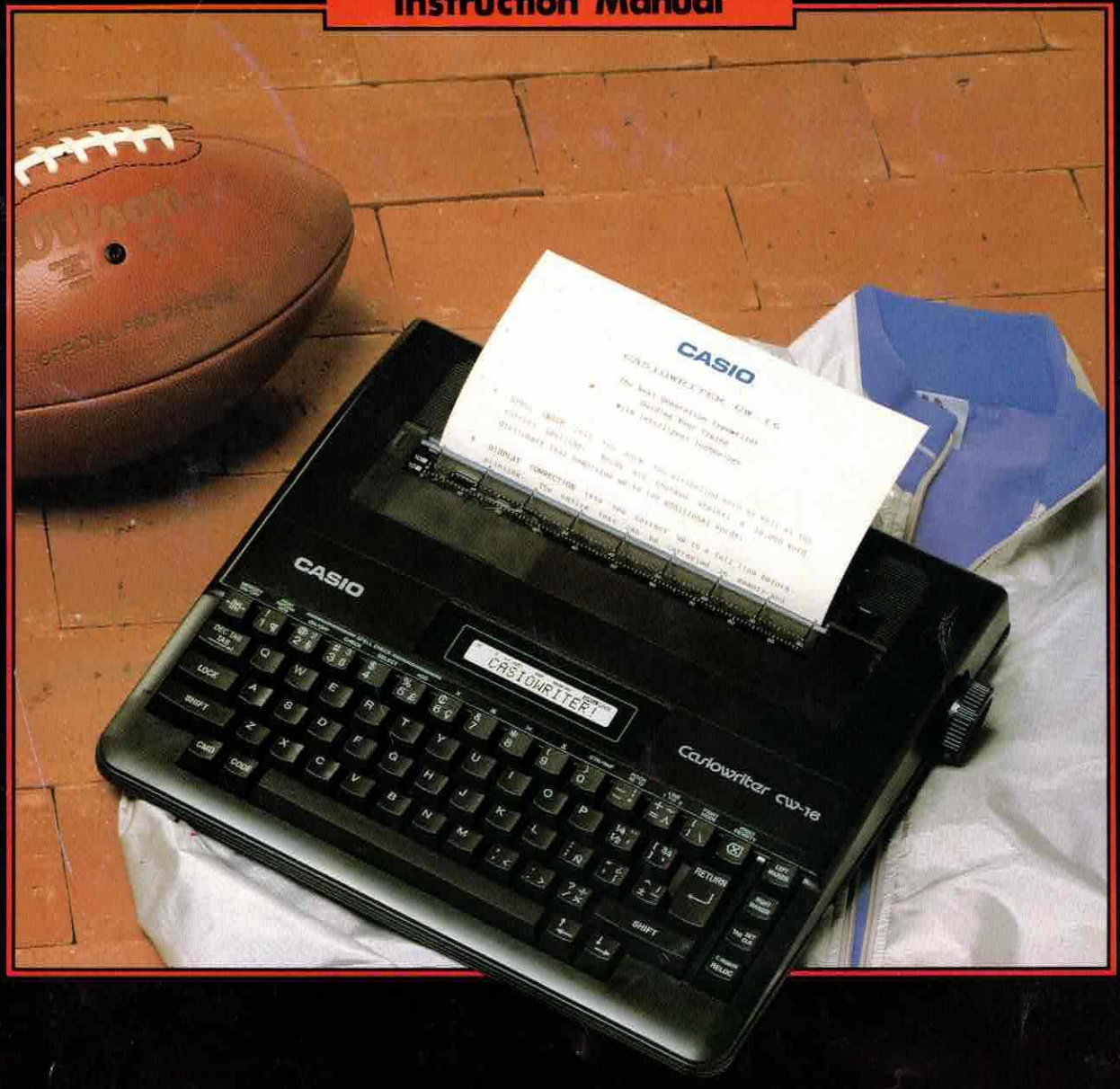
# Casiowriter™ CW-16

## PERSONAL ELECTRONIC TYPEWRITER

## Instruction Manual




CASIO

A FC

# *INTRODUCTION*

Congratulations on your selection of a CASIOWRITER!
More than just an electronic typewriter, the CASIOWRITER offers a host of features and functions designed to make typing quicker and easier. These include:

- Built-in spelling check system* with correction function
- Decimal tab
- Special print styles
- Automatic centering
- Right margin justification
- Right margin flush
- Automatic word wrap
- Automatic carrier return
- Repeat typing for all keys
- Full punctuation capabilities
- Special symbols
- Text memory
- Plain or thermal paper capabilities
- Battery or AC
- Automatic power OFF

Be sure to read this manual carefully before operation to become familiar with the features and functions of your new CASIOWRITER.

* ***The Spelling portion of this product is based on Proximity Linguistic Technology.***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# 1 GETTING TO KNOW YOUR CASIOWRITER



## 1.1 UNPACKING

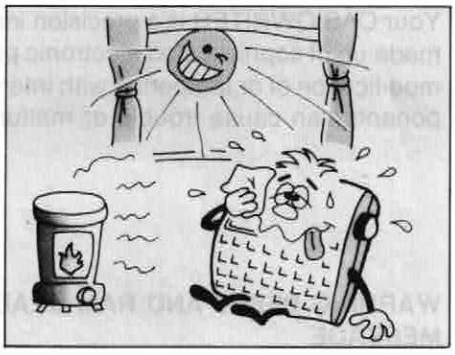
Remove the CASIOWRITER from its carton and ensure that the following items are included:

- One black ribbon cassette
- 10 sheets of plain paper
- Four D-SIZE batteries

## 1.2 PRECAUTIONS

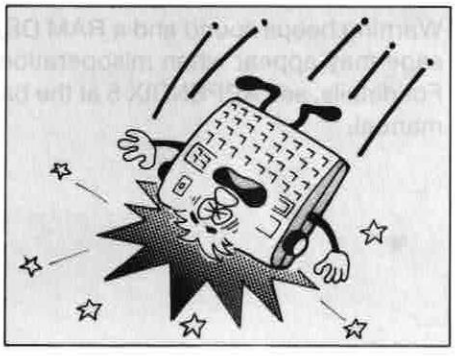
**AVOID HEAT, HUMIDITY, AND DIRECT SUNLIGHT**

Do not overexpose the unit to direct sunlight, place it near a heater or in any area subject to high temperatures.



**DO NOT DROP THE UNIT AND AVOID SEVERE IMPACTS**

Severe impact can result in malfunction. When carrying or transporting the unit, be sure to handle it gently.

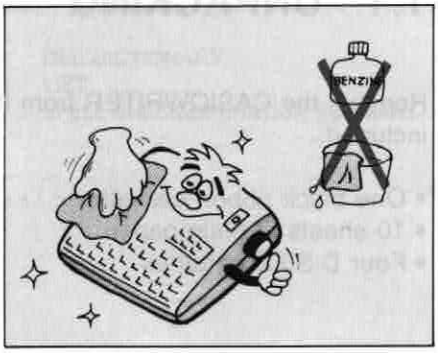


## AVOID LIQUIDS, DUST, ETC.

Do not allow foreign matter to enter between the keys. Be especially careful of metallic objects such as hairpins, sewing needles or coins. Also, do not allow the unit to get wet.

## DO NOT USE CHEMICAL AGENTS FOR CLEANING

Clean the unit with soft cloth dampened with a mild neutral detergent solution. Soak the cloth in the solution and then squeeze until almost dry.




## NEVER ATTEMPT YOUR OWN MAINTENANCE

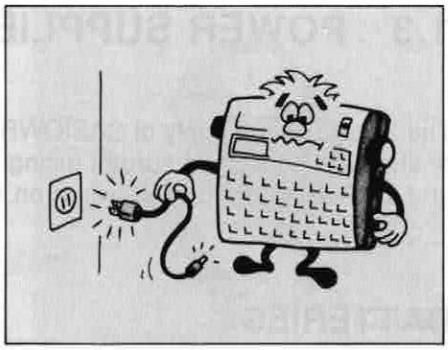
Your CASIOWRITER is a precision instrument made up of sophisticated electronic parts. Any modification of or tampering with internal components can cause trouble or malfunction.

## WARNING BEEPS AND RAM DEAD MESSAGE

Warning beeps sound and a RAM DEAD message may appear when misoperation occurs. For details, see APPENDIX 5 at the back of the manual.

## IN CASE OF MALFUNCTION...

Check whether switches, connections, etc. are set correctly. If the unit still does not work, contact the original retailer or a nearby dealer. Never attempt to repair the unit yourself.



***The precautions noted here cover only general situations. Be sure to also read the operational precautions in APPENDIX 5.***

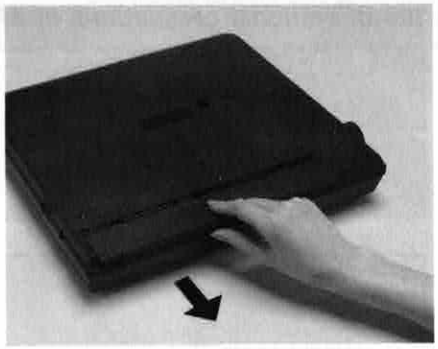
# 1.3 POWER SUPPLIES

The 2-way power supply of CASIOWRITER allows the unit to be powered by batteries or standard household current (using an optional AC adaptor). Power is switched ON and OFF using the power switch on the leftside of the unit.

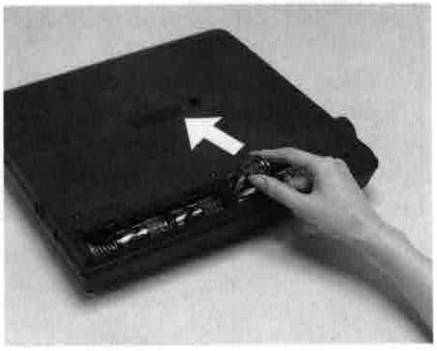
## BATTERIES

The unit is capable of being powered by four D-SIZE batteries.

1. Ensure that the power of the unit is OFF.
2. Open the battery compartment cover on the bottom of the unit by sliding it in the direction indicated by the arrow.



3. Load the four batteries ensuring that polarity is correct.
4. Replace the battery compartment cover.



* Remove batteries from the battery compartment when the unit is not used for extended periods. Battery leakage can damage electrical components.

* Always replace all four batteries.

## AC ADAPTOR (Option)

Connection of an optional AC adaptor (AD-4845) allows the unit to be powered by standard household current (mains).

* Always ensure that the power of the unit is OFF when connecting or disconnecting the adaptor.

* Use only the specified CASIO adaptor to prevent damage to the unit.

* Adaptors normally become warm when connected to the power source. This is not cause for worry, but adaptors should be disconnected whenever the unit is not used for extended periods.

(Option)

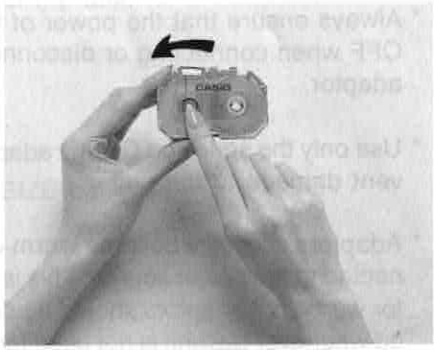
## AUTO POWER OFF FUNCTION

An automatic power cut-off function activates approximately 6 minutes after the last operation of the unit, even when the optional AC adaptor is being used. Power can be restored by switching the power of the unit OFF and then ON again, or by pressing the [SHIFT].

# 1.4 RIBBON CASSETTES

Ribbon cassettes are available in three colors (black, blue, red).
Load the cassette as outlined below:

1. Remove the cassette from its package and remove the plastic retainer that keeps the spools from turning.



2. Use your finger or a pencil to wind the ribbon past the leader. Always ensure that the exposed portion of the ribbon is taut.

3. Press [CMD] + [C.RIBBON] to bring the carrier to the center. At this time, the message "Change Ribbon" appears on the display.

4. Open the hood by lifting it up.

5. Place the cassette onto the carrier and press gently until it snaps into place. Ensure that the printhead enters between the exposed ribbon and the cassette.

6. Replace the hood.

7. Press either [↵] or [CMD] + [C.RIBBON] to clear the display and return the carrier to the next typing position.

* Store cassettes in a cool, dry place.
* Ribbon cassettes are not required when thermal paper is employed.

# 1.5 PAPER

The CASIOWRITER is capable of printing on either plain, untreated paper with cassette ribbon, or on thermal paper (without cassette ribbon). Load paper into the unit using the following procedure:

1. Insert the paper into the paper slot.
2. Turn the platen knob to feed the paper into the unit.

3. After the top of the paper appears, pull the paper release lever to release the paper and then align the top corners of the paper with the bottom.

4. After the paper is aligned properly, return the paper release lever to its original position and move the top of the paper down by turning the platen knob.

* Always keep the hood closed when typing.
* Paper sizes up to a width of 220mm can be used.
* When using thermal paper, ensure that the shiny side of the paper is facing the printhead when in the CASIOWRITER.
* Roughly grained papers do not produce satisfactory results.

# 2 BASIC FUNCTIONS

## 2.1 KEY IDENTIFICATION CHART

Each Casiowriter key produces four characters, though letter keys show only the one, most commonly used letter they represent. Pressing [SHIFT] will result in either a capital letter or common punctuation sign. All keys automatically repeat their respective functions when held down.

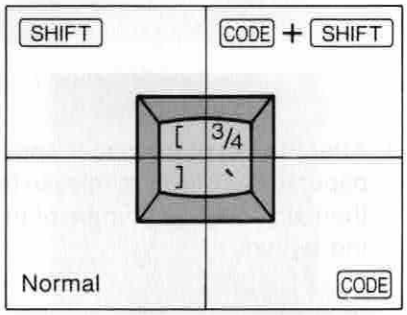
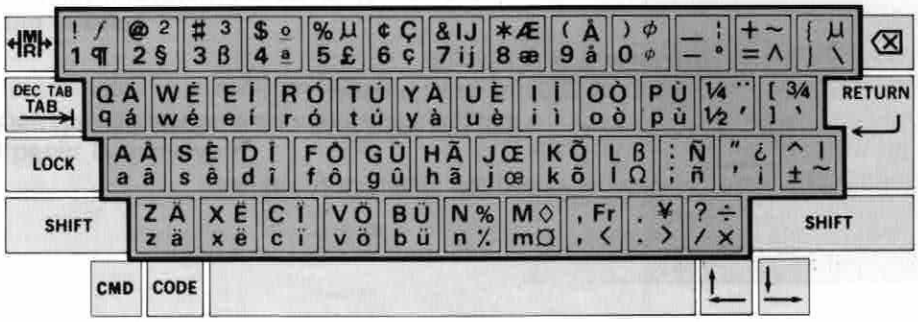



Figure 1

The Casiowriter also has a CODE key ( [CODE] ), that types a different letter or symbol when pressed along with another key. [CODE] + [SHIFT] + character key will produce still more characters (Figure 1).

The Casiowriter produces punctuated characters, such as [ñ] or [Ú]; and also produces accents, tildes, umlauts, and other superscript punctuation alone: [ ´ ], [ ˜ ], [ ¨ ], [ ˆ ], and [ ` ]. When you type any of these, the Casiowriter automatically waits for input of the letter underneath. For instance, to type [È], you press [CODE] + [ ] (the key in Figure 1), [SHIFT] + [E] .

Certain other keys are used to control typing, editing, and memory functions when used in combination with the [CMD] key.



## 2.2 AUTO TEST FUNCTION

The auto test function produces a hardcopy that demonstrates the print functions of the CASIOWRITER.

1. After loading paper into the unit, turn on power while holding down the [CODE] key.

2. The following should appear on the paper:

CASIOWRITER CW-16

The Next Generation Typewriter
Guiding Your Typing
With Intelligent Technology

* SPELL CHECK lets you know the misspelled word as well as the correct spelling. Words are checked against a 50,000 word dictionary that memorizes up to 130 additional words.

* DISPLAY CORRECTION lets you correct up to a full line before printing. The entire text can be corrected in memory and reprinted.

* TWO DOUBLE-SPACED PAGES of typing can be stored in the internal text memory - even when power is off.

* **DOUBLE WIDTH**, bold, underlining, 10 or 12 pitch, are all included as well as extra features like the following :

CENTERING

RIGHT MARGIN FLUSH

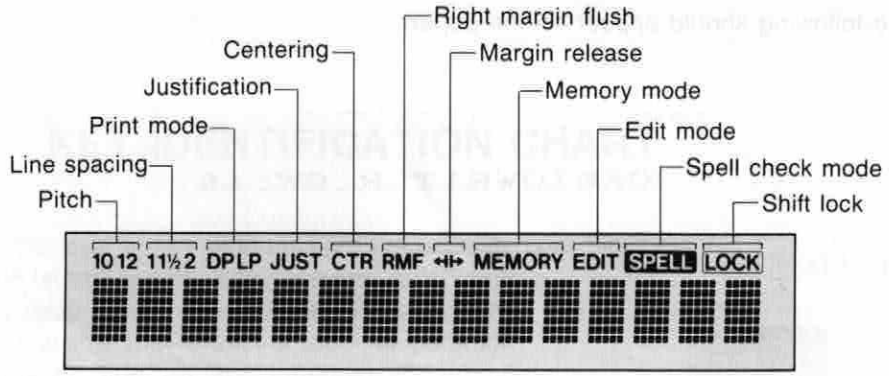
DECIMAL TABULATION
12345.67890
0.1234

* NUMEROUS EDITING FEATURES and RIGHT MARGIN JUSTIFICATION provide the professional touch to all your correspondence and reports.

AT CASIO
MIRACLES NEVER CEASE!

## 2.3 DISPLAY

The 15-character display of the CASIOWRITER shows text, as well as the status of various functions.




Besides this, other symbols and messages appear to provide important information and prompts that help to ensure proper operation.

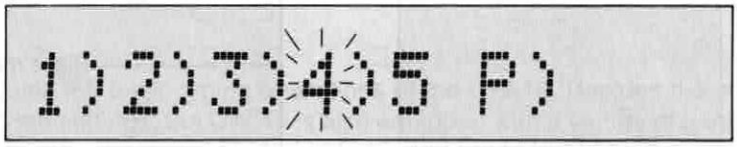
## 2.4 DISPLAY CONTRAST CONTROL

Use the display contrast control on the right-side of the unit to adjust the darkness of the characters appearing on the display. Rotating the control towards the back makes the display darker, while rotating it towards the front makes the display lighter.

## 2.5 PRINT DENSITY ADJUSTMENT

**KEY OPERATION:** CMD + ⌫ (PRINT DENSITY)

1. Press CMD + ⌫ to enter the print density adjustment mode. At this time, the display should appear as follows:




2. Enter a value from 1 (lightest) through 5 (darkest) to adjust print density. Entering P (upper case or lower case) produces a demonstration print of the available densities and returns to the print density adjust mode.

```
Density:1 Density:2 Density:3 Density:4 Density:5
```

3. Press any key to return to the mode in effect prior to the print density adjust mode.

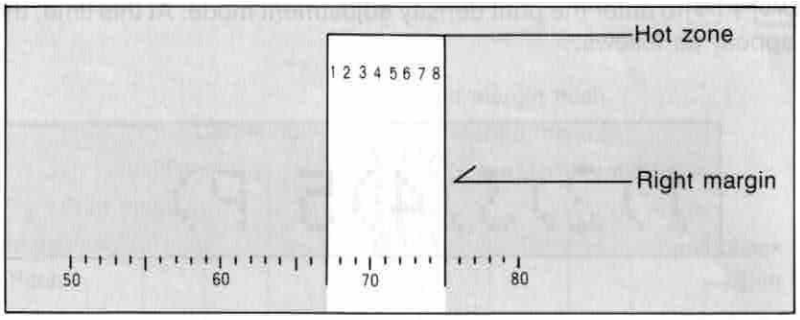
* The print density adjust mode can only be entered when the printhead is at the left margin or when the current line contains only spaces.
* Density values 1 through 5 can be entered by pressing the corresponding keyboard key, regardless of the shift lock status.

## 2.6 HOT ZONE AND WORD WRAP

The "hot zone" is an area that extends from a point eight spaces from the right margin up to the margin itself. A beep will always sound automatically when you enter the hot zone while typing.

In the direct print mode (see 3.1), this will signal that a carrier return is required since you are nearing the right margin. If you continue typing without a carrier return, the printhead will stop when the right margin is reached. (See MARGIN RELEASE, 3.9.) In the line print (see 3.1) and memory modes, entering the hot zone will cause the unit to search back in the line for the last space or hyphen. Once you reach the right margin, the unit will automatically break the line at the last space or hyphen and wrap all subsequent text to the beginning of the next line.

* Word wrap does not function properly when very narrow margins or very long words are used. A single word whose length exceeds the space available between the left and right margins is automatically cut off at the right margin, and the cut off portion is printed on the next line.




## 2.7 INITIALIZATION

**KEY OPERATION:** MEMORY ON/OFF [M R] **+ POWER ON**

The unit should be initialized by holding down the [⊣⊢] key while switching power ON after replacing batteries. This procedure can also be used to clear memory. See page 45 for initialized function settings.

# 3 BASIC OPERATION



This section explains the basic typing operations of the CW-16. Besides the standard pitch, margin and tab settings, the CW-16 is also equipped with a variety of print modes to suit the specific typing job being performed. The operation described in this section can also be used in the memory mode (see page 29).

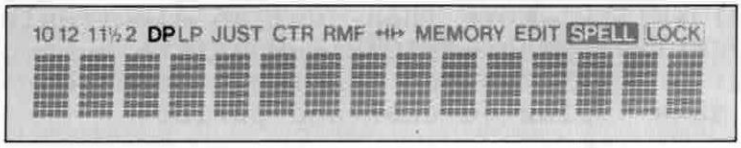
## 3.1 PRINT MODES

**KEY OPERATION:** CMD + PRINT MODE

Switches between the three available print modes in the sequence:
LP → LP JUST → DP → .....

### DP (DIRECT PRINT) MODE

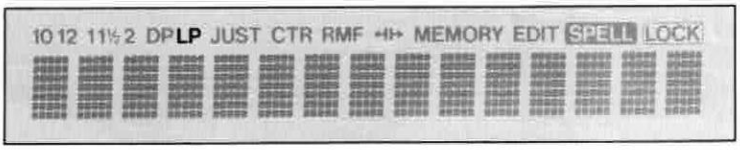
**DISPLAY:**




Prints everything typed on the keyboard directly onto the paper as it is typed. The 15 most recent characters typed are also shown on the display. A beep sounds when the hot zone is entered (see 2.6). Another beep sounds when the right margin is reached, and further input is impossible. At this time, press either ↵ or ⊣⊢ (see 3.9). Pressing ⌫ (see page 20) deletes text from the display, but not from the paper. This setting is retained even when the power of the unit is switched OFF.

### LP (LINE PRINT) MODE

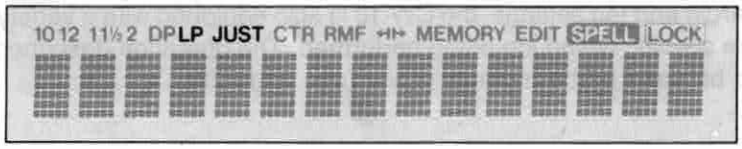
**DISPLAY:**



Prints everything typed on the keyboard after [↵] is pressed or when a space or hyphen is typed after entering the hot zone (see 2.6), resulting in an automatic carrier return. The 15 most recent characters typed are also shown on the display.
Corrections can be made on the display before the current line is printed. Entering spaces from the beginning of a line causes the carrier to move along the platen with each space entered. Carrier movement stops when any other input key (besides the spacebar) is pressed. The line print setting is retained even when the power of the unit is switched OFF.

## LP JUST (LINE PRINT JUSTIFIED)

**DISPLAY:**




The same as the LINE PRINT mode, except printing is performed with right margin justification. Only lines completed by automatic carrier returns are justified. Lines ended with a manual carrier return are printed as they are entered.

**EXAMPLES:**

• RAGGED MARGIN

```
Congratulations on your selection of a
CASIOWRITER! More than just an electronic
typewriter, the CASIOWRITER offers a
host of features and functions designed
to make typing quicker and easier.
```

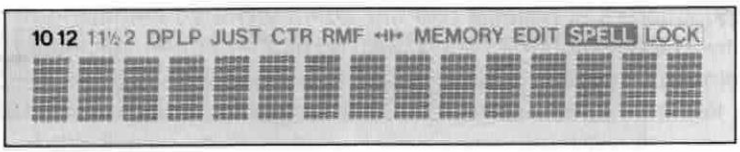
• JUSTIFIED MARGIN

```
Congratulations  on  your  selection of a
CASIOWRITER! More than just an electronic
typewriter, the CASIOWRITER offers a host
of  features  and  functions  designed  to
make typing quicker and easier.
```

## 3.2 PRINT PITCH

**KEY OPERATION:** CMD + PITCH 10 12

**DISPLAY:**




Switches the pitch of the characters printed between Pica (10 chrs/inch) and Elite (12 chrs/inch). Pitch can be changed only at the beginning of a line or within a line that contains spaces only. The double scale on the transparent portion of the hood shows the character spacing for the two available pitches. The maximum line length in Pica is 80 characters, while the maximum line in Elite is 96 characters. These values are halved when double width characters (see 5.2) are used. Pitch settings are retained even when the power of the unit is switched OFF.

**EXAMPLES:**

• PICA (10)

```
Congratulations on your selection of a CASIOWRITER!
```

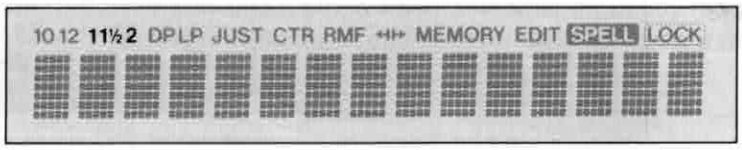
• ELITE (12)

```
Congratulations on your selection of a CASIOWRITER!
```

## 3.3 LINE SPACING

**KEY OPERATION:** CMD + LINE 1 1½ 2 (+ ~ / = ^)

**DISPLAY:**




Switches the spacing between lines from single, to 1½, to double. Line space settings are retained even when the power of the unit is switched OFF.

**EXAMPLES:**

• SINGLE (1)

```
More than just an electronic typewriter,
the CASIOWRITER offers a host of features
and functions designed to make typing
quicker and easier.
```

• 1½

```
More than just an electronic typewriter,
the CASIOWRITER offers a host of features

and functions designed to make typing

quicker and easier.
```

• DOUBLE (2)

```
More than just an electronic typewriter,

the CASIOWRITER offers a host of features

and functions designed to make typing

quicker and easier.
```

## 3.4 CURSOR KEYS

**KEY OPERATION:** [↑←], [↓→], [SHIFT] + [↑←], [SHIFT] + [↓→]

Move the cursor (represented by a line below the text display) in the direction noted on the respective cursor key. [←] and [→] can be used in the LP mode (see 3.1), with movement limited between the left margin and last typing position. All four cursor keys can be used in the EDIT mode (see 6.1), with movement limited between the first position and last position of the file.

## 3.5 LINE TOP

**KEY OPERATION:** [CMD] + [S]

Moves the cursor to the first (leftmost) character or function code in the current line. This function cannot be used in the DP mode (see 3.1).

## 3.6 LINE END

**KEY OPERATION:** [CMD] + [D]

Moves the cursor to the last (rightmost) character or function code in the current line. This function cannot be used in the DP mode (see 3.1).

## 3.7 LEFT MARGIN

**KEY OPERATION:** [LEFT MARGIN]

Sets the left margin at the current printhead (DP mode, 3.1) or cursor (LP modes, 3.1) position. The space bar, [⌫], [←] and [→] keys are used to locate the printhead or cursor at the desired location. The [←] and [→] keys (see 3.4) can only be used in the line print mode, and only within the range that the carrier has been moved from the beginning of the line using the space bar. The space bar will cause the carrier to move in the LP mode only until text is input in the current line. The [⊣⊢] key (see 3.9) is used to move past margins that have already been set. The minimum distance allowed between the left and right margins is 8 spaces. Note also that changing the pitch also changes the left margin setting. The current left margin setting cannot be changed in the EDIT mode (see 6.1), or during operation of the right margin flush (see 4.4), centering (see 4.3), or decimal tab (see 4.1) functions. The left margin setting is retained even when the power of the unit is switched OFF.

**EXAMPLE:**

1. Move the printhead or cursor to the desired location using the space bar, ⌫, ←, and → keys.
2. If the printhead or cursor will not move to the left because of an existing margin, press ⊣⊢ to continue.
3. Press LEFT MARGIN.

## 3.8 RIGHT MARGIN

**KEY OPERATION:** RIGHT MARGIN

Sets the right margin at the current printhead (DP mode, 3.1) or cursor (LP modes, 3.1) position. The printhead and cursor are moved using the same procedures as those explained for the left margin setting (see 3.7). The minimum distance allowed between the left and right margins is 8 spaces. Note also that changing the pitch also changes the right margin setting. The current right margin setting cannot be changed in the EDIT mode (see 6.1) or during operation of the right margin flush (see 4.4), centering (see 4.3), or decimal tab (see 4.1) functions. The right margin setting is retained even when the power of the unit is switched OFF.

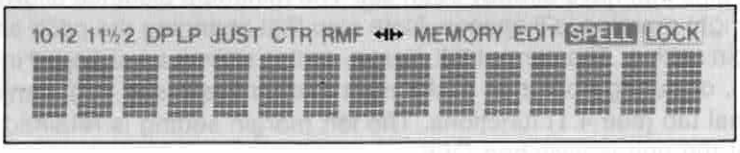
**EXAMPLE:**

1. Move the printhead or cursor to the desired location using the space bar, ⌫, ←, and → keys.
2. If the printhead or cursor will not move to the right because of an existing margin, press ⊣⊢ to continue.
3. Press RIGHT MARGIN.

## 3.9 MARGIN RELEASE

**KEY OPERATION:** ←|M R|→

**DISPLAY:**



Used to make it possible to move the printhead or cursor past a preset margin, and is switched OFF by pressing [⊣⊢] again, by pressing the [↵] key. Even if margin release is switched OFF while outside of two preset margins, the printhead or cursor can return inside of the margins without releasing the margins again. Margin release cannot be performed during operation of the centering (see 4.3) and right margin flush (see 4.4) functions. Activating either of these two functions automatically switches margin release OFF.
This key is also held down while power is switched ON to initialize the typewriter.

**EXAMPLE:**

1. Move the printhead to the left or right margin using the space bar, [⌫], [↵], or the [←] and [→] keys.

2. Press [⊣⊢].

3. Continue moving the printhead.

## 3.10 TAB SET

**KEY OPERATION:** [TAB SET CLR]

Sets a tab at the current printhead (DP mode, 3.1) or cursor (LP modes, 3.1) position. The cursor and printhead are moved using the same procedures as those explained for the left margin setting (see 3.7), and up to 16 tabs can be set. Tabs cannot be set in the EDIT mode (see 6.1), or during operation of right margin flush (see 4.4), centering (see 4.3), or decimal tab (see 4.1) functions. Tabs can be set outside of preset margins, but the printhead or cursor will not move to such tabs unless the margins are released (see 3.9). Tab settings are retained even when the power of the unit is switched OFF.

**EXAMPLE:**

1. Move the printhead to the desired location using the space bar, [⌫], [↵], or the [←] and [→] keys.

2. Press [TAB SET].

## 3.11 TAB CLEAR

**KEY OPERATION:** [TAB SET CLR]

Clears tab settings (see 3.10).

**EXAMPLE:**

1. Press [→] to bring the printhead to the preset tab to be cleared.
2. Press [TAB CLR].

## 3.12 TAB ALL CLEAR

**KEY OPERATION:** [CMD] + [TAB SET CLR]

Clears all preset tabs. This operation causes the prompt: "Tab All Clr : Y/N" to appear on the display. All tabs are cleared when [Y] is entered. Tabs cannot be cleared in the EDIT mode (see 6.1), or during operation of right margin flush (see 4.4), centering (see 4.3), or decimal tab (see 4.1) functions.

## 3.13 DELETE

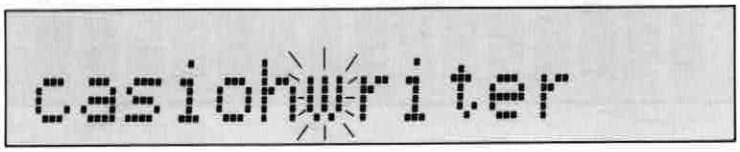
**KEY OPERATION:** [⌫]

Deletes the character to the left of the cursor position on the display and shifts all following text one space to the left. Holding down causes continuous deletion. A beep sounds when no more characters remain. In the LP mode (see 3.1), characters can be deleted up to the left margin, and in the EDIT mode (see 6.1), characters can be deleted up to the first position of the file. Note that this operation deletes characters on the display in the DP mode (see 3.1), but does not delete characters from the printed page.

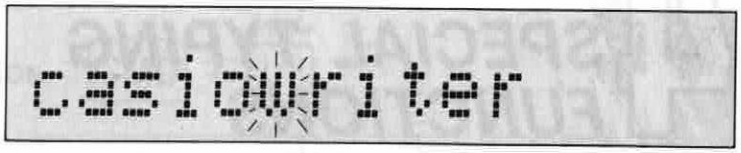
**EXAMPLE:**

The word "casiowriter" is misspelled as "casiohwriter".

1. Move the cursor to the "w" using the cursor keys (see 3.4).



2. Press the ⌫ key.




3. Press the RELOC key to return to the end of the line (see 4.2).

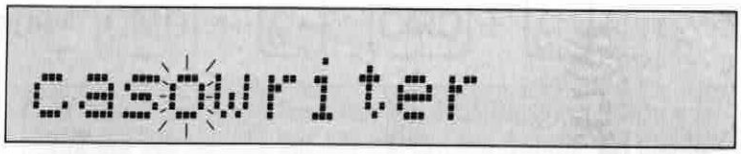
## 3.14 INSERT

Characters can be inserted at any point by simply entering the desired character at the current cursor position. Move the cursor to the insert position using the cursor keys (see 3.4) and press the key which corresponds to the character to be inserted. The text from the current cursor position right shifts to the right to open up a space for the new character.

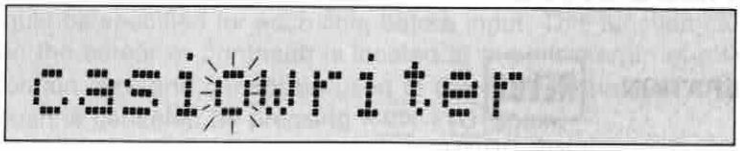
**EXAMPLE:**

The word "casiowriter" is misspelled as "casowriter".

1. Move the cursor to the "o" using the cursor keys (see 3.4).




2. Press the I key.




3. Press RELOC to return to the end of the line (see 4.2).

# 4 SPECIAL TYPING FUNCTIONS

The special typing functions of the CW-16 automate many troublesome typewriting chores, allowing them to be performed with minimal operation.

## 4.1 DECIMAL TAB

**KEY OPERATION:** [CMD] + [DEC TAB TAB→|]

Pressing [DEC TAB] while holding down [CMD] allows the tab to the right of the printhead to be used as a decimal tab. A warning beep will be heard if tabs have not been previously set. See 3.10 for tab set procedures.
A decimal tab aligns columns of numbers along their decimal places. Text can also be aligned using the decimal tab function.
For example, to use the decimal tab for the number 123.45, press [CMD] + [DEC TAB] followed by the numbers to be printed. This function cannot be used in the EDIT mode (see 6.1).

**EXAMPLE:**

```
   123.45
   456.89
    12.587
12345.678
CASIO
```

## 4.2 RELOCATE

**KEY OPERATION:** [RELOC]

**MODE:** LINE PRINT

Instantaneously relocates the cursor from any position moved to in the current line using the cursor keys, back to the location at the end of the current line. This function cannot be used in the DP mode (see 3.1), and automatically cancels the EDIT mode (see 6.1).

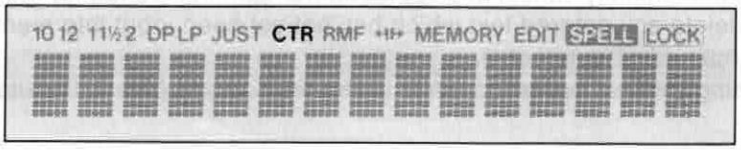
**EXAMPLE:**

See DELETE (3.13) and INSERT (3.14).

## 4.3 CENTERING

**KEY OPERATION:** CMD + CTR/RMF )0

**DISPLAY:**




Used to center words or lines between margins. CTR must be specified for each line before input. This function can be activated only when the cursor or printhead is located at the left margin of a line which does not yet contain text, and cannot be used in the EDIT mode (see 6.1).

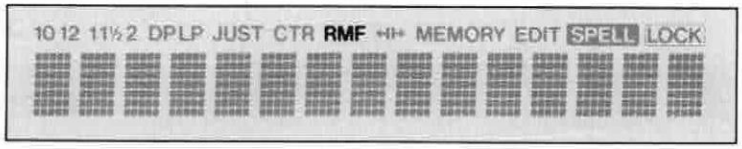
**EXAMPLE:**

```
* Decimal tab
* Four print styles
* Automatic carrier return
* Automatic centering
```

## 4.4 RIGHT MARGIN FLUSH

**KEY OPERATION:** CMD + CTR/RMF )0 , CMD + CTR/RMF )0

**DISPLAY:**




Used to align the last letter of a word or line on the right margin, with the left margin ragged. RMF must be specified for each line, before input. This function can be activated only when the cursor or printhead is located at the left margin of a line which does not yet contain text, and cannot be used in the EDIT mode (see 6.1).
Right margin flush is canceled by pressing CMD + O again.

**EXAMPLE:**

```
* Decimal tab
* Four print styles
* Automatic carrier return
* Automatic centering
```

## 4.5 QUIT

**KEY OPERATION:** CMD + Q

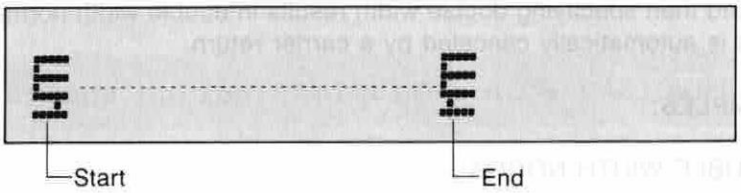
Used to immediately cancel any operation (i.e. printing, centering, right margin flush), and to delete any entered text which has not yet been input into memory by a carrier return (manual or automatic).
Performing the quit operation while in the EDIT mode (see 6.1) exits the edit mode.

# 5 PRINT STYLES

## 5.1 BOLD PRINT

**KEY OPERATION:** CMD + ※ (&/7)

**DISPLAY:**




Causes all subsequent input to appear in bold style (see example below). This command can be used in combination with any other print style. This type of print is canceled by reentering CMD + 7 or by specifying normal print. Specifying normal print first and then specifying bold results in bold normal print.

**EXAMPLES:**

• BOLD NORMAL

CASIOWRITER

• BOLD DOUBLE WIDTH

CASIOWRITER

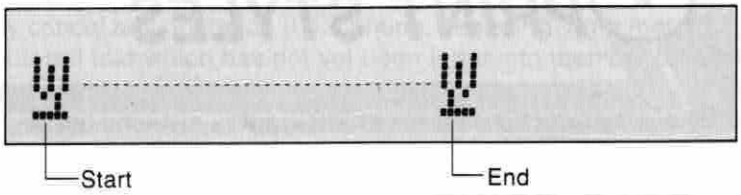
• BOLD UNDERLINED

CASIOWRITER

## 5.2 DOUBLE WIDTH PRINT

**KEY OPERATION:** CMD + 8

**DISPLAY:**




Causes all subsequent input to appear in double width style (see example below). This command can be used in combination with any other print style. This type of print is canceled by reentering CMD + 8 or by specifying normal print. Specifying normal print first and then specifying double width results in double width normal print. This command is automatically canceled by a carrier return.

**EXAMPLES:**

• DOUBLE WIDTH NORMAL

CASIOWRITER

• DOUBLE WIDTH BOLD

CASIOWRITER

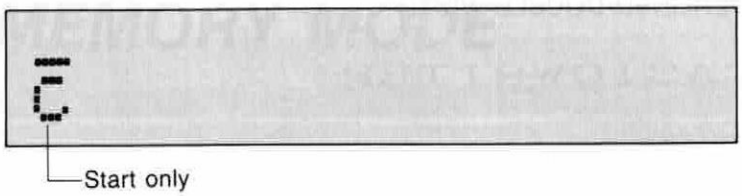
• DOUBLE WIDTH UNDERLINED

CASIOWRITER

## 5.3 NORMAL PRINT

**KEY OPERATION:** CMD + ¢ 6 Ç (×)

**DISPLAY:**




Causes all subsequent input to appear in normal style (see example below). This command can be used to automatically cancel any other print style. For this reason, a normal print specification can be considered to be a kind of clear command.

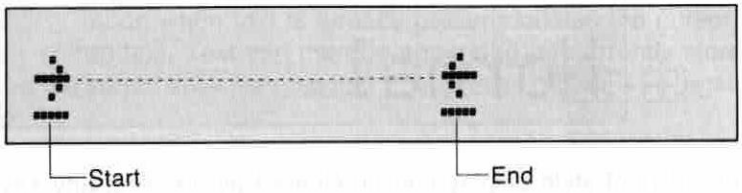
**EXAMPLE:**

```
Congratulations on your selection of a CASIOWRITER!
```

## 5.4 UNDERLINED PRINT

**KEY OPERATION:** CMD + ( 9 (×)

**DISPLAY:**




Causes all subsequent input to appear in underlined style (see example below). This command can be used in combination with any other print style. This type of print is canceled by reentering CMD + 9 or by specifying normal print. Specifying normal print first and then specifying underline results in under lined normal print. Spaces are not underlined. To underline a space, use SHIFT + _ .

**EXAMPLES:**

• UNDERLINED NORMAL

CASIOWRITER

• UNDERLINED BOLD

CASIOWRITER

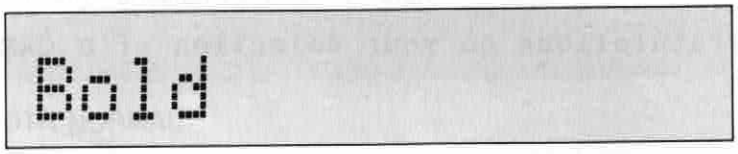
• UNDERLINED DOUBLE WIDTH

CASIOWRITER

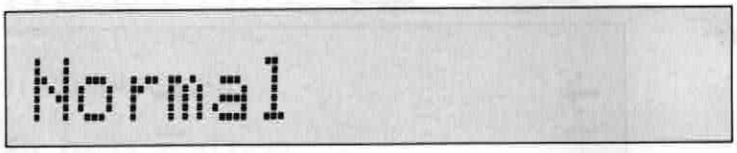
## 5.5 CURRENT PRINT STYLE

**KEY OPERATION:** CMD + P

**DISPLAY:**
**(Example)**




Displays the current print style setting. The following display appears when no special printing effect (Wide: Double width, Bold: Bold, or Under: Underline) is specified:




The current print style display can be cleared by pressing any key.

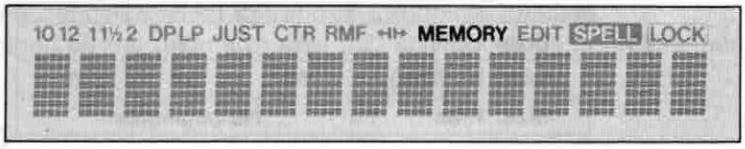
# 6 MEMORY MODE

The MEMORY mode makes it possible to store up to 2 pages of text (double spaced, 29 lines per page). Text entered into memory is retained until erased by the initialization procedure (see 2.7). Besides the text itself, margin settings, tab setting, print mode specification, and print style specifications are also stored. In addition to the functions outlined in this section, those found in **3 BASIC OPERATION**, **4 SPECIAL TYPING FUNCTIONS**, and **5 PRINT STYLES** are also valid.

The following procedure is used to enter the MEMORY mode:

**KEY OPERATION:** CMD + MEMORY ON/OFF (M R)

**DISPLAY:**

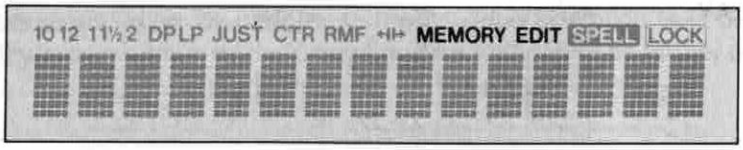



Entering the MEMORY mode when text is already present locates the cursor at the end of the currently stored text. Text can then be appended, or currently stored text can be viewed using the cursor keys (see 3.4 and 6.1). Pressing CMD + ⊣⊢ again exits the memory mode.

## 6.1 EDIT MODE

**KEY OPERATION:** SHIFT + ↑← (MEMORY mode only)

**DISPLAY:**



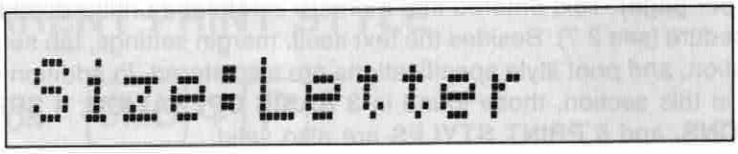

The EDIT mode is automatically entered whenever the ↑ cursor key is pressed, or the page top operation (see 6.4) is performed while in the MEMORY mode. In the EDIT mode, stored text can be added, deleted, and corrected. Besides the text itself, margin settings, tab setting, print mode specification, and print style specifications can also

be added, deleted, and corrected. Note that certain functions described in **4 SPECIAL TYPING FUNCTIONS** cannot be performed while in the EDIT mode. The EDIT mode is canceled by moving the cursor back to the end of the currently stored text, by exiting the MEMORY mode, by performing the quit operation (see 4.5) or by switching unit power OFF.

## 6.2 PAGE SIZE

**KEY OPERATION:** CMD + J

**DISPLAY:**




Sets the memory page size. Once this mode is entered, each press of any key (except ↵ key) changes the setting and display in the sequence:

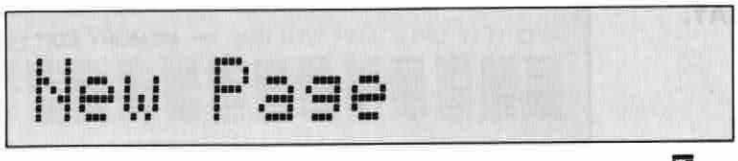
| DISPLAY | LINES/PAGE | | |
|---|---|---|---|
| | 1 | 1½ | 2 |
| Size: Letter | 54 | 36 | 27 |
| Size: A4 (DIN) | 58 | 39 | 29 |
| Size: Free | No pagination | | |

Press ↵ key to specify the currently display page size and exit page size setting. The operation CMD + J or CMD + Q is used to exit page size setting and sets the currently displayed size. The specified LINES/PAGE above are based upon single-spaced pages; with 6-line top and bottom margins.

## 6.3 PAGE END MARK

**KEY OPERATION:** CMD + N

**DISPLAY:**




Inserts a forced page break at the current cursor location and enters a ▯ mark in memory. Then when printing is performed (see 6.9), the message "Change Paper" appears on the display to prompt a change of paper for the next page. Printing can then be resumed by pressing the ↵ key.

## 6.4 PAGE TOP

**KEY OPERATION:** CMD + E

Automatically moves the cursor to the top of the page and shows the first 15 characters of the page on the display. Each subsequent press of CMD + E changes the cursor position and display to the preceding page, and a beep sounds when there are no more pages preceding the current page. Pages are determined by the page size (see 6.2) and forced page breaks (see 6.3). The EDIT mode (see 6.1) is automatically entered when this operation is performed while in the MEMORY mode.

## 6.5 NEXT PAGE TOP

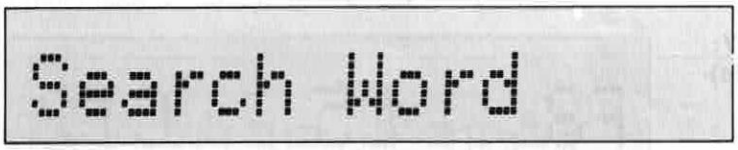
**KEY OPERATION:** CMD + X

Automatically moves the cursor to the top of the following page and shows the first 15 characters of the page on the display. Each subsequent press of CMD + X changes the cursor position and display to the next page, and a beep sounds with display of the message "Text End" when the end of the text is reached. The EDIT mode (see 6.1) is automatically canceled when the end of the text is reached.
Pages are determined by the page size (see 6.2) and forced page breaks (see 6.3).

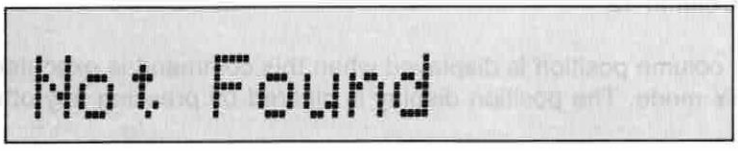
## 6.6 FIND

**KEY OPERATION:** CMD + K

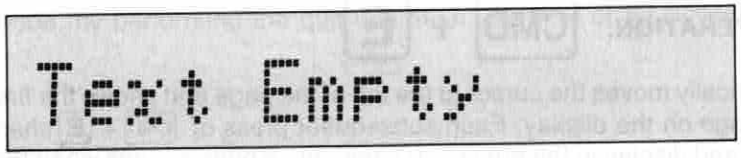
**DISPLAY:**




Used to locate a specific word or phrase within memory. The text to be located is entered in response to the prompt illustrated above, and then the ↵ key is pressed to begin the search. The first occurrence of the entered text is displayed, and subsequent occurrences can be searched for by performing the continue operation (see 6.7).
The following display appears when the entered text is not found, or if no further occurrences exist:



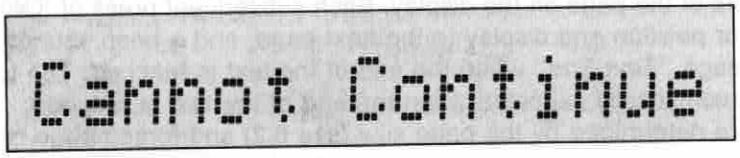
The following display appears when this command is entered and there is no text inside of memory:




## 6.7 CONTINUE

**KEY OPERATION:** CMD + M

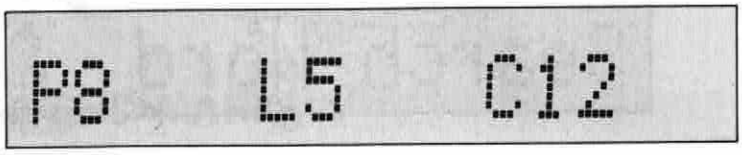
Used to continue search for a text specified using the find operation (see 6.6). The message "Not Found" is displayed if no subsequent occurrences of the entered text are found. Performing the continue operation without first performing the FIND operation causes the following message to be displayed:




## 6.8 POSITION

**KEY OPERATION:** CMD + O

**DISPLAY:**
**(Example)**




Displays the current cursor position. In the sample display illustrated above, each indicator has the following meaning:

P8 — Page 8
L5 — Line 5
C12 — Column 12

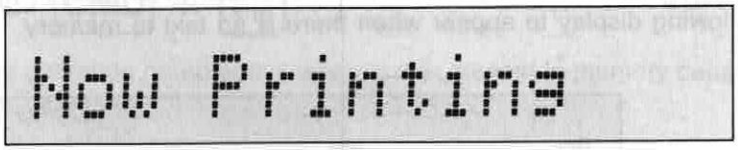
Only the column position is displayed when this command is executed outside of the MEMORY mode. The position display is cleared by pressing any other key.

## 6.9 PRINT

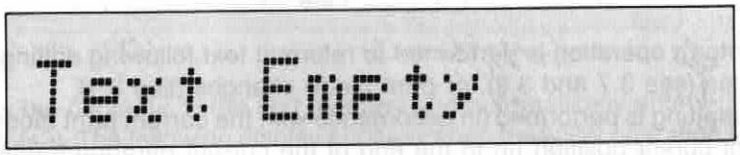
**KEY OPERATION:** [CMD] + [PRINT REFORM NEW ! 1 ¶]

Performing the key operation noted above when text is present in memory causes the following display to appear:

Pressing [P] at this time begins printout of memory contents.




The [CMD] + [1] operation causes the following display to appear when there is not text in memory:




Printing is suspended and the following display appears whenever a page end mark is detected in memory (see 6.2 and 6.3):

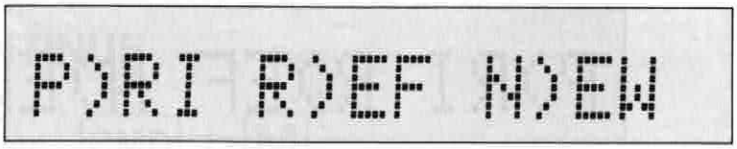
Printing can be resumed by pressing the [↵] key. The printing operation can be canceled at any time by performing the QUIT operation (see 4.5).

## 6.10 REFORM

**KEY OPERATION:** [CMD] + [PRINT REFORM NEW ! 1 ¶] (EDIT mode only)

Performing the key operation noted above when text is present in memory causes the following display to appear:

```
P>RI R>EF N>EW
```



Pressing [R] at this time begins the reform operation. The [CMD] + [1] operation causes the following display to appear when there is no text in memory:

```
Text Empty
```

The reform operation is performed to reformat text following editing (see 6.1), margin changes (see 3.7 and 3.8), or print mode changes (see 3.1).
Reformatting is performed (in accordance with the current print mode setting) from the current cursor position up to the end of the current paragraph (carrier return mark).
* The REFORM operation may be impossible in certain cases where lines in the file are outside of the preset margins.

**INPUT**

```
Thank you for your choice of the
brand-new CASIOWRITER! It is more
than just an electronic typewriter,
the new, improved CASIOWRITER offers
a host of functions designed to make
typing faster and easier.
```

**EDIT**

```
Congratulations on your selection of a CASIOWRITER! More
than just an electronic typewriter,
the CASIOWRITER offers
a host of features and functions designed to make
typing quicker and easier.
```

Press [CMD] + [1][R] then press [CMD] + [1][P].

**RESULT**

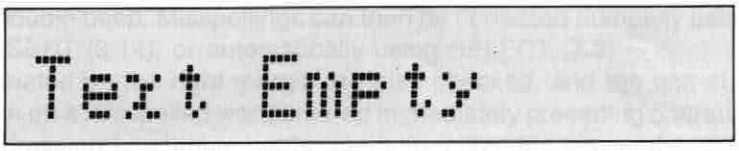
```
Congratulations on your selection of
a CASIOWRITER! More than just an
electronic typewriter, the
CASIOWRITER offers a host of
features and functions designed to
make typing quicker and easier.
```

## 6.11 NEW

**KEY OPERATION:** [CMD] + [PRINT REFORM NEW / ! 1 ¶]

Performing the key operation noted above when text is present in memory causes the following display to appear:

Pressing [N] clears the contents of the text memory and automatically enters the normal print style (see 5.3). The following display appears when the NEW operation is used to clear memory, or when there is no text in memory prior to [CMD] + [1]:




## 6.12 ONE LINE PRINT

**KEY OPERATION:** [CMD] + [L]

**MODE:** EDIT

Used in the EDIT mode (only) to print out single lines of text. The cursor should be located within the line to be printed before this command is entered. The text in the line following the one printed is displayed when printing is complete. The "Text End" message flashes on the display when the line printed is the final line in the file.

## 6.13 MEMORY CHECK

**KEY OPERATION:** CMD + I

**DISPLAY:**
**(Example)**

Used to determine the number of character spaces remaining in text memory. The display illustrated above is cleared by pressing any key. The following display appears when the memory becomes full while inputting text, even if the memory check operation is not performed:

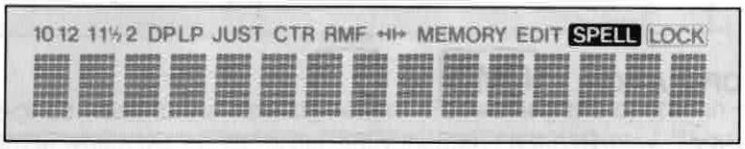
# 7 SPELL CHECK FUNCTION

The spell checking function of the CW-16 makes it possible to perform interactive spell checking while text is being entered, or general spell checking on a document in memory. Besides a 50,000-word built-in dictionary, words can be added to or deleted from a user dictionary to build a customized spell checker.

## 7.1 SPELL ON/OFF

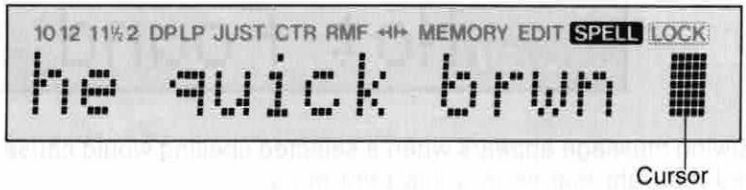
**KEY OPERATION:** CMD + ON/OFF (@ 2 / 2 §)

**DISPLAY:**




Switches the interactive spell checking function ON and OFF. When ON, all misspelled words or words not included in the dictionary are detected as they are entered and signaled with a double beep. Misspellings can then be corrected manually using DELETE (3.13) and INSERT (3.14), or automatically using SELECT (7.3)
Words hyphenated on the right margin are also checked, and the unit automatically waits for action on a misspelled word entered immediately preceding operation of [↵]. In this case, pressing [↵] again performs the function and leaves the word as it was entered. The interactive spell check function cannot be switched ON and is not operational during DECIMAL TAB operation (4.1), during entry of command parameters, or during operation of the spell check LIST (7.6) and SELECT (7.3) functions.
Words preceding TAB or DEC TAB operations are checked before the tab operation is performed. Should the word be detected as a misspelling, the tab operations must be performed again after correction. Pressing the [TAB] or [DEC TAB] key again performs the respective tab operation and leaves the word as it was entered.

**EXAMPLE:**




Double beep sounds to indicate misspelling of "brown".

## 7.2 CHECK

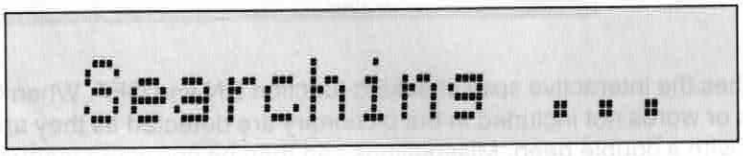
**KEY OPERATION:** CMD + CHECK (# 3 / 3 ß)

Checks the spelling of text stored in memory or single lines of text entered using LINE PRINT or LINE PRINT JUSTIFIED (see 3.1). In each case, the spell check is performed from the current cursor position to the end of the text. When a misspelled word or a word not in the dictionary is located, the display shows the word with the cursor located at the beginning of the word. Misspellings can then be corrected manually using DELETE (3.13) and INSERT (3.14), or automatically using SELECT (7.3). Pressing CMD + 3 again while a word is displayed continues the spell check from that point.
In the LINE PRINT mode, the cursor is located at the next input position when no misspellings are found. In the MEMORY mode, the cursor is located at the next input position at the end of the file.
The check function is not operational in the DIRECT PRINT mode (3.1) during DECIMAL TAB operation (4.1), during entry of command parameters, or during operation of the spell check LIST (7.6) and SELECT (7.3) functions.

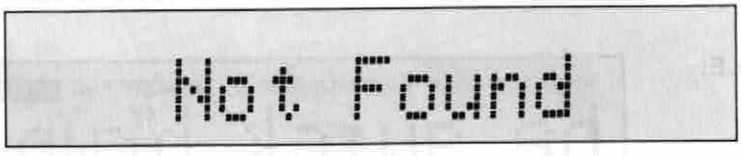
## 7.3 SELECT

**KEY OPERATION:** CMD + SELECT ($ 4)

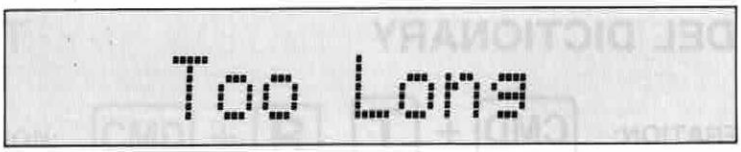
**DISPLAY:**




Displays suggested spellings for misspelled words detected by the SPELL (7.1) and CHECK (7.2) functions, or for words in which the cursor has been located using the CURSOR KEYS (3.4). Once the first suggestion is displayed, the next suggestion can be viewed using the spacebar or SHIFT + →. Previous suggestions can be reviewed using SHIFT + ←. Pressing ↵ selects the currently displayed suggestion and automatically replaces the misspelled word with the suggested spelling. This function can be terminated at any time by pressing any character key. If none of the suggested spellings is desired, changes can also be made manually using DELETE (3.13) and INSERT (3.14). The following display appears when a suggested spelling cannot be found in the dictionary for the misspelled word:




The following message appears when a selected spelling would cause the current line to exceed the right margin in a line print mode:

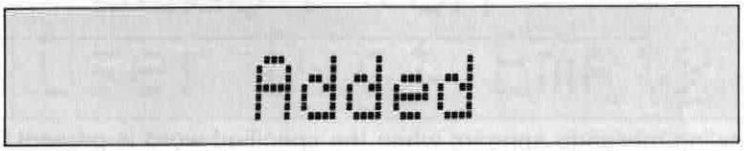



At this time, the display returns to the original misspelled word.
The select function is not operational in the DIRECT PRINT mode (3.1), DECIMAL TAB (4.1) operations, entry of command parameters, or during operation of the spell check LIST (7.6) function (except during CENTERING (4.3) and RIGHT MARGIN FLUSH operations (4.4)).

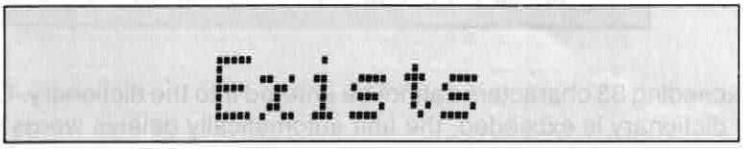
## 7.4 ADD DICTIONARY

**KEY OPERATION:** CMD + ADD %5£

**DISPLAY:**




Adds any user-specified word to the user dictionary. Performing the operation noted above adds the word in which the cursor is currently located on the display. The following message appears when the specified word is already present in the user dictionary:

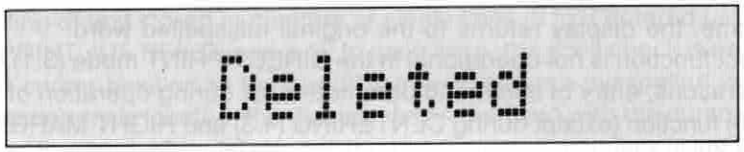



Words exceeding 33 characters cannot be entered into the dictionary. Once the capacity of the dictionary is exceeded, the unit automatically deletes the most infrequently used words from the user dictionary to provide room for new additions.
This command can be used in any mode, but is not operational during operation of the LIST command (7.6) or DECIMAL TAB (4.1) or during command parameter input.

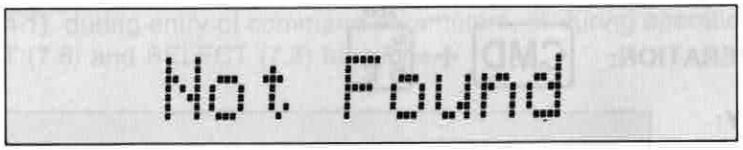
## 7.5 DEL DICTIONARY

**KEY OPERATION:** CMD + T

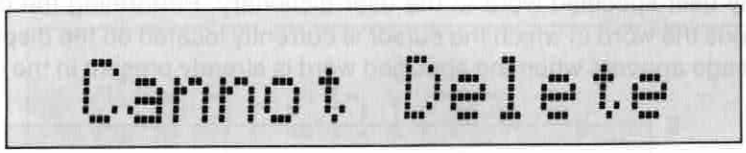
**DISPLAY:**




Deletes any user specified word from the user dictionary. Performing the operation noted above deletes the word in which the cursor is currently located on the display. The following message appears when the specified word is not present in the user dictionary:




The following message appears when the specified word is present in the main dictionary:

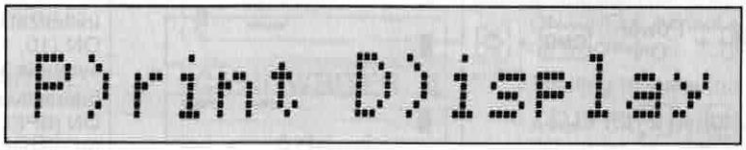



Words exceeding 33 characters cannot be entered into the dictionary. Once the capacity of the dictionary is exceeded, the unit automatically deletes words which are used most infrequently to provide room for new additions.
This command is not operational during operation of DECIMAL TAB (4.1) or during command parameter input.

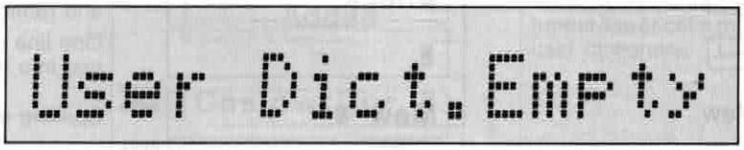
## 7.6 LIST

**KEY OPERATION:** CMD + R

**DISPLAY:**




Lists all words contained in the user dictionary. Pressing P prints out the words one by one in alphabetical order and pressing D displays the words one by one, with the spacebar or SHIFT + → being used to scroll forward, and SHIFT + ← being used to scroll back. Any word currently displayed can be deleted from the user dictionary using CMD + T (7.5). This function can be terminated at any time by pressing any character key. The following message appears on the display when the list command is executed and the user dictionary is empty:




This function is not operational during CENTERING (4.3), right margin flush operations (4.4), during DECIMAL TAB (4.1) operations, or during entry of command parameters.

# 7.7 SPELL CHECK OPERATION SUMMARY

**EXAMPLE 1:**

| | KEY OPERATION | DISPLAY | | REMARKS |
|---|---|---|---|---|
| 1 | [M/R] + Power ON, [CMD] + [M/R] | MEMORY | | Initialization, Memory Mode ON (10, 1, LP MEMORY symbols appear on display). |
| 2 | [CMD] + [2] (SPELL) | MEMORY SPELL | | Interactive spell check mode ON (SPELL symbol appears on display). |
| 3 | Spell␣Chack␣ | Spell Chack | BEEP BEEP | Spelling mistake indicated. |
| 4 | [CMD] + [4] (SELECT) | Searching . . . | | Spelling mistake indicated. |
| | | Chalk | | First suggested spelling. |
| 5 | SPACEBAR | Check | | Second suggested spelling. |
| 6 | [↵] | Check | | Selects suggested spelling and returns to input mode. |
| 7 | [↵] | | | One line prints, and enters text into memory. |
| 8 | Mew␣ | Mew | BEEP BEEP | Spelling mistake indicated. |
| 9 | Casio␣ | Mew Casio | BEEP BEEP | Spelling mistake indicated. |
| 10 | [CMD] + [5] (ADD) | Added | | Adds "Casio" to user dictionary and returns to original display. |
| | | Mew Casio | | |
| 11 | [↵] | | | One line prints, and text entered into memory. |
| 12 | [CMD] + [E] | Spell Check ↲ | | Moves to top of page in memory. |
| 13 | [CMD] + [3] (CHECK) | Mew Casio ↲ | BEEP BEEP | Activates check of text in memory. Stops at beginning of first misspelled word found. |
| 14 | [CMD] + [4] (SELECT) | Searching . . . | | Searching for correct spelling. |
| 15 | | Dew | | First suggested spelling. |
| | | Press SPACEBAR until desired word is displayed. | | |
| | | New | | Selects suggested spelling and searches for next misspelling. Returns to input position if none found. "Casio" added to user dictionary above, so it is not detected as misspelling. |
| 16 | [↵] | Mew Casio ↲ | | |
| 17 | [CMD] + [3] (CHECK) | | | |

* Numbers and symbols are disregarded by the spell check.

**EXAMPLE 2:**

| | KEY OPERATION | DISPLAY | | REMARKS |
|---|---|---|---|---|
| 1 | [IM/IR] + Power ON, [CMD] + [IM/IR] | ▮ | | Initialization, Memory Mode ON (10, 1, LP MEMORY symbols appear on display). |
| 2 | [CMD] + [2] (SPELL) | ▮ | | Interactive spell check mode ON (SPELL symbol appears on display). |
| 3 | "CASIOWRITER␣" | CASIOWRITER ▮ | BEEP BEEP | Spelling mistake indicated. |
| 4 | [CMD] + [5] (ADD) | Added<br>↓<br>CASIOWRITER ▮ | | Adds "CASIOWRITER" (all upper case) to user dictionary. |
| 5 | [↵] | ▮ | | One line prints, and text entered into memory. |
| 6 | "Casiowriter␣" | Casiowriter ▮ | BEEP BEEP | Spelling mistake indicated (because lower case characters are included). |
| 7 | [CMD] + [5] (ADD) | Added<br>↓<br>Casiowriter ▮ | | Adds "Casiowriter" (upper/lower case mixed) to user dictionary. |
| 7' | [↵] | ▮ | | One line prints, and text entered into memory. |
| 8 | [CMD] + [R] | P)rint D)isplay | | Recalls user dictionary contents. |
| 9 | [D] | CASIOWRITER | | First word in user dictionary displayed. |
| 10 | SPACEBAR | Casiowriter | | Next word |
| 11 | SPACEBAR | CASIOWRITER | | Returns to previous word. |
| 12 | [CMD] + [T] | Deleted<br>▮ | | Deletes "CASIOWRITER". |
| 13 | "CASIOWRITER␣" | CASIOWRITER ▮ | | "Casiowriter" stored in dictionary, so "CASIOWRITER" judged as correct (see note below). |

* Upper case letters entered in the user dictionary judge upper case letters only as being correct, while lower case letters in the user dictionary judge corresponding upper case and lower case letters as being correct.

# APPENDICES

## 1 TROUBLESHOOTING

| Problem | Solution |
|---|---|
| Nothing happens when power switch is turned on | • Make sure batteries are fresh and correctly in place.<br>• Be sure the AC adaptor is properly connected; plug it into a different outlet to be sure both adaptor and outlet are working. |
| Print too light or too dark | • Adjust print density.<br>• Try a different type of paper. |
| No print when typing on thermal paper | • Try typing on other, shiny side of paper. |
| Print density, character width or margins uneven<br>Printhead slows down in action<br>Display fades | • Replace batteries. |
| Typewriter does not print, though carriage seems to move properly and display looks as it should | • Replace ribbon cassette. |
| Printhead stuck against platen | • Reposition printhead by turning the switch On, then Off again. |
| Typewriter beeps, then is unresponsive to further entries | • Turn power switch off, then on again.<br>• Hold down margin release while turning power back on. |
| Ribbon tangles while typing | • Be sure typewriter hood is down and paper leans back, tight against the platen.<br>• Wind cassette take-up spool in direction of arrow (counter-clockwise). |
| Display reads: RAM Dead | • Press [↵] key. |
| Cannot change print mode | • Press [↵] or [⌫] key to return to beginning of line. |

# 2 INITIALIZATION TABLE

This table shows the initial settings after system reset and after power is switched ON. System reset is performed by switching power on while holding down the [+|+] key.

| | SETTING | SYSTEM RESET | POWER ON |
|---|---|---|---|
| 1 | Shift lock | OFF | OFF |
| 2 | Right margin | Column 72 | (Retain) |
| 3 | Left margin | Column 8 | (Retain) |
| 4 | Tab settings | Clear | (Retain) |
| 5 | Print mode | LP | (Retain) |
| 6 | Line space | 1 | (Retain) |
| 7 | Pitch | 10 (Pica) | (Retain) |
| 8 | MEMORY | Clear | (Retain) |
| 9 | Print style | Normal | * (Retain) |
| 10 | Margin release | OFF | OFF |
| 11 | PRINT DENSITY | 4 | (Retain) |
| 12 | Memory Mode | OFF | (Retain) |
| 13 | EDIT MODE | OFF | OFF |
| 14 | PAGE SIZE | Letter | (Retain) |
| 15 | CTR, RMF | OFF | OFF |
| 16 | Cursor position in memory | TOP (all text cleared) | BOTTOM |
| 17 | LCD | Clear | Clear |
| 18 | Text in text memory | Clear | (Retain) |
| 19 | SPELL CHECK mode | Clear | (Retain) |
| 20 | User dictionary | Clear | (Retain) |

* In the MEMORY mode, Bold and Underlined print styles are retained.

# 3 MESSAGE TABLE

| MESSAGE | MEANING |
|---|---|
| RAM Dead: Reset | Displayed after complete power cut. Perform memory set to initialize unit. |
| Printer Error | Printer abnormality |
| Text Empty | Nothing present in Text memory |
| Text Area Full | Text memory full |
| Text End | Indicates end of text memory contents. |
| Cannot Set Tab | Attempt to set more than 16 tabs |
| Search Word | Prompt for input of object word for FIND command |
| Not Found | Object word, or phrase for FIND command not found. |
| Cannot Continue | CONT command used without first using FIND command. |
| Remain —C | Tatal number of character spaces remaining in text memory |
| Line Too Long | Overflow of internal buffer during centering or RMF operations |
| P)RI R)EF N)EW) | Print/Reform/New menu for [CMD] + [1] command |
| Now Printing | Printing operation in progress |
| Change Paper | End of page in memory |
| Change Ribbon | Carrier brought to change ribbon position by [CMD] + [C.RIBBON]. |
| Bold Wide Under | Print style status |
| Normal | Print style status |
| P123 L123 C123 | Current Page/Line/Column position of cursor |
| Size: Letter | Page size |
| Size: A4 (DIN) | Page size |
| Size: Free | Page size |
| New Page | No automatic pagination performed. |
| Tab All Clr : Y/N | Press [Y] to clear all preset tabs. |
| 1)2)3)4)5) P) | Print density adjustment menu from 1 (lightest) to 5 (darkest). Press [P] to print samples of each density setting. |

## SPELL CHECK FUNCTION MESSAGES

| MESSAGE | MEANING |
|---|---|
| Added | Specified word added to user dictionary |
| Exists | Specified word already exists in user dictionary |
| Deleted | Specified word deleted from user dictionary |
| Not Found | Spelling of specified word not found in dictionary |
| Cannot Delete | Word specified for deletion in main dictionary |
| Searching ... | Searching for suggested spelling |
| P)rint D)isplay | List format. Pressing [P] prints contents of user dictionary. Pressing [D] displays user dictionary. |
| Now Printing | Printing the user dictionary |
| User Dict. Empty | No words in user dictionary to be listed. |
| Too Long | Selected spelling in spell check function would cause current line to exceed right margin in line print mode. |

# 4 COMMAND SUMMARY

| KEY | FUNCTION | EXPLANATION |
|---|---|---|
| LEFT MARGIN | | Set left margin |
| RIGHT MARGIN | | Set right margin |
| TAB SET CLR | | Set/Clear tabs |
| Power ON + CODE | Auto test | Print demonstration print |
| CMD + | * Combination with CMD key, following commands are executed. | Command |
| TAB SET CLR | Tab all clear | Clear all tabs |
| DEC TAB | DEC-TAB | Align columns of numbers along a decimal place |
| RETURN | (Express Return) | Return printhead to left margin |
| C.RIBBON RELOC | RIBBON Change | Move printhead to change ribbon |
| IM IR | MEMORY ON/OFF | Memory mode on/off |
| 1 | PRINT REFORM NEW | P : Print contents of text memory<br>R : Reform a block of text memory<br>N : Clear text memory |
| 2 | SPELL ON/OFF | Spell mode on/off |
| 3 | CHECK | Check text and printing line and stop at a misspelled word |
| 4 | SELECT | Correction candidates are given<br>One of them can be selected |
| 5 | ADD dictionary | Add to user dictionary |
| 6 | Normal print/cancel | Reset print style to normal |
| 7 | (Bold print) | Set bold print |
| 8 | (Double width print) | Set double width print |
| 9 | (Underlined print) | Set underlined print |
| 0 | CTR/RMF | Set centering/right margin flush |
| - | PITCH 10 12 | Set pica or elite pitch |
| = | LINE space 1 $1^1/_2$ 2 | Set line spacing |
| } | PRINT MODE (DP, LP, LPJUST) | Set print mode |

| KEY | FUNCTION | EXPLANATION |
|---|---|---|
| ⌫ | PRINT DENSITY | 1 ~ 5 : Set print density<br>P : Print sample |
| D | (Line end) | Cursor to line end |
| E | (Page top) | Cursor to page top |
| I | (Memory check) | Remaining area in text memory |
| J | (Page size : Letter, A4, Free) | Set page size |
| K | (Find) | Search for character string |
| L | (One line Print) | Print one line of text |
| M | (Continue) | Continuation of Find command |
| N | (Page end mark) | Set page end mark |
| O | (Position) | Present cursor position (page, line, column) |
| P | (Current print style) | Present printing styles (Bold, Wide, Under) |
| Q | (Quit) | Terminate a command |
| R | (List) | P : Print list of user dictionary<br>D : Display list of user dictionary |
| S | (Line top) | Cursor to beginning of line |
| T | (Del. Dictionary) | Delete from user dictionary |
| X | (Next page top) | Cursor to next page top |

**Note:** SHIFT + ↑ : Cursor up

SHIFT + ↓ : Cursor down

# 5 OPERATIONAL PRECAUTIONS

## 5.1 GENERAL

- Turning power OFF while in other than the key input wait mode can alter memory contents. Only turn power OFF when in the key input wait mode.
- Since this unit is manufactured of precision electronic components, there is little chance of malfunction during normal use. Dropping the unit or otherwise subjecting it to sudden impact however, can alter memory contents and should be avoided.
- The manufacturer will in no way be held responsible for losses or alteration of memory contents due to sudden impact or static electricity.
- Warning beeps sound to inform you of the following conditions etc.:

* Hot zone entered.
* Right margin reached when margins are not released.
* Left margin reached using backspace or left cursor key when margins are not released.
* TAB key pressed without tabs having been set.
* Right cursor key used with no text to the right of cursor.
* Print mode, pitch, centering, right margin flush setting, print density or memory on/off attempted at a position other than the beginning of a line.

- Use only specified adaptor (AD-4845).
- If an adaptor is unplugged from the unit during operation, the protection circuit may activate resulting in auto power OFF.

## 5.2 POWER

- If batteries excessively weaken, memory can be altered and the auto power OFF function may activate. Replace batteries as soon as possible or an adaptor should be used.

## 5.3 PRINTER

- In order to protect the unit from damage, a printer error will be displayed, a buzzer will sound for 10 seconds, and the auto power OFF function will actuate when the printhead is touched or if foreign matter enters between the printhead and paper. Use the [SHIFT] key or power switch to initialize the printer and resume normal operation.
- Store the ink ribbon cassette when not in use in an area free of high temperature, humidity and dust.

## 5.4 BATTERIES

- Power continues to be supplied to protect memories even when the power of the unit is switched OFF, as long as batteries are able to supply power.
  Always remove batteries from the unit when it is not used for extended periods to avoid damage caused by battery leakage.

## 5.5 ENVIRONMENT

### CONDENSATION

Bringing the unit into a warm room during the winter or otherwise subjecting it to sudden temperature increases can cause condensation to form on internal components, resulting in improper operation.
Either leave the unit for approximately one hour before use or increase temperature gradually.

## 5.6 OTHERS

### RAM DEAD MESSAGE

Certain misoperations can cause a "RAM DEAD: Reset" message to appear. To clear the message, press [↵] key.

**NOTE:** Memory contents are erased by this procedure.

### RIBBON CASSETTE

Inserting the ribbon in front of the printhead without taking up slack by winding the ribbon forward can result in misoperation and rupture of the ribbon.

### PRINTING WITHOUT PAPER

Printing without first inserting paper into the unit can cause damage to the printhead.

# SPECIFICATIONS

**Keyboard:** 55 keys plus 8 function keys
**Display:** 15-character LCD
**Print method:** Thermal dot matrix, 16 × 24
**Paper capacity:** Width: 220mm
Thickness: 0.05mm ~ 0.12mm max.
**Pitch:** 10 (Pica), 12 (Elite) chars./inch
**Spell check function:** 50,000-word dictionary
130-word user dictionary
**Print capacity:** Pica: 80 chars./line
Elite: 96 chars./line
**Ribbon:** One-time heat transfer cassette
Capacity: 42,000 characters
Color: Black (supplied), red, blue
**Paper:** Plain or thermal
**Power source:** AC adaptor, or four D-SIZE batteries
**Text memory:** 3,734 characters
**Line space:** 1, 1 1/2, 2
**Characters:** Universal Latin alphabet
**Power consumption:** 7.6W
**Dimensions:** 2 3/16"H × 13 1/2"W × 12 7/8"D (55H × 344W × 328D (mm))
**Weight:** 5.5lbs. (2.5kg), including batteries

## ACCESSORIES/OPTIONS

| Item | Description |
|---|---|
| IR-20B | Package of three black ribbons |
| IR-20C | Package of three ribbons (Black, Blue, Red) |
| AD-4845 | AC adaptor |
| TSP-100L | Letter-size thermal paper |

**** Specifications and design are subject to change without notice.***

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TAB CLEAR 20
TAB SET 19

**U**

UNDERLINED PRINT 27

**Q**

QUIT 24

**GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).**

**WARNING:** 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 turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ....reorient 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 US Government Printing Office, Washington D.C., 20402, Stock No.004-000-00345-4.

## LIMITED WARRANTY, PERSONAL ELECTRONIC TYPEWRITERS

This product, except the battery, is warranted by Casio Inc. to the original purchaser to be free from defects in material and workmanship under normal use for a period of six months from the date of purchase. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model) at our option, without charge for either parts or labor at a Casio Authorized Service Center. The purchaser shall bear all shipping, packing, and insurance costs to the Casio Authorized Service Center. The warranty will not apply to this product if the product has been misused, abused or altered. Without limiting the foregoing, leakage of battery, bending or dropping of unit, broken display tube, or visible cracking of the LCD display are presumed to be defects resulting from misuse or abuse. NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY, SHALL EXTEND BEYOND THE WARRANTY PERIOD. NO RESPONSIBILITY IS ASSUMED FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITING THE SAME, TO MATHEMATICAL ACCURACY OF THE PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THAT THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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Customer Relations
Casio, Inc.
15 Gardner Road
Fairfield, NJ 07006

## Order Form for Optional Accessories

If form is missing or used, write to:

CASIOWRITER Accessories
CASIO, INC
15 Gardner Road
Fairfield, NJ 07006

| Model | Description | Price | Qty. | Total |
|---|---|---|---|---|
| AD-4845 | AC Adaptor | $18.95 | | |
| TSP-100 | Thermal Paper (100 sheets) | $ 9.95 | | |
| IR-20B | 3 PAK Black Ribbons | $12.95 | | |
| IR-20C | Black-Blue-Red Ribbons | $12.95 | | |
| | | | | |
| ADD Sales Tax: NJ (6%), IL (6.25%), CA (6.5%), NY (Applicable Tax) | | | | |
| Postage and Handling | | | | $ 3.50 |
| OUTSIDE Continental U.S. ADD $2.50 | | | | |
| | | | | |
| | | | TOTAL | |

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CASIOWRITER Accessories, CASIO, Inc., 15 Gardner Road, Fairfield, NJ 07006
Allow 4 ~ 6 weeks for delivery

Your Name: _____

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15 Gardner Road
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Paper release lever
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