Canon

ELECTRONIC TYPEWRITERS

Typestar™ 7

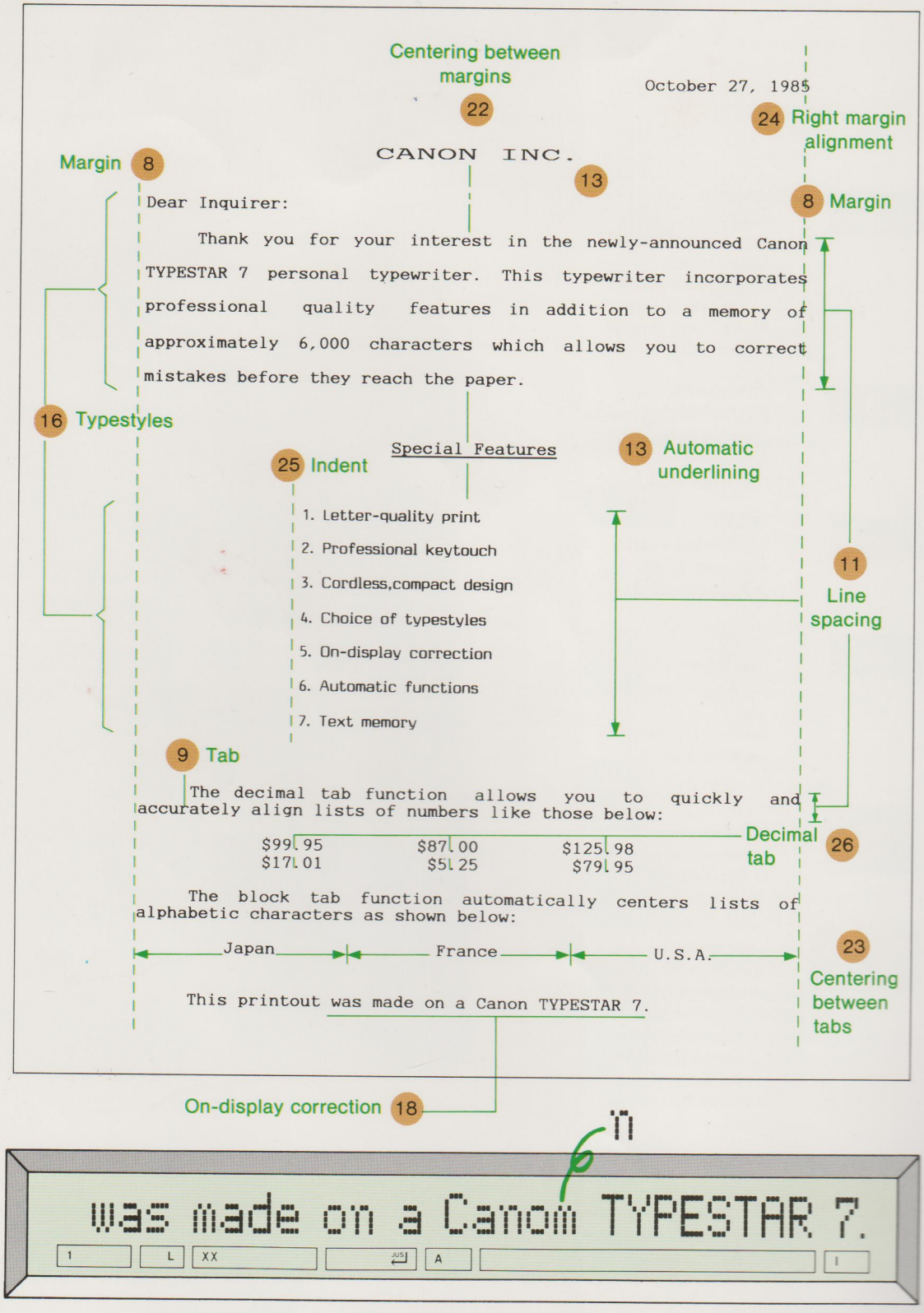
PERSONAL TYPEWRITER

Instructions

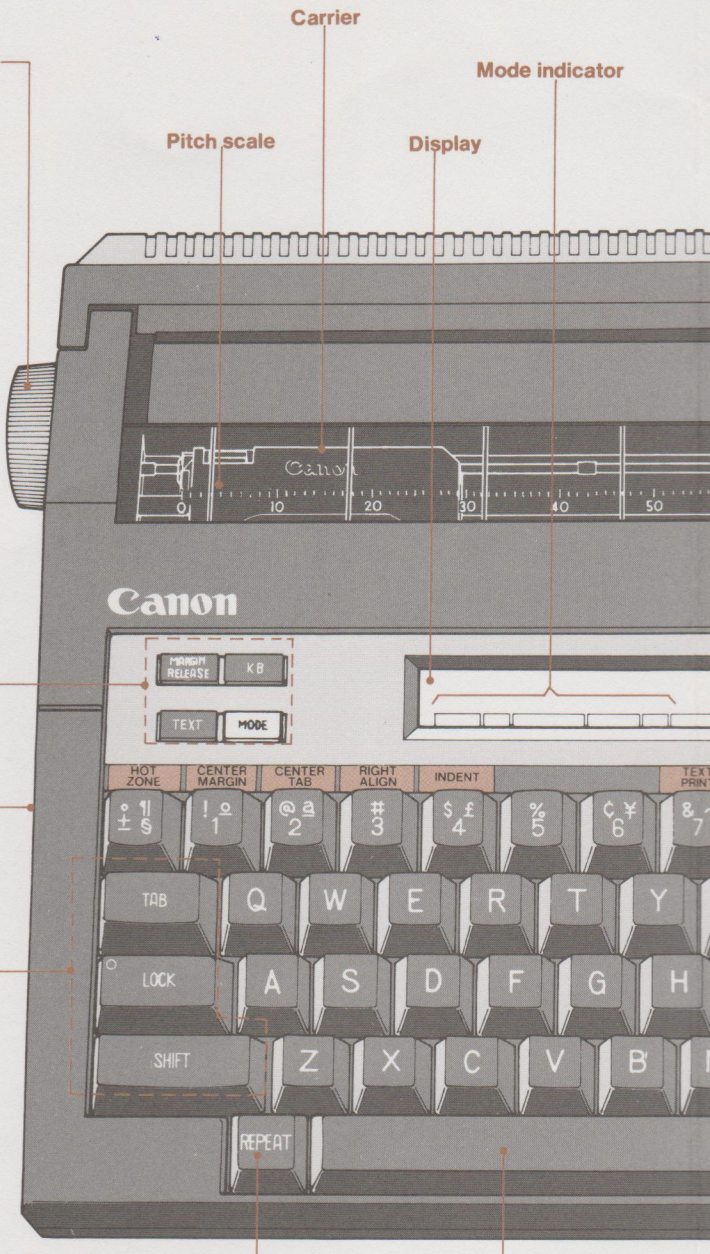
English Edition (U.S.A.)

FUNCTION INDEX

Page numbers are circled for quick reference.



PARTS AND KEY FUNCTIONS



MARGIN RELEASE

MARGIN RELEASE
Used to release the margin when:
1) You wish to type beyond the margin.
2) You wish to reset a margin.

KB

KEYBOARD SELECTOR
Controls keys for typing alternative character sets.

TEXT

TEXT
Used to store texts. Also used to display, print or clear texts.

MODE

MODE
Used to set typing modes and formats.

RAM and typestyle cartridge port

TAB

TAB
Used to move the carrier to the next tab or right margin.

LOCK

SHIFT LOCK
Used to set the typewriter for continuous typing of:
1) Upper case letters.
2) Characters shown on the top half of some keys.

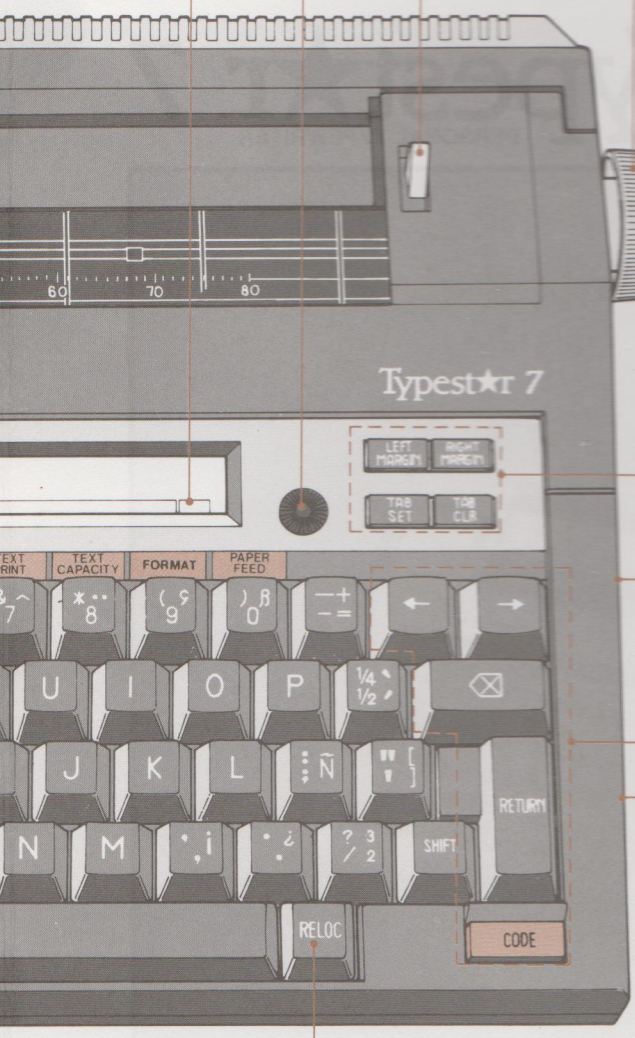
Press shift to release this key.

SHIFT

SHIFT
Used to type:
1) Upper case letters.
2) Symbols shown on the top half of some keys.

REPEAT
Used to repeat the last printed or displayed character.

SPACE
Used to insert a space or move the carrier one space to the right.



LEFT MARGIN
Used to:
1) Set the left margin.
2) Move the cursor word-by-word to the left when stored text is displayed.

RIGHT MARGIN
Used to:
1) Set the right margin.
2) Move the cursor word-by-word to the right when stored text is displayed.

TAB SET
Used to set tabs.

TAB CLEAR
Used to clear tabs and decimal tabs.

CURSOR LEFT/ BACK SPACE ★
Used to move the carrier or cursor one space to the left.

CURSOR RIGHT ★
Used to move the cursor one space to the right.

CANCEL
Used to erase the last character displayed.

RETURN ★
Used to return the carrier to the left margin or an indented position on the next line.

CODE
Used to perform various automatic functions when used in conjunction with other keys.

RELOCATE
Used to:
1) Relocate the cursor after correction on the display.
2) Move the carrier to the farthest-right entry position on the same line.
3) Move the cursor to the end of the text when a stored text is displayed.

★ Auto Repeat Key: When pressed continuously, the function of this key is repeated automatically.

INTRODUCTION

This manual describes the various features of the new TYPESTAR 7 (S-70). This personal electronic typewriter offers you the latest technology in a compact, easy-to-use package.

Before using this typewriter, it is recommended that you read this manual carefully to ensure effective and satisfactory operation of your new TYPESTAR 7.

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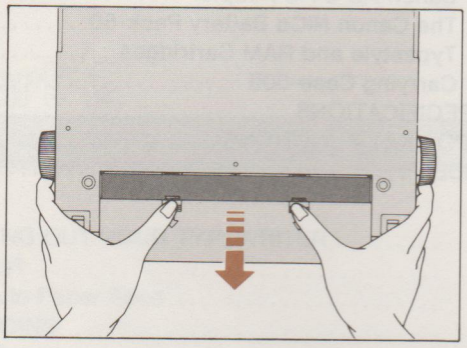
Part 1

BEFORE USING YOUR TYPESTAR 7

BATTERIES

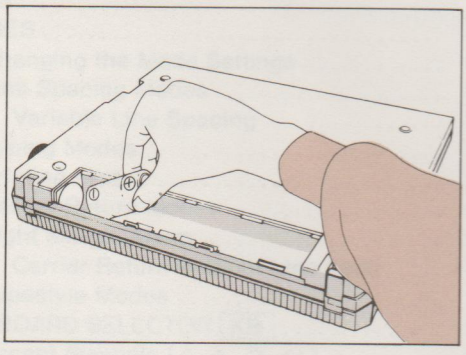
Your TYPESTAR 7 operates on four size-D (R20) batteries.

You can also use the AC adapter or NiCd battery pack (options) to operate your Typestar 7. (See page 67.)



1. First turn off the power switch of your typewriter. (See page 7.)

2. Turn the typewriter over and open the battery cover by sliding it in the direction indicated by the arrow.



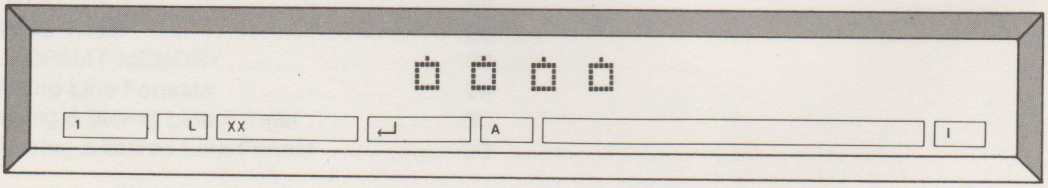
3. Load four size-D (R20) batteries, with the positive pole facing right (shown to the left and also in the bottom of the battery case). Then slide the battery cover back into place until you hear a click.

CAUTION

- Replace all four batteries at the same time.
- Use batteries of the same rating and manufacturer.
- Loading batteries in reverse polarity will result in a short circuit.

Battery Change Indicator

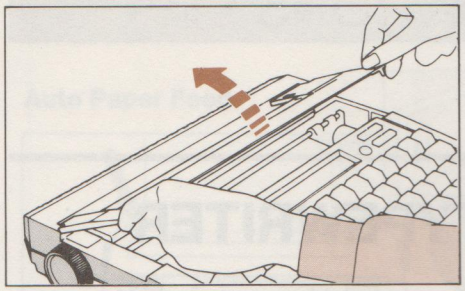
When the batteries start to lose their charge, the symbols shown below will appear on the display. This means that batteries should be replaced immediately.



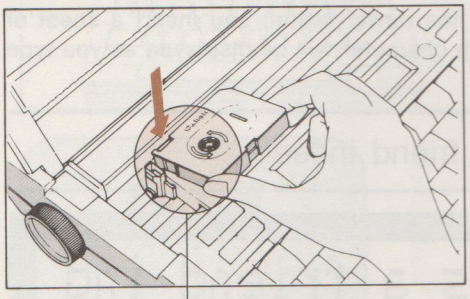
- It is recommended that you complete the exchange within 30 minutes to avoid erasing the contents of the stored text and line format.

RIBBON CASSETTES

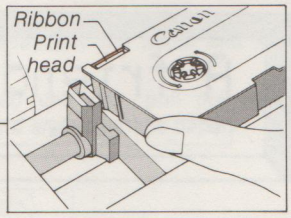
Loading



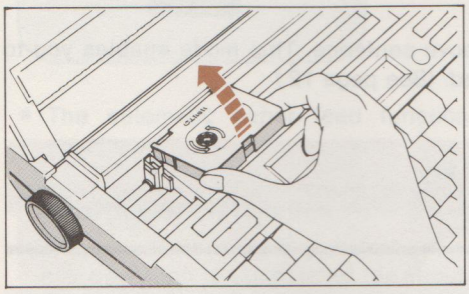
1. Open the hood.



2. After taking up any slack in the ribbon, press down gently on the cassette until it clicks into place on the carrier.
   - Be sure the ribbon is positioned between the platen and the print head.
3. Close the hood.



Removing

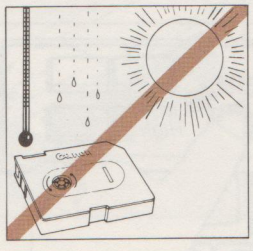


Hold the cassette as shown and lift up.

- If the print head is too close to the platen, the cassette may be difficult to remove. In such a case, turn the power switch on to reset the printing head and then off again.

- You can use one ribbon cassette to type about 32,000 characters.
- Black, red, and blue ribbon cassettes listed below are available for use with the TYPESTAR 7.

Please note the following product numbers:
Black : IR-50II
Red : IR-51II
Blue : IR-52II



CAUTION

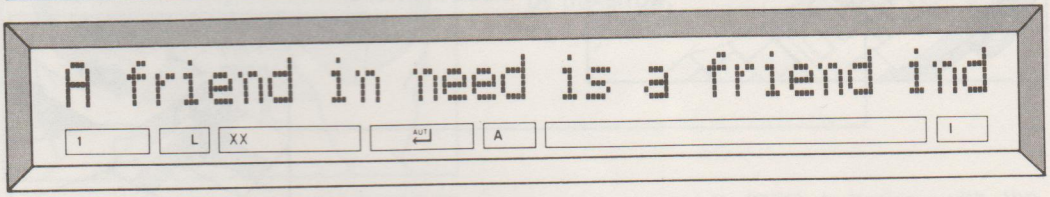
- Store spare cassettes in a cool, dry place.

Part 2
BASIC TYPING OPERATIONS

TRYING OUT YOUR TYPEWRITER

Now it's time to try your hand at typing. Turn on the power switch and insert a sheet of paper. (See page 7.) Type the sentence below. Each character will be displayed as you type it.

A friend in need is a friend indeed.



When you've entered the entire sentence, press RETURN to print it. It should look like this.

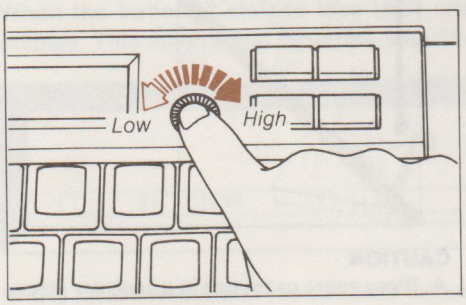
```
A friend in need is a friend indeed.
```

You just used the line-by-line mode to print the above sentence. This mode enables you to check and correct characters before they are printed. (See page 12.)

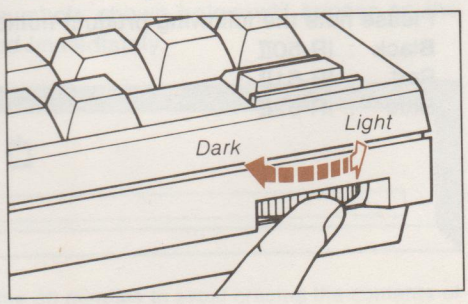
To type upper case characters, press the SHIFT key.

You can adjust the contrast of the display or density of the print by using the dials shown below.

Display contrast dial



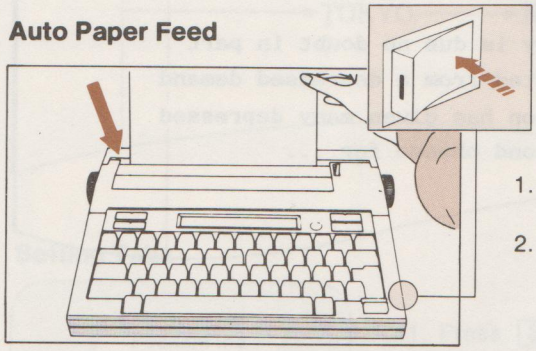
Print density dial



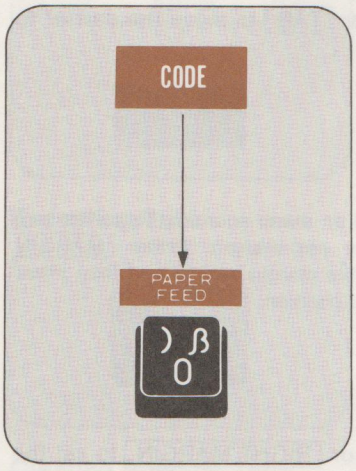
PAPER

Your TYPESTAR 7 provides both automatic and manual paper-feed functions. Canon recommends using paper of the same thickness and texture as the sample included with your TYPESTAR 7.

Auto Paper Feed

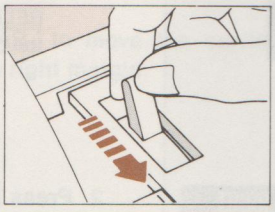


1. Turn on the power switch of the typewriter.
2. Insert a sheet of paper as shown.



3. Press CODE and then PAPER FEED.

- The paper is automatically fed about one inch (approx. 2.5 cm).
- If the paper is fed unevenly, pull the paper release lever forward and adjust the paper.



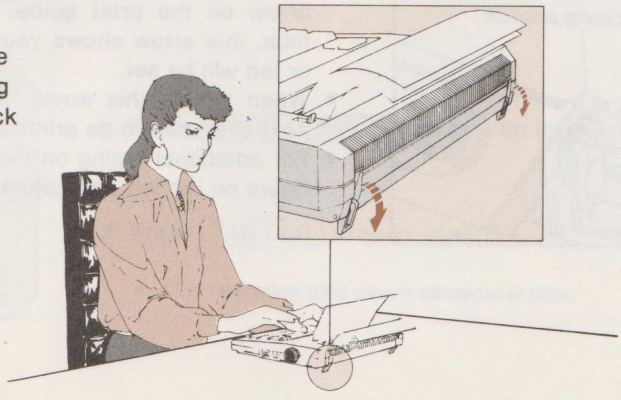
- The automatic paper feed function may not operate properly with some types of envelopes.

Auto power off function

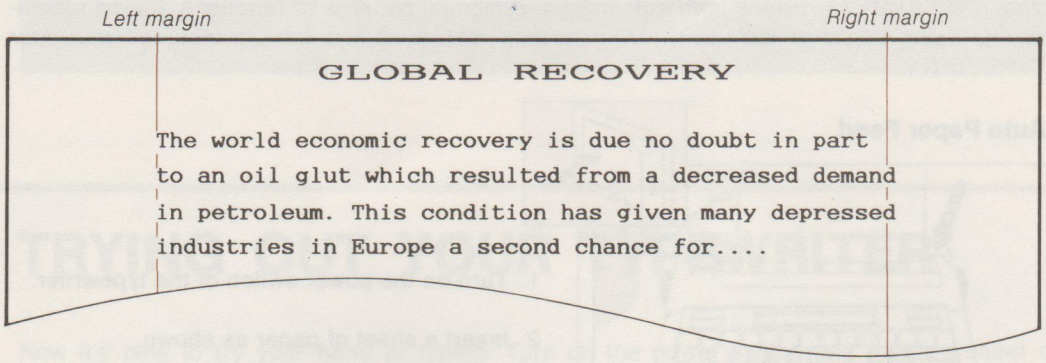
To prevent unnecessary power consumption, the power goes off automatically when key operation is suspended for about 15 minutes. To resume operation, turn the power switch off and then on again.

Keyboard Angle

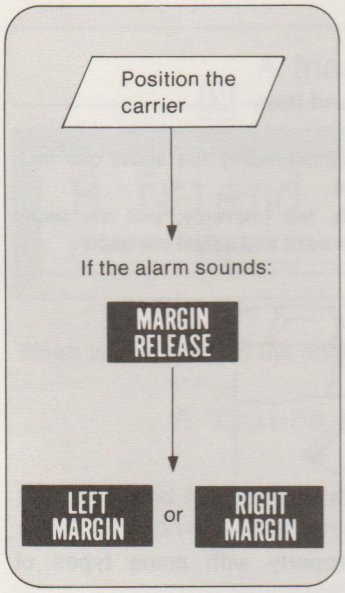
You can change the angle of the keyboard by folding down the legs on the back side of the typewriter.



MARGINS



Key operation



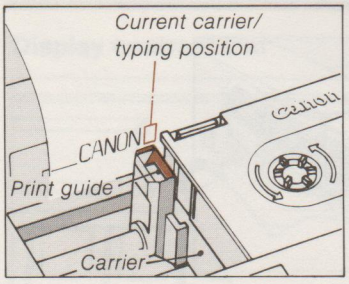
1. Press SPACE, ←, or TAB to move the carrier to the desired position.

- If the carrier stops and an alarm sounds, the carrier has reached the currently set margin. Press MARGIN RELEASE to release this margin setting and then move the carrier to the desired position.

2. Press LEFT MARGIN or RIGHT MARGIN to set the margin. The old margin will be cleared automatically.

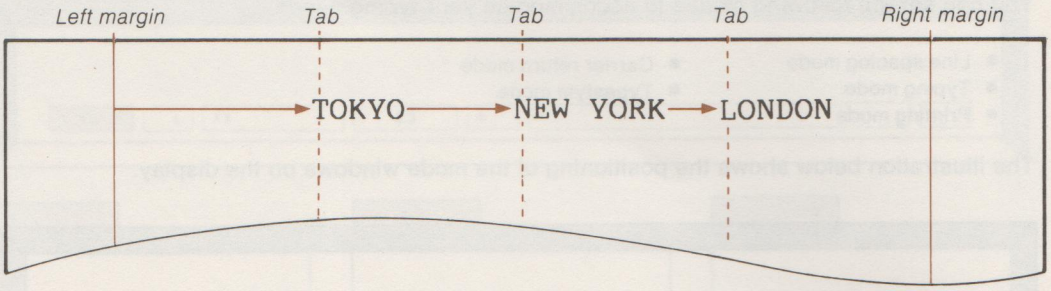
- The minimum allowable spacing between margins is about one inch (approx. 2.5 cm). If you try to set the margins with less than one inch between them, the alarm will sound.

Carrier and printing position

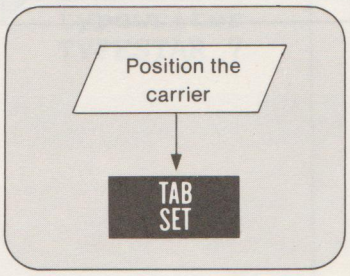


- The carrier and printing position is indicated by an arrow on the print guide. When setting margins or tabs, this arrow shows you exactly where the margin or tab will be set.
- When typing, this arrow indicates the center of the next character to be printed.
- For additional typing on the previous line, refer to the figure on the left and adjust the horizontal position.

TABS

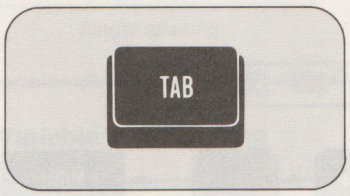


Setting Tabs



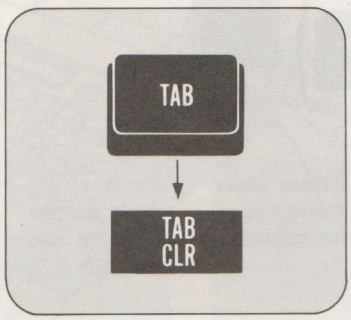
1. Press SPACE or ← to move the carrier to the desired position.
2. Press TAB SET to set the tab.
   - A total of sixteen tabs and decimal tabs (see page 26) can be set. The alarm will sound if you attempt to exceed this number.

Executing Tabs



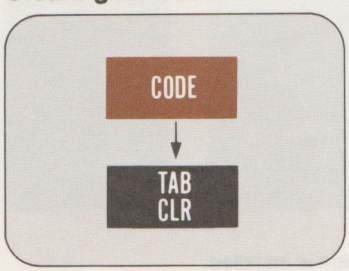
1. Press TAB to move the carrier to the next preset tab or the right margin.

Clearing Specific Tabs



1. Press TAB to move the carrier to the tab to be cleared.
2. Press TAB CLR to clear the tab.

Clearing All Tabs



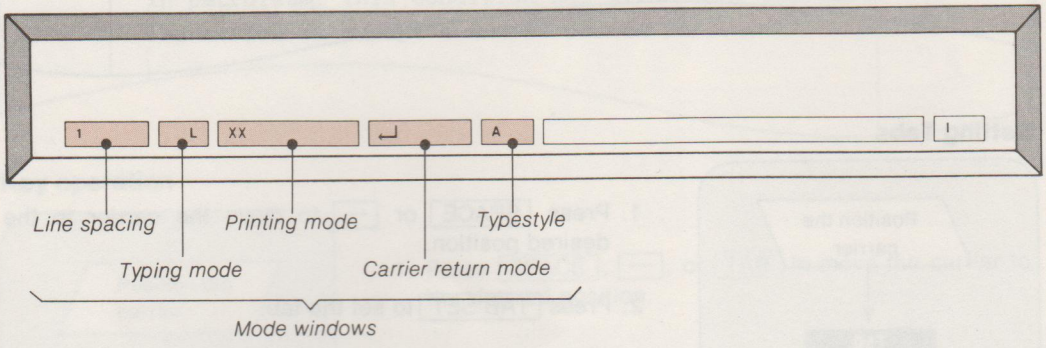
1. Press CODE. CODE appears on the display.
2. Press TAB CLR to clear all tabs.
   - This operation also clears all decimal tabs.

MODES

You can set the following modes to accommodate your typing needs.

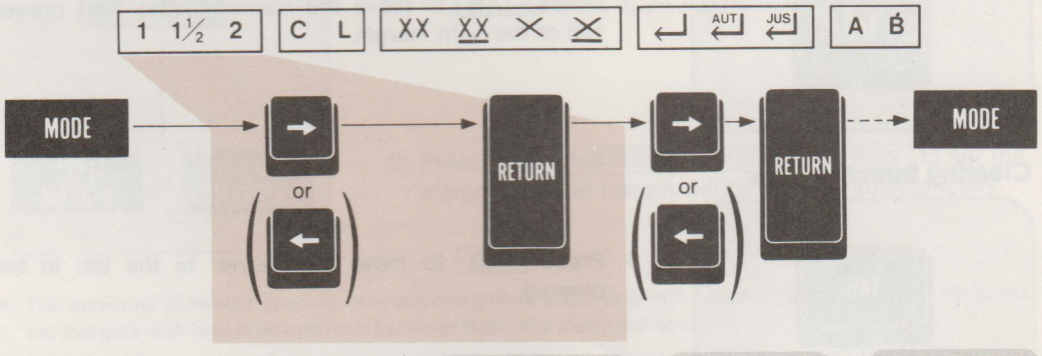
- Line spacing mode
- Typing mode
- Printing mode
- Carrier return mode
- Typestyle mode

The illustration below shows the positioning of the mode windows on the display.



Changing the Mode Settings

The current settings are displayed in the mode windows during typing. To change any of these settings, follow the procedure below.



Press [MODE] to begin the operation. Available modes in the first window will be displayed. The blinking mode is the current setting.

1 1½ 2

Press [→] or [←] to move the blinker to the desired mode.

1 1½ 2

Press [RETURN] to set the desired mode. The blinker will then move to the current setting in the next window.

1½

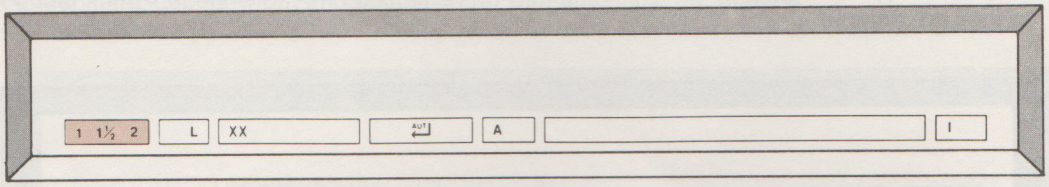
- Repeat steps 2 and 3 as necessary.

Press [MODE] again to complete the operation.

- Typestyle mode B cannot be set unless an optional typestyle cartridge is installed.

Line Spacing Modes

You can choose from three different line space settings.



1

Canon
personal
typewriter
TYPESTAR 7

Single spacing

1½

Canon
personal
typewriter
TYPESTAR 7

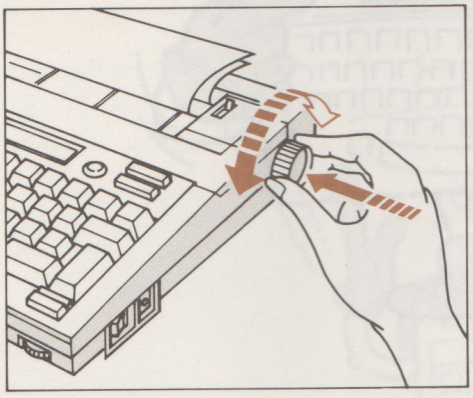
Line-and-a-half spacing

2

Canon
personal
typewriter
TYPESTAR 7

Double spacing

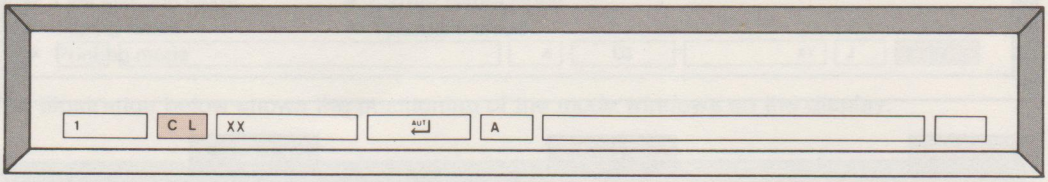
Variable Line Spacing



You can adjust the paper to a different typing line by pushing in on the right platen knob while turning it either clockwise or counterclockwise. This feature enables you to reposition the paper for additional typing or typing preset forms.

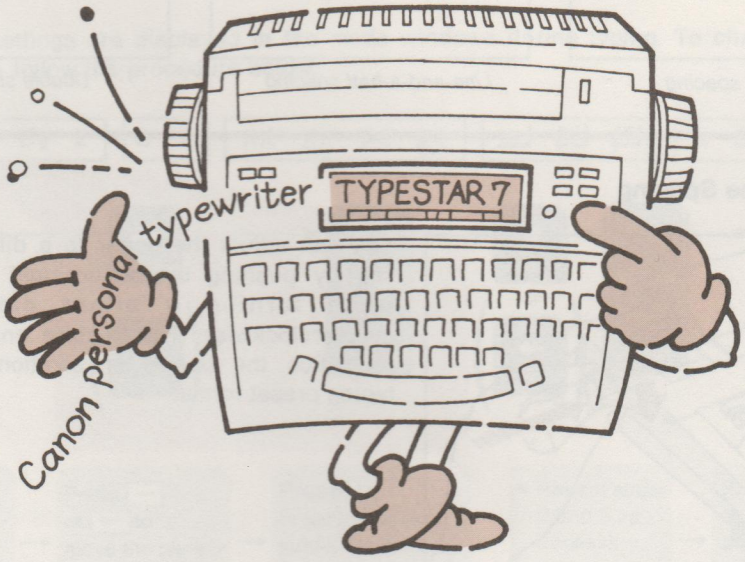
Typing Modes

The TYPESTAR 7 has two typing modes: "C" for character-by-character typing and "L" for line-by-line typing. If you select the line-by-line mode, characters will appear on the display as they are entered.



C **Character-by-character mode**
Each character is printed as it is entered, just as on a conventional typewriter. The display remains empty.

L **Line-by-line mode**
Characters are displayed as they are entered for easy checking or correction before printing. They are printed out by pressing RETURN or TAB.

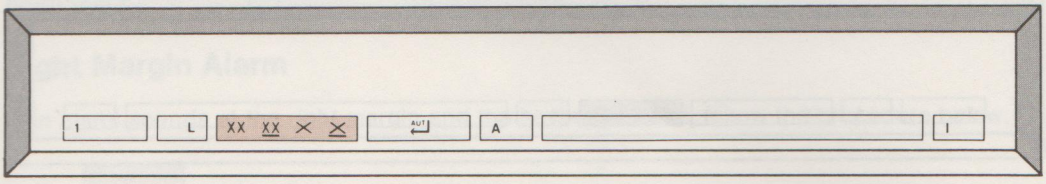


- For efficient use of the ribbon, we recommend line-by-line typing.

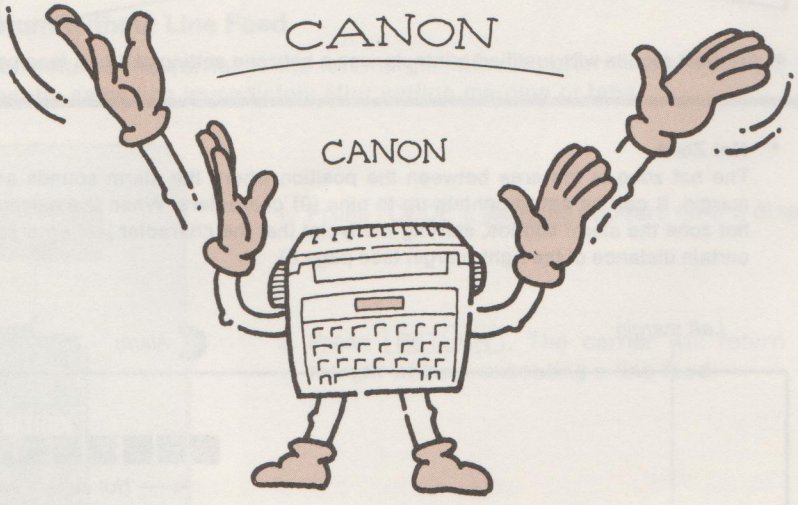
Key Buffer
The key buffer in your TYPESTAR 7 is a memory that holds characters temporarily when the typing speed is faster than the printing speed. This feature allows you to type without stopping even when the previous line is being printed.

Printing Modes

The TYPESTAR 7 offers four different printing modes: normal, normal with automatic underlining, double-width and double-width with automatic underlining.

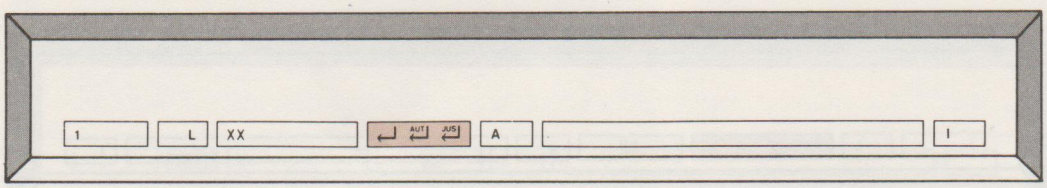


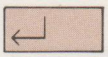
Setting	*Function*	*Display*	*Printout*
XX	**Normal print**	CANON	CANON
XX	**Underlined print**	CANON	CANON
×	**Double-width print**	CANON	CANON
×	**Underlined double-width print**	CANON	CANON



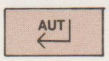
Carrier Return Modes

You can choose from three different carrier return modes: manual, automatic, and margin justification.

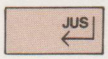




Manual carrier return
The carrier returns only when RETURN is pressed.

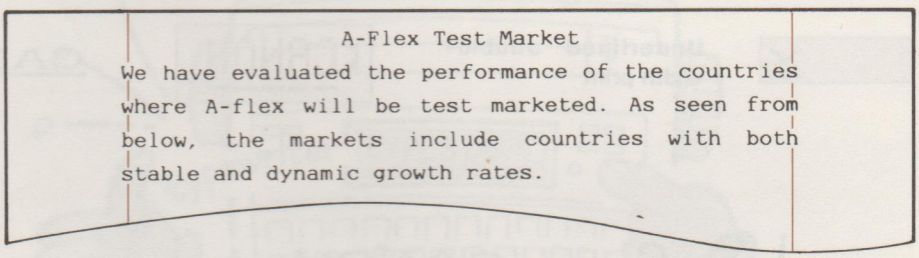


Automatic carrier return
The carrier returns automatically when a space or hyphen is typed in the hot zone*.



Margin justification
The text is automatically spaced so that the last word typed on each line is aligned on the right margin when a hyphen or space is entered in the hot zone*. Even if the typewriter is set for character-by-character printing (C), the characters entered will be displayed and printed line-by-line.

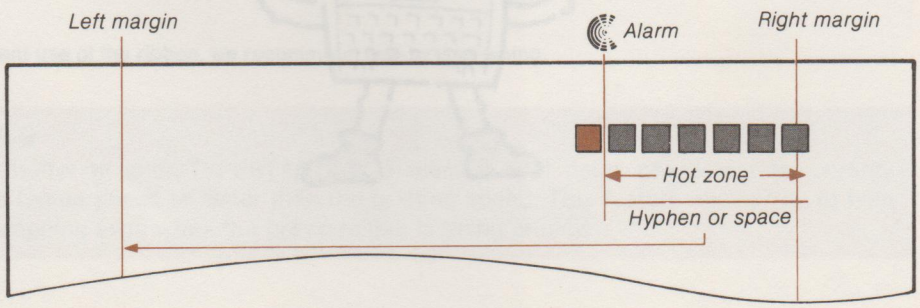
Example: Justified printout



- For best results with justified printouts, use a hot zone setting of 4 or 5 (see page 20).

---

* **Hot Zone**
The hot zone is the area between the position where the alarm sounds and the right margin. It can be set to contain up to nine (9) characters. When the carrier enters the hot zone the alarm sounds, alerting the typist that the character just entered is within a certain distance of the right margin (see page 8).



In the illustration above, the hot zone is set to 5.

- If your typewriter is set in the automatic carrier return [AUT ↵] or margin justification [JUS ↵] mode, the carrier will automatically return to the left margin of the next line when a space or hyphen is typed in the hot zone. For continued typing after entering a space or hyphen in the hot zone, use the permanent space or hyphen function (see page 21).

Right Margin Alarm

If an alarm sounds at the right margin and the keyboard locks, follow the procedure below.

In the [↵] mode:

- Press [MARGIN RELEASE] to continue typing beyond the right margin.
- When typing in the line-by-line mode, it is recommended that you use the [⌫] key to erase the character(s) at the right margin and then press [RETURN] to return the carrier.

In the [AUT ↵] mode:

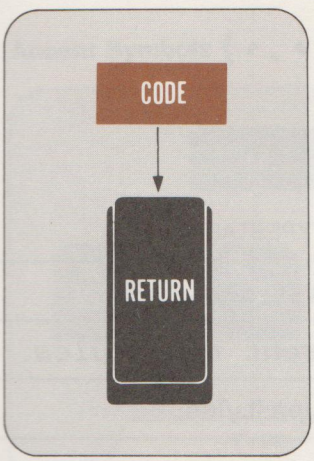
- Press [MARGIN RELEASE] to continue typing beyond the right margin, and then type a space or hyphen to return the carrier.
- When typing in the line-by-line mode, it is recommended that you use the [⌫] key to erase the last character(s) and then type a space or hyphen to return the carrier. (The [⌫] key begins to erase characters when pressed a second time.)

In the [JUS ↵] mode:

- It is recommended that you use the [⌫] key to erase the last character(s) and then type a space or hyphen to return the carrier. (The [⌫] key begins to erase characters when pressed a second time.)

Carrier Return Without Line Feed

This function returns the carrier to the left margin without performing a line feed. It is useful for typing on the same line immediately after setting margins or tabs.

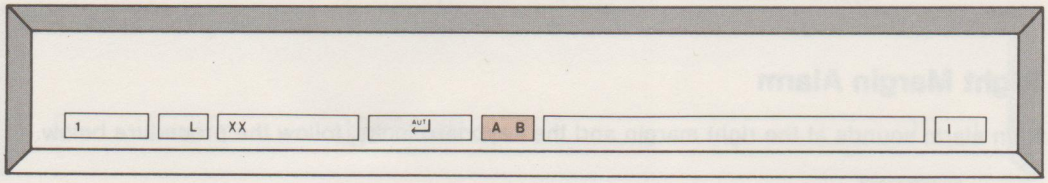


1. Press [CODE]. [CODE] appears on the display.
2. Press [RETURN]. The carrier will return to the left margin without executing a line feed.

- If characters are entered on the display, the alarm sounds and this operation is not performed.

Typestyle Modes

The TYPESTAR 7's built-in typestyle is COURIER 10. A variety of other optional typestyle cartridges are available.

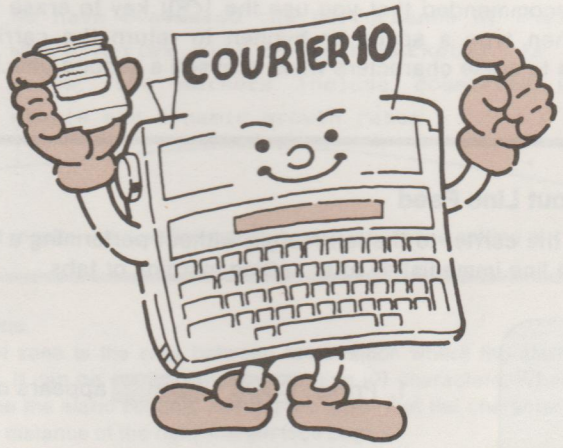


A : Setting "A" corresponds to Courier 10. This means that 10 characters will be printed per inch. An example of this typestyle is shown below.

> Take care of the pence, and the pounds will take care of themselves.

B : Setting "B" corresponds to the optional typestyle cartridge that is inserted.

- The typestyle mode cannot be set to "B" unless an optional typestyle cartridge is inserted.



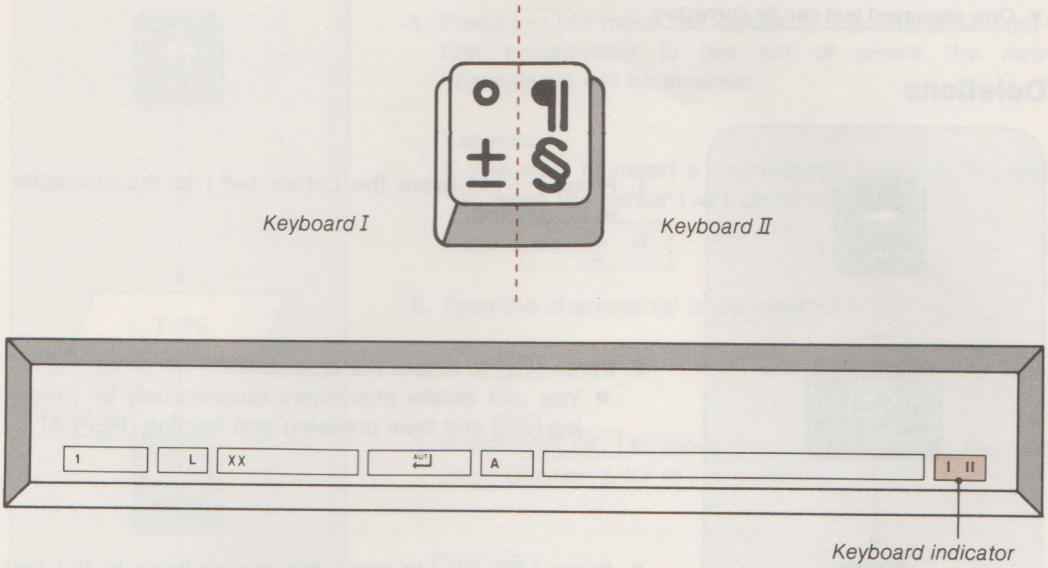
An example of each typestyle is shown below.

The following typestyle cartridges are available for use with the TYPESTAR 7.

COURIER 12 II	You can type in different typestyles.
COURIER ITALIC 10II	*You can type in different typestyles.*
CUBIC* PS II	You can type in different typestyles.
ARMERIA PS II	You can type in different typestyles.
DICTIONARY PS II	You can type in different typestyles.

KEYBOARD SELECTOR KB

This selector controls only those keys that have three or four characters on the keytop.



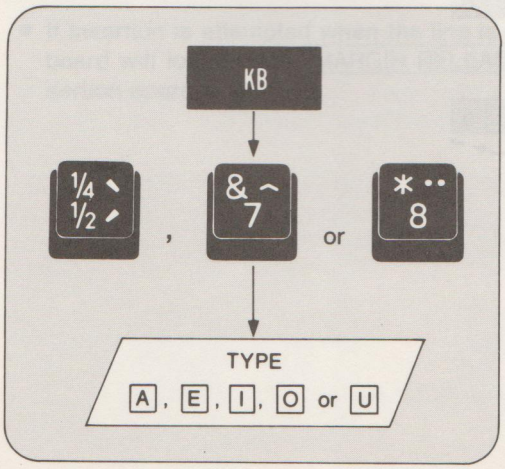
To alternate character sets, simply press KB. The setting will be displayed on the keyboard indicator.

Keyboard Indicator

I — **Keyboard I:**
Prints the character(s) on the left side of the keytop.

II — **Keyboard II:**
Prints the character(s) on the right side of the keytop.

Accent Symbols (´ , ` , ^ , ¨)



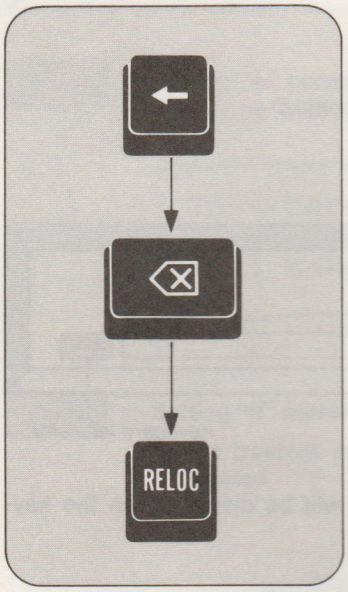
1. Make sure Keyboard II is displayed.
2. Press SHIFT if typing a symbol on the top of a keytop.
3. Type the desired accent symbol , or .
4. Type the desired letter of the alphabet.

CORRECTIONS

When your TYPESTAR 7 is set for line-by-line typing, corrections can be made quickly and easily on the display before they are printed.

- Only displayed text can be corrected.

Deletions



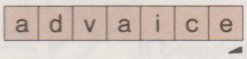
1. Press [←] to move the cursor (◢) to the character to be deleted.

2. Press [⌫] to delete the character.
   - You can delete characters continuously by pressing [⌫] and then pressing and holding [REPEAT].

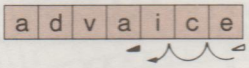
3. Press [RELOC] to move the cursor back to the last entry position prior to correction.

Example:

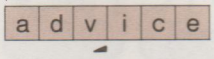
Suppose you typed "advaice" instead of advice.



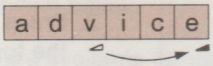
1. Press [←] three times.



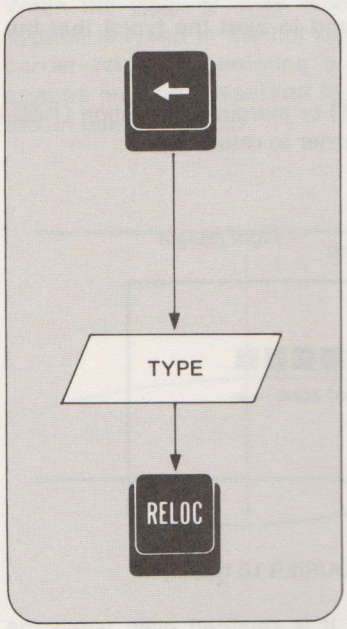
2. Press [⌫].



3. Press [RELOC].



Insertions



1. Press ← to move the cursor to the character position immediately to the left of where the new character(s) will be inserted.

   Example:
   If you wish to insert a character(s) between "b" and "d", move the cursor (◢) under "b".

a	b	d
	◢	

2. Type the character(s) to be inserted.

3. Press RELOC to move the cursor back to the last entry position prior to correction.

Example: Suppose you typed "advace" instead of advance.

a	d	v	a	c	e
					◢

1. Press ← twice.

a	d	v	a	c	e

2. Type an n.

a	d	v	a	n	c	e
				◢		

3. Press RELOC.

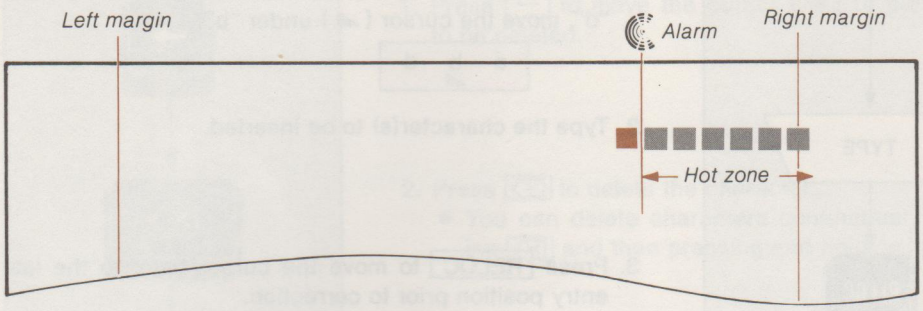
a	d	v	a	n	c	e

- If insertion is attempted when the line is completely full, the alarm will sound and the keyboard will lock. Press MARGIN RELEASE to unlock the keyboard and continue the insertion operation.

HOT ZONE

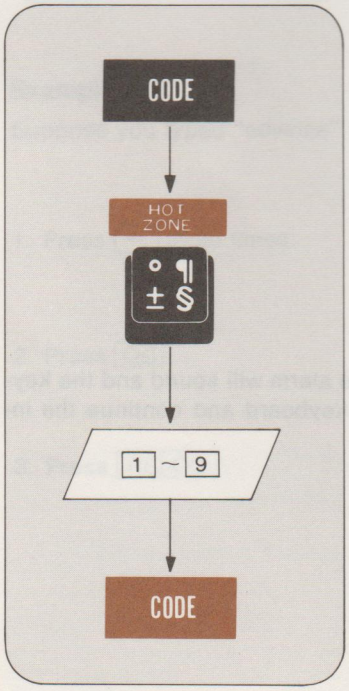
The hot zone has the following functions:

1. When the carrier reaches the hot zone, the alarm will sound to alert the typist that the right margin is within a certain distance.
2. When the typewriter is set for automatic carrier return (AUT) or margin justification (AUS), typing a space or hyphen within the hot zone causes the carrier to return.



(The above illustration shows a hot zone setting of five characters for COURIER 10 typestyle.)

The hot zone can be set to contain up to nine characters. It is retained even when the power is turned off.



1. Press CODE . CODE will appear on the display.
2. Press ° ¶ ± § . The current hot zone setting will be displayed.

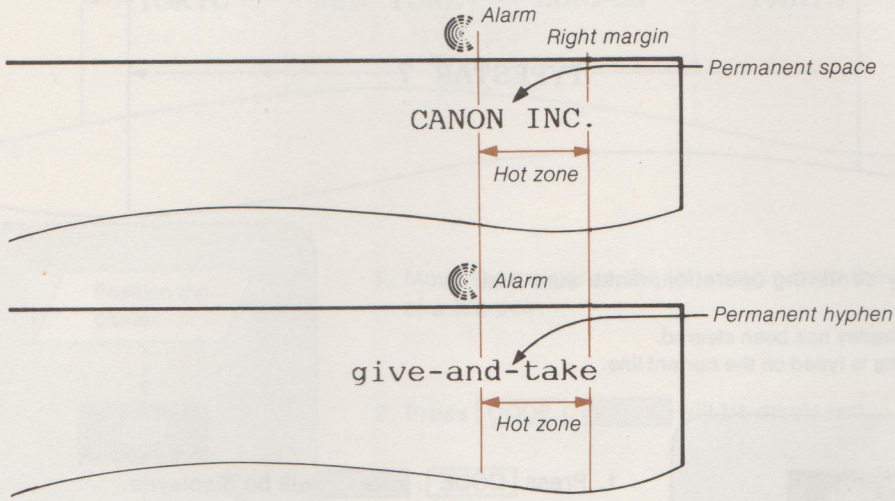
'5'

3. Enter a number from 1 through 9 to indicate the desired hot zone setting. This number is displayed.
4. Press CODE to complete the setting.

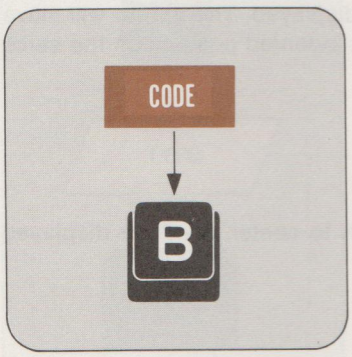
- For best results with justified printouts, use a hot zone setting of 4 or 5.

SPACES AND HYPHENS IN THE HOT ZONE

When the AUT or JUS mode is selected, the carrier is returned each time a space or hyphen is typed in the hot zone. You can type a space or hyphen in the hot zone without a carrier return by entering a permanent hyphen or space. Also, permanent hyphens or spaces may be preserved in the text memory as entered for proper punctuation, grammar, etc. in later printouts.



Permanent Spaces

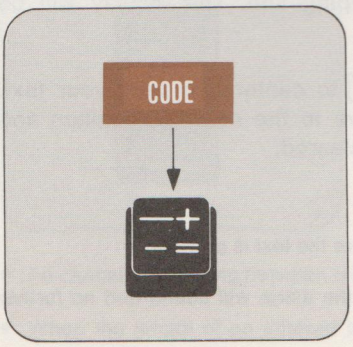


1. Press [CODE]. [CODE] will be displayed.

2. Press [B] to move the carrier one space or insert a space into the display without a carrier return.

   - A permanent space is represented by "▪" on the display.

Permanent Hyphens



1. Press [CODE]. [CODE] will be displayed.

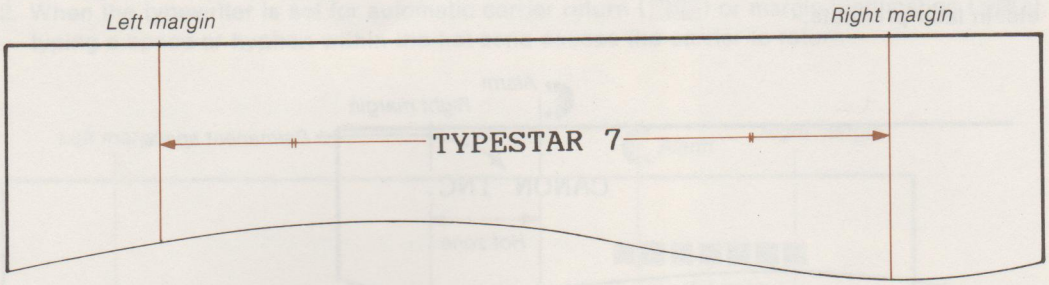
2. Press [-=] to print or display a hyphen without a carrier return.

   - The permanent hyphen is represented by "✣" on the display.

CENTERING BETWEEN MARGINS

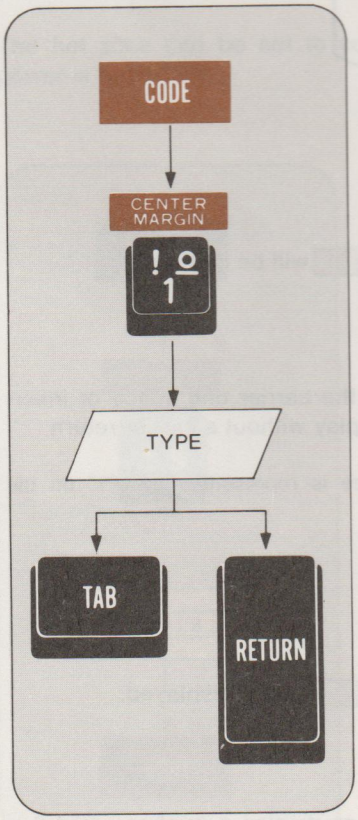
By a simple key operation, the TYPESTAR 7 can automatically center texts between the left and right margins. This feature is especially useful for centering a subject or title.

- When INDENT is displayed, centering will be performed between the indented position and the right margin.



Prior to any centering operation, make sure that:

- The display has been cleared.
- Nothing is typed on the current line.



1. Press CODE. CODE will be displayed.

2. Press 1. CENTER is displayed. The carrier will move to the left margin or an indented position on the same line.

3. Enter the text you wish to center. It will be displayed but not printed.

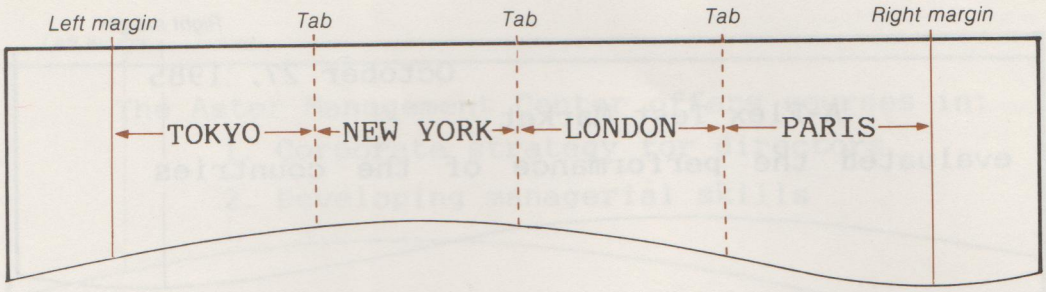
4. Press RETURN to center and print your text. The carrier will return to the left margin or an indented position on the next typing line. The display will be cleared.

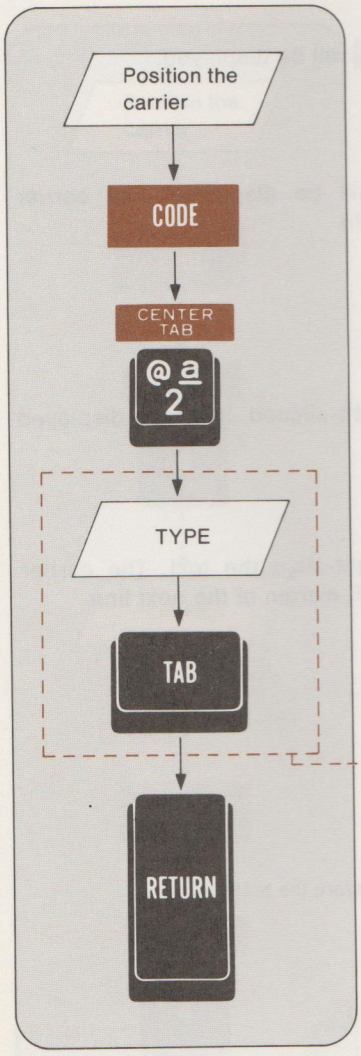
   - If you press TAB to center and print your text, the carrier will move to the next tab position and the display will be cleared.

- To cancel a centering operation, press CODE and 1 again before the text is printed.
- When the length of an entered text exceeds the allotted space, the alarm will sound and no further entry will be possible.

CENTERING BETWEEN TABS

The TYPESTAR 7 can automatically center texts between tabs or between a tab and either margin. You will find this function especially useful in typing table headings.





1. Move the carrier to the left margin or to the left setting of a tab pair.

2. Press [CODE]. [CODE] will be displayed.

3. Press [2]. [CENTER] will appear on the display.

4. Enter the text to be centered. It will be displayed but not printed.

5. Press [TAB] to center and print the text. The carrier will move to the next tab. The typewriter will wait for the next text to be entered.

To repeat

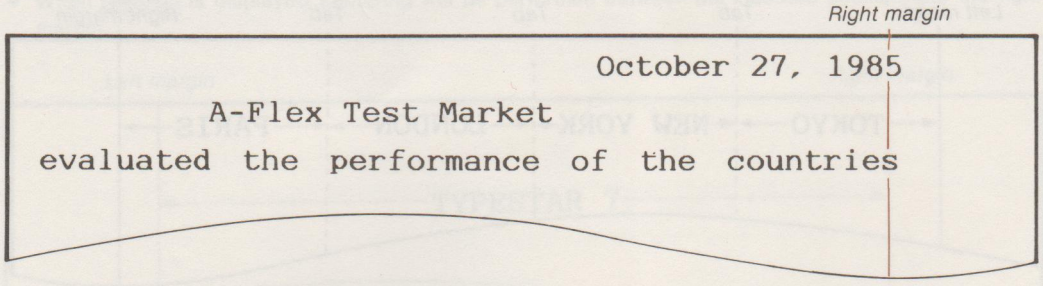
6. After [RETURN] has been pressed, the text will be centered and printed. The carrier will then return to the left margin of the next line.

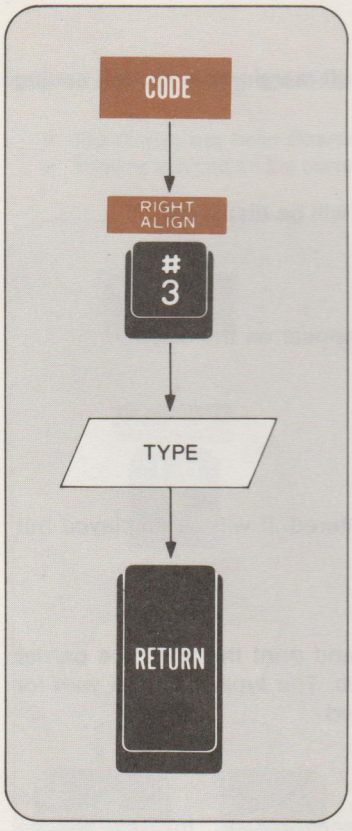
   - For additional centering on the next line, begin again from step 1.

- To cancel a centering between tabs operation, press [CODE] and [2] again before the text is printed.
- When the length of an entered text exceeds the allotted space, the alarm will sound and no further entry will be possible.

RIGHT MARGIN ALIGNMENT

This function aligns the final character of an entered text with the right margin and thus is useful in typing dates, complimentary closes, etc.



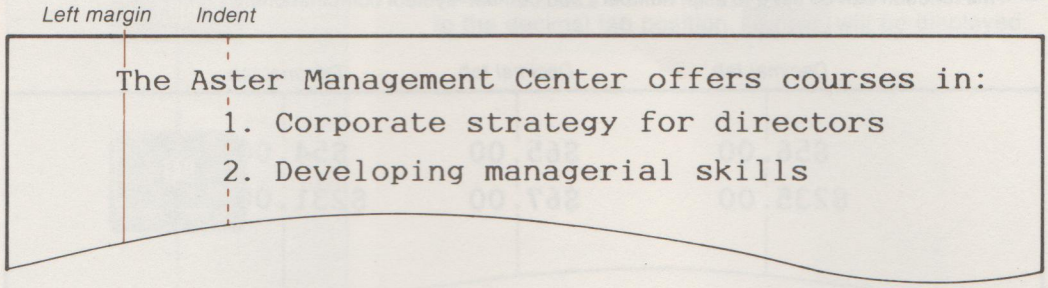


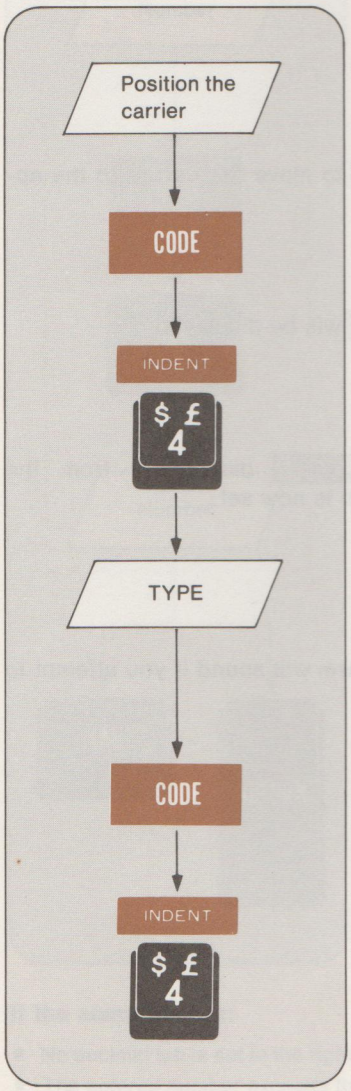
1. Press [CODE]. [CODE] will be displayed.
2. Press [3]. [CENTER] will be displayed. The carrier moves to the right margin.
3. Enter the text to be right-aligned. It will be displayed but not printed.
4. Press [RETURN] to right-align the text. The carrier will then return to the left margin of the next line.

- To cancel a right-aligning operation, press [CODE] and [3] again before the text is printed.

INDENTATION

This function is used to set a temporary left margin (indent position). The carrier moves to the indent position instead of the actual left margin when it is returned.





Setting an Indent Position

1. Press [SPACE] or [←] to move the carrier to the desired position.

2. Press [CODE]. CODE will be displayed.

3. Press [4]. INDENT will be displayed. The indent position is set.

4. Type as usual. When the carrier is returned, it will move to the indent position and stop.

   - If you wish to start typing between the left margin and the indent position, press [←] to bypass the set indent position.

Clearing an Indent Position

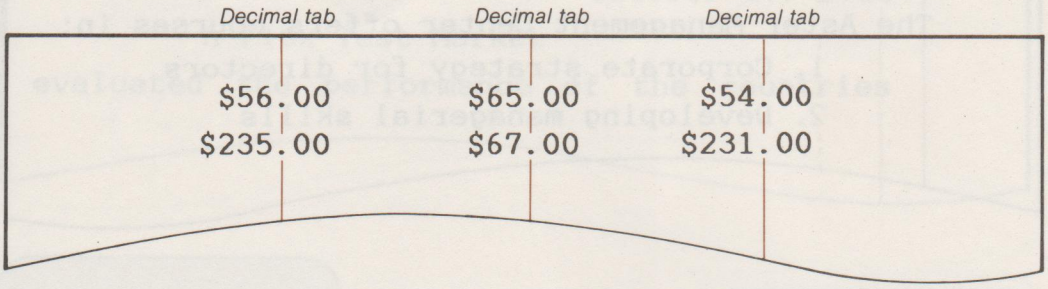
1. Press [CODE]. CODE INDENT will be displayed.

2. Press [4]. CODE INDENT will be cleared from the display and the indent function will be canceled.

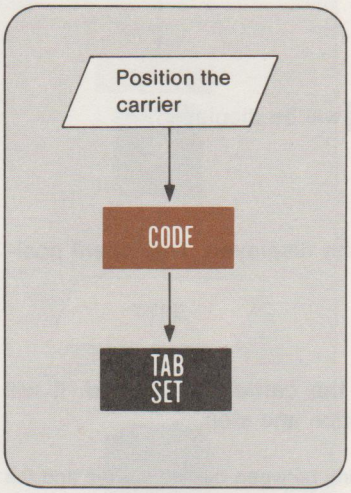
DECIMAL TABS

You can align numbers quickly and easily at preset decimal tab positions by following the procedure below.

- This function can be used to align numbers and number-symbol combinations.



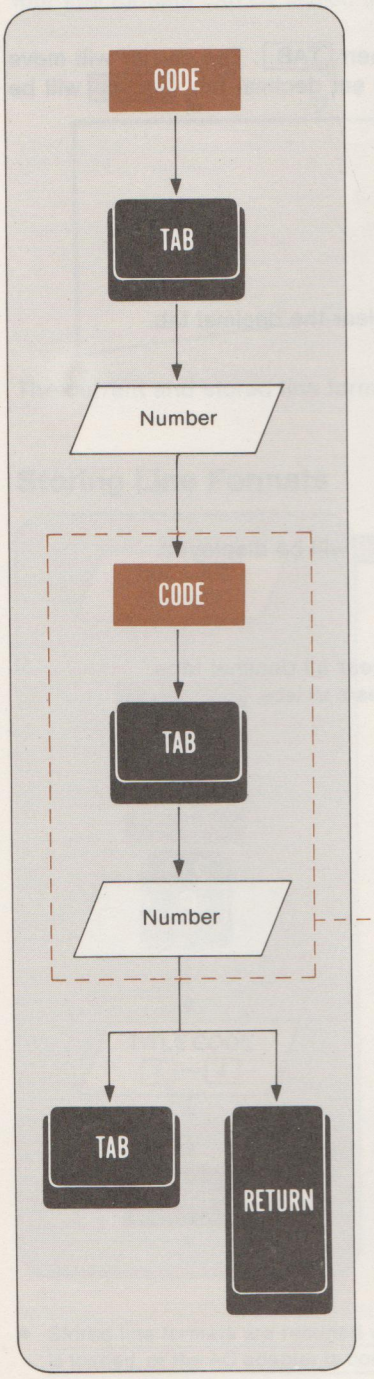
Setting Decimal Tabs



1. Press [SPACE] or [←] to move the carrier to the appropriate decimal tab.
2. Press [CODE]. CODE will be displayed.
3. Press [TAB SET]. CODE disappears from the display. The decimal tab is now set.

- A total of sixteen tabs and decimal tabs can be set. An alarm will sound if you attempt to exceed this number.
- A decimal tab can be set at the same position as a tab.

Executing Decimal Tabs



1. Press CODE and then TAB. The carrier will move to the decimal tab position. DECTAB will be displayed.

2. Enter the number. The number entered will be displayed.
   - Integers and number-symbol combinations can also be entered.

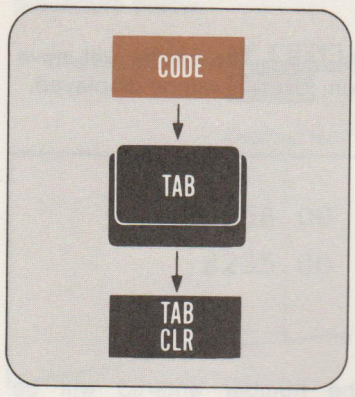
3. Press CODE and then TAB to print the number and ready the typewriter to accept another number.

4. After you have typed the last number on the line, press TAB or RETURN.
   - To cancel the decimal tab operation after pressing CODE and TAB, press ←.

If the alarm sounds:

- No decimal tab is set to the right of the carrier position.
- The entered number exceeds the space between the decimal tabs.

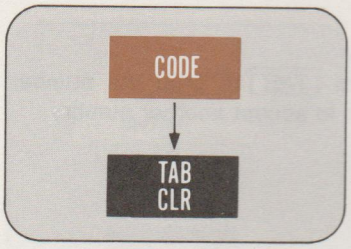
Clearing Specific Decimal Tabs



1. Press [CODE] and then [TAB]. The carrier will move to the position of the set decimal tab. [DECTAB] will be displayed.

2. Press [TAB CLR] to clear the decimal tab.

Clearing All Decimal Tabs

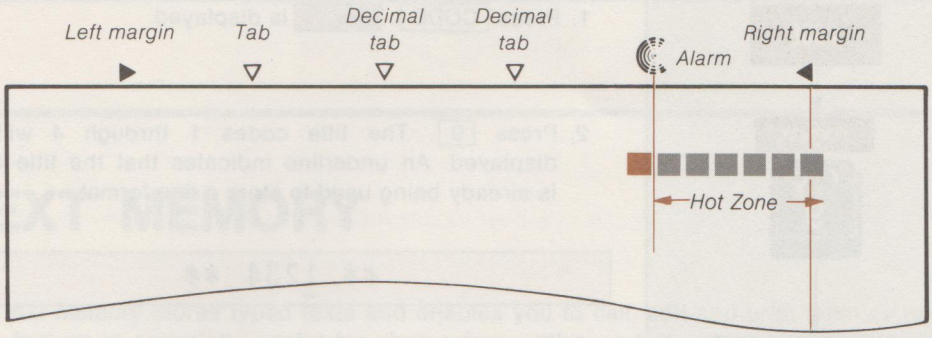


1. Press [CODE]. [CODE] will be displayed.

2. Press [TAB CLR] to clear all decimal tabs.
   - This operation also clears all tabs.

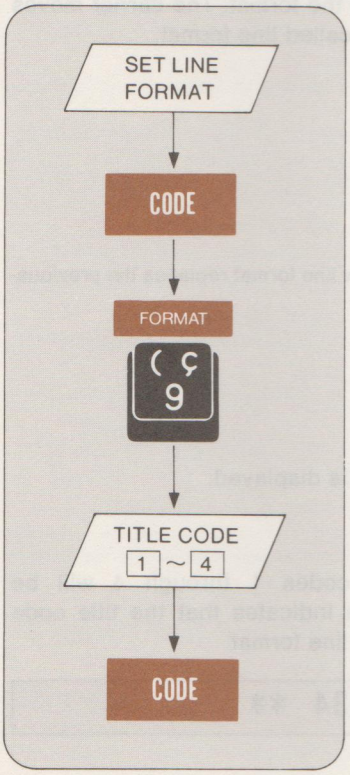
LINE FORMAT MEMORY

The line format memory can store the margin, tab, decimal tab and hot zone settings. Up to four line formats can be stored in this memory.



The current and stored line formats are all retained when the power is off.

Storing Line Formats



1. Set the desired margins, tabs, decimal tabs and hot zone.
2. Press [CODE]. [CODE] will be displayed.
3. Press [9]. The numbers 1 through 4 are displayed.

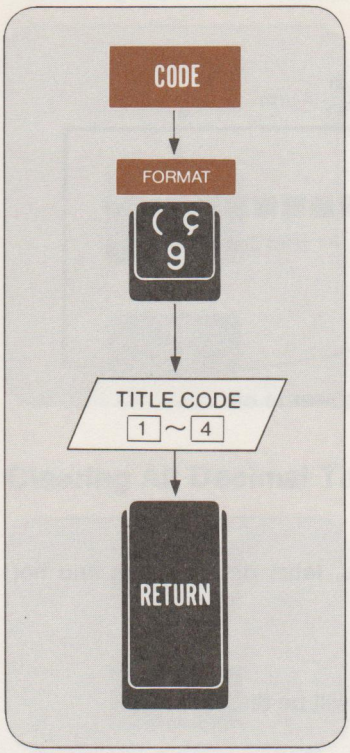
```
** 1234 **
```

4. Choose a number as the title code for your line format and then press the corresponding key (from 1 to 4).
5. Press [CODE] to complete the operation.

- Stored line formats are retained when the power is turned off if dry batteries or the NiCd battery pack is loaded, or the AC adapter is connected.

Calling a Stored Line Format

To type a text in a stored line format, call the line format following the procedure described below.



1. Press [CODE]. [CODE] is displayed.

2. Press [9]. The title codes 1 through 4 will be displayed. An underline indicates that the title code is already being used to store a line format.

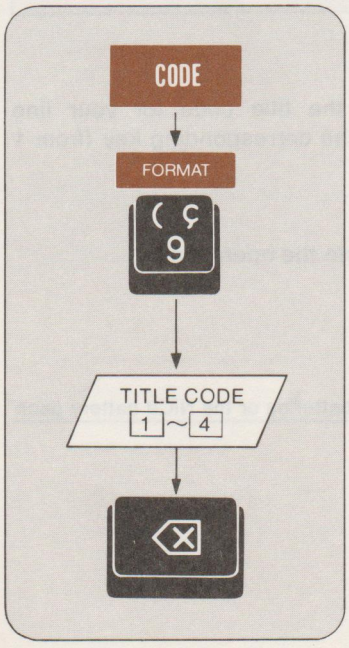
```
** 1234 **
```

3. Press the title code that corresponds to the desired line format.

4. Press [RETURN] to call the format. The carrier moves to the left margin of the called line format.

- If an underlined number is chosen to store a new line format, the new line format replaces the previously stored one.

Clearing a Stored Line Format



1. Press [CODE]. [CODE] is displayed.

2. Press [9]. The title codes 1 through 4 will be displayed. An underline indicates that the title code is being used to store a line format.

```
** 1234 **
```

3. Press the title code of the line format that you wish to clear.

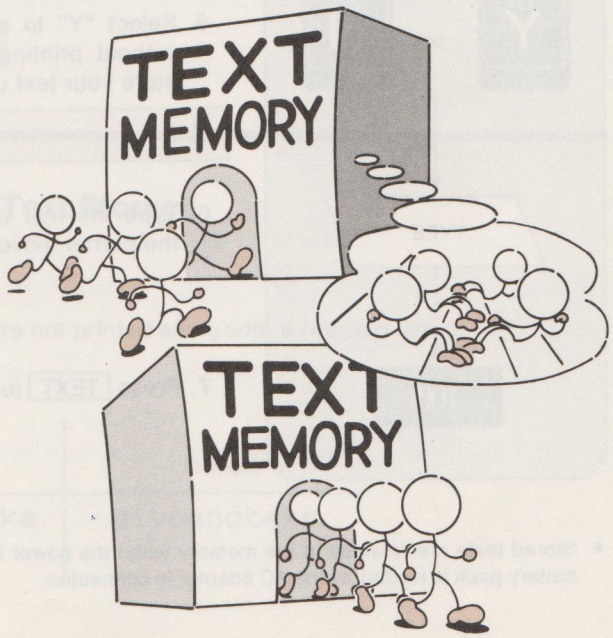
4. Press [⌫] to clear the line format from the memory.

Part 3
TEXT MEMORY

TEXT MEMORY

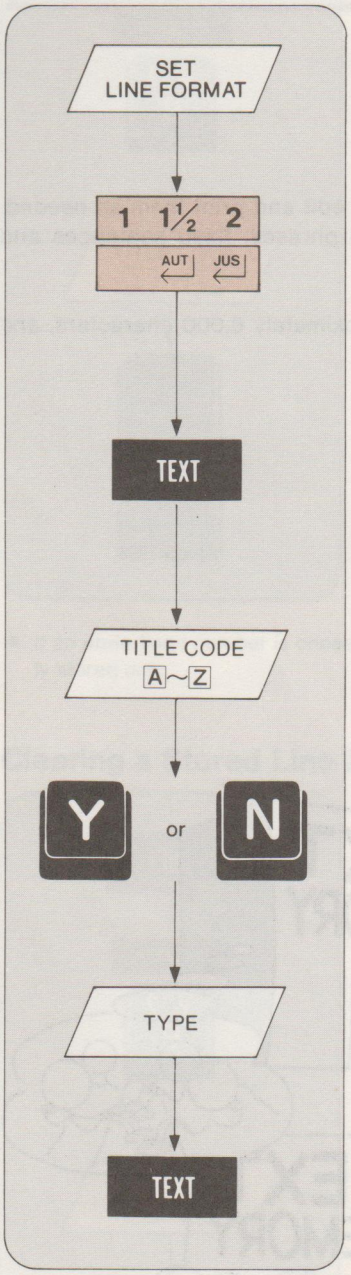
The text memory stores typed texts and enables you to call, edit and print them as needed. This feature is especially useful for storing frequently used phrases, fixed sentences and frequently used addresses.

The text memory of the TYPESTAR 7 has a capacity of approximately 6,000 characters, and allows you to store text under 26 different title codes.



STORING TEXTS

When storing texts, allot title codes to them for later recall. Line formats (right and left margins, tabs, decimal tabs, and hot zone settings) are automatically stored in the memory along with the text. Centering, right margin alignment, and other automatic functions are also stored.



1. Set the desired margins, tabs, decimal tabs, and hot zone.
   - Clear all unnecessary tabs and decimal tabs.

2. Set the typewriter to the required line spacing mode and carrier return mode.

   During the text storage operation, carrier return mode [↵] is automatically changed to [AUT ↵]. It returns to [↵] after the final step of this operation.

3. Press [TEXT]. The title codes A through Z will be displayed.

```
** ABCDEFGHIJKLMNOPQRSTUVWXYZ **
```

4. Choose a title code under which you wish to store your text and then press the corresponding key (from A to Z). "Print Y/N?" will be displayed.

```
PPINT Y/N ?
```

5. Select "Y" to store and print a text or "N" to store without printing. The title code you have chosen to store your text under will appear on the display.

```
A ;
```

6. Type the text you wish to save. If you selected "N", the carrier moves without printing.

7. Press [TEXT] to store your text.

- Stored texts are retained in the memory when the power is turned off if the dry batteries or the NiCd battery pack is loaded, or the AC adapter is connected.

For practice, follow the procedure on the previous page to store the text below.

GLOBAL RECOVERY

The world economic recovery is due no doubt in part to an oil glut which resulted from a decreased demand in petroleum. This condition has given many depressed industries in Europe a second chance for....

Keyboard Lock at the Right Margin

When the alarm sounds and the keyboard locks at the right margin during text storage, follow one of the procedures described below.

[Entering a hyphen for a carrier return]

1. Press [⌫] to release the keyboard lock.
2. Press [⌫] to delete the character(s) adjacent to the right margin.
3. Type a hyphen to return the carrier.

[Continued typing without a carrier return]

1. Press [MARGIN RELEASE] to release the keyboard lock. You can continue typing on the same line.
2. Type a space to return the carrier.

Hyphens and Spaces During Text Storage

[Hyphens]

Hyphens entered during text storage are not printed along with a recalled text.

Example:

Storing	Printout
give-and-take	giveandtake

ordinary hyphen

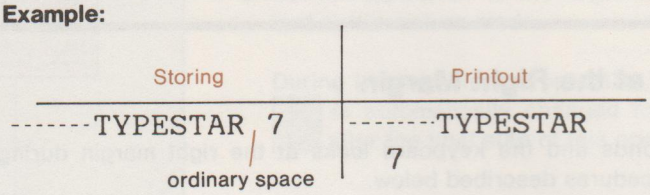
Hyphens that must be preserved as entered during text storage (for proper punctuation, etc.) must be entered as permanent hyphens (see page 21).

- While printing a stored text, when an ordinary hyphen appears in the hot zone, it is printed along with the text, and the carrier returns to the left margin of the next line.

Spaces

When a stored text is printed in a newly set line format (see page 29), the carrier return position changes. This may cause printing on two different lines those words which should be on the same line.

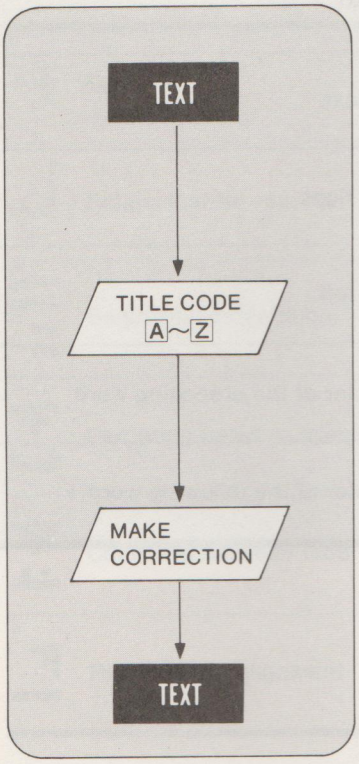
Example:



To preserve a space between two words that must be printed on the same line, enter a permanent space (see page 21).

REVIEWING/MODIFYING A STORED TEXT ON THE DISPLAY

You can review a stored text and make any necessary corrections or modifications on the display.



1. Press [TEXT]. An underline indicates that the title code is being used to store a text.

```
** ABCDEFGHIJKLMNOPQRSTUVWXYZ **
```

2. Press the title code that corresponds to the text that you wish to display. The first part of the text will be displayed.

```
A:GLOBAL RECOVERY The world
```

3. Move the cursor to display subsequent text (see page 36). Correct text, if necessary.

4. Press [TEXT] to end this operation.

For practice, modify the text you stored on page 33 which is stored as below.

GLOBAL RECOVERY

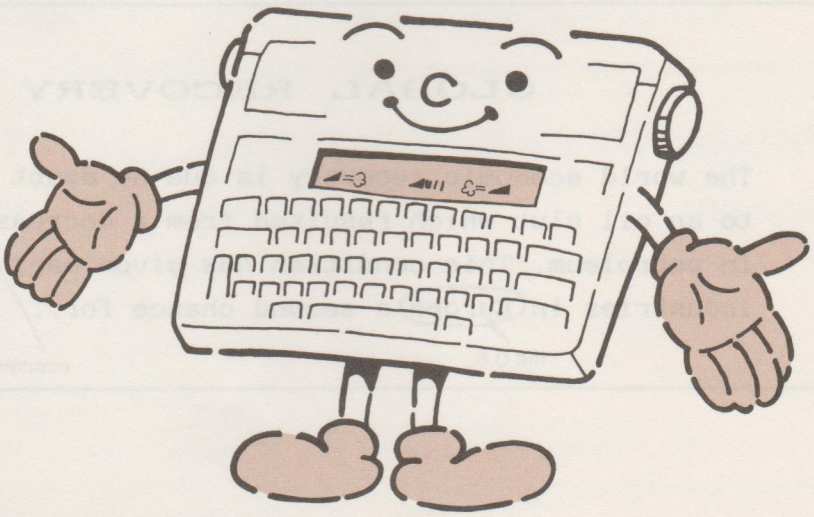
The world economic recovery is due no doubt in part to an oil glut which resulted from a decreased demand in petroleum. This condition has given many depressed industries in Europe a second chance for..

the U.S.

economically

Moving the Cursor in a Displayed Text

RELOC	Moves the cursor to the end of a text.
CODE + RELOC	Moves the cursor to the head of a text.
→	Moves the cursor one space to the right.
←	Moves the cursor one space to the left.
LEFT MARGIN	Moves the cursor to the last character of the preceding word.
RIGHT MARGIN	Moves the cursor to the last character of the following word.



Display of Special Symbols

When a stored text is displayed, tab, carrier return, and various automatic functions are represented by the following special symbols:

*	Tab
*	Return (carrier return)
*	Begin/end indentation
*	Centering between margins
*	Centering between tabs
*	Right margin alignment

*	Decimal tab
*	Permanent space
*	Permanent hyphen
	Start double-width characters
	Stop double-width characters

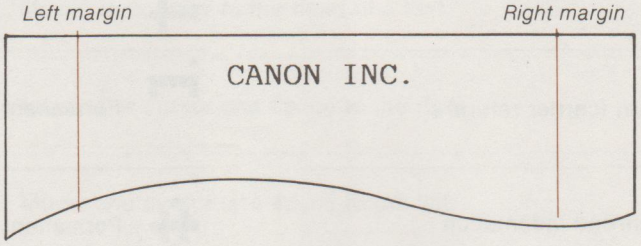
* These symbols can be entered and deleted in the same way as ordinary characters. To enter a special symbol, move the cursor to the place where you wish to enter it. Enter the special symbols according to the operation used when normally executing automatic functions.

Example: Special Symbols on the Display

Automatic function: Centering between margins

Display: ⧗ Canon INC.↵

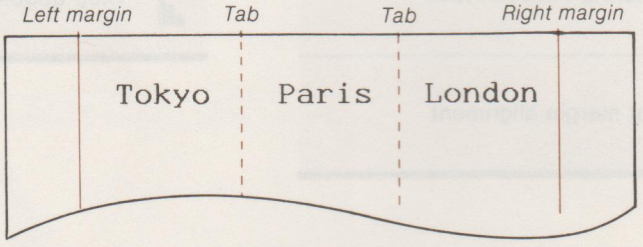
Printout:



Automatic function: Centering between tabs

Display: ⧗Tokyo→⧗Paris→⧗London↵

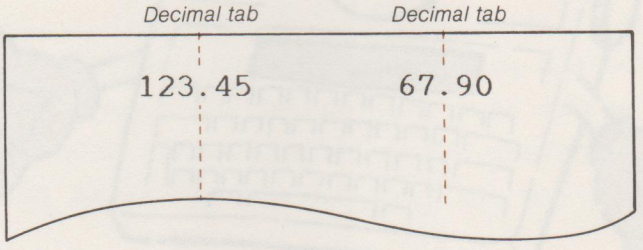
Printout:



Automatic function: Decimal tab

Display: ⇟123.45 ⇟67.90↵

Printout:

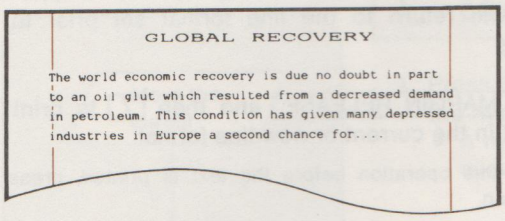


PRINTING A STORED TEXT

You can print texts in a stored, current or new line format. However, the line format set at the time of storage will automatically control printing unless another format is specified (see page 29).

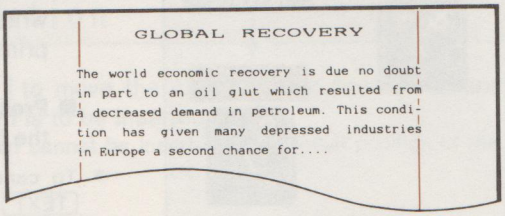
The line spacing and carrier return modes will follow those settings established at the time of printing, regardless of those set in storage.

Printout in the stored line format

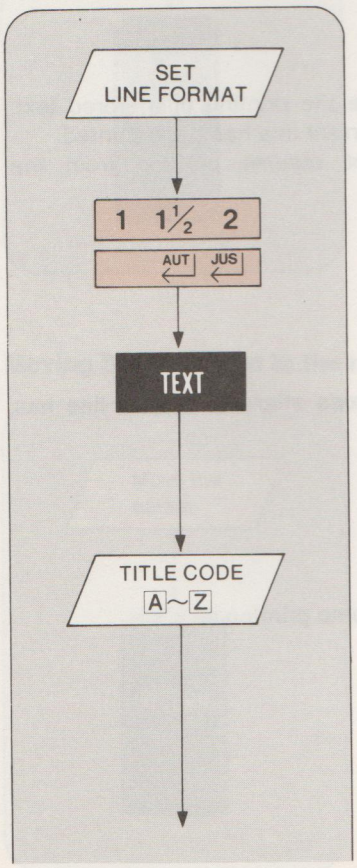


(The typewriter has been set for manual ↵ or automatic carrier return AUT ↵.)

Printout in a format that differs from the format originally stored with the text.
(The right and left margins have been changed.)



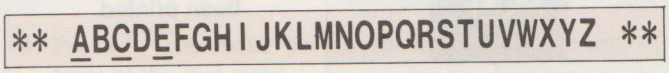
(The typewriter has been set for a justified printout JUS ↵).



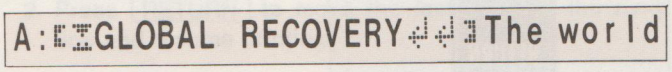
1. If you wish to use a line format that is different from the one stored with the text, set the new line format here. If you wish to use the current line format, no operation is necessary.

2. Set the desired line spacing and carrier return mode.

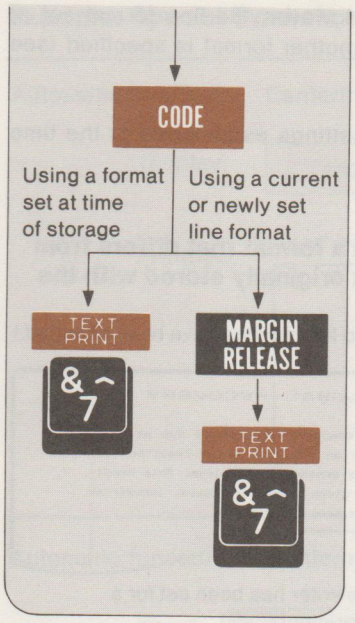
3. Press TEXT. An underline indicates that the title code is being used to store a text.



4. Press the title code that corresponds to the text you wish to print.



- You can review or modify the text in this step (see page 35).



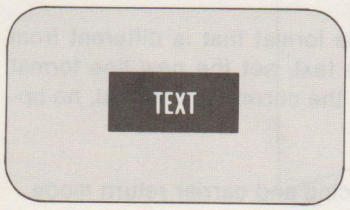
5. Press [CODE]. [CODE] will be displayed.

6. ■ Press [7] to print the text in the line format set at the time of storage. After printing the text, the typewriter will return to the line format set prior to printing.

   ■ Press [MARGIN RELEASE] and then [7] to print the text in the current or new line format.

- To cancel this operation before the text is printed, press [TEXT] again.

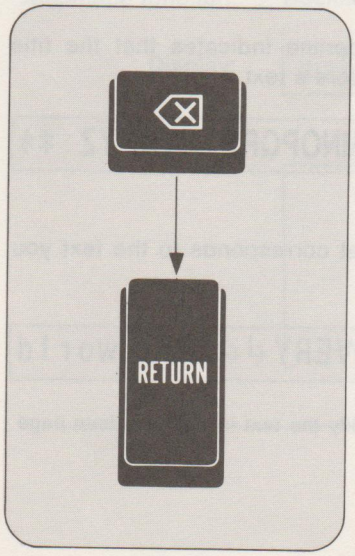
To Terminate Printing



Press [TEXT] to terminate the printing of a stored text. Printing stops after the current line has been printed.

- The typewriter cannot resume printing from the halted position.

To Stop Printing Temporarily



1. Press [⌫]. Printing stops after the current line has been printed.

2. Press [RETURN] to resume printing.

IF PRINTING STOPS

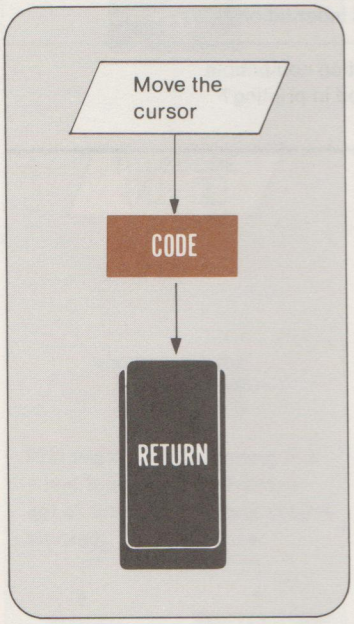
Printing may stop during text printout due to one of the following two reasons:

1. A hyphenation request

A hyphenation request occurs when the end of a line has exceeded the right margin and cannot fit in the hot zone. The position of the cursor indicates the character at the right margin.

```
A: condition
```

Hyphenating a word



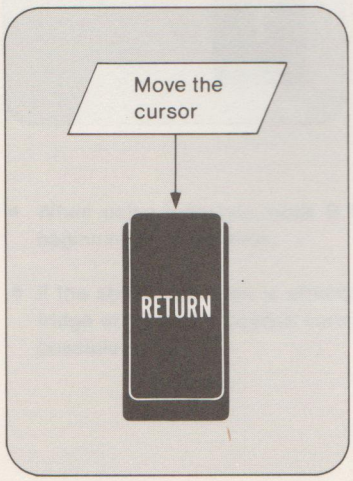

```
A: condition
```

1. Press ← to move the cursor to the position where the hyphen is to be inserted.
   - A hyphen cannot be inserted at the initial position of the cursor.
2. Press CODE. CODE will be displayed.
3. Press RETURN. The word is hyphenated and the remaining syllables are printed on the next line.

Print Example:

```
a decreased demand in petroleum.  This condi-
tion
```

Moving the last word to the next line



1. Press ← to move the cursor to the position just in front of the last word.

```
A: Europe
```

2. Press RETURN to move the last word to the next line and resume printing.

2. An automatic function that cannot be executed has been encountered.

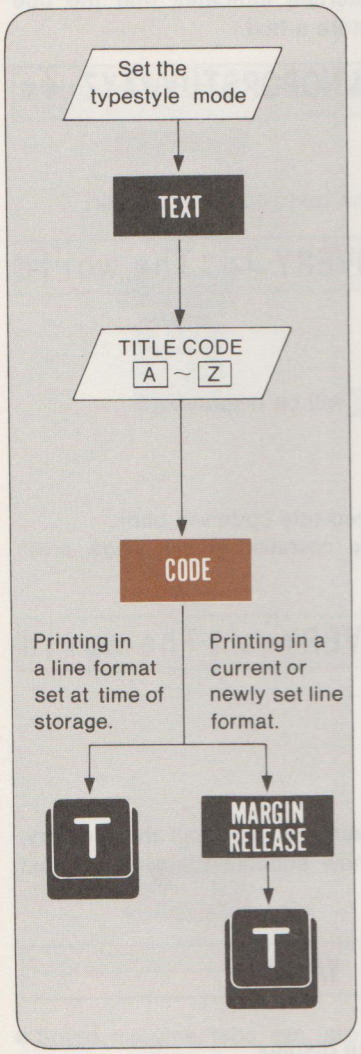
In this case, the alarm sounds and the automatic function (for example, ‡ 123.45 ‡) that cannot be executed is displayed. Press [TEXT] to terminate the operation and then check the following:

Condition	Check
A stored text has been printed in a newly set line format.	• Are the newly set tabs and decimal tabs compatible with the stored text? • Did you clear all unnecessary tabs and decimal tabs? • Are the newly set margins compatible with the stored tabs, decimal tabs, centering, and indentation?
A stored text has been corrected or modified on the display and then printed.	• Is the correction or modification compatible with the line format to be used in printing?

CHANGING TYPESTYLES

Unless otherwise specified, printing will take place according to the typestyle set at the time of storage regardless of the mode displayed. If you wish to use a typestyle that differs from the one used during storage, follow the procedure below.

Printing in a typestyle that differs from the one set at the time of storage



1. Set the typestyle mode (see page 16).

2. Press [TEXT].

```
** ABCDEFGHIJKLMNOPQRSTUVWXYZ **
```

3. Press the title code that corresponds to the text you wish to print.

```
A:GLOBAL RECOVERY The world
```

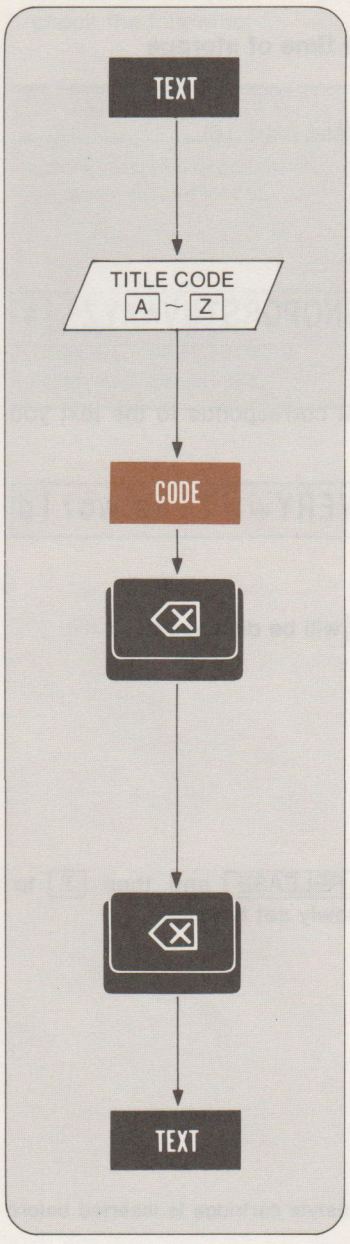
4. Press [CODE]. [CODE] will be displayed.

5. Press [T] or [MARGIN RELEASE] and then [T] to begin printing with the newly set typestyle.

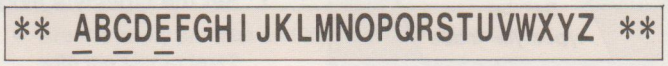
- When using typestyle mode B to print a text, be sure that the typestyle cartridge is inserted before beginning this operation.
- If the above operation is attempted when the RAM cartridge is inserted in place of the typestyle cartridge or when a typestyle cartridge is not inserted, the alarm will sound indicating that printing is not possible.

CLEARING A STORED TEXT

For efficient use of the text memory it is recommended that you clear all unnecessary texts.



1. Press [TEXT]. An underline indicates that the title code is being used to store a text.



2. Enter the title code of the text you wish to clear.

3. Press [CODE]. [CODE] will be displayed.

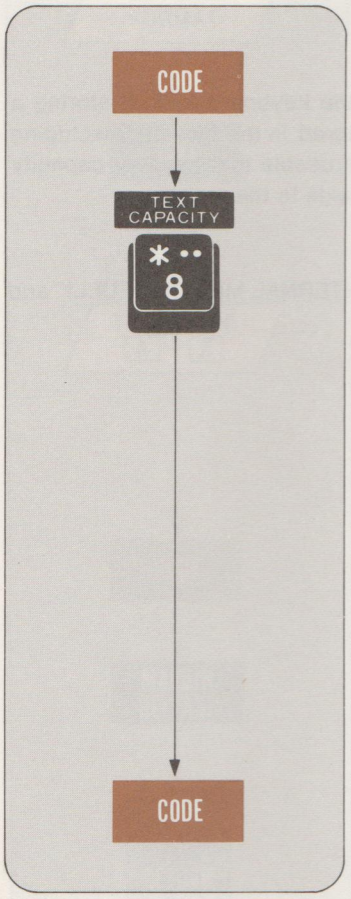
4. Press [⌫]. The displayed title code will blink.
   - To cancel the clearing operation at this stage, press [CODE].

5. Press [⌫] again to clear the text from the memory. The text memory can now accommodate a new text under this title code.

6. Press [TEXT] to clear the display.

DISPLAYING THE REMAINING TEXT MEMORY

The capacity of the text memory is equivalent to about three A4-size sheets of paper (approximately 6,000 characters). The amount of remaining text memory in characters can be displayed. You can check the remaining memory during text storage or when reviewing or modifying a stored text on the display.



1. Press [CODE]. [CODE] will be displayed.

2. Press [8] to display the remaining amount of text memory in characters. The example below indicates that 3513 character spaces can be used for text storage.

```
-3513-     [ 2449 ]
```

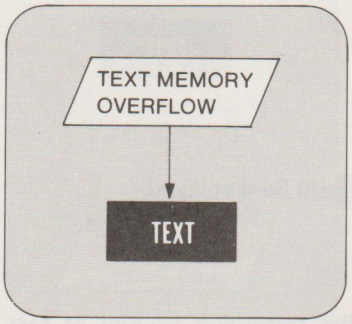
- In the above example, the figure displayed in [ ] indicates the amount of memory remaining in the RAM cartridge.

3. Press [CODE] to clear the display.

- Since margins, tabs, etc. are also counted as characters, the actual number of characters that can be stored is slightly less than the capacity of the text memory.

TEXT MEMORY OVERFLOW

If the text memory becomes full during text storage or correction of a stored text, the keyboard locks and further entry is impossible. The following message will appear on the display:



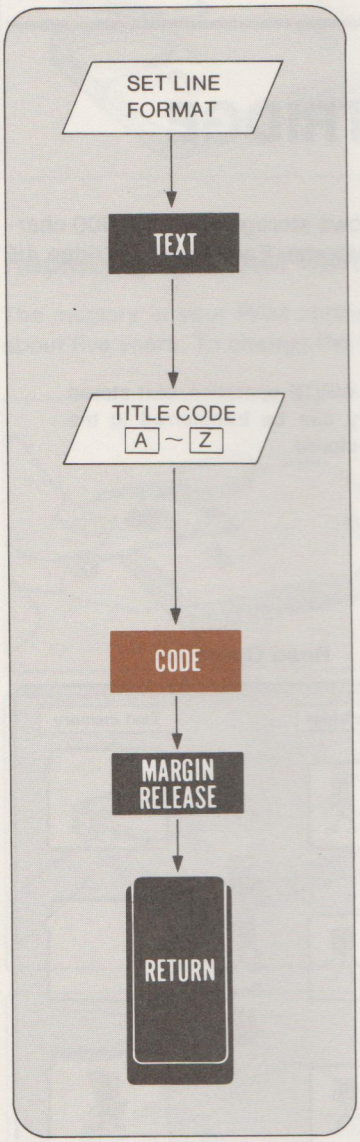
INTERNAL MEMORY FULL !

Press [TEXT] to release the keyboard lock. If storing a text, the contents will be stored in the memory (excluding the last line). Increase the usable text memory capacity by clearing unnecessary texts in the memory.

- During correction of stored texts, you can press [⌫] to erase "INTERNAL MEMORY FULL!" and then continue the correction operation.

CHANGING THE LINE FORMAT OF A STORED TEXT

During a text storage operation, the line format is automatically stored in the memory along with the text. However, you can change the line format of a stored text by following the procedure below.



1. Set the new line format

2. Press TEXT.

```
** ABCDEFGHIJKLMNOPQRSTUVWXYZ **
```

3. Press the title code that corresponds to the text you wish to call up.

```
A:GLOBAL RECOVERY    The world
```

4. Press CODE. CODE will be displayed.

5. Press MARGIN RELEASE.

6. Press RETURN. The display is cleared and the new line format is stored with the text.

- To cancel this operation before the line format is changed, press TEXT again.

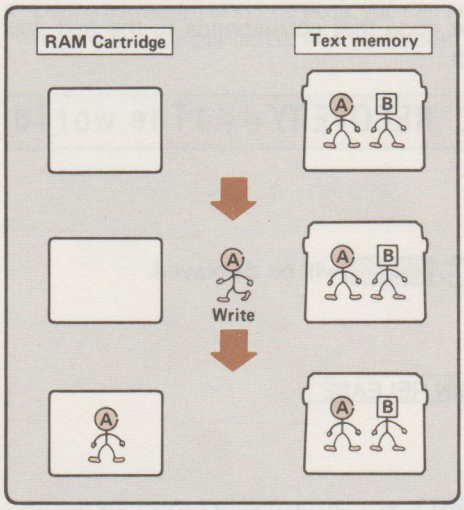
Part 4

RAM CARTRIDGE (OPTION)

ABOUT YOUR RAM CARTRIDGE

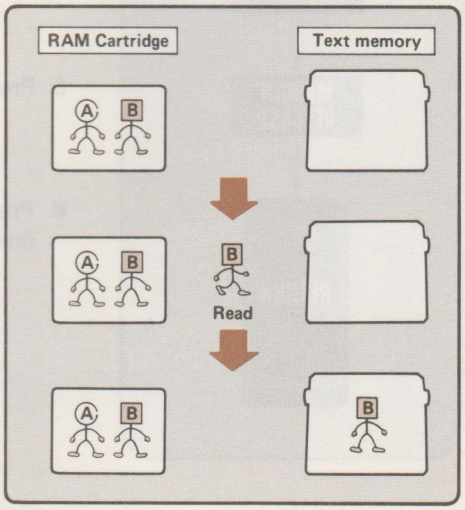
TYPESTAR 7 is equipped with an internal text memory that allows storage of up to 6,000 characters. The optional RAM cartridges can be used for text storage. Each RAM cartridge 4K allows you to store about 4,000 characters.

Write Operation



When you use the WRITE operation, text stored in the text memory can be transferred to the RAM cartridge and stored.

Read Operation



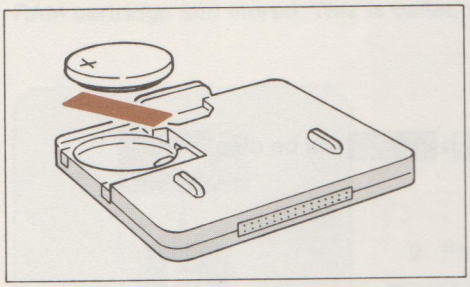
When you use the READ operation, text stored in the RAM cartridge can be read from the RAM cartridge to the text memory for editing and printing purposes.

When using a new RAM cartridge, be sure to remove the insulation sheet (see page 49), and then initialize the cartridge before use (see page 50).

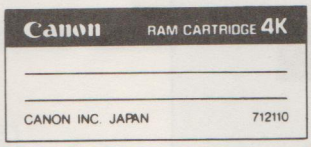
- See page 68 for instructions on loading the RAM cartridge.
- It is recommended that you use the "CR2032 3V" lithium battery by Sanyo. This battery can be used in the RAM cartridge for about 5 years.

Before Using Your RAM Cartridge

To prevent unnecessary loss of battery charge, an insulation sheet has been inserted under the lithium battery of your RAM cartridge. Before using your new cartridge, be sure to remove the insulation sheet as shown in the illustration below.

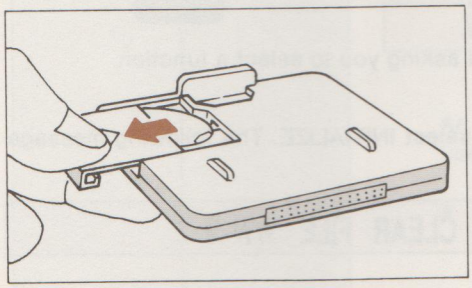


* When you remove the insulation sheet or replace batteries, record the date on the case of the RAM cartridge for future reference.

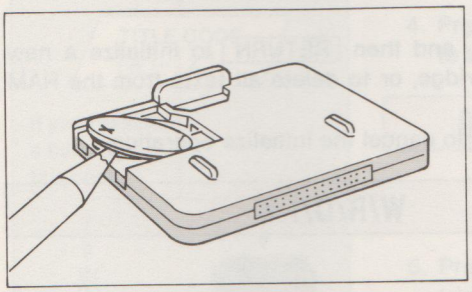


Replacing the RAM Cartridge Batteries

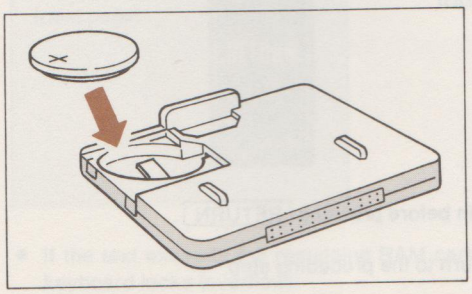
The memory in your RAM cartridge is maintained by a lithium battery. Each battery lasts for about five years. To change the battery, follow the procedure below.



1. Open the battery case by sliding the cover in the direction indicated by the arrow to the left.



2. Raise the battery from the case with a pointed object and remove it.

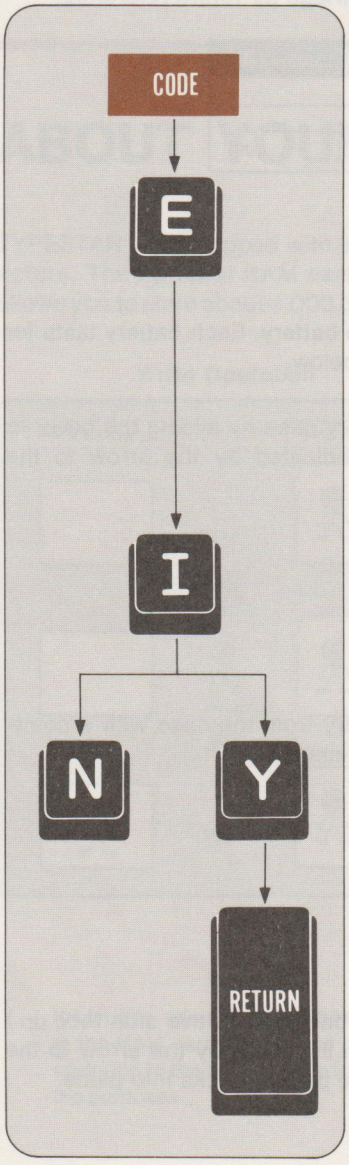


3. Insert the new battery (positive side face up) in the direction indicated by the arrow to the left. Be sure the battery clicks into place.

- In order to insure proper contact, wipe both faces of the battery with a clean cloth before insertion.
- When replacing batteries, it is best to first copy important documents onto another cartridge or the text memory.

INITIALIZING THE RAM CARTRIDGE

Initialization prepares a new RAM cartridge so that it is able to store texts. If the cartridge has already been used to store texts, the initialization process will delete all texts from the RAM cartridge.



1. Press [CODE]. [CODE] will be displayed.

2. Press [E].

```
W/R/D/I ?
```

   – W (Write)
   – R (Read)
   – D (Delete)
   – I (Initialize)

   Typestar 7 is asking you to select a function.

3. Press [I] to select INITIALIZE. The following message is displayed.

```
CLEAR FILE Y/N ?
```

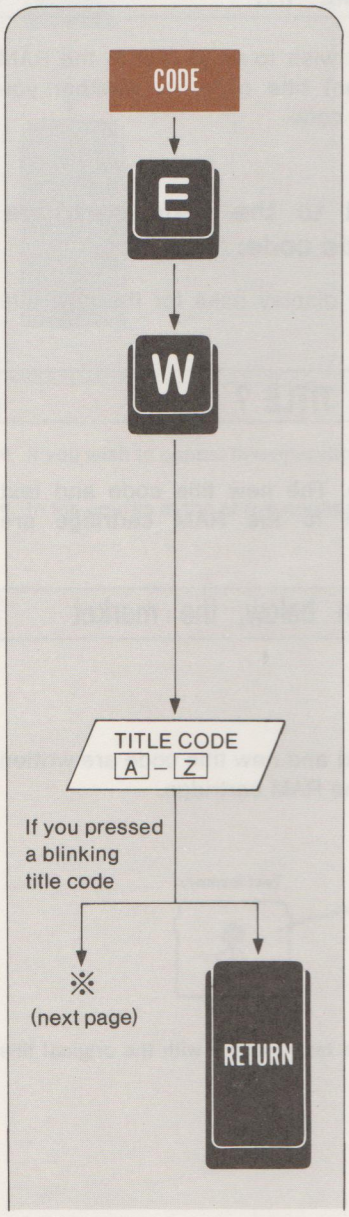
4. ■ Press [Y] and then [RETURN] to initialize a new RAM cartridge, or to delete all texts from the RAM cartridge.
   ■ Press [N] to cancel the initialize operation.

```
W/R/D/I ?
```

- If you wish to cancel this operation, press [CODE] again before pressing [RETURN].
- In the course of the above operation, press [⌫] to return to the preceding step.

WRITING TEXTS TO THE RAM CARTRIDGE

Individual texts stored in the text memory can be transferred from the text memory to the RAM cartridge and stored. This is called the "write" process.



1. Press [CODE], [CODE] will be displayed.

2. Press [E].

```
W/R/D/I ?
```

3. Press [W] to select WRITE. The title codes in the text memory (A through Z) will be displayed.

```
W * ABCDEFGHIJKLMNOPQRSTUVWXYZ
```

An underline indicates that the title code is being used to store a text in the text memory.

- A blinking title code indicates that a text with the same title code already exists in the RAM cartridge.

4. Press the title code of the text that you want to write to the RAM cartridge from the text memory.

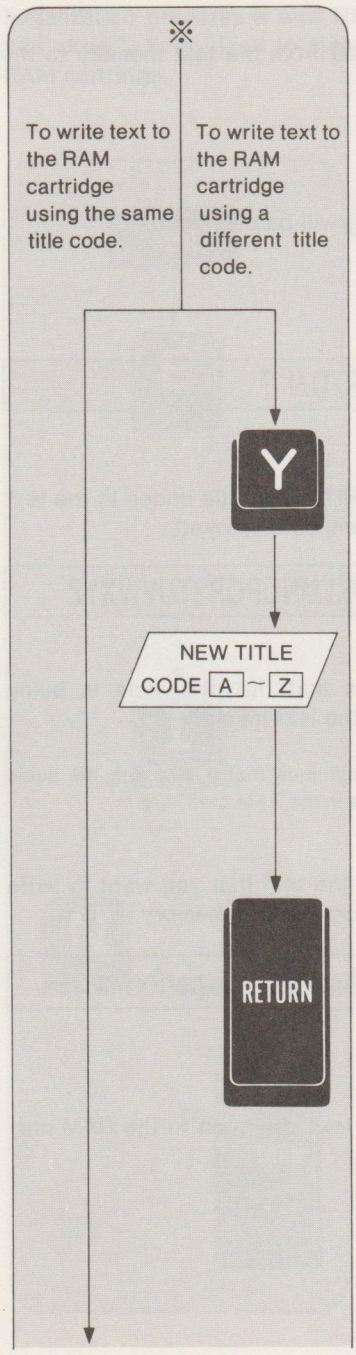
```
B : We have evaluated the performa
```

5. Press [RETURN]. The text is written to the RAM cartridge and stored.

- If the text exceeds the remaining RAM cartridge memory capacity, the following is displayed and the keyboard locks (overflow):

```
EXTERNAL MEMORY FULL !
```

After pressing [CODE] to release the keyboard lock, increase the available memory capacity of the RAM cartridge by deleting unnecessary texts.



※ If you press a title code that is blinking, the following will be displayed.

RENAME Y/N ?

TYPESTAR 7 asks if you wish to write text to the RAM cartridge using a different title code, or whether you wish to use the same title code.

■ To write the text to the RAM cartridge using a different title code:

Press [Y]. The following display asks for the new title code.

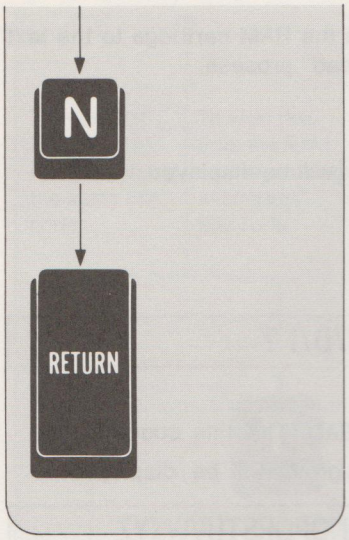
TEXT TITLE ?

Press the new title code. The new title code and text that you want to write to the RAM cartridge are displayed.

C : As seen from below, the market

Press [RETURN]. The text and new title code are written from the text memory to the RAM cartridge.

- The text is retained in the text memory with the original title code.

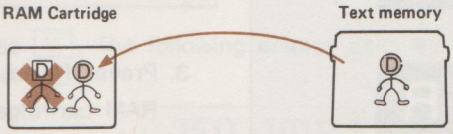


■ To write the text to the RAM cartridge with the same title code:

Press [N]. The display shows the title code and text that you are writing to the RAM cartridge.

D : This condition has given many

Press [RETURN]. The text in the text memory is written to the RAM cartridge.

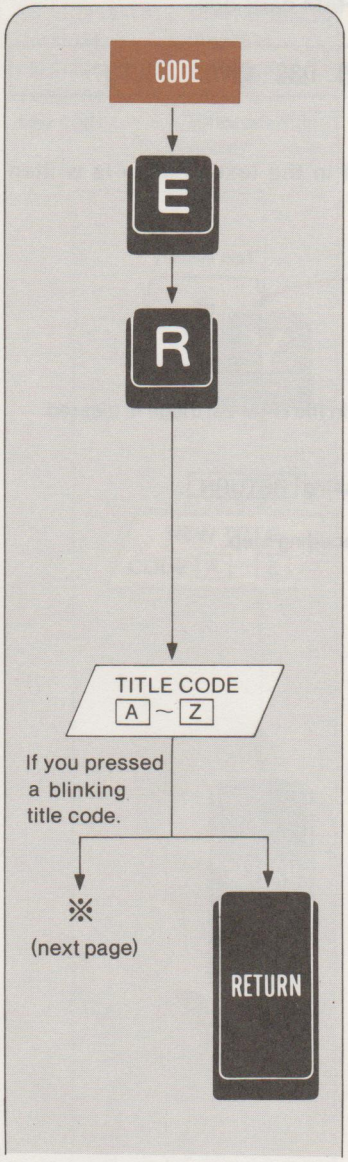


- The text that was originally in the RAM cartridge is cleared.

- If you wish to cancel this operation, press [CODE] again before pressing [RETURN].
- In the course of the above operation, press [⌫] to return to the preceding step.

READING TEXTS FROM THE RAM CARTRIDGE

Individual texts stored in the RAM cartridge can be read from the RAM cartridge to the text memory for printing and editing purposes. This is called the "read" process.



1. Press [CODE]. [CODE] will be displayed.

2. Press [E].

```
W/R/D/I ?
```

3. Press [R] to select READ. The title codes in the RAM cartridge (A through Z) will be displayed.

```
R * ABCDEFGHIJKLMNOPQRSTUVWXYZ
```

An underline indicates that the title code is being used to store a text in the RAM cartridge.

- A blinking title code indicates that a text with the same title code already exists in the text memory (see page 32).

4. Press the title code of the text that you want to read from the RAM cartridge to the text memory.

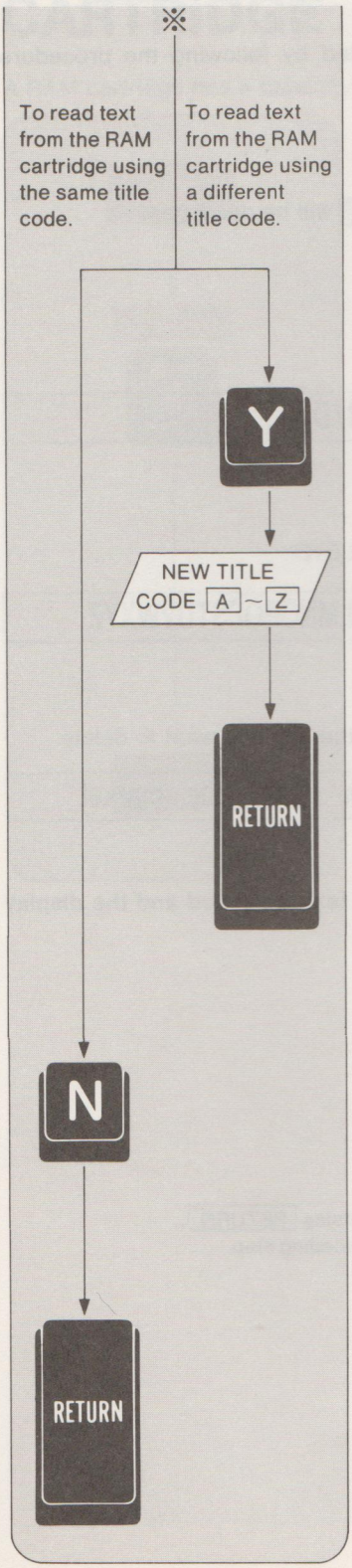
```
B : We have evaluated the performa
```

5. Press [RETURN]. The text is read from the RAM cartridge to the text memory.

- If you wish to cancel this operation, press [CODE] again before pressing [RETURN].
- In the course of the above operation, press [⌫] to return to the preceding step.
- During read operations or correction of a read text, if the text memory becomes full (overflow), the following is displayed and the keyboard locks.

```
INTERNAL MEMORY FULL !
```

After pressing [CODE] to cancel the keyboard lock, increase the available memory capacity in the text memory by deleting unnecessary texts.



※ If you press a title code that is blinking, the following will be displayed.

```
RENAME Y/N ?
```

TYPESTAR 7 asks if you wish to use a different title code to read text from the RAM cartridge to the text memory, or whether you wish to use the same title code.

■ To read text from the RAM cartridge using a different title code:

Press [Y]. The following display asks for the new title code.

```
TEXT TITLE ?
```

Press the new title code. The new title code and text that you want to read are displayed.

```
C : As seen from below, the market
```

Press [RETURN]. The text and new title code are read from the RAM cartridge to the text memory.

- The text is retained in the RAM cartridge with the original title code.

■ To read the text from the RAM cartridge using the same title code:

Press [N]. The display shows the title code and text that you are reading from the RAM cartridge.

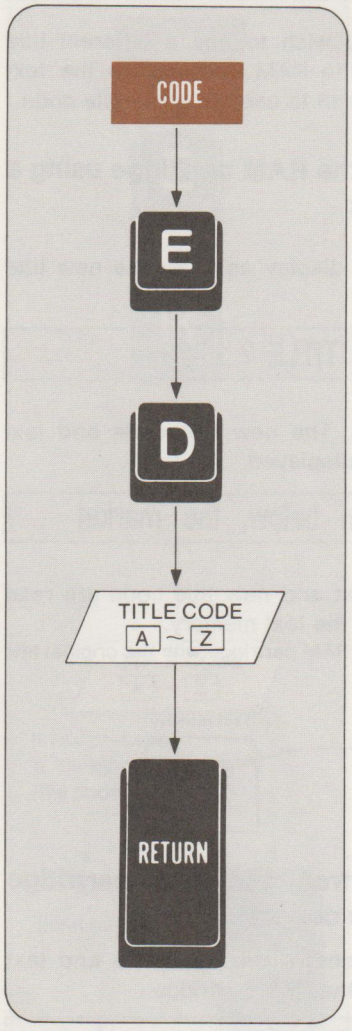
```
A : The world economic recovery is
```

Press [RETURN]. The text is read from the RAM cartridge to the text memory.

- The text that was originally in the text memory is cleared.

DELETING TEXTS FROM THE RAM CARTRIDGE

Individual texts stored in the RAM cartridge can be deleted by following the procedure below.



1. Press [CODE]. [CODE] will be displayed.

2. Press [E].

```
W/R/D/I ?
```

3. Press [D] to select DELETE.

```
D* ABCDEFGHIJKLMNOPQRSTUVWXYZ
```

4. Press the title code of the text you want to delete.

```
C : As seen from below, the market
```

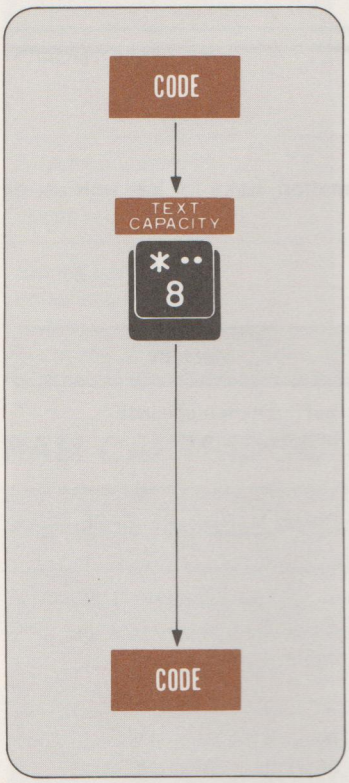
5. Press [RETURN]. The text is deleted and the display is cleared.

- If you wish to cancel this operation, press [CODE] again before pressing [RETURN].
- In the course of the above operation, press [⌫] to return to the preceding step.

When using a RAM cartridge with the Typestar 7, be sure to press [CODE] and then [8] after the DELETE operation to protect any texts remaining on the RAM cartridge. The remaining text memory will be displayed at this time.

DISPLAYING THE REMAINING MEMORY CAPACITY OF THE RAM CARTRIDGE

A RAM cartridge has a capacity of approximately 4,000 characters.



1. Press [CODE]. [CODE] will be displayed.

2. Press [8]. The remaining memory capacity (in characters) of the RAM cartridge is displayed in brackets on the right side of the display. In this case, 361 character spaces are available for storing texts.

```
-3513-      [361]
```

   - If the RAM cartridge has not been initialized or the RAM cartridge is not inserted, **** is displayed in place of the figure.

   - In the above example, the figure – 3513 – represents the remaining memory capacity of the text memory.

3. Press [CODE]. The display is cleared.

Part 5
APPENDIXES

ALARMS

By sounding an alarm the TYPESTAR 7 provides various information, asks for key entries, or informs you of operational errors.

BASIC OPERATIONS

Operation taking place	Cause	Remedy
Setting margins	An attempt was made to set less than one inch between margins.	Set more than one inch between margins.
When correcting text	Characters were inserted that pushed the end of the line to the right margin.	Press [MARGIN RELEASE].
Setting tabs and decimal tabs	An attempt was made to set more than 16 tabs and decimal tabs.	Clear unnecessary tabs and decimal tabs.
Centering	When centering between margins, the number of characters entered exceeds the number that can be printed.	Reduce the number of characters entered or reset the margins.
	When centering between tabs, the number of characters entered exceeds the number that can be printed.	Reduce the number of characters entered or reset the tabs.
	An attempt was made to center between margins after entering characters on the display.	Use [⌫] to delete the characters from the display and then perform the centering operation.
Executing decimal tabs	Decimal tab was not set to the right of the carrier.	Move the carrier to a position left of the decimal tab, or set a new decimal tab.
	An attempt was made to type more characters than can fit in the allotted space.	Change the position of decimal tabs, or reduce the number of characters typed.

TEXT MEMORY

Operation taking place	Cause	Remedy
Printing a stored text	An automatic function that cannot be executed is included in the stored text.	Press [TEXT] to halt operation. See page 42 and check items listed.
Switching typestyles for printing of a stored text	The typestyle cartridge has not been inserted.	Insert the typestyle cartridge before beginning the operation.
Storing a text or correcting a stored text	An attempt was made to store more text than can fit in the remaining text memory (overflow).	Press [TEXT] to release the keyboard lock and then clear unnecessary text.

RAM CARTRIDGE

Operation taking place	Cause	Remedy
Executing write operation	After pressing [Y] in response to [RENAME Y/N?], a title code was specified that is already saved in the RAM cartridge.	Specify a title code that is not in the RAM cartridge.
Executing read operation	After pressing [Y] in response to [RENAME Y/N?], a title code was specified that already exists in the text memory.	Specify a title code that is not in text memory.
Executing read or write operation	You are using a new RAM cartridge that has not yet been initialized.	Initialize the RAM cartridge.
Executing read or write operation	[CODE] and [E] was pressed when the RAM cartridge was not in place.	Insert the RAM cartridge and begin the operation again.

Others

Operation taking place	Cause	Remedy
–	MODE setting is not complete (the MODE indicator is blinking).	Press MODE.
–	An attempt was made to enter or print beyond the right margin while typing.	Press RETURN or MARGIN RELEASE.
–	CODE appears on the display.	Press CODE.

ERROR MESSAGES

Message	Meaning	Remedy	Page Reference
INTERNAL MEMORY FULL!	Overflow of the text memory	After pressing CODE when using the RAM cartridge or TEXT during text operation to release keyboard lock, increase available memory capacity by clearing unnecessary texts in text memory.	46, 54
EXTERNAL MEMORY FULL!	Overflow of the RAM cartridge	After pressing CODE to cancel keyboard lock, increase available memory capacity by clearing unnecessary texts from the RAM cartridge.	51
USE TWO TITLES!	An attempt was made to enter more than 4,000 characters under one text code. The message asks you to divide the text between two title codes for storage.	After pressing TEXT to cancel keyboard lock, store the text under two different title codes.	
▯ ▯ ▯ ▯	Battery change (the typewriter) is required.	Replace batteries immediately.	4

CARING FOR YOUR TYPESTAR 7

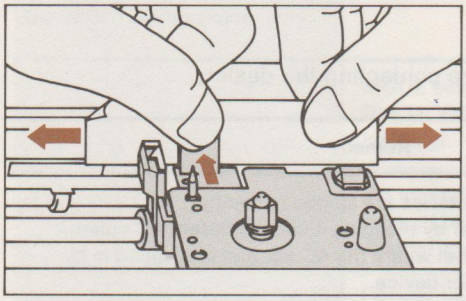
Clean the outer surface of your typewriter by gently wiping off dust with a dry, soft cloth. Do not use water or organic solvents (ketone, thinners, etc.). The TYPESTAR 7 is shipped after full inspection. If there are any problems, please contact the sales outlet where you purchased your TYPESTAR 7.

Use the table below to check the TYPESTAR 7 before contacting the dealer.

Problem	Remedy
Operation impossible when power switch is on.	• Make sure the batteries are loaded correctly. • Check the adapter by plugging it into a different AC outlet. • Check the AC outlet where the AC adapter is plugged in by plugging in another device. • Check to make sure that the cartridge port is closed properly. After closing it, turn the power switch off and then back on again.
Printout is too light or too dark.	• Adjust the print density dial. • Try a different type of paper.
Character density, character width or margins are uneven.	• Replace the batteries. • Recharge the battery pack.
Typewriter does not print.	• Replace the ribbon cassette.
Print head is against the platen.	• Turn the power switch on to reposition the print head and then off again.
Line printout is incomplete.	• Replace the batteries. • Recharge the NiCd battery pack.
Typewriter does not accept (envelope).	• Use a different type of envelope.

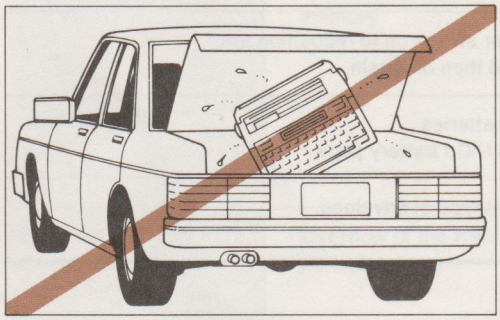
CLEANING THE PRINT HEAD

When printed characters get blurred or when paper gets stained, clean the print head with a soft cloth or paper.

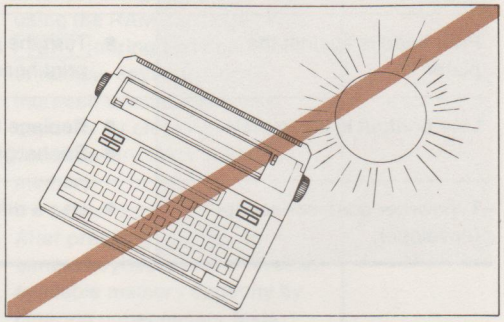


1. Remove the ribbon cassette.
2. Put a cloth or sheet of soft paper between the print head and platen.
3. With the print head pressed gently against the platen, slide the cloth or paper sideways.

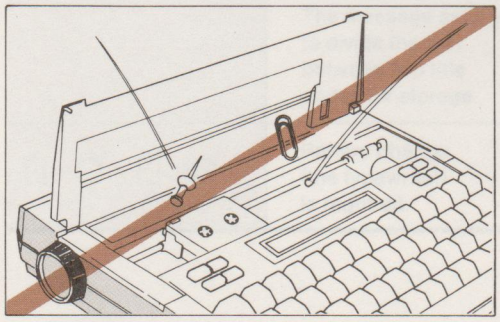
KEEPING YOUR TYPESTAR 7 IN GOOD CONDITION



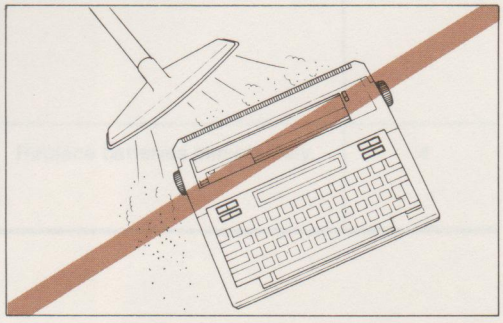
Avoid exposing the TYPESTAR 7 to high temperatures and humidity. Never leave the typewriter in the trunk or on the dashboard of your car.



Avoid exposing the TYPESTAR 7 to direct sunlight.



Be careful not to drop any foreign objects into the TYPESTAR 7



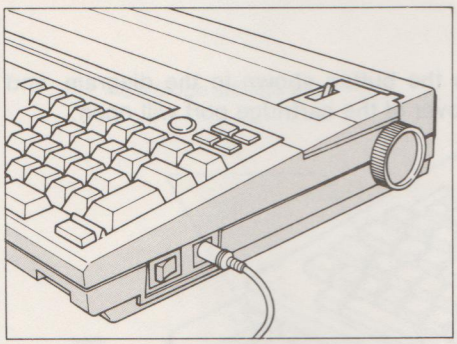
Avoid using the TYPESTAR 7 in a dusty environment.

OPTIONS

The AD-6 AC Adapter, NiCd Battery Pack-50 (rechargeable battery unit), Serial Interface-30, Parallel Interface-30 and Carrying Case-50 II are available for use as options with your TYPESTAR 7.

- Do not use the TYPESTAR 7 with anything other than the AD-6 AC Adapter or NiCd battery Pack-50.

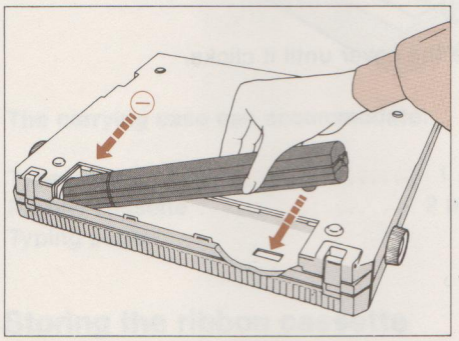
Canon AD-6 AC Adapter



1. Turn off the power switch of the TYPESTAR 7.
2. Plug the adapter into an AC outlet.
3. Insert the AC adapter output plug into the jack next to the power switch on the typewriter.
4. Turn on the TYPESTAR 7's power switch. When the AC adapter is connected to the typewriter, the power source switches from batteries to AC power.

- Do not use the adapter with any other electrical devices.
- Do not connect or disconnect AC adapter output plug from the adapter jack unless the power switch of the TYPESTAR 7 is off.

The Canon NiCd Battery Pack-50



Loading the battery pack

1. Turn off the power switch of the typewriter.
2. Load the Pack-50 so that the projection fits into the slot on the bottom of the battery case.
3. Slide the battery cover back into place until you hear a click.

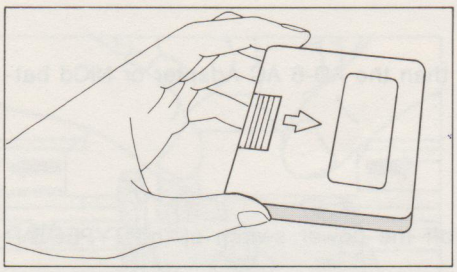
Recharging the battery pack

1. Turn off the power switch of the typewriter.
2. Plug the Canon AC Adapter AD-6 into an AC outlet.
3. Insert the output plug of the adapter into the AC adapter jack next to the power switch on the typewriter. A full charge normally takes about 10 hours. Be sure to disconnect the adapter after this time period to avoid overcharging.

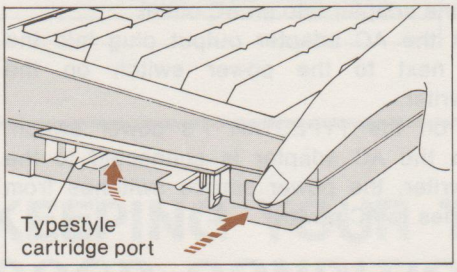
- To avoid overcharging the battery, refrain from typing and recharging the battery pack at the same time.
- If you leave the Battery Pack plugged in for a long period of time, you may overcharge the battery.

Typestyle and RAM cartridges

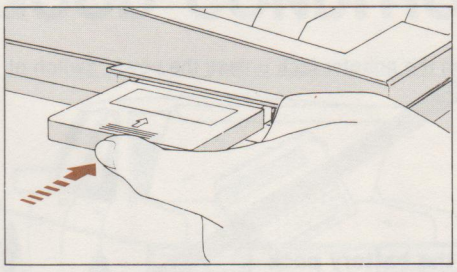
Loading typestyle and RAM cartridges (options)



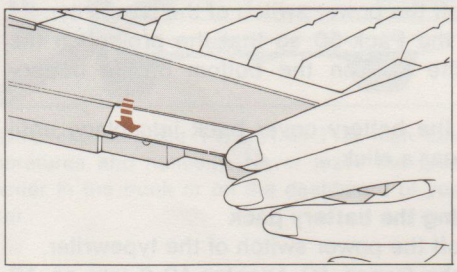
- The labeled side is the face of a cartridge.
- The cartridge port is located on the left side of the typewriter.



1. Press the button shown in the diagram, and the cover of the cartridge port will open.



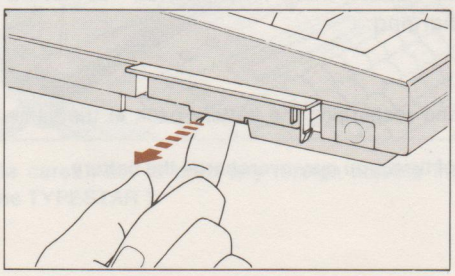
2. Press firmly to insert the cartridge. Be sure the label is facing up.



3. Close the cover until it clicks.

- Do not open the cover during printing.
- If the cartridge port cover is open, the typewriter will not operate even with the power switch on.
- When using the typestyle cartridges, set the typestyle mode to B (see page 16).

Removing typestyle and RAM cartridges (options)

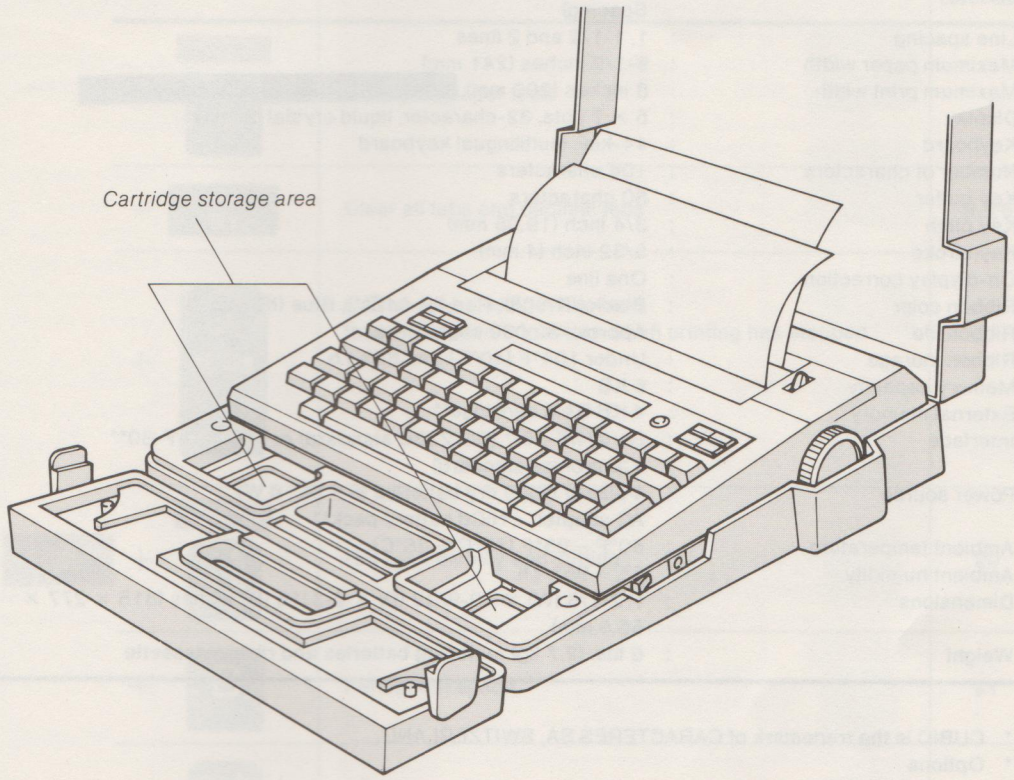


1. Press the button and the cover of the cartridge port will open.

2. To remove a cartridge, place your finger under the projection at the bottom of the cartridge and pull out. Be sure to close the cover.
   - The typestyle mode will be reset to A if a typestyle cartridge is removed.

Carrying Case-50II

- The cover of your carrying Case-50II can serve as a convenient document holder and the front can be used as a palm rest. You can type as well as operate the power switch and print density dial without taking the typewriter out of the case.
- The diagram below shows where to place the cartridges.

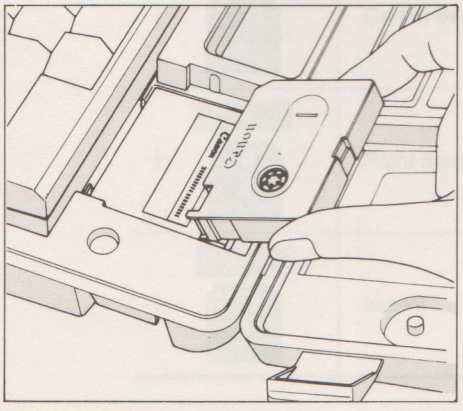


The carrying case can accommodate:

Typewriter ..... 1 pc
Ribbon cassette ..... 2 pcs
Typing paper

Typestyle cartridge or
RAM cartridge ..... 2 pcs
Instruction manual

Storing the ribbon cassette



Place the ribbon cassette into the storage area as indicated to the left.

SPECIFICATIONS

Printing method	:	32 × 26-dot thermal-transfer printer
Printing speed	:	18 characters per second
Typestyle	:	COURIER 10, COURIER ITALIC 10II**, COURIER 12II**, CUBIC*PSII**, DICTIONARY PSII**, ARMERIA PSII**
Print pitch	:	10 characters/inch, 12 characters/inch**, PS** (Proportional Spacing)
Line spacing	:	1, 1-1/2 and 2 lines
Maximum paper width	:	9-1/2 inches (241 mm)
Maximum print width	:	8 inches (203 mm)
Display	:	5 × 7 dots, 32-character, liquid crystal display
Keyboard	:	44-key, multilingual keyboard
Number of characters	:	108 characters
Key buffer	:	80 characters
Key pitch	:	3/4 inch (19.05 mm)
Key stroke	:	5/32 inch (4 mm)
On-display correction	:	One line
Ribbon color	:	Black (IR-50II), Red (IR-51II**), Blue (IR-52II**)
Ribbon life	:	Approx., 32,000 characters
Ribbon storage	:	Under 104°F (40°C) and 85% r.h.
Memory capacity	:	6 KB
External memory	:	4 KB RAM cartridge**
Interface	:	Serial I/F-30** (RS-232C standard) or Parallel I/F-30** (Centronics standard)
Power source	:	4 size-D (R20) dry batteries (6 V DC, 6 W) AC adapter , NiCd battery pack**
Ambient temperature	:	50°F – 95°F (10°C – 35°C)
Ambient humidity	:	5% – 95% r.h.
Dimensions	:	(12-1/8 (W) × 10-9/32 (D) × 2-3/16 (H) inches (315 × 277 × 55.5 mm)
Weight	:	6 lbs. (2.7 kg) including batteries and ribbon cassette

* CUBIC is the trademark of CARACTERES SA, SWITZERLAND.
** Options

Subject to change without notice.

CODE KEY FUNCTIONS

Press CODE and the desired function key to activate the automatic functions listed below.

	Function	Page reference
+ PAPER FEED) ß 0	Automatic paper feed	7
+ TAB CLR	Clear all tabs and decimal tabs	9, 26
+ RETURN	Carrier return without line feed. Insert a hyphen and return when printing has stopped	15
CODE + HOT ZONE ° ¶ ± §	Hot zone display and setting	20
+ B	Permanent space	21
+ — + – =	Permanent hyphen	21
+ CENTER MARGIN ! o 1	Center between margins	22
+ CENTER TAB @ a 2	Center between tabs	23
+ RIGHT ALIGN # 3	Right margin alignment	24
+ INDENT $ £ 4	Indent	25

	Function	Page reference
+ TAB SET	Set decimal tabs	26
+ TAB	Execute decimal tabs	27
TAB + | TAB CLR	Clear decimal tabs	28
CODE + FORMAT (ç 9	Store, call and clear line format	29 ~ 33
+ RELOC	Move the cursor to the beginning of a text while displaying a stored text	36
+ TEXT CAPACITY * •• 8	Display remaining capacity of text and RAM cartridge memory	57
+ E	Display the RAM cartridge menu	50, 51, 54, 56

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FCC REGULATIONS

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the computer with respect to the receiver.
- Move the computer away from the receiver.
- Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How To Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402. Stock No. 004-000-00345-4.

* Use of shielded cable is required to comply with Class B limits of FCC rules.

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