mode key until a "▼" appears above "STORE" on the display. The message "NAME OF FILE?" appears. Type the file name (five letters/numbers), then press the Return key.
- 2) The message "Text/Phra/Form?" appears on the display. Press the "P" key to select a phrase file. The message "Display/Print PHRA?" appears on the display.
- 3) Press the "P" key to choose the Print mode.

The display is cleared and the column counter appears on the right side of the display. The automatic return function is automatically activated.

- 4) Type in the phrase to be stored. As you type, characters appear on the display line by line aligned to the current margin. When a line is completed, the line is stored and printed on the paper.

Although phrase files are entered and printed one line at a time in the print mode, they are stored as one continuous line with no margins.

▲ Press the Mode key to exit the Store mode. The typewriter returns to the NP mode.

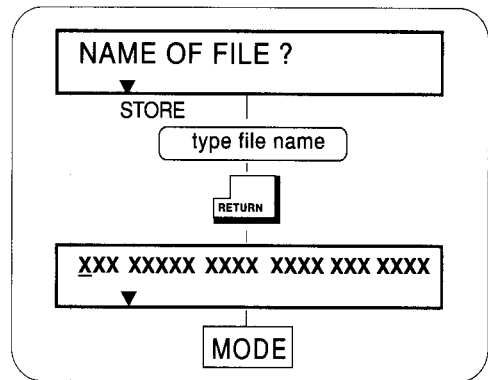


MODIFYING A PHRASE FILE

- 1) Press the Mode key until a "▼" appears above "STORE" on the display.
- 2) Type the name of the phrase file you want to edit. Then press the Return key.

The phrase file appears on the display as one continuous line of text. You can scroll to any point in the file to make changes, corrections, or to simply review the text.

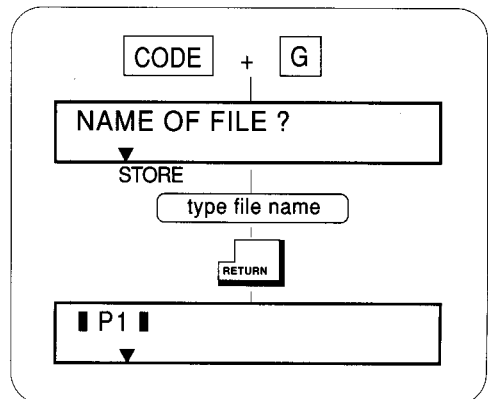
- ▲ Press the Mode key to exit the Store mode. The typewriter returns to the NP mode.

**INSERTING A PHRASE FILE WITHIN A TEXT FILE**

- A phrase file can be inserted inside of a text file. When the text file is printed, the phrase file is printed at the position where it was inserted.

- 1) Position the cursor/carriage at the point in the text file where you want to insert a phrase file.
- 2) Hold down the Code key and press the "G" key. The message "NAME OF FILE?" appears on the display.
- 3) Type the name of the phrase file to be inserted. Then press the Return key. The file name is inserted at the cursor position, between two box marks. To delete the inserted phrase file, move the cursor under the first box and press the Correction key.

- ▲ If the phrase file you inserted does not exist in memory, printing pauses and the message "NOT FOUND." appears. Press the Return key to cancel the print operation.

**SETTING THE PAGE LENGTH OF A TEXT FILE**

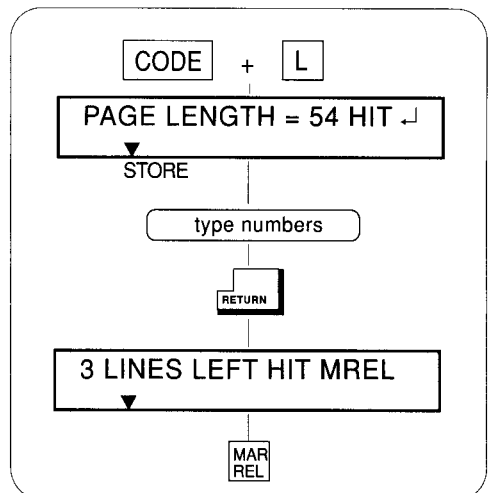
- The page length can be set inside of a text file.

When entering a text file, this setting reminds you that you are approaching the bottom of the page. When printing a text file, the typewriter pauses after it prints the number of lines specified in this setting so that you can insert the next sheet of paper.

- 1) While creating or modifying a text file, hold down the Code key and press the "L" key. The message "PAGE LENGTH = 54 HIT ↵" appears on the display. "54" is the preset setting for an 11-inch-long sheet of paper with 1-inch top and bottom margins.
- 2) Type the number of lines (per page) for the page length. Press the Return key to store the setting.

- When entering text in the Display mode or Print mode, when you reach the 4th line from the bottom of the page, the message "3 LINES LEFT HIT MREL" appears on the display. This reminds you there are only three lines remaining on the current page. Press the Margin release key and continue typing.

When printing the text file, this setting appears before you start printing. It reminds you that printing will temporarily stop for a new paper insertion after the number of lines in this setting are printed.

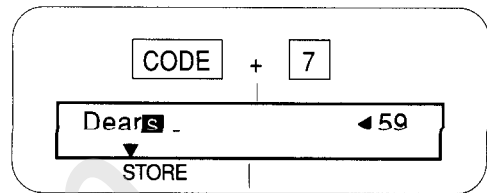


STOP CODE

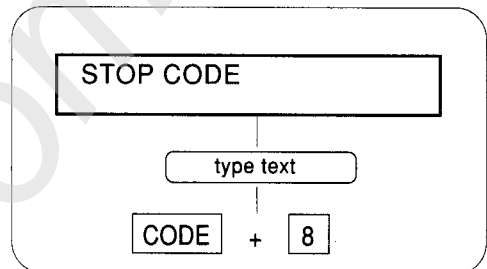
- Stop codes cause the printing to pause the predetermined locations in the file in order for you to type in extra text. After you type in the text, the typewriter resumes printing. You can enter stop codes in a text file or a phrase file.

Entering a stop code

- Position the cursor/carriage at the point in the text file or phrase file where you want to enter a stop code. Hold down the Code key and press the "7" key. A highlighted "S" appears on the display. When you create or modify a file in the print mode, an "X" is printed at the position where you entered a stop code.

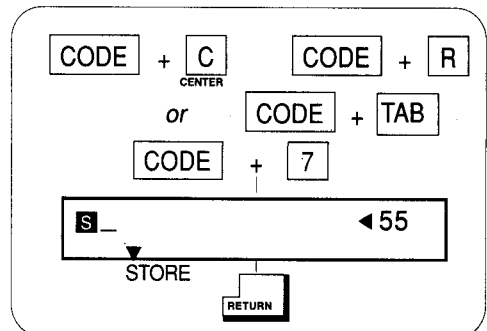
**Typing text at a stop code**

- 1) While printing, the typewriter pauses at a stop code. The message "STOP CODE" appears on the display.
2) Type the text. Each character you type is immediately printed.
3) Hold down the Code key and press the "8" key to resume printing.

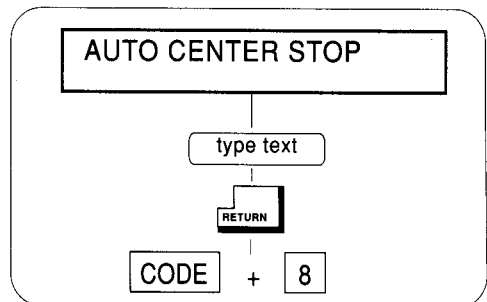
**Entering a function stop code**

- You can enter a stop code with the auto center or right margin flush function, or at the decimal tab position.

- 1) First, activate the decimal tab, auto centering or right margin flush function inside of the text file or phrase file.
2) Hold down the Code key and press the "7" key. A highlighted "S" appears on the display.
3) Press the Return key. The respective function mode is terminated. Continue typing text.

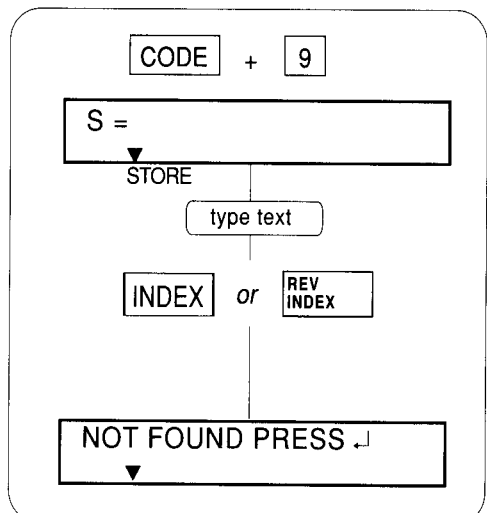
**Typing text at a function stop code**

- 1) While printing, the typewriter pauses at a stop code position. One of the following messages appears on the display:
AUTO CENTER STOP DECIMAL TAB STOP
FLUSH RIGHT STOP
2) Type the desired text. Each character you type appears on the display.
3) Press the Return key. The text on the display is printed. It is aligned with the stop code position according to the respective function.
4) Hold down the Code key and press the "8" key to resume printing.

**SEARCH**

- This function searches for and displays a word in a text file or a phrase file.

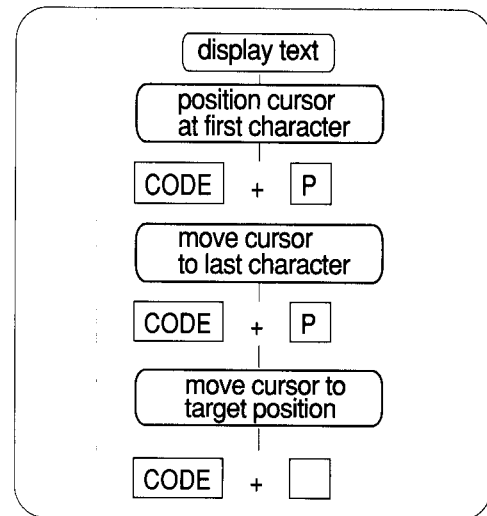
- 1) Display the text file or phrase file using the Edit mode. Hold down the Code key and press the "9" key. The message "S=" appears on the display.
2) Type the word(s) you want to search for. You can type a maximum of 18 characters including spaces.
3) Press the Index key to search from the current cursor position toward the end of the file. or Press the Reverse index key to search from the the current cursor position toward the beginning of the file.
4) The first occurrence of the word(s) appears on the left side of the display.



If there is no occurrence of the word(s) in the file, "NOT FOUND PRESS ↵" appears on the display. Press the Return key to cancel the function.

BLOCK OPERATIONS(COPY/MOVE/DELETE)**Copying a block of text**

- This function copies a block of text and inserts it into a specified location in the file. This operation does not change or remove the original text.
- 1) Display the text file or phrase file using the Edit mode.
Position the cursor under the first character of the text to be copied.
- 2) Hold down the Code key and press the "P" key . This marks the beginning of the block. Two beeps sound.
- 3) Move the cursor to the last character of the text to be copied. As you move the cursor, characters contained in the block begin blinking.
- 4) Hold down the Code key and press the "P" key again. This marks the end of the block. Two beeps sound indicating the block of text has been defined.
- 5) Move the cursor to the position where you want to copy the block of text.
- 6) Hold down the Code key and press the key to the right of the TAB key. The block of text is copied to the specified position.

**Moving a block of text**

- This function moves a block of text to a specified location in the file.
- 1) Display the text file or phrase file using the Edit mode.
Position the cursor under the first character of the text to be moved.
- 2) Perform steps 2, 3, and 4 under "Copying a block of text."
- 3) Move the cursor to the position where you want to move the block of text.
- 4) Hold down the Code key and press the second key to the right of the TAB key. The block of text is moved to the specified position.

Deleting a block of text

- This function deletes a block of text from the file.
- 1) Display the text file or phrase file using the Edit mode.
Position the cursor under the first character of the text to be deleted.
- 2) Perform steps 2, 3, and 4 under "Copying a block of text."
- 3) Hold down the Code key and press the third key to the right of the TAB key. The block of text is deleted and all succeeding text is shifted left to fill up the space created.

RECALLING A TEXT FILE

Stored text files can be recalled (printed) in NP, LP, or JUST mode.

- If you select the NP/LP mode, a file is printed normally as you type into the memory.
If you select the JUST mode, a file is printed justified between the left and right margins.

- 1) Hold down the Code key and press the "8" key. The message "Recall/List/Delete?" appears on the display. Press the "R" key.
- 2) The message "NAME OF FILE?" appears on the display. Type the name of the text file and press the Return key. The carrier moves to the left margin position of that file. The message "PAGE LENGTH=54 HIT ↵" appears on the display.

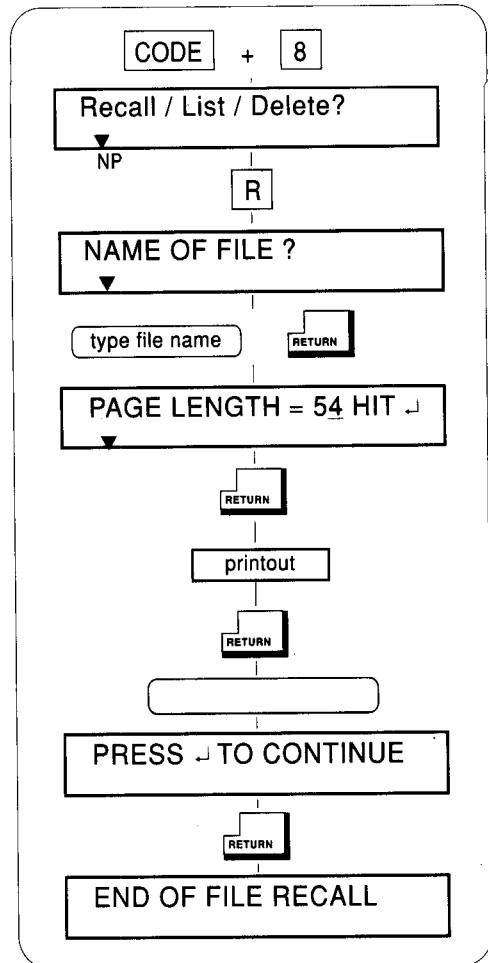
If it is necessary to change the page length, refer to "Setting the Page Length of a Text File."
"54" is the preset setting for an 11-inch-long sheet of paper with 1-inch top and bottom margins.

- 3) Press the Return key to start printing. A "▼" appears above "RECALL" on the display.

To temporarily stop printing, press the Return key. The message "PAUSE PRESS ↵" appears on the display. Press the Return key again to resume printing.

- 4) The printing will pause when the typewriter prints the last line on the page (specified by the page length). The message "PRESS ↵ TO CONTINUE" appears on the display. Insert a new sheet of paper and press the Return key to resume printing.

When the printing of the text file is completed, the message "END OF FILE RECALL" appears on the display.

**RECALLING A PHRASE FILE**

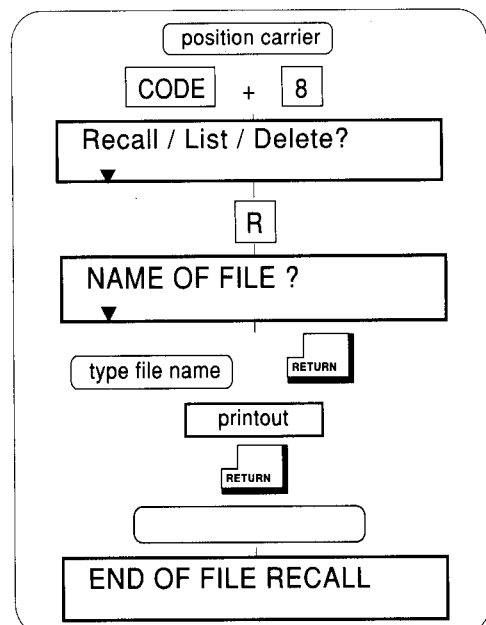
Stored phrase files can be recalled (printed) in NP, LP, or JUST mode.

- A phrase file does not contain the margin settings. You can print it at any location on the page using any margin settings you desire.
If you select the NP/LP mode, a file is printed normally as you type in the memory.
If you select the JUST mode, a file is printed justified between the current left and right margins.

- 1) Position the carriage at the point on the page where you want to start the printout of the phrase file. Hold down the Code key and press the 8 key. The message "Recall/List/Delete?" appears on the display. Press the "R" key.
- 2) The message "NAME OF FILE?" appears on the display. Type the name of the phrase file and press the Return key. A "▼" appears above "RECALL" on the display. The carriage begins printing from its current position using the margins that are currently set.

To temporarily stop the printout, press the Return key. The message "PAUSE PRESS ↵" appears on the display. Press the Return key again to resume printing.

To cancel the print function, press the Space bar. The message "END OF FILE RECALL" appears on the display. When the printing of the phrase file is completed, the message "END OF FILE RECALL" appears on the display.



CHAIN RECALL

- This function prints two to forty files continuously .

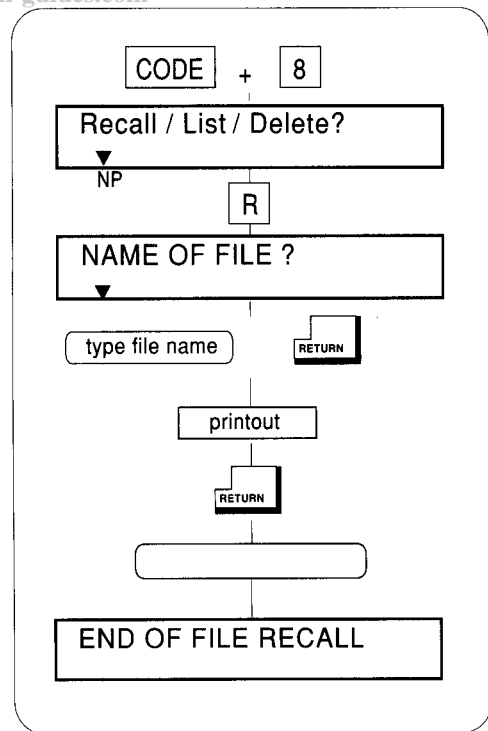
- 1) Hold down the Code key and press the "8" key. The message "Recall/List/Delete?" appears on the display. Press the "R" key.
- 2) The message "NAME OF FILE?" appears on the display. Type the names of the files in the order you want them to print. Separate each file name with a comma (.). For example: Text1, Text2, Text3.
- 3) Press the Return key to start printing. A "▼" appears above "RECALL" on the display.

To temporarily stop printing, press the Return key. The message "PAUSE PRESS-," appears on the display. Press the Return key again to resume printing.

To cancel the print function, press the Space bar. The message "END OF FILE RECALL" appears on the display.

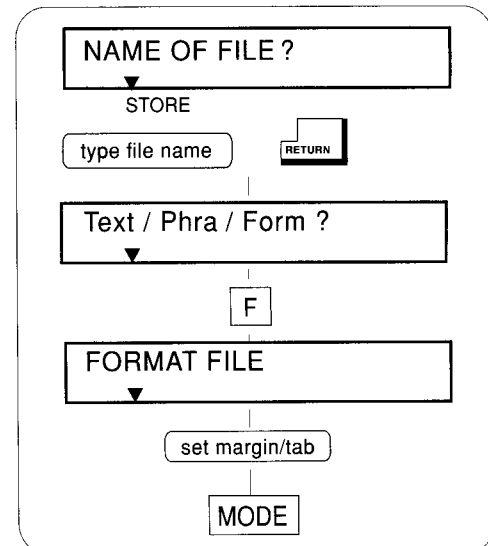
When the printing of all the files is completed, the message "END OF FILE RECALL" appears on the display.

- ☛ If one of the file names you entered in step 2) does not exist in the memory, the message "NOT FOUND PRESS-," appears on the display and the remaining files are not printed.

**FORMAT FILE**

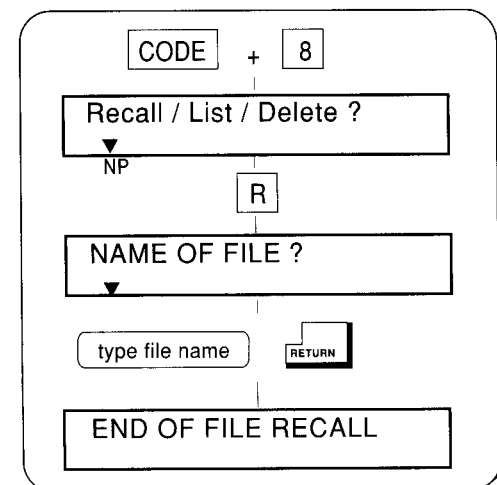
- Frequently used formats can also be stored. (Margins and tabs can be set.)

- 1) Press the Mode key until a "▼" appears above "STORE" on the display. The message "NAME OF FILE?" appears on the display. Type the file name (five letters/numbers), then press the Return key.
- 2) The message "Text/Phra/Form?" appears on the display. Press the "F" key. The message "FORMAT FILE" appears on the display. The paper advances one line and the carriage returns to the current left margin.
- 3) Set the margins and tabs to the desired locations the same way as in any other mode.
- ▲ 1) Press the Mode key to exit the Store mode. The typewriter returns to the NP mode.
- 2) You can exit the Store mode by pressing the Mode key at any time.

**Using a format file**

- 1) Hold down the Code key and press the "8" key. The message "Recall/List/Delete?" appears on the display. Press the "R" key.
- 2) The message "NAME OF FILE ?" appears on the display. Type the name of the format file and press the Return key.

The margin and tab settings in the format file are then set on the typewriter. The message "END OF FILE RECALL" appears on the display.

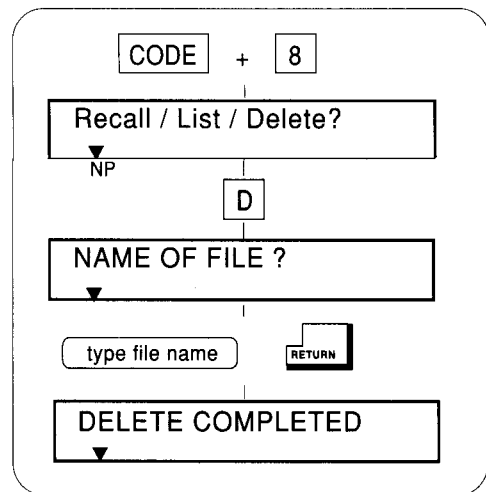


FILE DELETION

- Files that are no longer needed can be deleted to make room for new files. This function cannot be used while in the Store mode. Exit the Store mode and clear the display before using this function.

- 1) Hold down the Code key and press the "8" key. The message "Recall/List/Delete?" appears on the display. Press the "D" key.
- 2) The message "NAME OF FILE?" appears on the display. Type the name of file to be deleted and press the Return key. The message "DELETE COMPLETED" appears on the display.

- ☛ To cancel the file deletion function, press the Return key BEFORE typing the file name. If the file name has already been entered, use the Correction key to delete the file name from the display.

**LIST OF FILES IN MEMORY**

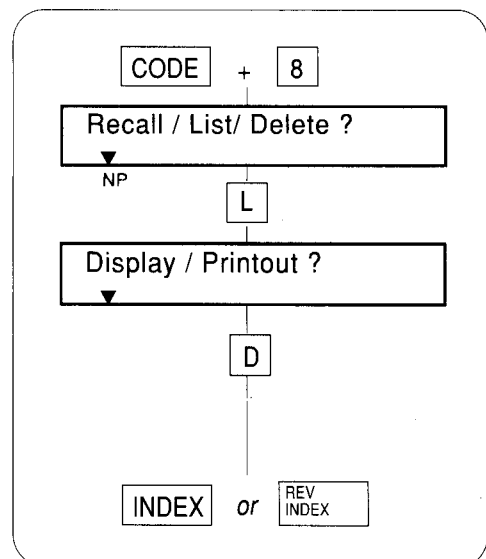
- A list of stored files can be displayed or printed. This function cannot be used while in the Store mode. Exit the Store mode and clear the display before using this function.

Displaying the list of files

- 1) Hold down the Code key and press the "8" key. The message "Recall/List/Delete?" appears on the display. Press the "L" key.
- 2) The message "Display/Printout?" appears on the display. Press the "D" key. The file type (TEXT, PHRASE, FORMAT), filename, and the characters at the beginning of the file appear on the display.

You can scroll through the contents of the entire file. Move the cursor to the right using the Express key, or to the left by using the Backspace key.

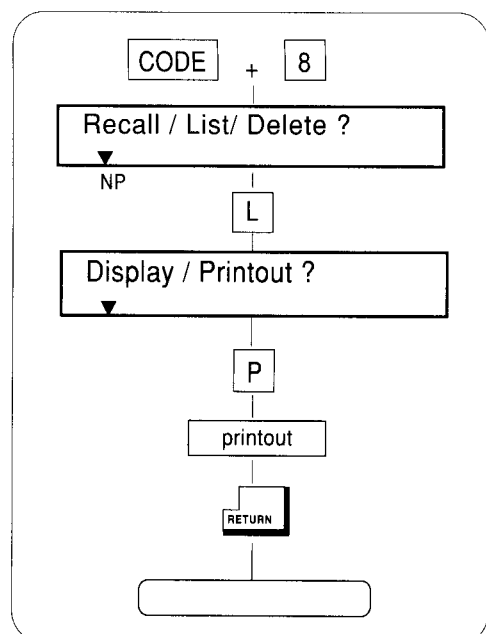
- ☛ The message "NO FILES STORED-␣" appears on the display if there are no files in memory.
- 3) Press the Index key to display the next file in the list. Press the Reverse index key to display the previous file.
- 4) Press the Return key to cancel the list function.

**Printing out of the list of files**

- 1) Hold down the Code key and press the "8" key. The message "Recall/List/Delete?" appears on the display. Press the "L" key.
- 2) The message "Display/Printout?" appears on the display. Press the "P" key to start printing the list. The file type (TEXT, PHRASE, FORMAT), file name, and the characters at the beginning of the file are printed. At the bottom of the list, the number of available characters and the number of stored files in memory are printed.

To temporarily stop printing, press the Return key. The message "PAUSE PRESS-␣" appears on the display. Press the Return key to resume printing.

To cancel printing of the list, press the Space bar.



MEMORY OVERFLOW

If a new file is created when 50 files already exist in memory, the message "ALL FILE SPACE USED " appears on the display. In this event, it is necessary to delete a file before a new one can be created.

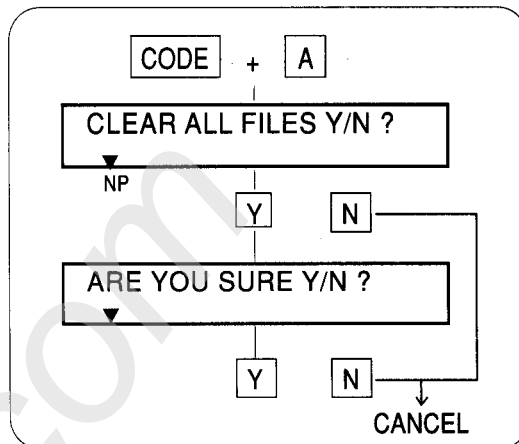
If all of memory is used up, the message "OUT OF MEMORY" appears on the display. In this event, press the Mode key, store the text, and then return to NP mode. Delete any unnecessary files to create space for a new file. (Refer to "FILE DELETION.")

MEMORY ALL CLEAR

- This function cannot be used while in the Store mode. Exit the Store mode and clear the display before using this function.

- 1) Hold down the Code key and press the "A" key. The message "CLEAR ALL FILES Y/N? " appears on the display
- 2) Press the "Y" key. The message "ARE YOU SURE Y/N? " appears on the display asking for confirmation.
- 3) Press the "Y" key again to clear all files.

To cancel the memory all clear function, Press the "N" key at the first or second prompt.



SUPPLIES

PRINTWHEEL

This typewriter is equipped with a nonstandard printwheel. In addition to this printwheel, it is possible to mount a variety of other different types of printwheels on this typewriter.

RIBBON CASSETTE

1) **Black Correctable Film Ribbon**

This typewriter is equipped with a correctable black carbon film ribbon. (This ribbon is not reusable.)

2) **Multi-Strike Ribbon**

This type of ribbon can be used as an option. This ribbon is not reusable either.

CORRECTION TAPE

1) **Lift-Off Correction Tape**

This typewriter is equipped with lift-off correction tape. This type of correction tape can only be used with the correctable black carbon film ribbon that is included as the standard ribbon for this typewriter.

This tape makes corrections by actually lifting the black carbon of typewritten characters off of the paper.

2) **Cover-Up Correction Tape**

This type of tape can be used as an option, and is intended for use with multi-strike ribbon. This type of tape covers up incorrect characters on the paper

CLEANING

Do not attempt to disassemble the typewriter to clean it.

Dust the typewriter lightly, using only a dry cloth.

Never use water or solvents such as thinner, alcohol, etc., to clean your typewriter.

Be careful not to drop any objects (especially pins, paper clips, nail files, etc.) into the typewriter when the top cover is open. These objects could damage the typewriter.

SERVICE

If the typewriter fails to function or does not function properly, check the following:

- Is the typewriter plugged into a live socket?
- Is the typewriter switched on?
- Is the printwheel properly installed?
- Is the ribbon cassette or the correction tape properly installed?
- Is the ribbon cassette or correction tape used up?
- Is the ribbon selector set in accordance with the ribbon type you are using?

If the typewriter still does not work properly after checking the above, contact an authorized service center.

SPELLING CHECK
INSTALLATION PROCEDURE
SPELLING CHECK
OPERATING INSTRUCTIONS

GENERAL CONTENTS

INSTALLATION FOR OPTIONAL SPELLING CHECK.....	24
OPERATING INSTRUCTIONS FOR AMERICAN DICTIONARY.....	28

Notes on Installation and Usage

Notes on Installation

Installation should always be performed by qualified service personnel. Attempts at installation by nonqualified persons could result in damage to the optional equipment or the main unit.

Notes for Service Personnel

- Perform this work in a location where there is little humidity and dust and away from direct sunlight.
- Always turn the power switch off and unplug the power cord before beginning installation work.
- Wear gloves designed for this type of work while performing installation work.
- Static electricity can damage ICs. Take all normal precautions when handling the ICs.
- Always check the shape and orientation of ICs and connectors before plugging them into their sockets. Trying to force an IC or connector into a socket can bend or break the pins.
- When removing and installing components, do not disassemble or touch any components that are not involved. Also be careful not to lose any screws or drop them inside of any of the mechanisms.
- After installation is completed, check the operation of the typewriter before returning it to the customer.

Notes on Usage:

All notes on usage that apply to the typewriter apply to this unit. Re-read the Notes on Usage provided in the typewriter operation manual.

If this unit malfunctions or if an abnormality develops, contact your nearest service center or dealer.

Usage

Installation

Installing this function makes it possible to discover spelling mistakes while typing, so that you can produce text free of misspellings.

- The American dictionary can be used with the American English and British English keyboards.
- The American and Spanish dictionaries can be used with the Spanish and Hispanic keyboards.
- The American and French dictionaries can be used with the French and Canadian French keyboards.
- The American and German dictionaries can be used with the German keyboard.

Typewriters That Permit Installation (Optional) and the Installation Method

Case 1

When the control PCB artwork number is 999-32300, IC202 (gate array) is the NEC μ PD65006CW-A19, and IC203 (EPROM) is suited for the previous keyboard specifications and is not compatible with the spelling check function (Ver. 1.0_):

Conversion work

- Replace IC202 (gate array) with the NEC μ PD65006CW-A22, replace IC203 (EPROM) with one that is suited for the previous keyboard specifications and is compatible with the spelling check function (Ver. 2.0_), solder IC204 in the IC socket, and install the mask ROM.

or,

- Replace IC202 (gate array) with the NEC μ PD65006CW-A22, replace IC203 (EPROM) with a 4-megabit mask ROM (Ver. 3.0_) that is suited for the previous keyboard specifications. Remove the jumper wire from J207 and J209, and connect the jumper wire to J206 and J208.

Case 2

When the control PCB artwork number is 999-32300, IC202 (gate array) is the NEC μ PD65006CW-A22, and IC203 (EPROM) is suited for the previous keyboard specifications and is not compatible with the spelling check function (Ver. 1.0_):

Conversion work

- Replace IC203 (EPROM) with one that is suited for the previous keyboard specifications and is compatible with the spelling check function (Ver. 2.0_), solder IC204 in the IC socket, and install the mask ROM.

or,

- Replace IC203 (EPROM) with a 4-megabit mask ROM (Ver. 3.0_) that is suited for the previous keyboard specifications. Remove the jumper wire from J207 and J209, and connect the jumper wire to J206 and J208.

Case 3

When the control PCB artwork number is 999-32300, IC202 (gate array) is the NEC μ PD65006CW-A22, and IC203 (EPROM) is suited for the previous keyboard specifications and is compatible with the spelling check function (Ver. 2.0_):

Conversion work

- Solder IC204 in the IC socket, and install the mask ROM.

or,

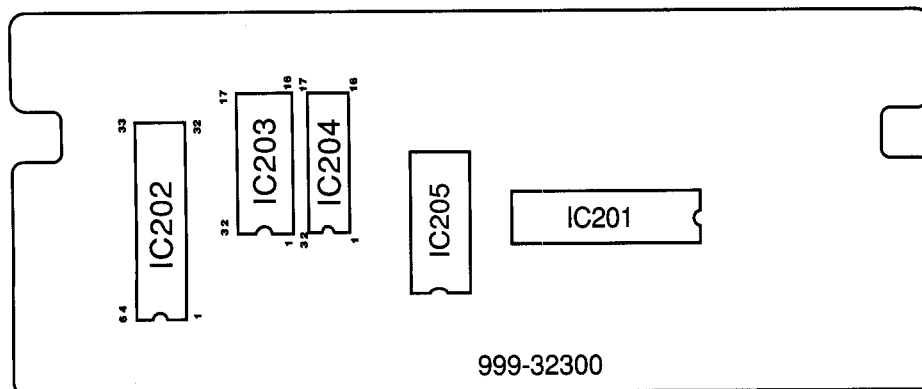
- Replace IC203 (EPROM) with a 4-megabit mask ROM (Ver. 3.0_) that is suited for the previous keyboard specifications. Remove the jumper wire from J207 and J209, and connect the jumper wire to J206 and J208.

Case 4

When the control PCB artwork number is 999-32300, IC202 (gate array) is the NEC μ PD65006CW-A22, and IC203 is a 4-megabit mask ROM (Ver. 3.0_) suited for the previous keyboard specifications:

Conversion work

- None needed



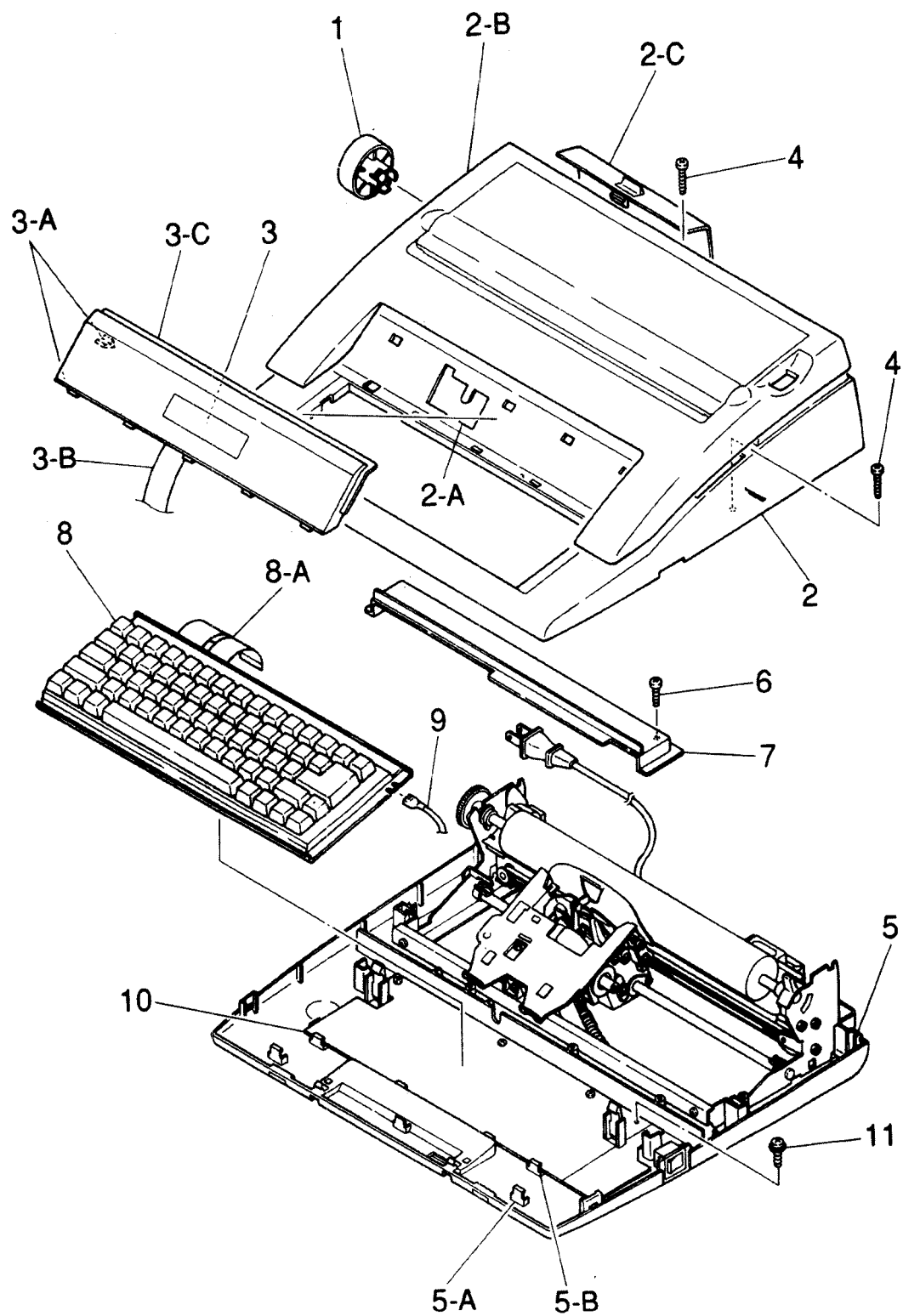
Installation Method

- 1) Pull the platen knob (1) straight off.
- 2) Pushing from the back side of the main cabinet (2), unhook the LCD cover hook (3-A). Note that even when the LCD cover hook (3-A) is unhooked, the LCD cable (3-B) is still connected; therefore, lift the LCD cover (3-C) gently. Disconnect the LCD cable (3-B) from the LCD (3). Pull the LCD cable (3-B) out of the hole (2-A) in the main cabinet.
- 3) Open the top cover (2-B) and the cord cover (2-C), remove the three screws (4), and then remove the bottom cabinet (5) from the main cabinet (2).
- 4) Remove the three screws (6) and remove the PCB cover (7) from the bottom cabinet (6).
- 5) Disconnect the FG wires (9) from the left and right sides of the keyboard. Disconnect the two flat cables (8-A) for the keyboard (8) from the control PCB (10). Unhook the keyboard (8) from the four hooks (5-A) on the bottom cabinet.
- 6) Disconnect the following seven connectors from the control PCB: power supply (CN201), selection motor (CN202), ribbon motor (CN203), carrier motor (CN204), LF motor (CN205), hammer solenoid (CN206), and left end switch (CN207).
- 7) Remove the three screws (11) attaching the control PCB (10) to the bottom cabinet (5), unhook the four hooks (5-B), and remove the control PCB (10).
- 8) On the back side of the control PCB (10), remove the solder from the ICs to be replaced (IC202 and/or IC203), and then install and solder the ICs as described in the conversion work for case 1,2 or case 3. Be sure to match the pin numbers on the PCB with the pin numbers on the ICs.
- 9) Reverse the above procedure and re-assemble the typewriter.

Note:

Do not bend or twist the flat cables (3-B and 8-A) for the keyboard and LCD. In addition, when attaching the main cabinet (2) to the bottom cabinet (5), be careful not to pinch the power cord and lead wires in the hooks or between the cabinets.

Also note that when the control PCB (10) has been removed, it is necessary to be careful to prevent the ferrite core of the LCD from falling out.



SPELLING CHECK OPERATING INSTRUCTIONS

Bilingual Dictionary (American/French, Spanish or German)

LINGUISTIC TECHNOLOGY

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INTRODUCTION

Please be sure to thoroughly read your manual before using your typewriter with the Spelling check option.

The optional Spelling Check is equipped with the two main dictionaries; 80,000-word American dictionary and 136,000-word French, 184,000-word Spanish, 150,000-word German dictionary.

In addition to the main dictionaries, there is the 300-word use dictionary to store any special words, terms or names you need that are not contained in the main dictionaries.

Note:

For your convenience, key function labels are included in the package. Peel off the label and attach it to the front side of the keytop as illustrated in "HOW TO USE SPELLING CHECK".

HOW SPELLING CHECK WORKS

- 1) Spelling check regards a group of letters as a word if followed by a space, tab, return, index/reverse index movement or a number or a non-letter symbol (except a single period or apostrophe.)

Note:

Two groups of letters that are on both sides of a single period, apostrophe, or hyphen at the end of the line are regarded as one word.

- 2) Spelling Check compares each word with the words in both the main and user dictionaries, and detects any words which are not in either dictionary.

The names of major cities, abbreviations for the 50 states, common personal names, and commonly used contractions are also included in the American dictionary. For example: Los Angeles, Tokyo, Ca., John, don't, isn't

- 3) Spelling Check also detects any uncapitalized proper nouns. For example: canada, chicago, tom
- 4) Spelling check also detects abbreviations that do not end with a period. For example: Mr, bldg, etc

HOW TO USE SPELLING CHECK

Turning Spelling Check On/Off

- 1) Hold down the Margin release (SPELL) key and press the "0" (ON/OFF) key to turn on Spelling Check, and again to turn Off.



Note:

If Spelling Check was on when the typewriter was turned Off, it will be automatically turned on when the typewriter is turned On again.

Selecting the main dictionary

If your typewriter is equipped with the American keyboard, you can use the American dictionary only, and cannot select the French, Spanish or German dictionary.

- 1) To select the American dictionary, hold down the Margin release (SPELL) key and press the key to the right of the "0" (ON/OFF) key.
- 2) To select the French, Spanish or German dictionary, hold down the Margin release (SPELL) key and press the second key to the right of the "0" (ON/OFF) key.

Adding words to the user dictionary

- 1) Type the word to be added to the user dictionary.
- 2) Hold down the Margin release (SPELL) key and press the "1" (ADD) key.
A beep sounds, confirming that the word has been added. If it means the word is already registered in the main or user dictionary and it will not be stored again.



Note:

Any words on the current line can be stored in the user dictionary by backspacing to any position under the word to be entered. Any words within the last 500 characters can be stored.

The maximum length for any word added to the user dictionary is 32 characters.

If the user dictionary is full, words with the lowest usage frequency are automatically *deleted* to make room for new entries.

Back-up battery

Spelling Check is provided with a back-up battery which protects data in the user dictionary.

If 5 beeps sound when turning On the typewriter, it indicates the back-up battery has been completely discharged and the contents of the user dictionary have been erased. If this occurs, you must re-enter the contents of the user dictionary.

Deleting words from the user dictionary

- 1) Type the word to be deleted from the user dictionary.
- 2) Hold down the Margin release (SPELL) key and press the "2" (ERASE) key.

A beep sounds, confirming that the word has been deleted. If no beep sounds, it means that the word has not been stored in the user dictionary.

**Note:**

Any words on the current line can be deleted by backspacing to any position under the word to be deleted. Any words within the last 500 characters can be deleted.

Adjusting of beep volume

- 1) Hold down the Margin release (SPELL) key and press the "3" (VOLUME) key.

Any of 10 volume levels can be set. Each time you press the key, the volume increases one step. The volume returns to the first level after it reaches the tenth level.



Printing the list of words in the user dictionary

- 1) Hold down the Margin release (SPELL) key and press the "4" (LIST) key.

The words in the user dictionary are printed in order of usage frequency in a predetermined format.



- 2) The list in the user dictionary is printed in alphabetical order. Hold down the Margin release (SPELL) key and press the "9" (A.LIST) key.



Note:

If the user dictionary is empty, the expression "NO WORD" appears on the display.

Press the Return key to temporarily stop printing. Press the Return key again to restart printing.

Press the Spacebar to cancel printout.

Suggesting words from the dictionaries

You can display the suggested words that are similar to a word.

- 1) Type the word in question.
- 2) Hold down the Margin release (SPELL) key and press the "6" (SUG) key. A suggested word appears on the display.
- 3) Press the Index key to display the next suggested word. Press the Reverse index key to redisplay the previous word.
- 4) When the desired word appears on the display, press the Return key to automatically replace it. (If you typed the word in question on paper, it cannot be replaced.)



Note:

Hold down the Margin release key and press the "6" (SUG) key again to cancel the function without replacing the word.

"Complies with the limits for a Class B computing device pursuant to Subpart J of Part 15 of FCC Rules.

CORRECTEUR ORTHOGRAPHIQUE MANUEL D'INSTRUCTIONS

Dictionnaire bilingue (américain/frçais)

TECHNOLOGIE LINGUISTIQUE
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INTRODUCTION

Veuillez lire attentivement ces instructions avant d'utiliser une machine à écrire avec l'option Correcteur orthographique.

Le correcteur orthographique en option est pourvu de deux dictionnaires principaux: un dictionnaire américain de 80.000 mots et un dictionnaire français de 136.000 mots.

En plus des deux dictionnaires principaux, il est pourvu d'un dictionnaire personnel de 300 mots dans lequel vous pourrez entrer tous les mots, termes ou noms propres spéciaux qui ne se trouvent pas dans les dictionnaires principaux.

Nota:

Pour plus de commodité des étiquettes auto-collantes indiquant la fonction des touches sont incluses dans l'emballage. Enlevez le film protecteur et posez les étiquettes sur la partie avant de la touche de la manière illustrée sous le titre "MODE D'UTILISATION DU CORRECTEUR ORTHOGRAPHIQUE".

FONCTIONNEMENT DU CORRECTEUR ORTHOGRAPHIQUE

- 1) Le correcteur orthographique interprète comme un mot tout groupe de caractères suivi par un espace, une tabulation, une commande de changement de ligne, un mouvement d'Index/index inverse ou un nombre ou un symbole qui n'est pas un caractère (sauf un point ou une apostrophe).

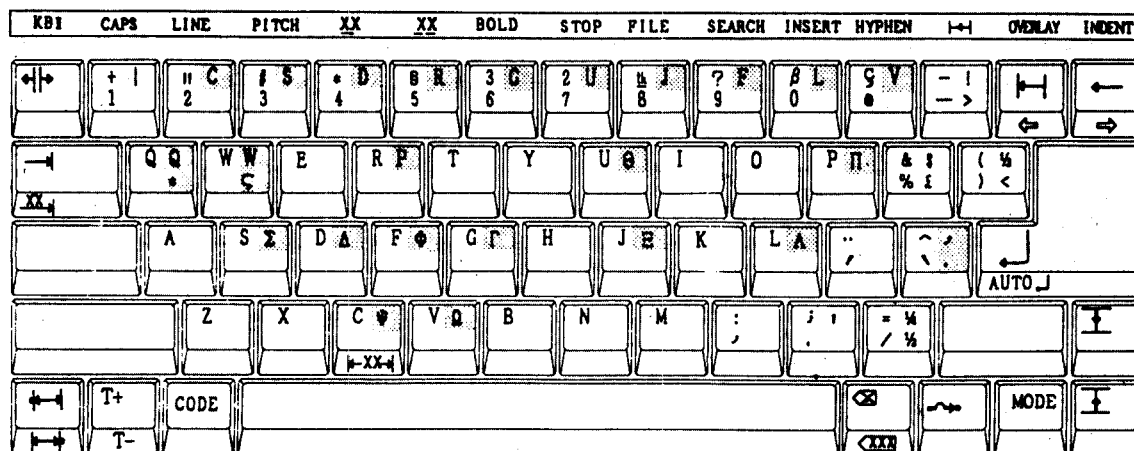
Nota:

Deux groupes de caractères placés de part et d'autre d'un point, d'une apostrophe ou d'un trait d'union en fin de ligne sont interprétés comme un seul et même mot.

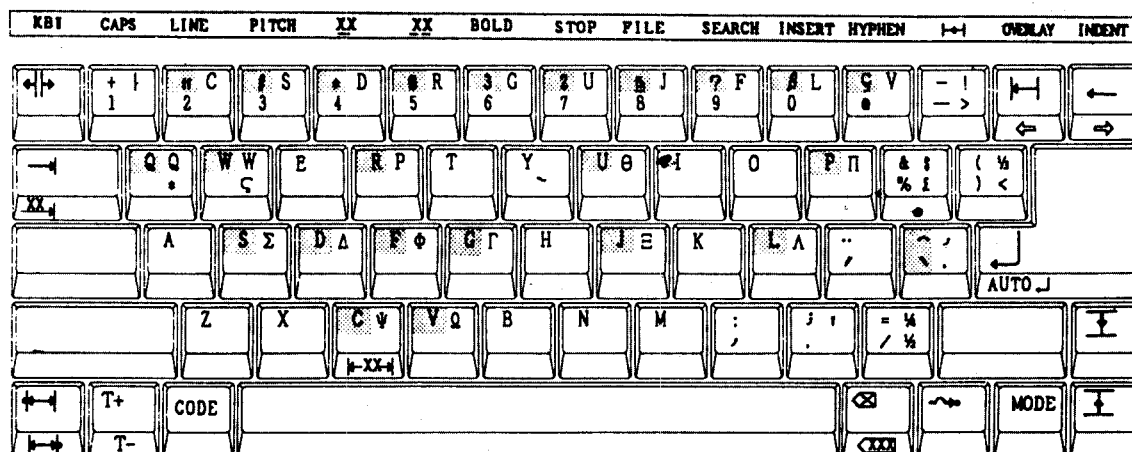
NOTES CONCERNING THE GREEK/LATIN KEYBOARD

On this typewriter, you can use the keyboard for two types of character-set corresponding to the installed printwheel; Latin or Greek/Latin.

When the Latin printwheel is installed, the characters shown below are printed. (Blackened characters are not printed).

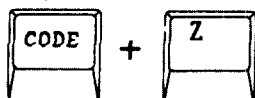


When the Greek/Latin printwheel is installed, the characters shown below are printed. (Blackened characters are not printed).



Switching the Keyboard setting-switching the display characters

So that the characters on the display correspond to the characters of the installed printwheel (Latin or Greek/Latin), switch the keyboard setting. The Latin keyboard is set when you use this typewriter for the first time.



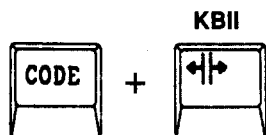
Hold down the Code key and press the "Z" key to change to Greek/Latin keyboard. To change back to the Latin keyboard, hold down the Code key and press the "Z" key again.


Please make the following corrections to your operating instructions manual.

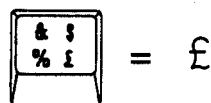
KEYBOARD II (SPECIAL CHARACTERS)

The instructions for this function should read:

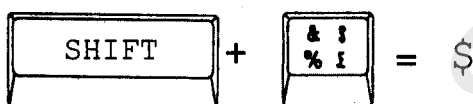
The symbols located at the right side of the four-character keys can be typed with the following procedure.



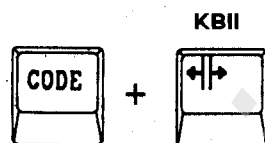
- 1) Hold down the Code key and press the Margin Release () key to activate the second keyboard.




- 2) To type the symbol on the lower right of the key, simply press the key with the desired symbol.



To type the symbol on the upper right of the key, hold down the Shift key (or Shift Lock key) and press the desired key.



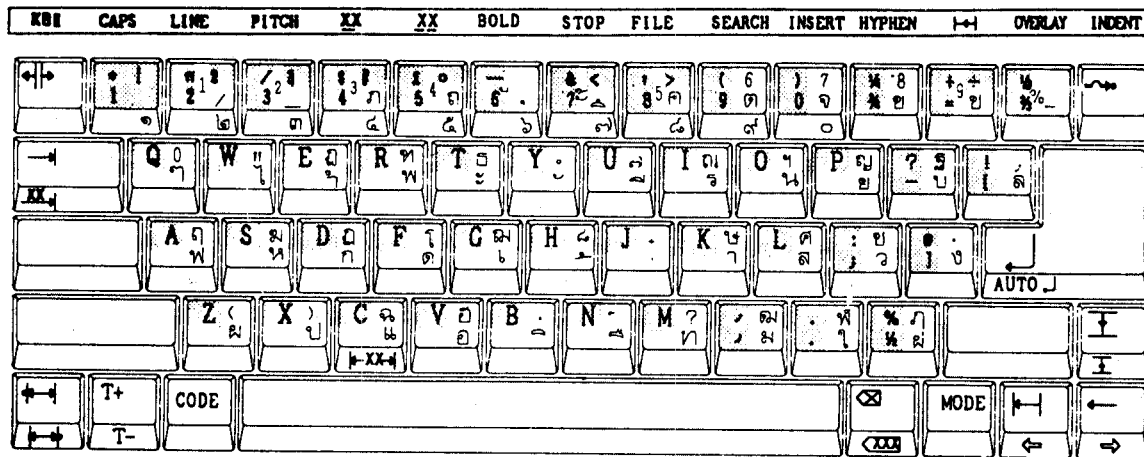
- 3) To terminate the second keyboard, hold down the Code key and press the Margin Release () key again.

NOTES CONCERNING THE THAI KEYBOARD

On this typewriter, you can use the keyboard for two types of character-set corresponding to the installed printwheel; Thai or UK.

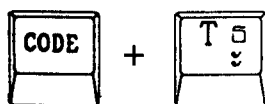
When the Thai printwheel is installed, the characters shown below are printed. (Blackened characters are not printed).

(Thai/UK)



Switching the Keyboard setting-switching the display characters

So that the characters on the display correspond to the characters of the installed printwheel (Thai or UK), switch the keyboard setting. The Thai keyboard is set when you use this typewriter for the first time.




Hold down the Code key and press the "T" key to change to UK keyboard. To change back to the Thai keyboard, hold down the Code key and press the "T" key again.

Note:

When the Thai mode is selected, a "▼" mark appears above "THAI" on the display.

Please make following corrections to your operating instructions manual.

P5 REVERSE INDEX KEY

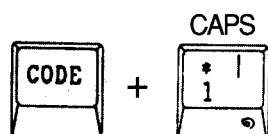
While holding down the Code key, press the Index key ().

P5 SUPERScript/SUBScript

The Superscript/Subscript function cannot be used in either the Thai mode or the UK mode.

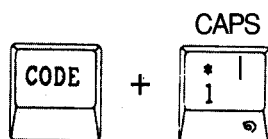
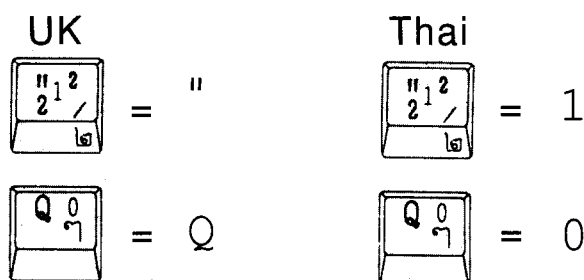
P7 CAPSLOCK

This function can be used to enable typing of characters in the upper half of key tops.



Press the "1" (caps) key together with CODE.
The buzzer sounds once.

(Examples)

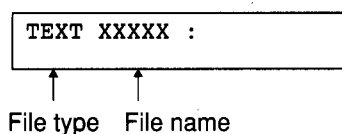


To cancel the function, press "1" (caps) together with CODE a second time. The buzzer sounds twice to indicate that the function is cancelled.

P13 The function described under "Inserting a Phrase File within a Text File" cannot be used in either the Thai mode or the UK mode.

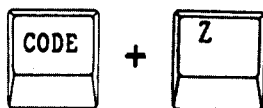
P18 LIST OF FILE IN MEMORY

List printing is not possible in either the Thai mode or the UK mode. Also, the list displayed on the screen includes only the types and names of files.



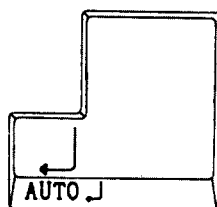
As an additional function, backspacing is possible in 1/120-inch increments. Each time you press the Back Space Key while holding down the Code Key, the carriage moves 1/120 of an inch to the right, allowing very precise character positioning.

- As an additional function, shows exactly how much memory is still available.



- 1) Hold down the Code key and press the "Z" key.
The amount of memory still available in memory is displayed.

16000 CHRS AVAILABLE



- 2) Press the Return key to Cancel the function.

UNPACKING INSTRUCTIONS

