

# INSTRUCTION MANUAL

INSTRUCTIONAL

MANUAL

Thank you for purchasing this unit. This unit, which is electronic and silent when operating, contains the following features.

- (1) 24-dot thermal matrix printing for clear, easy-to-read characters.
- (2) Comprehensive Editing functions which enable use as a compact word processor.
- (3) RS-232C type interface which enables data transmission and reception.

In order to understand the above features and the correct operating procedures, please read this manual carefully through to the end. After reading, please keep safe along with the warranty card.

#### NOTE

"This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacture'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.

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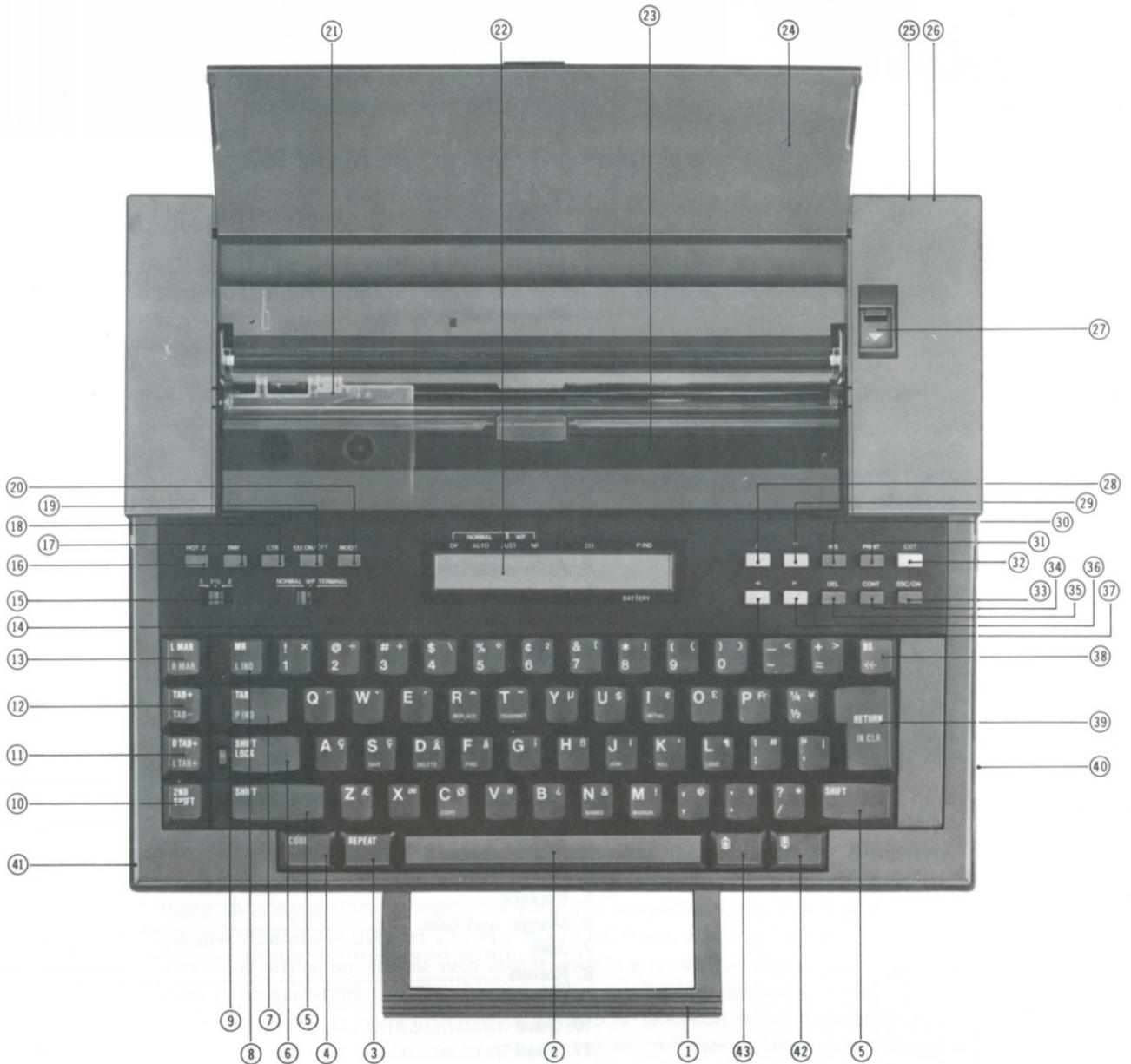
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(wp)



## 1. Parts Identification



- ① Carrying handle
- ② Space bar
- ③ Repeat key
- ④ Code key
- ⑤ Shift key
- ⑥ Shift lock key
- ⑦ Tabulator key (paragraph indent key)
- ⑧ Margin release key (line indent key)
- ⑨ Shift lamp
- ⑩ Second shift key
- ⑪ Decimal tab set key (line tab set key)
- ⑫ Tab set key (tab clear key)
- ⑬ Right margin set key (left margin set key)
- ⑭ Mode selector

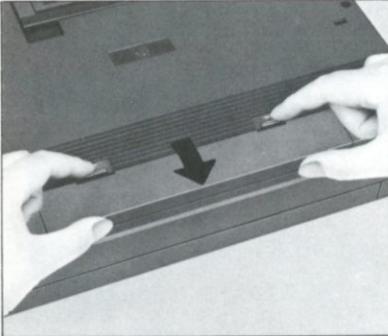
- ⑮ Line space selector
- ⑯ Hot zone set key
- ⑰ Right margin flush key
- ⑱ Centering key
- ⑲ Automatic underline ON key (automatic underline OFF key)
- ⑳ Mode key
- ㉑ Cassette ribbon
- ㉒ Display
- ㉓ Cassette cover
- ㉔ Paper holder
- ㉕ AC adaptor jack (DC 6V)
- ㉖ ON/OFF switch
- ㉗ Paper release lever
- ㉘ Cursor up key (express cursor up key)
- ㉙ Cursor down key (express cursor down key)

- ㉚ Insert key
- ㉛ Print key
- ㉜ Exit key
- ㉝ Escape key
- ㉞ Continue key
- ㉟ Delete key
- ㊱ Cursor right key (express cursor right key)
- ㊲ Cursor left key (express cursor left key)
- ㊳ Backspace key (express backspace key)
- ㊴ Return key (indent clear key)
- ㊵ Interface connector
- ㊶ Display adjuster
- ㊷ Index key
- ㊸ Reverse index key

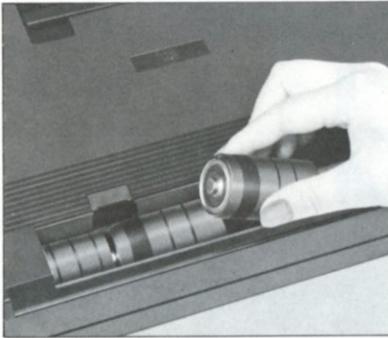
## 2. Preparation for Printing

### 2-1 Power Sources

#### (1) Battery Installation



- ① Press the two tabs and remove the battery compartment cover.



- ② Insert four size-D dry cell batteries [IEC designation R20 (manganese) or LR20 (alkaline manganese)].  
Make sure the batteries are inserted with the “+” and “-” ends aligned as indicated in the battery compartment.

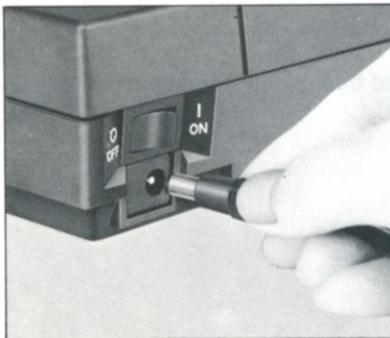
- ③ Replace the battery compartment cover.

Note 1: When the batteries become weak, the BATTERY indicator will flash on and off. When this happens immediately replace all four batteries with new ones.

Note 2: Turn the power switch off when the unit is not being used. If the unit is not to be used for an extended length of time, if memory back up is not necessary, or if the AC adaptor is to be used for an extended length of time, remove the batteries to prevent possible damage to the unit from battery leakage or corrosion. (Be aware that even commercially available batteries which are guaranteed may sometimes leak.)

#### (2) AC Power Adaptor

Connect the AC adaptor to the DC 6V jack on this unit, and then plug the adaptor cord into a wall outlet.



Note 1: Be sure to use the AC adaptor intended for this unit.

Note 2: The batteries will be automatically disconnected from the power supply circuit when the AC adaptor is connected.

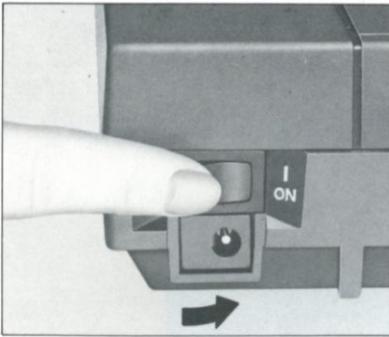
Note 3: If the unit is not used for extended periods of time, disconnect the AC adaptor from both the wall outlet and remove the jack plug from the unit.

## 2-2 ON/OFF Operation

### (1) ON/OFF Switch ON

Turn the ON/OFF switch ON. The carrier will return to the extreme left side and then automatically move to the left margin.

Note: Power saving function will automatically activate if not used for approximately 10 minutes. (Refer to p. 10)



### (2) Paper Insertion

① Open the paper holder.

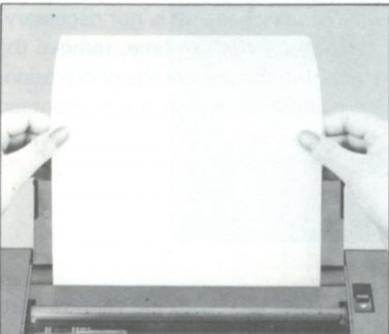


② Insert a sheet of paper in the gap in front of the paper holder.

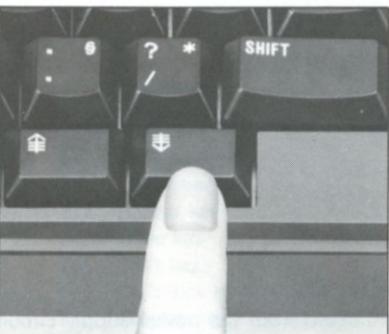
Note 1: SMOOTH FINISH PAPER is acceptable for use this unit. It is preferable to use our recommended plain paper enabling to get the best print quality.

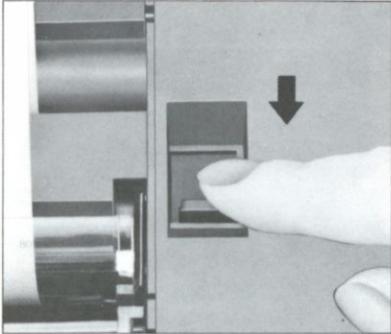
Note 2: If you use thermal paper, you can print without using the cassette ribbon.

Note 3: This printer cannot make carbon copies. Do not insert two or more sheets of paper.

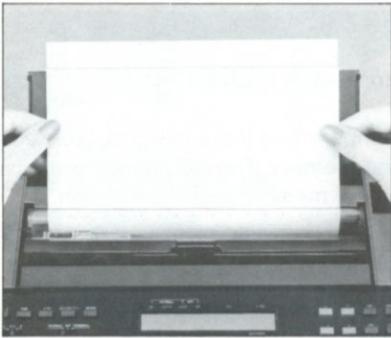


③ Press the index key (↓) until the paper is fed through and comes out of the front.

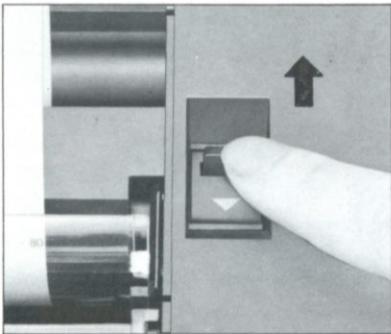




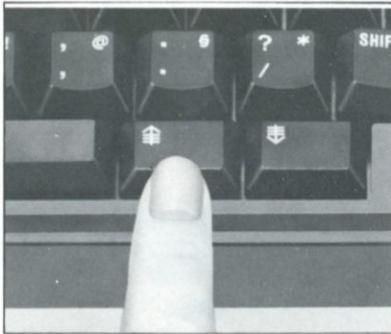
④ Pull the paper release lever forward.



⑤ Align the paper.

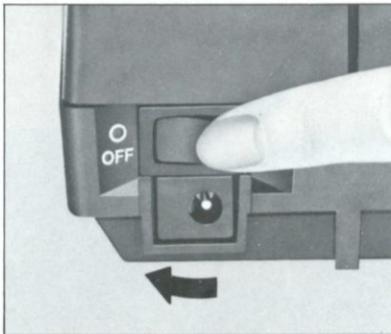


⑥ Return the paper release lever to its original position.



### (3) Paper Feed

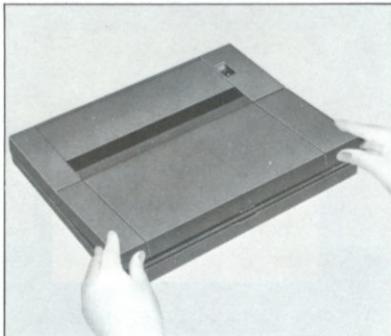
To reverse the paper, press the reverse index key (  ).



### (4) ON/OFF Switch OFF

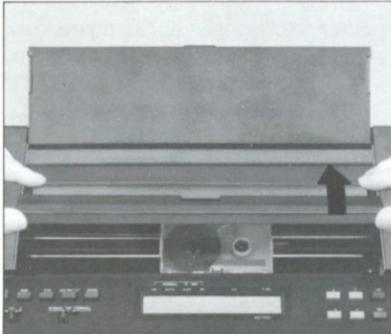
① Turn the ON/OFF switch OFF. If the AC adaptor is used, unplug it from both the wall outlet and adaptor jack on the unit.

Note: Be sure to keep batteries in the battery compartment if the margins, tabs, and memory contents are to be retained in the memory. The AC adaptor must be disconnected from the adaptor jack to use the memory back-up function.

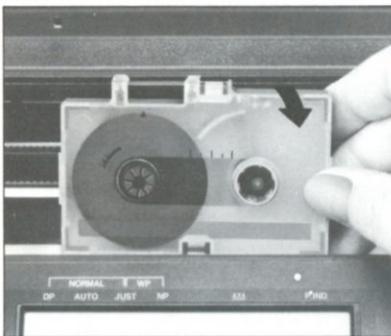


② Replace the lid.

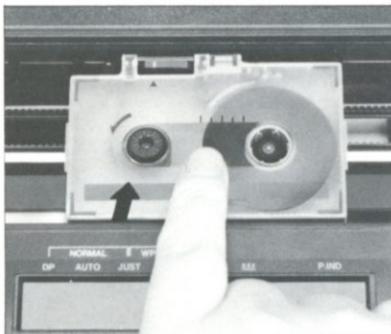
### 3. Cassette Ribbon Replacement



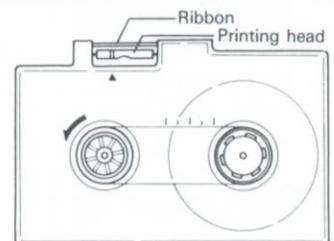
- ① After moving the carrier to the center, press slightly with your thumbs on the tab positions of the transparent cassette cover and lift up to open it.



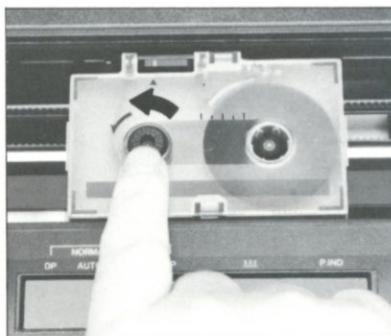
- ② Remove the used cassette ribbon.



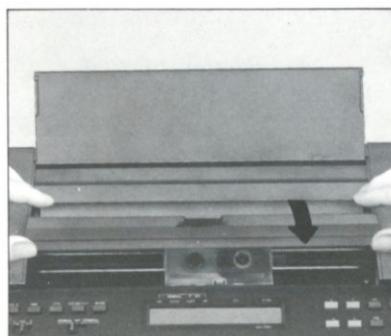
- ③ Place a new cassette ribbon on the carrier, and press down on the center of the cassette.



Note: Make sure the printing head is behind the ribbon.



- ④ Turn the cassette ribbon knob counterclockwise (in the direction of the arrow on the cassette) to take the slack out of the ribbon.



- ⑤ Close the cassette cover.

## 4. Connection with External Devices

This unit is equipped with a built-in RS-232C standard interface for connection to other devices similarly equipped with an RS-232C interface (such as personal computers, acoustic couplers, etc.) for interactive data communication.

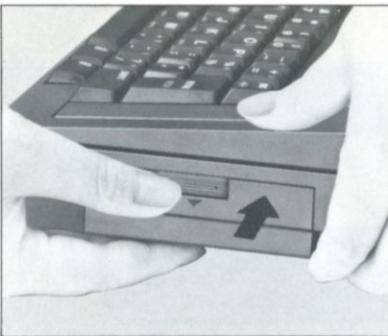
### •What is an RS-232C interface?

An RS-232C interface conforms to EIA (Electronic Industries Association) standards and is for connecting modems and data terminal devices. This interface also conforms to JIS (Japan Industrial Standards) standards.

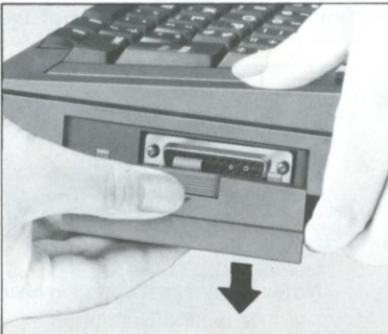
Note that these standards are to maintain electrical precision. It is necessary that communication procedures and the use of signal lines agree for the connection conditions at both ends.

### 4-1 Removal and Installation of the Connector Cover

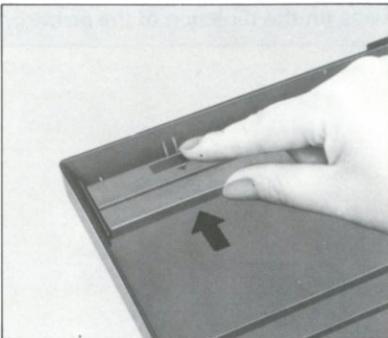
(1) Press the middle of the connector cover with your thumb.



(2) Push the cover down while maintaining gentle inward pressure with your thumb.



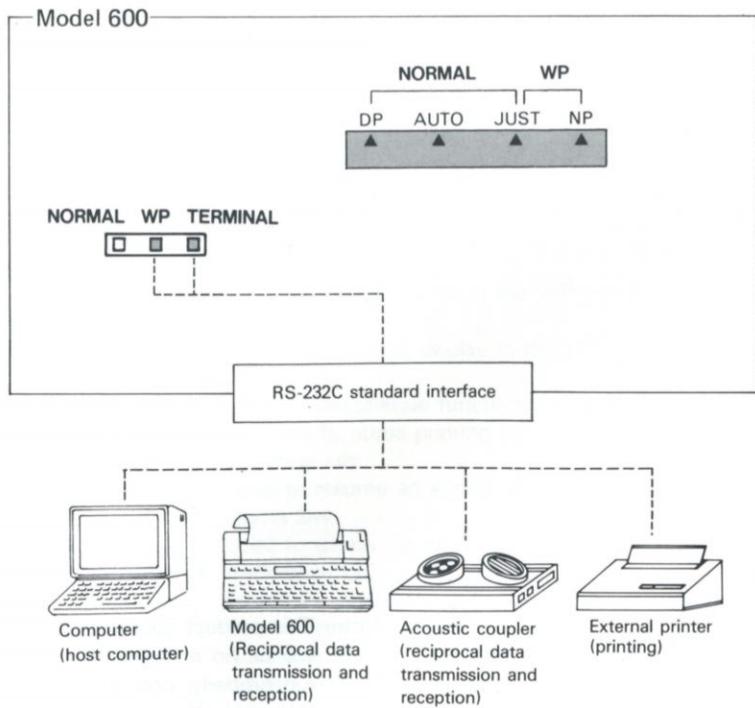
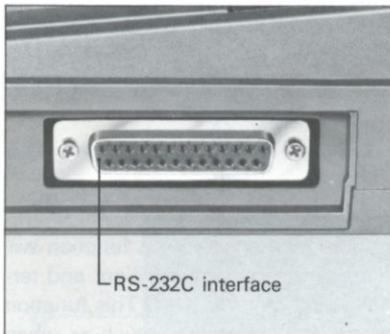
(3) Put the cover in the position provided in the lid.



## 4-2 Connection of Cable

Use an RS-232C standard interface cable.

Note: Consult the enclosed model 600 Connecting Applications Guide Book for complete interfacing instructions and cable information.



## 5. Special Functions

### 5-1 Alarm

When entering the last six spaces before the right margin (hot zone) (refer to p.20) and also at the right margin, an alarm will beep. The alarm will also beep when an invalid operation is performed. It signals cancellation and the operation must be redone correctly.

### 5-2 Memory Back-up Function

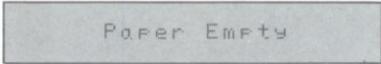
If the batteries are left in the battery compartment, the memory back-up function will retain any files in the memory, tab stop positions, margins, hot zone position, and terminal communication mode even after the ON/OFF switch is turned off. This function will also work for about 30 minutes, even if the batteries are removed, such as when replacing the batteries.

### 5-3 Automatic Power-off Function

With the ON/OFF switch turned ON and no key input is made for approximately ten minutes, the automatic power-off function will activate to save power. When this happens you can reactivate the machine by pressing the escape key (  ). Previous conditions will be restored.

### 5-4 Paper-Empty Detector

If the end of the paper is reached when printing, the paper-empty detector will signal with an alarm and the display shown below. When this display appears, insert a new sheet of paper and press the continue key (  ) to continue printing.



PAPER EMPTY

### 5-5 Reset Function

If the ON/OFF switch is turned ON while the mode key (  ) is depressed, the following are automatically set.

Left margin .....	0	Hot zone .....	74
Right margin .....	80	Tabs .....	cleared

All files in the memory will be cleared.

Note: This product contains precision electronic parts. Under normal conditions there will be no occasion to use this function. If for some reason this unit does not run properly, only then use the reset function.

# Chapter 2

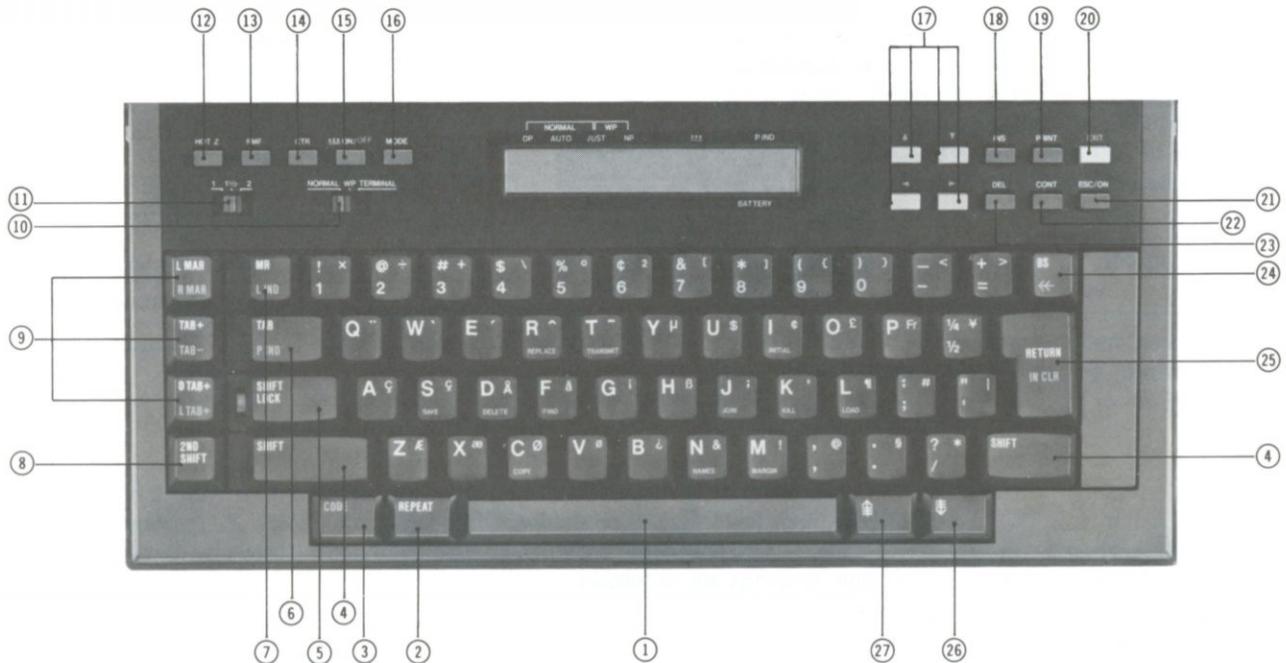
## How to Use Model 600

### Section 1

### In the normal mode

#### <1.> Fundamentals

##### 1. The keyboard



- ① Space bar  
Moves the carrier one space to the right.
- ② Repeat key  
Repeats the action or function of the previously pressed key.
- ③ Code key  
Pressed to use functions marked in green on the key tops.
- ④ Shift key  
Used to input capitals or the symbols on the upper left corner of the keys.
- ⑤ Shift lock key  
Used to lock the shift for continuous inputting of capitals or the symbols on the upper left corner of the keys.
- ⑥ Tabulator key  
Moves the carrier to the first tab stop to the right.
- ⑦ Margin release key  
Temporarily cancels the margin setting for printing beyond the margin.
- ⑧ Second shift key  
Used to input the characters or symbols in the upper right corner of the keys.
- ⑨ Tab/margin set keys  
Used to set margins and tab stops.
- ⑩ Mode selector  
Used to select the mode of operation.
- ⑪ Line space selector  
Used to select the desired space between lines.
- ⑫ Hot zone set key  
Used to set the hot zone.
- ⑬ Right margin flush key  
Used to print a line flush with the right margin.
- ⑭ Centering key  
Used to print a line centered between the margins.
- ⑮ Automatic underline key  
Automatically underlines characters.
- ⑯ Mode key  
Used to select the type of printing mode.
- ⑰ Cursor keys  
Used to move the cursor.
- ⑱ Insert key  
Used to insert characters.
- ⑲ Print key  
Used to print-out a file in the WP mode.
- ⑳ Exit key  
Return to the first display in the WP mode.
- ㉑ Escape key  
Used to discontinue functions in the WP mode.  
Temporarily stops printing-out.
- ㉒ Continue key  
Used to resume an action which was stopped temporarily.
- ㉓ Delete key  
Used to delete the character immediately above the cursor.
- ㉔ Backspace key  
Erases the character to the left of the cursor in the display.
- ㉕ Return key  
Advances the paper one line and returns the carrier to the left margin.
- ㉖ Index key  
Feeds paper forward.
- ㉗ Reverse index key  
Feeds the paper in reverse.

## 2. Before Printing

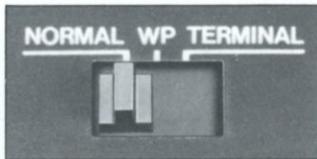
Follow these steps before printing.

### 2-1 Mode Selector

Select the type of operation.

On the top left-hand side of the keyboard are two slide switches; the one on the right is the mode selector.

Three different functions can be selected by sliding this switch. Set the mode selector to NORMAL.



Mode selector	Main use
NORMAL	Text printing
WP	Storing in the memory/ editing/printing
TERMINAL	Data transmission and reception

### 2-2 Mode Key

Select the printing mode (when the mode selector is set to NORMAL or WP).

The mode key (  ) is on the immediate left of the display. By pressing this key the guidance sign ( "▲" ) will appear in the display (mode indicator) by turns. The settings and meanings are as follows.

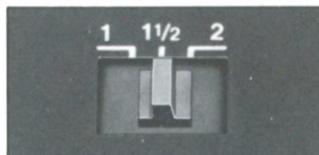
(Possible modes.)

Mode selector switch Mode	NORMAL WP TERMINAL	NORMAL WP TERMINAL
		
DP	○	×
AUTO	○	×
JUST	○	○
NP	×	○

### 2-3 Line Space Selector

Set the desired space between lines.

The slide switch on the left is the line space selector. Three settings are possible as shown below.



Line space Selector	Feed amount
1	Single spacing (2/12 inches)
1 1/2	1 1/2 spacing (3/12 inches)
2	Double spacing (4/12 inches)

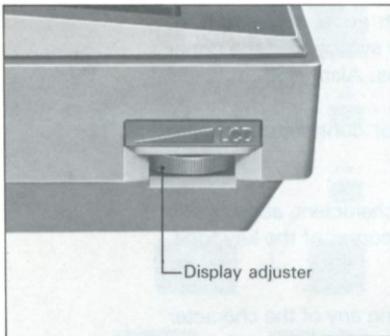
(Print mode features.)

Mode	Features
DP	Prints each character as it is input, and no corrections are possible.
AUTO	Causes automatic carrier return when the Space Bar (  ), or Hyphen key (  ) is depressed within the Hot Zone.
JUST	Input characters are displayed but are not printed until a new line is begun. This makes corrections in the display possible. When the space bar (  ) or the hyphen key (  ) is depressed when in the hot zone, the line is printed with its end aligned with that of other lines along the right margin, and the carrier automatically returns to begin a new line.
NP	The same as JUST, but there is no print-out. Corrections are possible in the display.

Note: When the ON/OFF switch is turned ON, the machine will automatically return to the last previously set mode. When resetting, the mode will automatically be set to DP in the NORMAL, and to JUST in the WP.

## 2-4 Display/Mode indicators

A maximum of 24 characters appear in the display.



(1) Adjustment of the density of characters in the display.

Turn the display adjuster clockwise for light characters and turn counterclockwise for strong, dark characters.

(2) Reading the Display

(Valid except in the DP and AUTO modes.)



The display has a 24 character capacity. To move the cursor left or right, depress the cursor left key (  ) or the cursor right key (  ).

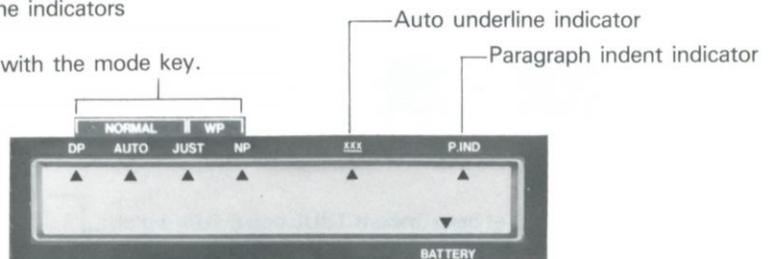
(Valid in the WP mode)



To move the cursor up or down, depress the cursor up key (  ) or the cursor down key (  ).

(3) Reading the indicators

Select with the mode key.



If this indicator illuminates, replace the batteries.

### 3. Function key guide (in the NORMAL mode)

Key	Name	Function
	Cursor left.....	Cursor moves one character space to the left.
	Cursor right .....	Cursor moves one character space to the right.
 + 	Express cursor left .....	Cursor moves to the head of the line.
 + 	Express cursor right.....	Cursor moves to the end of the line.
	Insert .....	Used to insert a character in front (to the left) of the character above the cursor. Press the key again to cancel the insert mode.
	Delete .....	Deletes the one character above the cursor.
	Index .....	Feeds the paper forward.
	Reverse index .....	Feeds the paper in reverse.
	Shift .....	Used in conjunction with another key to print capitals or the secondary symbols on the upper left corner of the key tops. Also used to cancel the shift lock.
	Shift lock .....	Used to lock the shift for continuous printing of capitals or symbols.
	Second shift .....	Used to print the special characters, accents and signs on the upper right corner of the key tops.
	Repeat.....	Press this key after pressing any of the character or function keys to repeat the function or character of the previously pressed key.
	Return .....	Advances the paper one line and returns the carrier to the left margin. (In the JUST mode all the characters in a line are printed before the carrier returns.)
	Space bar .....	Moves the carrier one space to the right. The carrier will move continuously if the space bar is held down.
	Backspace .....	Moves the carrier one space to the left (in DP or AUTO). Erases one character to the left of the cursor in the display. Will continue to erase to the left if continuously pressed (in JUST).
 + 	Express backspace .....	Moves the carrier quickly to the left margin (in DP or AUTO). Input characters are erased.

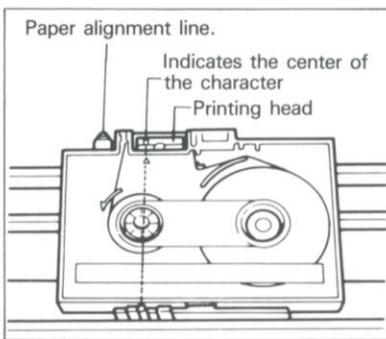
Key	Name	Function
	Left margin.....	Sets the left margin.
+	Right margin.....	Sets the right margin.
	Margin release.....	Temporarily cancels the margin settings for printing beyond the margins.
	Hot zone set.....	Sets the hot zone.
	Tab set.....	Sets tab stops.
	Decimal tab set .....	Sets decimal tab stops.
+	Line tab set .....	Sets line tab stops.
+	Tab clear.....	Clears a tab stop.
	Tabulator .....	Moves the carrier to the first tab stop to the right.
	Right margin flush .....	Prints with the characters flush with the right margin.
	Centering .....	Prints with the characters centered between the margins.
+	Line indent .....	Indents five character spaces from the left margin.
+	Paragraph indent .....	Temporarily sets a margin at a tab stop.
+	Indent clear .....	Cancels paragraph indent.
	Auto underline ON .....	Automatically underlines characters.
+	Auto underline OFF.....	Cancels the automatic underline mode.
+	Superscript .....	Reverse indexes the paper 1/2 line. (This is indicated in the display when in the JUST mode.)
+	Subscript .....	Advances the paper 1/2 line. (This is indicated in the display when in the JUST mode.)
+	Permanent space	...In the AUTO and JUST modes, used to prevent automatic carrier return within the hot zone.
+	Permanent hyphen	

## 4. How to use other keys

### 4-1 Capitals, Small Letters, and Others



Type of character	How to print
① Small letters and figures	Simply key in character.
② Capitals and symbols on the upper left corner of the key tops.	Depress the shift key (  ) and key in character. Note: For continuous using of these characters, press the shift lock key (  ) to lock the shift and key in without depressing the shift key. (The red shift lamp on the left of the shift lock key (  ) will illuminate. To cancel the shift lock, simply press either the right or left shift key.
③ Special characters, accents, and signs (On the upper right corner of the key tops)	Depress and hold the Second Shift key (  ) and then depress the desired character key. Accent marks are displayed, but not printed until an appropriate character key is depressed. Note: Accent marks must be entered before the character key.



The final three characters (or the last character when the cassette ribbon is not used) cannot be seen behind the printing head.

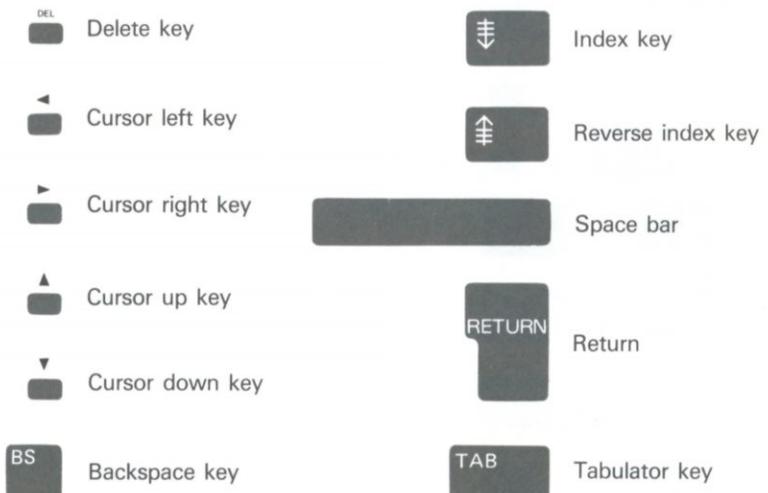
### 4-2 Repeat Key

The repeat key ( ) is used to repeat a character. Depress the repeat key ( ) immediately after inputting the character to be repeated. Some of the function keys can also be repeated.

Note: For keys which cannot be repeated, an alarm will sound when the repeat key is depressed.

### 4-3 Self-Repeat Keys

The function of the following keys will be repeated when the key is kept depressed without using the repeat key ( ).



## 5. Corrections in the display

NORMAL WP TERMINAL



DP AUTO JUST NP



ORANGE ORANJE ORANGE

(J is corrected to G)

Corrections can be made on the display before characters are printed, by using the cursor keys.

### 5-1 Character Corrections

- ① Press the cursor left key ( ) and move the cursor to the character to be corrected.  
Note: The cursor will continue moving to the left if the cursor left key ( ) is pressed and held down.
- ② Key in the correct character.
- ③ After the correction is made, press the express cursor right key ( + ) so the cursor moves as far right as it will go.

Note: By holding down the cursor key, the cursor will continually move to the right.

ORANGE ORANEGE ORANGE

(E is deleted)

### 5-2 Character Deletions

(1) For deletion of a character above the cursor, use the delete key.

- ① Press the cursor left key ( ) and move the cursor to the character to be deleted.
- ② The character above the cursor will be deleted when the delete key ( ) is pressed.
- ③ After the deletion is made, press the express cursor right key ( + ) so the cursor moves to the right end of the display contents.

Note: For deletion of characters successively to the right of the cursor, hold down the delete key.

ORANGE ORANEGE ORANGE

(E is deleted)

(2) For deletion of characters to the left of the cursor, use the backspace key.

- Press the backspace key ( ) and the character to the left of the cursor will be deleted.
- Note: For deletion of characters successively to the left of the cursor, hold down the backspace key ( ).

ORANGE ORNGE ORANGE

(A is inserted to the left of N)

### 5-3 Character Insertions

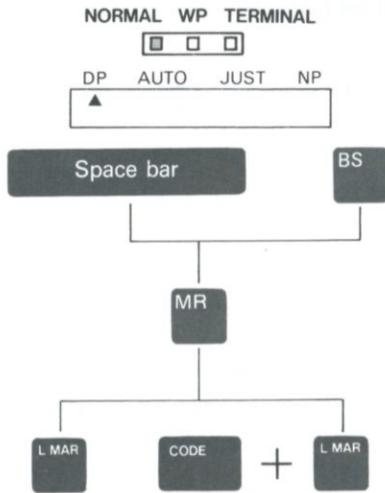
- ① Press the cursor left key ( ) and move the cursor to the character immediately to the right of the position where the insertion is to be made.
- ② Press the insert key ( ). The cursor position will not change but will flash in its present position as the display enters the insert mode.
- ③ Key in the desired character. The character will be inserted to the left of the character above the cursor.
- ④ If the insert key ( ) is pressed, the cursor position will stop flashing and the insert mode will be cancelled.
- ⑤ After insertion is made, press the express cursor right key ( + ) so the cursor moves to the right end of the displayed contents.

Note: Characters can be inserted until the right margin is reached when in the insert mode.

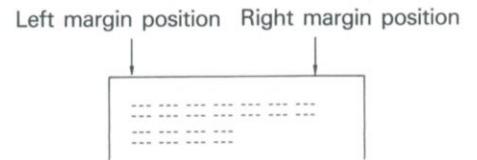
## <2.> Layout editing

This unit has an editing function which arranges the form of the text. With the use of the following functions, your text can be formatted as desired.

### 1. Margin Settings



Set the right and left margin positions of the text.

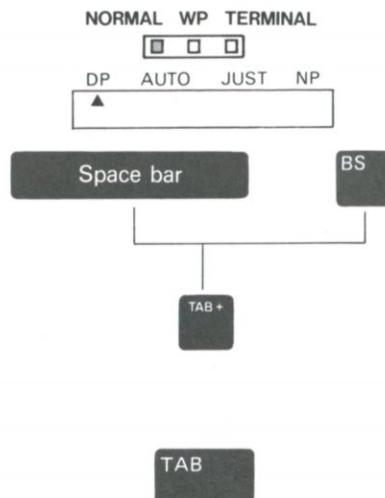


- ① Press the space bar ( ), or the backspace key ( ) to move the carrier to the desired position.

Note 1: Press the margin release key to release the margin, and then move the carrier.  
 Note 2: There must be at least 25 character positions between the left and right margins.

- ② When the carrier gets to the desired position press the left margin set key ( ) or the right margin set keys ( + ).

### 2. Tabulation



There are three kinds of tabulation.



#### 2-1 Tabs

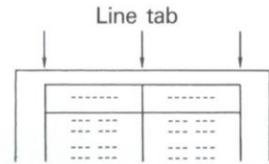
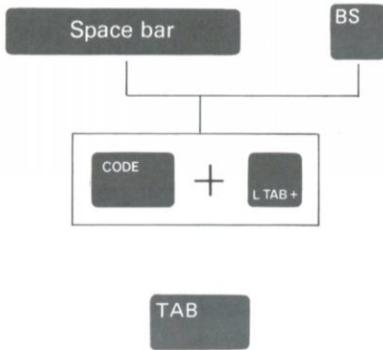
Used for aligning the first character of words vertically.

##### (1) Tab Set

- ① Press the space bar ( ), or the backspace key ( ) to move the carrier to the desired position.
- ② When the carrier gets to the desired position, press the tab set key ( ) to set the tab.

##### (2) Moving to tab stops

Press the tabulator key ( ) and the carrier will move to the next tab stop.



## 2-2 Line Tabs

Used for the drawing of vertical lines at the set position.

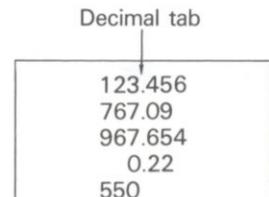
(1) Line tab set

① Press the space bar ( ) or the backspace key ( BS ) to move the carrier to the desired position.

② When the carrier gets to the desired position, press the line tab set keys ( CODE + L TAB + ) to set the line tab.

(2) Moving to the line tab stop

Press the tabulator key ( TAB ) and the carrier will move to the tab stop and print a vertical line.



## 2-3 Decimal tabs

Aligns decimal points of figures vertically.

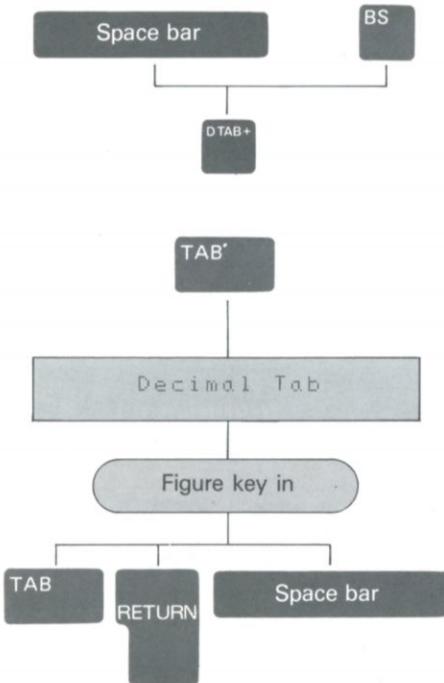
(1) Decimal Tab Set

① Press the space bar ( ) or the back space key ( BS ) to move the carrier to the desired position.

② When the carrier gets to the desired position, press the decimal tab set key ( D TAB + ) to set the tab.

(2) Moving to the decimal tab stop

① Press the tabulator key ( TAB ). The carrier will not move but an indicator will appear in the display.



② Key in the figure.

③ When the tabulator key is pressed, the figure will be printed and the carrier will move to the next tab stop.

Note: Printing is possible also by pressing the return key. As for figures including decimal points, printing is possible by pressing space bar.

## 2-4 Tab Clear

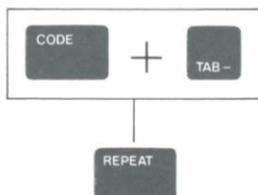
Move the carrier to the tab stop and press the tab clear keys ( CODE + TAB - ) to clear the tab.

## 2-5 All Tab Clear

Used to clear all tab stops.

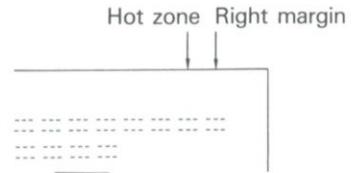
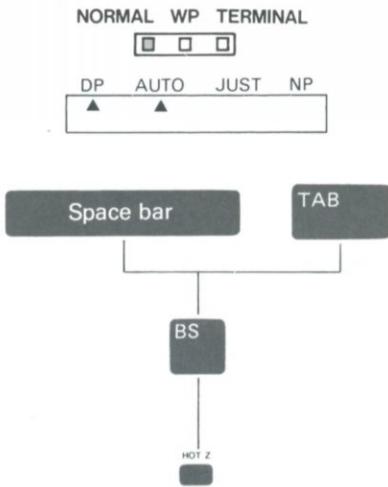
① Press the tab clear keys ( CODE + TAB - ).

② Press the repeat key ( REPEAT ).



### 3. Setting the Hot Zone

When inputting and approaching the right margin, an alarm will sound. The space from that point to the right margin is called the "hot zone". The hot zone can be set anywhere between 6 and 12 character spaces. 6 character spaces are set by default.

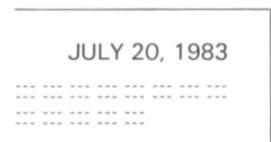
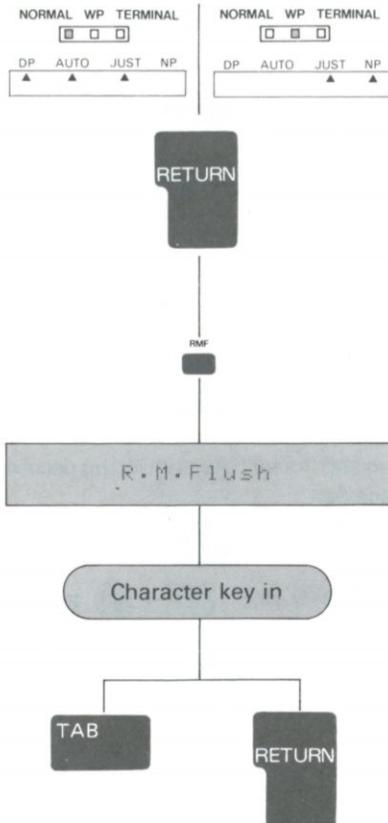


- ① Press the space bar ( ) or the tabulator key ( ) to move the carrier to the right margin.
- ② With the backspace key ( ), move the carrier back the number of character spaces desired for the hot zone.
- ③ Press the hot zone key ( ).

Note: In the AUTO or JUST mode, a new line will be automatically started when the carrier enters the hot zone and the space bar, or the hyphen key is pressed. Use the permanent space bar ( + ) or the permanent hyphen key ( + ) when you do not want to start a new line automatically in the hot zone.

### 4. Right Margin Flush

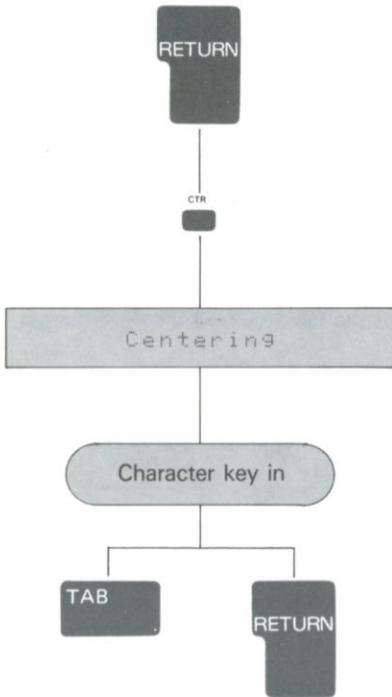
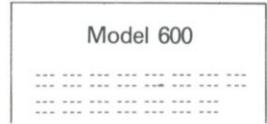
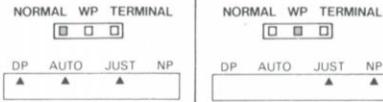
Print the date, etc. in letters along the right margin.



- ① Press the return key ( ) to move the carrier to the left margin.
- ② Press the right margin flush key ( ).  
The carrier will not move but a display indicator will appear.  
Note: The right margin flush function is cancelled by pressing the right margin flush key again, and the display indicator will disappear.
- ③ Characters input will appear in the display and corrections are possible if necessary.  
Note: To erase all characters input, press the express backspace key. The right margin flush function is cancelled by pressing the backspace key again.
- ④ Prints along the right margin when the tabulator key ( ), or the return key ( ) is pressed.  
Note: The right margin flush function is only effective when the carrier is at the beginning of a line.

## 5. Centering

Prints a title, etc. in the middle of the margins.



① Press the return key ( ) to move the carrier to the left margin.

② Press the centering key ( ).

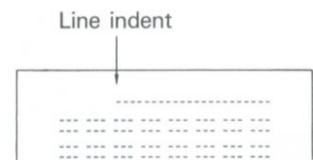
The carrier does not move but a display indicator appears.  
 Note: The centering function is cancelled by pressing the centering key again. The display indicator disappears.

③ Input characters are displayed, and corrections in the display are possible.  
 Note: To erase all input characters, press the express backspace key. The centering function is cancelled by pressing the express backspace key again.

④ Prints in the middle when the tabulator key ( ), or the return key ( ) is pressed.  
 Note: Centering function is only effective when the carrier is at the beginning of a line.

## 6. Line Indent

Used to indent the first line of a paragraph five character spaces.



The carrier will move five characters spaces from the left margin by pressing the line indent keys ( + ).

Note: By pressing the line indent key part way along a line, the next line will be started with an indent.

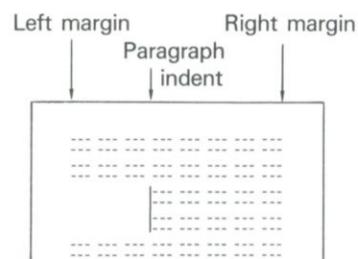
## 7. Paragraph Indent

Used to set a temporary left margin.

NORMAL WP TERMINAL



DP AUTO JUST NP



### (1) Setting the paragraph Indent

Press the space bar (  ), or the backspace key (  ) to set a tab stop at the desired position of a paragraph.

Note: Leave at least 25 character spaces between the tab stop and the right margin.

### (2) Indent paragraph

① Press the keys for paragraph indent (  +  ).

Note: Paragraph indent can only be performed when the carrier is at the left of the set tab stop.

This display appears and the carrier moves to the next tab stop.

Note: Paragraph indent indicator appears.

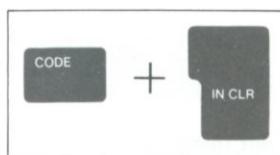
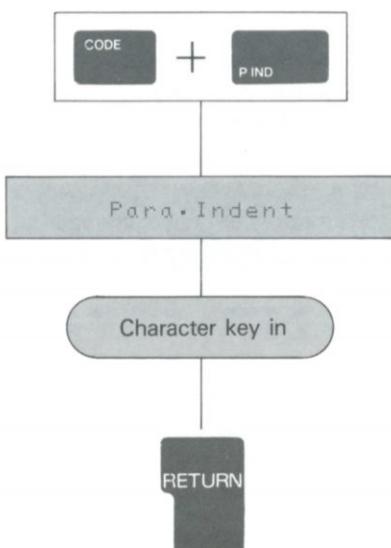
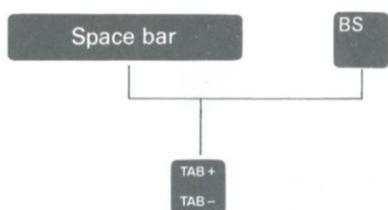
② Key in characters.

③ The carrier will return to the tab stop when the return key (  ) is depressed, and the display will appear again.

### (3) Cancelling the Paragraph Indent

The paragraph indent function is cancelled by pressing the indent clear key (  +  ). The carrier will return to the left margin.

Note: Paragraph indent indicator disappears.

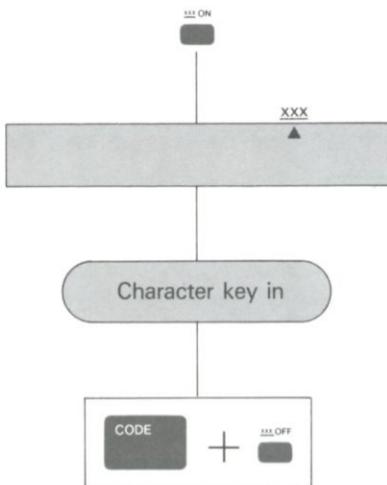


## 8. Auto-underline

Prints characters with underline



- Enter the auto-underline mode by pressing the auto-underline ON key (  ).



Auto-underline indicator will appear.

- Key in characters.

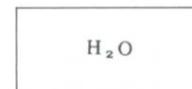
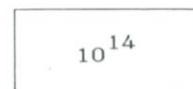
- The auto-underline mode is cancelled by pressing auto-underline OFF keys (  +  ).

Note: The auto-underline indicator will disappear.



Note: In the JUST, NP centering, right margin flush, or decimal tab mode, (  ) will appear in the display when the underline ON key is pressed and, (  ) will appear in the display when the underline OFF key is pressed.

## 9. Superscript and Subscript



(Superscript)

Irrespective of line space, this reverse indexes the paper automatically 1/2 line so that characters can be printed above.

(Subscript)

Irrespective of line space, this advances the paper automatically 1/2 line so that characters can be printed below.

(Example) To print characters above:

- Press (  +  ).
- Key in characters.
- Press (  +  ).

(Example) To print below the text:

- Press (  +  ).
- Input characters.
- Press (  +  ).

Note: In the JUST, NP, centering, right margin flush, or decimal tab mode, (  ) will appear in the display when the superscript key is pressed and, (  ) will appear in the display when the subscript key is pressed.

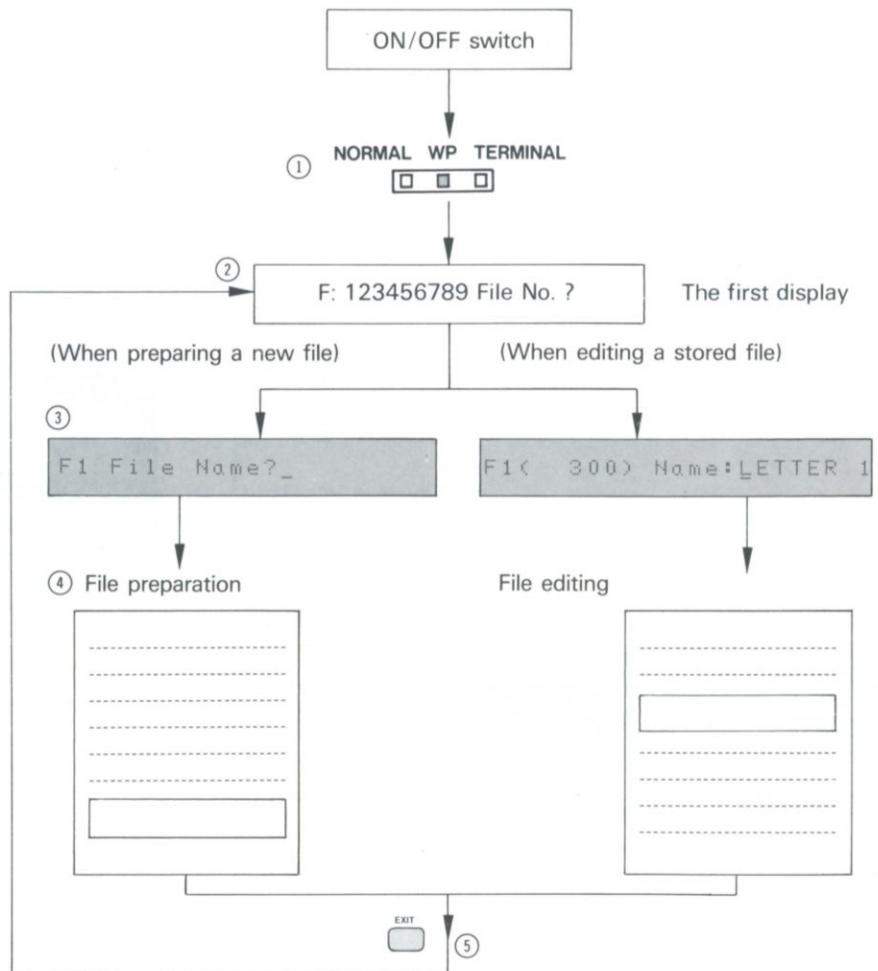
<1.> Storing text in the memory

1. Outline

Model 600, when used as a word processor, has a maximum text memory capacity of approximately 14,300 characters. The memory is retained even after the ON/OFF switch is turned OFF when batteries are left in or AC adaptor is left connected to the unit and plugged into the wall outlet. For long text or for many files, an external memory device (a disk drive) can be used for storage.

2. Word Processing Flow Chart

The chart below shows the whole flow of operation when this unit is used as a word processor.



①-③ are preparation for word processing and ④ is main operation. In ④, text may be added in the same way as in the NORMAL mode, and various editing functions are possible.

Note: Optional Disk Is Not Available.

- ① Set the mode selector to WP (refer to page 12).

NORMAL WP TERMINAL

- ② Select a file number.

F:\*23456789 File No.?

Select a number from 1 to 9 for a file number. When a file has text stored in it, this file number will change to "".

Note: There can be nine file divisions within memory capacity and the size of a file may be changed freely. However, if a long text is stored as one file, other file numbers may not be available.

Operation example

1

- ③ Name or change the name of a file.  
 (When preparing a new file)

F1 File Name?\_

Name the file with eight or less characters excluding ("), (,), (:), (;).

(Examples) LETTER 1  
 ADDRESS  
 BUDGET

Note: The same name cannot be used for another file.

(Operation example)

LETTER 1

- ④ File preparation, editing, and addition.  
 (preparation)

NORMAL WP  
 DP AUTO JUST NP EE P.IND  
 1 \_  
 BATTERY

When preparing a new file, the display indication will appear as in the diagram above. The mode will be either JUST or NP. Press the mode key (  ) if mode change is desired.

Also, by using the keys (  +  ), margins and tabs can be set or changed. (Refer to page 38.)

Operation is the same as in the NORMAL mode, except that characters input are stored in the memory.

(When editing or making an addition)

F1( 300) Name: LETTER 1

Size of the file File name

The file name and its size (number of characters) are displayed. The file name can be changed by moving the cursor.

(Operation example)

RETURN (If the file name is not changed)

(Editing and addition)

NORMAL WP  
 DP AUTO JUST NP EE P.IND  
 1 M The moon is the  
 BATTERY

When editing a stored file, the display will appear as the above.

The code "M" means that margins and tab settings, etc. are stored in the file. File corrections can be made with the cursor.

- ⑤ When finished, press the exit key (  ).

Note: When the exit key is pressed, the display as in ② reappears.

### 3. Function key guide (in the WP mode)

In the WP mode, all the function keys in the function key guide (in the NORMAL mode) are effective except the paragraph indent key and the indent clear key.

Key	Name	Function
	Cursor up.....	Cursor moves to the previous line.
	Cursor down.....	Cursor moves to the next line.
 + 	Express cursor up .....	Cursor moves to the first line.
 + 	Express cursor down ...	Cursor moves to the last line.
	Print .....	Prints the contents of a file.
	Escape.....	① Printout and transmission are stopped. ② The execution of functions (margin, tabs, copy, delete, join, find, replace, and names) is stopped. ③ Errors are cancelled.
	Continue .....	Restarts temporarily stopped printout or transmission.
	Exit.....	The first display reappears.
 + 	Copy.....	Copies file to file or line to line.
 + 	Delete .....	Deletes by a file or by a line.
 + 	Find .....	Finds a certain word in the text.
 + 	Replace .....	Replaces a word in the text with another word.
 + 	Margin/Tab .....	Sets or changes margins and tabs.
 + 	Join .....	Connects two files to make one.
 + 	Names.....	Prints or displays file names and their sizes.
 + 	Initialize .....	Prepares a new floppy disk for use with the model 600 and the disk drive.
 + 	Save .....	Saves a file on the floppy disk.
 + 	Load .....	Loads a file from the floppy disk into the model 600.
 + 	Kill.....	Deletes a file from a floppy disk.
 + 	Transmit .....	Transmits a file through the RS-232C standard interface.

**Note: Optional Disk Is Not Available.**

## 4. The Display

### 4-1 Display of Line Number

In the WP mode, model 600 displays numbers and the signs "▶" or "◀" at the left end when preparing a file or editing. The numbers indicate which line is being shown in the display. At the beginning of a line, "▶" appears, and in the middle of a line, "◀" appears.

Line number

1  
2  
3  
4  
5  
6  
7

```

The moon is the nearest neighbor to the earth.
It seems bigger and brighter than the star, but
really is much smaller. It seems bigger because
it is so much nearer to us than any star. The moon
travels around the earth just as the earth travels
around the sun. People have always been interested
in the moon.
    
```

(The beginning of the second line is shown.)

```
2▶It seems bigger and_b
```

↑  
Cursor

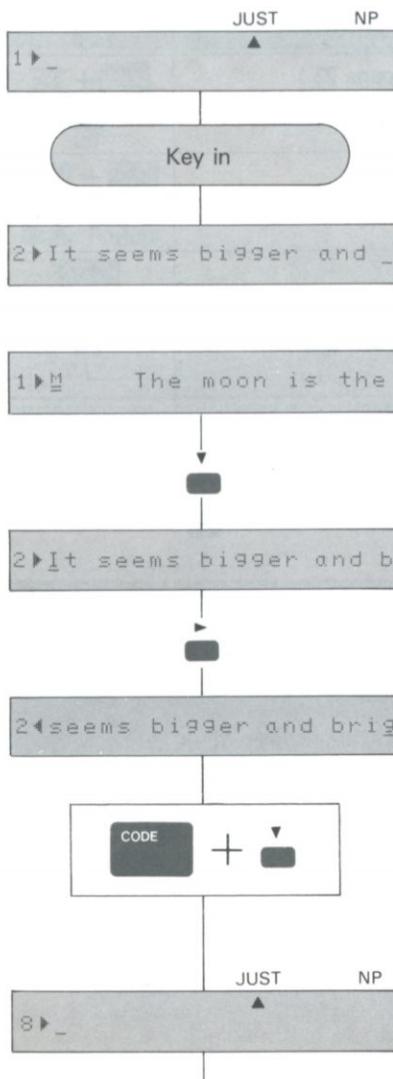
(The middle of the second line is being shown.)

```
2◀igger and brighter th
```

### 4-2 Display Movement

In the WP mode, the display moves when adding or editing text with the cursor.

- When preparing or making an addition



The line number at the left end of the display advance 1 with each line input.

- When editing

① Press the cursor down key ( ).

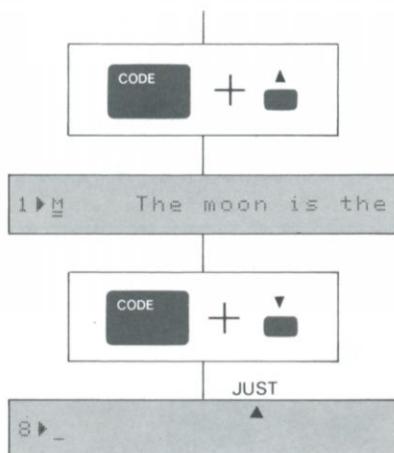
The next line will be displayed.

② Press the cursor right key ( ).

The cursor moves and it is possible to correct characters.

③ Press the express cursor down keys ( + ).

The cursor moves to the end of the file where an addition is possible.



- ④ Press the express cursor up keys (CODE + ).

The first line will be displayed.

- ⑤ Press the express cursor down keys (CODE + ).

The last line will be displayed.

### 4-3 Function Codes

When editing a file, there are codes which are displayed but not printed.

(Function code table)

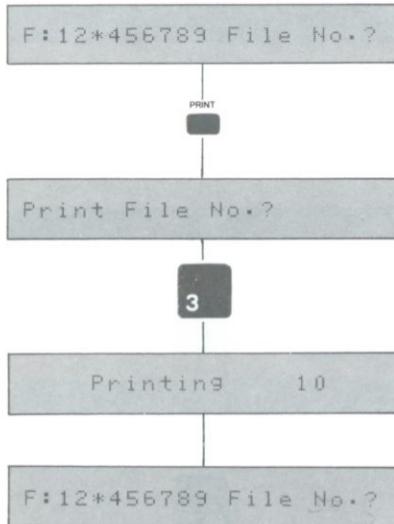
Code	Content	Key
<u>C</u>	Centering (Refer to page 21.)	
<u>R</u>	Right margin flush (Refer to page 20.)	
<u>⇨</u>	Auto-underline ON (Refer to page 23.)	
<u>⇦</u>	Auto-underline OFF (Refer to page 23.)	CODE +
<u>↵</u>	Return	
<u>↑</u>	Superscript (Refer to page 23.)	CODE +
<u>↓</u>	Subscript (Refer to page 23.)	CODE +
<u>→</u>	Tabulator	
<u>M</u>	Margin/Tab (Refer to page 38.)	CODE +
<u>⋈</u>	Tab space	/
<u>↵</u>	Automatic return	/

## <2.> Text Edit Functions

### 1. Print-out

A file can be printed at a time by pressing the print key (  ).

NORMAL WP TERMINAL



#### 1-1 Print-out a whole file

(Example) Printing out file No. 3.

- ① Press the print key (  ).

What is the number of the file that you want to print-out?

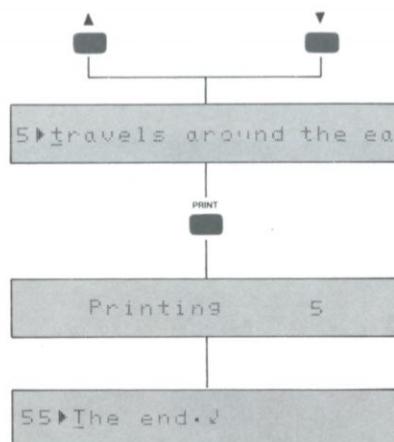
- ② Press . (3 is the file number.)

In printing, the line numbers are displayed.

After print-out, the first display is shown again.

#### 1-2 Print-out from the middle of a file

(Example) Printing out from the fifth line of a file.

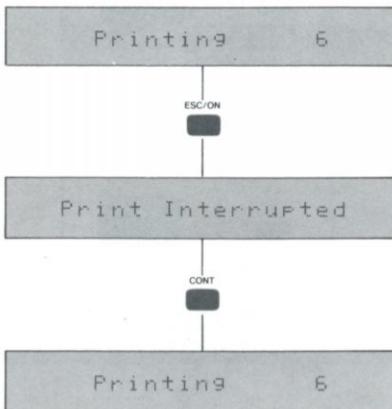


- ① Display the fifth line by pressing the cursor up key (  ) or the cursor down key (  ).

- ② Press the print key (  ).

In printing, the line numbers are displayed.

After print-out, the last line of the file will be displayed.



### 1-3 Temporary stop and Restart of Print-out

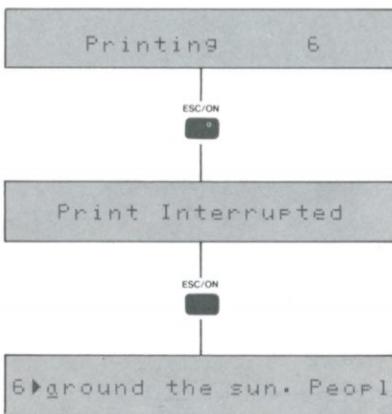
The number of the line which is being printed is displayed.

① Press the escape key (  ) in printing.

A display appears and print-out stops temporarily.

② Press the continue key (  ).

Print-out resumes.



### 1-4 Permanently stop print-out

The number of the line which is being printed is displayed.

① Press the escape key (  ) in printing-out.

A display appears and print-out stops temporarily.

② Press the escape key (  ) once more.

Printing stops and the last line which was printed is displayed.

The first display appears when the exit key (  ) is pressed.

Note: When printing-out is stopped temporarily because of paper empty, printing can be resumed by pressing the continue key, after replacing the paper.

## 2. Copy

Copies file to file or line to line.

### 2-1 Copy file to file

(1) When the file which is to be copied to has not been used.  
(Example) Copying file No. 1 to No. 9.



① Press the copy keys ( + ).

Which file do you want to copy from?

② Press . (1 is the number of the file to be copied.)

Which file do you want to copy to?

③ Press . (9 is the number of the file to which file 1 is copied.)

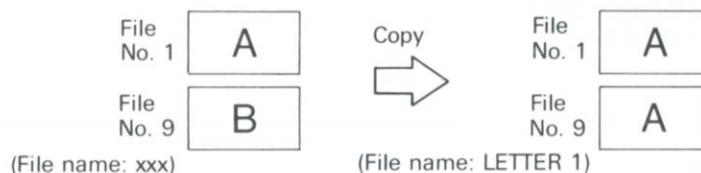
What is the new file name?

④ Input LETTER 1. (The new file name)

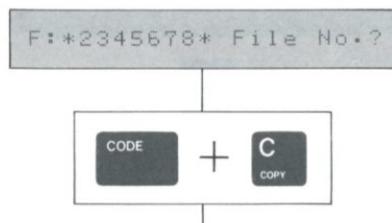
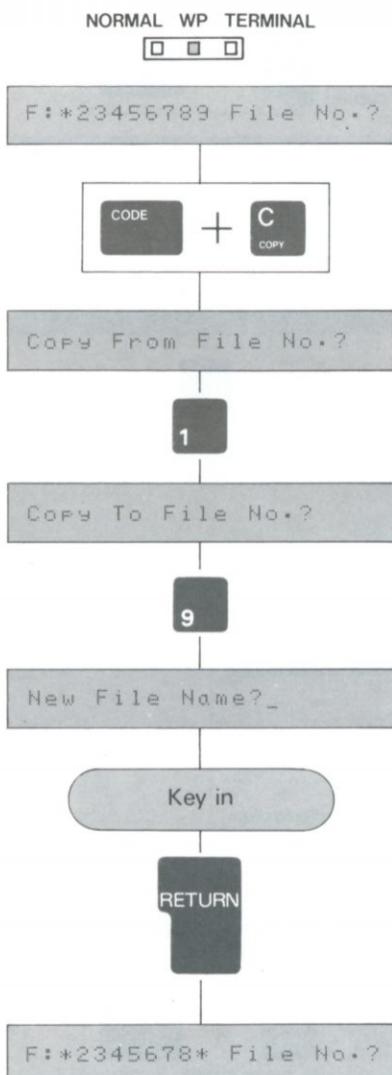
⑤ Press the return key ( ).

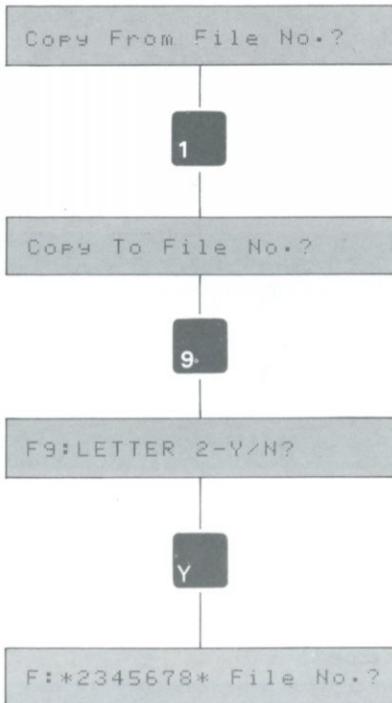
The "9" in the display changes to "\*" and copying is finished.

(2) When the file which is copied to is used.  
(Example) Copying file No. 1 to No. 9.



(1) Press the copy keys ( + ).





Which file do you want to copy from?

(2) Press **1**. (1 is the number of the file to be copied.)

Which file do you want to copy to?

(3) Press **9**. (9 is the number of the file to be copied to.)

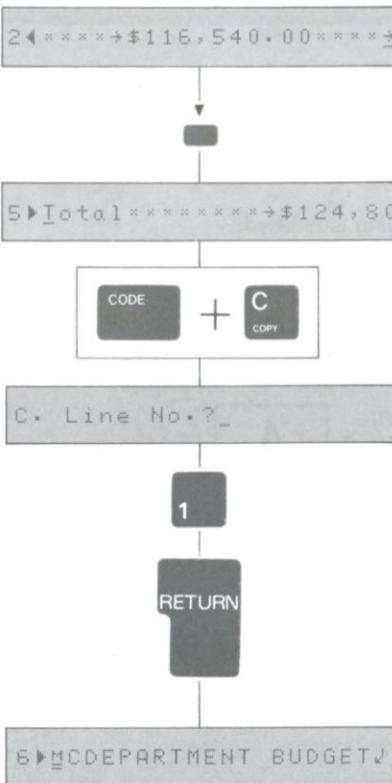
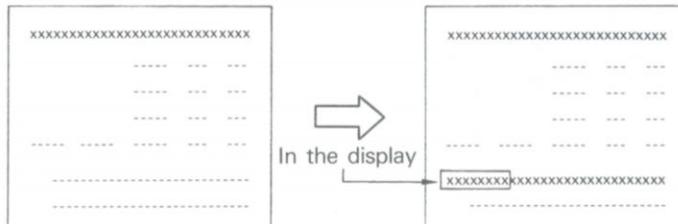
Is it OK to erase the contents of the file No. 9?

(4) Press Y.  
Note: The file name will not be copied.

Copying is finished.

### 2-2 Copy by the line

(Example) Copying line 1 to line 6.



① Show line 5 (the line before the position for the new line: line 6) in the display by pressing the cursor down key ( **↓** ).

Line 5 is displayed.

② Press the copy keys ( **CODE** + **C COPY** ).

Which line do you want to copy from?

③ Press **1**. (1 is the number of the line to be copied.)

④ Press the return key ( **RETURN** ).  
Note: To copy more than one line, enter the line numbers separated by a hyphen.  
(Example) When copying lines 1 to 5.

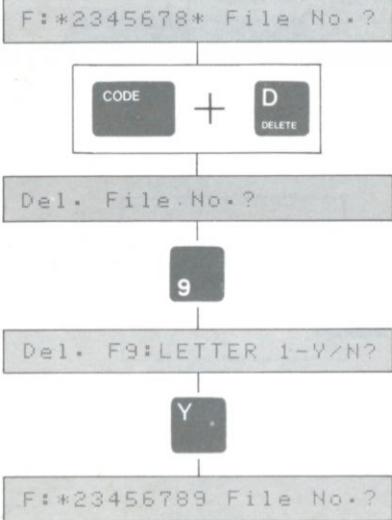


Line 1 is copied to the line following line 5 and is displayed.

### 3. Delete

Deletes a file or an unnecessary part of a file.

NORMAL WP TERMINAL



#### 3-1 Delete by the file

(Example) Deleting file No. 1.

- ① Press the delete keys ( + ).

Which file do you want to delete?

- ② Press 9 (9 is the number of the file to be deleted).

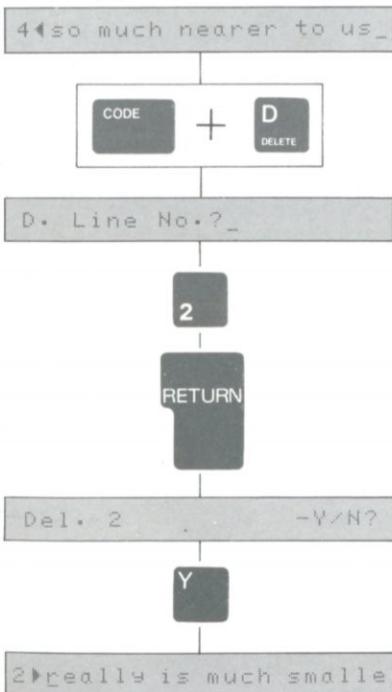
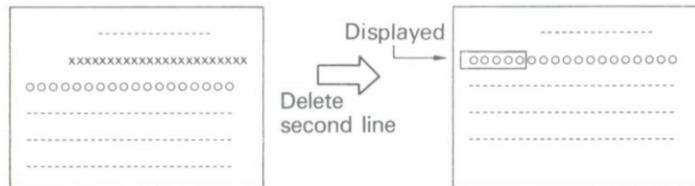
Is it OK to delete the contents of file No. 9?

- ③ Press .

“\*” in the display changes to 9 and deletion is finished.

#### 3-2 Deletion by the line.

(Example) Deleting line 2.



- ① Press the delete keys ( + ).

Which line do you want to delete?

- ② Press . (2 is the number of the line to be deleted.)

- ③ Press the return key ( ).

Note: To delete more than one line, enter the line numbers separated by a hyphen.  
(Example) When deleting lines 1 to 5.

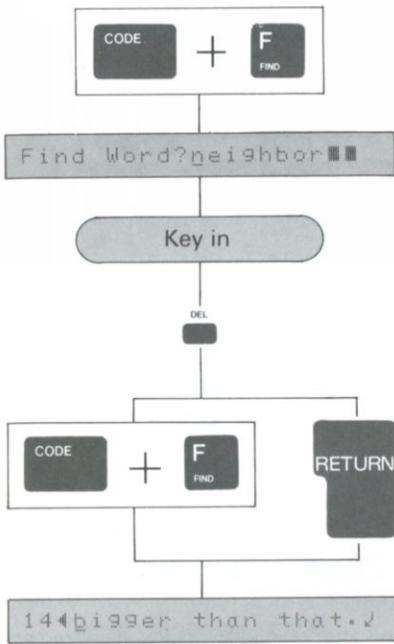


Is it OK to delete line 2?

- ④ Press .

Line 2 is deleted and displayed.





B. To search for a new word e.g. "big".

- ④ Press the find keys (  +  ).

Is it OK to search for the word "neighbor"?

- ⑤ Input "big" (the word to be searched for).

Note: When cancelling a word, be sure to use the delete key, otherwise not all the characters from the previous word will be erased.

- ⑥ Press the find keys (  +  ) or the return key (  ).

Searched for from the present cursor position, the word "bigger" is displayed.

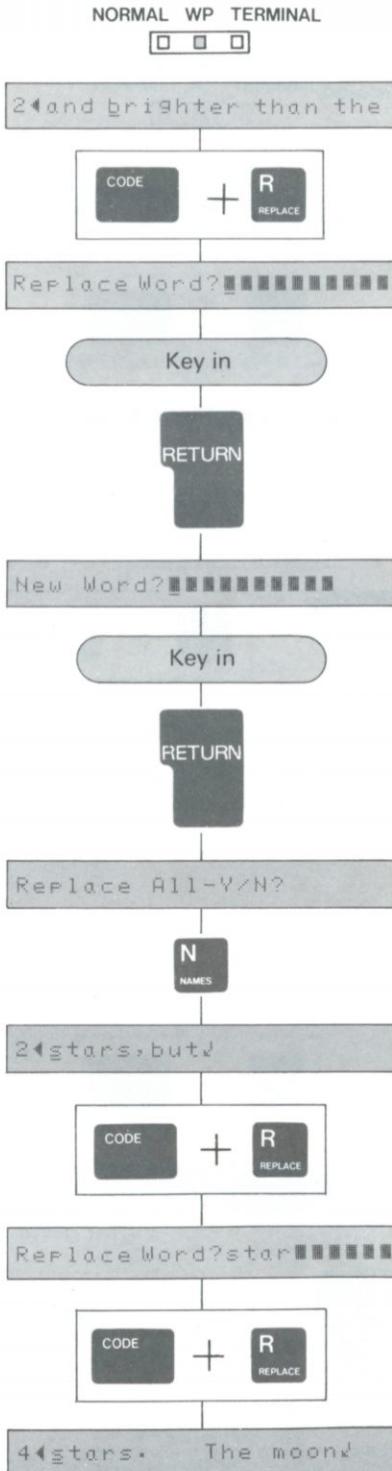
Note: If the word searched for does not have a space before and after it, longer words of which it forms a part of will also be searched for.

## 5. Replace

Replaces a word with another word in a file and shows it on the left side in the display.

(Example file)

```
The moon is the nearest neighbor to the earth.
It seems bigger and brighter than the star, but
really is much smaller. It seems bigger because
it is so much nearer to us than any star. The moon
travels around the earth just as the earth travels
around the sun. People have always been interested
in the moon.
```



(Example 1) Replacing "star" with "stars" one by one.

① Press the replace keys ( + ).

Note: Replace function is performed in the text after the cursor.

Which word do you want to replace?

② Input " star ". (Star is the word to be replaced.)

Note: If the word does not have a space before and after it, it will not be considered as one word.

③ Press the return key ( ).

What is the new word?

④ Input stars. (Stars is the new word which is to replace star.)

⑤ Press the return key ( ).

Do you want to replace all of them?

⑥ Press .

The new word which has replaced star is displayed.

⑦ Press the replace keys ( + ).

Is the word you want to replace " star "?

⑧ Press the replace keys ( + ).

⑨ The new word which has replaced star is displayed.

Note: If a new word replacement is not input, the original word will be deleted when replacement is executed. From the cursor position, the first word "star" will be deleted.



Left margin - top Left  
 Right margin - Code + Lmar = Rmargin  
 Tab - delete tab-use Code + tab

## 6. Margin and Tabs

Sets and changes the settings of margins and tabs in text preparation and editing.

The following keys can be used to set the various parameters.

Left margin (  $\begin{matrix} \text{L MAR} \\ \text{R MAR} \end{matrix}$  ), right margin (  $\begin{matrix} \text{CODE} \\ \text{L MAR} \\ \text{R MAR} \end{matrix}$  +  $\begin{matrix} \text{L MAR} \\ \text{R MAR} \end{matrix}$  ), tab set (  $\begin{matrix} \text{TAB} \\ \text{TAB} \end{matrix}$  ), tab clear (  $\begin{matrix} \text{CODE} \\ \text{TAB} \end{matrix}$  +  $\begin{matrix} \text{TAB} \\ \text{TAB} \end{matrix}$  ), decimal tab (  $\begin{matrix} \text{DTAB} \\ \text{L TAB} \end{matrix}$  ), line tab (  $\begin{matrix} \text{CODE} \\ \text{DTAB} \\ \text{L TAB} \end{matrix}$  +  $\begin{matrix} \text{DTAB} \\ \text{L TAB} \end{matrix}$  ), hot zone (  $\begin{matrix} \text{HOT Z} \\ \text{TAB} \end{matrix}$  ), and all tab clear (  $\begin{matrix} \text{CODE} \\ \text{TAB} \end{matrix}$  +  $\begin{matrix} \text{REPEAT} \\ \text{TAB} \end{matrix}$  ).

### 6-1 Margin and Tab Settings in Text Preparation

- 1 Press setting keys (  $\begin{matrix} \text{CODE} \\ \text{M} \end{matrix}$  +  $\begin{matrix} \text{M} \\ \text{MARGIN} \end{matrix}$  ).

Set margins and tabs. (Printing head position is indicated.)

- 2 Press the space bar (  $\square$  ) or the backspace key (  $\begin{matrix} \text{BS} \end{matrix}$  ) to move the carrier.

- 3 Press the key to set left margin (  $\begin{matrix} \text{L MAR} \\ \text{R MAR} \end{matrix}$  ), right margin (  $\begin{matrix} \text{CODE} \\ \text{L MAR} \\ \text{R MAR} \end{matrix}$  ), tab set etc. as above.

- 4 When setting is finished, press the setting keys (  $\begin{matrix} \text{CODE} \\ \text{M} \end{matrix}$  +  $\begin{matrix} \text{M} \\ \text{MARGIN} \end{matrix}$  ).

Note: Press the escape key (  $\begin{matrix} \text{ESC} \\ \text{ON} \end{matrix}$  ) to escape from margin setting made without setting new margin sets.

The line 1 appears.

Note: Margins and tabs can only be set with the cursor at the beginning of a line.

### 6-2 Margin and Tab Settings and Changes in Editing

- 1 Press setting keys (  $\begin{matrix} \text{CODE} \\ \text{M} \end{matrix}$  +  $\begin{matrix} \text{M} \\ \text{MARGIN} \end{matrix}$  ).

Set margins and tabs. (Printing head position is indicated.)

- 2 Press the space bar (  $\square$  ), or the backspace key (  $\begin{matrix} \text{BS} \end{matrix}$  ) to move the carrier.

- 3 Press the key to set margins or tabs etc. as above.

- 4 When setting is finished, press the setting keys (  $\begin{matrix} \text{CODE} \\ \text{M} \end{matrix}$  +  $\begin{matrix} \text{M} \\ \text{MARGIN} \end{matrix}$  ).

Note: Press the escape key (  $\begin{matrix} \text{ESC} \\ \text{ON} \end{matrix}$  ) to escape from margin and tab setting mode.

The first display appears.

Note 1: Concerning the setting method, refer to page 18-20.

Note 2: Following message in the display indicates the positions where you set margins, tabs and hot zone.

Left Margin	xx	Left margin position
Right Margin	xx	Right margin position
Normal Tab	xx	Tab position
Line Tab	xx	Line tab position
Decimal Tab	xx	Decimal tab position
Hot Zone	xx	Hot zone
Beyond Left Margin	xx	Left side of the left margin
Beyond Right Margin	xx	Right side of the right margin

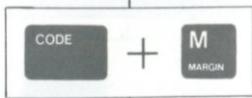
xx. indicates printing head position.

NORMAL WP TERMINAL



JUST

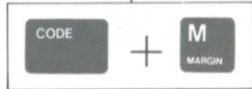
1 ▶ \_



Left Margin 0

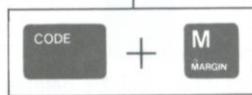


Key in

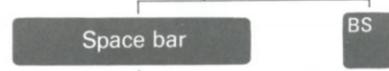


1 ▶ \_

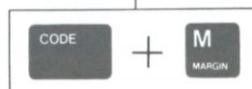
5 ◀ around the earth just



Left Margin 0



Key in

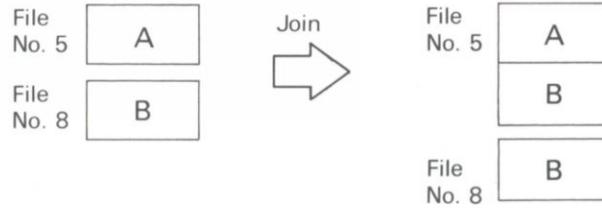


5 ▶ Mtravels around the e

## 7. Join

Joins the contents of one file to that of another.

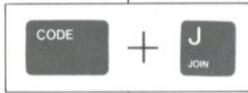
(Example) Joining the contents of file No.8 to the contents of file No.5.



NORMAL WP TERMINAL



F:1234\*67\*9 File No.?



Join- From File No.?

8

Join- To File No.?

5

F:1234\*67\*9 File No.?

① Press the join keys (  +  ).

Which file do you want to join from?

② Press . (8 is the number of the file to be joined from.)

Which file do you want to join to?

③ Press . (5 is the number of the main file which is joined to.)

The first display appears and joining is finished.

Note: Once two files have been joined, they cannot be separated again.

Note: When joining two files, the "join from" file remains in its separate file location as well as being connected to the "join to" file. (see illustration above.)

## 8. Names

Displays or Prints-out file names and sizes.

(Example 1) Printing out file information.

Remaining Bytes: 2900 F1: LETTER 1 800 Bytes F4: budget 400 Bytes  
F9:LETTER 2 100 Bytes

(One byte is one character. The total size in bytes includes all characters, spaces, carriage returns, margins and tab stops etc.)

① Press the names keys (  +  ).

Do you want to print-out the names and sizes of the files?

② Press  .

Printing-out is performed and the first display reappears.

(Example 2) Displaying file information.

① Press the names keys (  +  ).

Do you want to print-out the names and sizes of the files?

② Press  .

The number of remaining bytes is displayed.

③ Press the return key (  ).

A file information is displayed.

④ Press the return key (  ).

Next file information is displayed.

⑤ Press the return key (  ).

Next file information is displayed.

⑥ Press the return key (  ).

When finished, the first display reappears.

NORMAL WP TERMINAL



F:\*23\*5678\* File No.?



Print-Y/N?



F:\*23\*5678\* File No.?

F:\*23\*5678\* File No.?



Print-Y/N?



Remaining Bytes:14334

RETURN

F1:LETTER 1 800 Bytes

RETURN

F4:BUDGET 400 Bytes

RETURN

F9:LETTER 2 100 Bytes

RETURN

F:\*23\*5678\* File No.?

F:12:456789 File No.?



Disk File-Y/N?



Print-Y/N?



Remaining Blocks: 76



F:ADDRESS 400 Bytes



F:LETTER 1 367 Bytes

(Example 3) Displaying file information from the disk. (When connected to the disk drive.)

① Press the names keys (  +  ).

Are you referring to the names and sizes of files on the disk?

② Press  .

Note: By pressing (  ), file information from the internal model 600 WP files is printed or displayed.

Do you want to print-out?

③ Press N.

Note: Print-out is executed if Y is pressed.

The remaining memory capacity on the disk is displayed. (by the block)

④ Press the return key (  ).

The name and size of a file on the disk are displayed.

⑤ Press the return key (  ).

The next file information will be displayed.

**Note: Optional Disk Is Not Available.**

## 9. Initialize

Each new disk must be initialized before it is possible to store files on it.

NORMAL WP TERMINAL

Disk



Insert a new disk into the Disk Drive.

F:12\*456789 File No.?



① Press the initialize keys (  +  ).

Initialize Disk-Y/N?

Is it OK to execute initialization?

② Press  .

Initializing

Initialization is executing. (It takes about one minute and forty seconds.)

F:12\*456789 File No.?

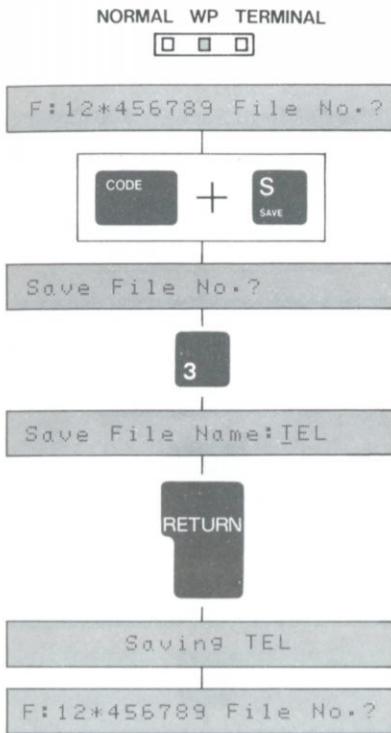
When initialization is completed, the first display reappears.

Note: If a disk on which files are stored is initialized all files stored on the disk will be completely erased.

**Note: Optional Disk Is Not Available.**

## 10. Save

Stores a file from the memory of model 600 onto the disk.



### 10-1 Stores on a new disk.

(Example) Saving file No. 3.



① Press the save keys (  +  ).

Which file do you want to save?

② Press . (3 is the number of the file to be saved.)

The name of the file to be saved is TEL.

Note: If the file has no name, you can name the file or change the file name.

③ Press the return key (  ).

The file is being saved.

When saving is finished, the first display reappears.

### 10-2 When a file on the disk has the same name

(Example) Saving file No. 3.



① Press the save keys (  +  ).

Which file do you want to save?

② Press . (3 is the number of the file to be saved.)

The name of the file to be saved is TEL.

Note: If the file has no name, you can name the file or change the file name at this time.

③ Press the return key (  ).

Is it OK to erase the contents of the file "TEL" on the disk and to save the new file "TEL"?

④ (When it is OK)

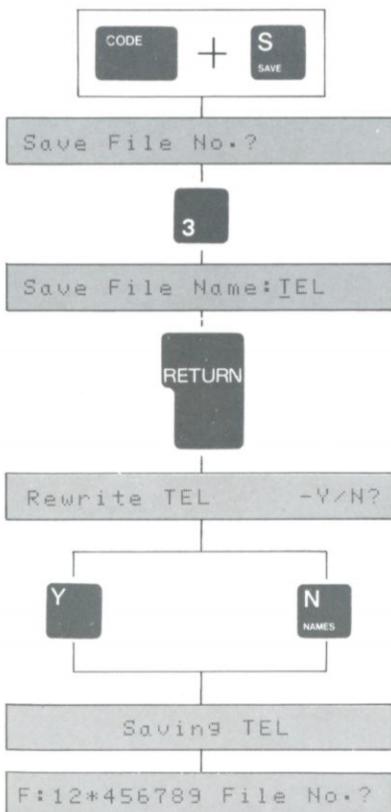
Press .

(To keep the file on the disk)

Press , change the name of the file in the memory of model 600, and save again.

"TEL" is being saved.

When saving is finished, the first display will reappear.



**Note: Optional Disk Is Not Available.**

## 11. Load

Loads a file from a disk into the memory of model 600 and makes editing and printing of the file possible.

### 11-1 Loading into a Vacant File

(Example) Loading ADDRESS into file No. 1.



① Press the load keys (  +  ).

Which file do you want to load to?

② Press . (1 is the number of the WP file into which the contents of the disk file is going to be loaded.)

What is the name of the file to be loaded?

③ Input ADDRESS. (ADDRESS is the name of the file to be loaded into file 1.)

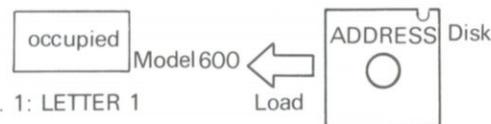
④ Press the return key (  ).

File ADDRESS is loaded into File 1.

After loading, the first display reappears.

### 11-2 Loading ADDRESS into an occupied file.

(Example) loading ADDRESS into file No. 1.



① Press the load keys (  +  ).

Which file do you want to load to?

② Press .

Is it OK to erase the contents of file No. 1 "LETTER 1"?

③ Press .

Note: By pressing N, the first display will reappear without loading the disk file.

What is the name of the file to be loaded?

④ Input "ADDRESS". (ADDRESS is the name of the file to be loaded into file 1.)

⑤ Press the return key (  ).

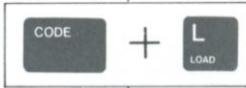
File ADDRESS is loaded into File 1.

After loading, the first display reappears.

NORMAL WP TERMINAL



F:123456789 File No.?



Load File No.?

1

Load File Name?\_

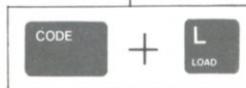
Key in

RETURN

Loading ADDRESS

F:\*23456789 File No.?

F:\*\*\*\*\* File No.?



Load File No.?

1

F1:LETTER 1-Y/N?

Y

Load File Name?\_

Key in

RETURN

Loading ADDRESS

F:\*\*\*\*\* File No.?

## 12. Kill

Erases the contents of a disk file.

(Example) Killing file ADDRESS on a disk.



① Press the kill keys (  +  ).

What is the name of the file you want to kill?

② Input "ADDRESS". (ADDRESS is the name of the file you want to kill.)

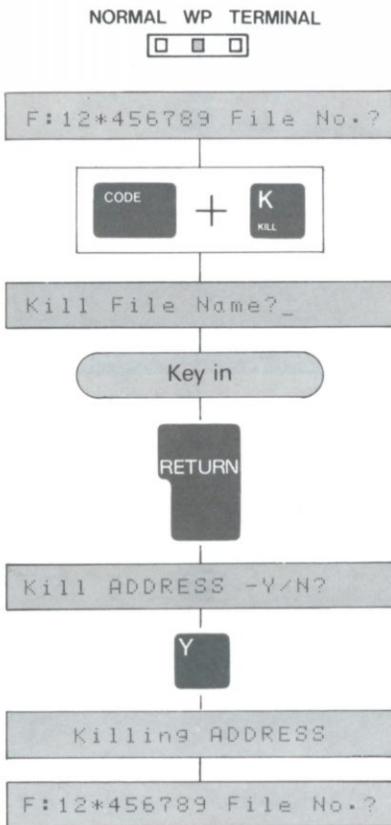
③ Press the return key (  ).

Is it OK to erase "ADDRESS" from the disk?

④ Press  .

Erases "ADDRESS" from the disk.

After erasing "ADDRESS", the first display reappears.



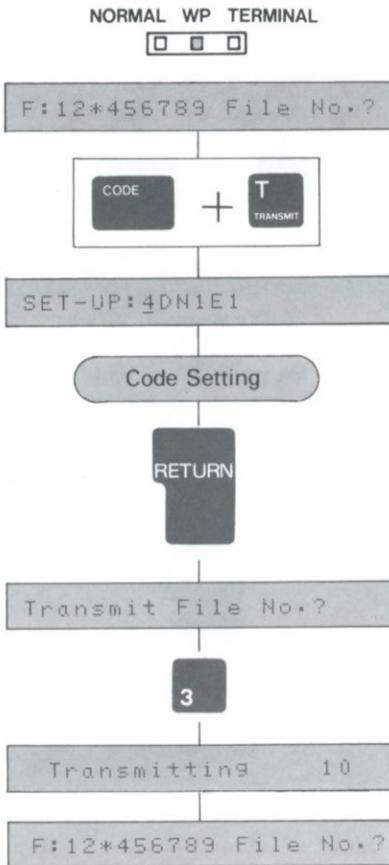
**Note: Optional Disk Is Not Available.**

## 13. File transmission

Transmits the contents of a file through the RS-232C standard interface in the WP mode.

### 13-1 Whole file transmission

(Example) Transmitting file No. 3.



- ① Press the transmit keys ( + ).

Please set the RS-232C code.

- ② Set the code. (Refer to page 50, 51.)

- ③ Transmission is possible by pressing the return key ( ) after setting the RS-232C code.

Which file do you want to transmit?

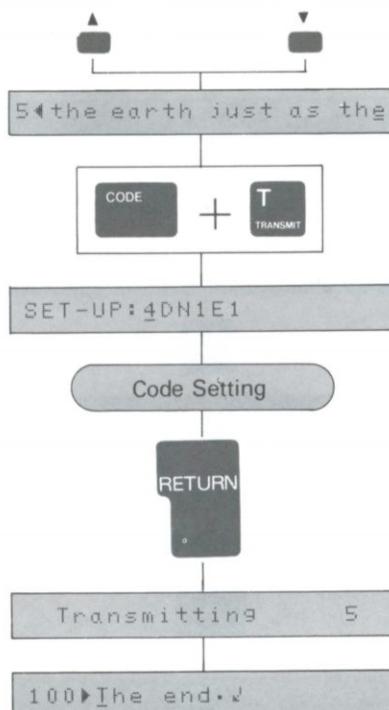
- ④ Press . (3 is the number of the file.)

Line numbers are displayed during transmission.

When transmission is finished, the first display reappears.

### 13-2 Transmission from the middle of a file

(Example) Transmitting from line 5 of file No. 1.



- ① Display line 5 by pressing the cursor up key ( ) or the cursor down key ( ).

- ② Press ( + ).

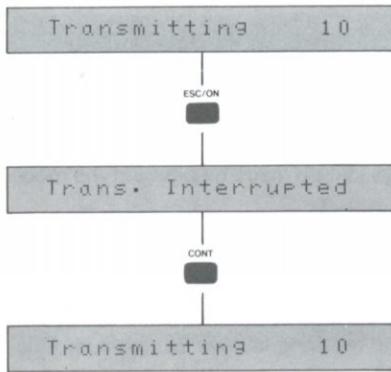
Please set the RS-232C code.

- ③ Set the code. (Refer to page 50, 51.)

- ④ Transmission is executed by pressing the return key ( ) after setting the RS-232C code.

Line numbers are displayed during transmission.

When transmission is finished, the last line of the file is displayed.



### 13-3 Temporary stop and resumption of transmitting.

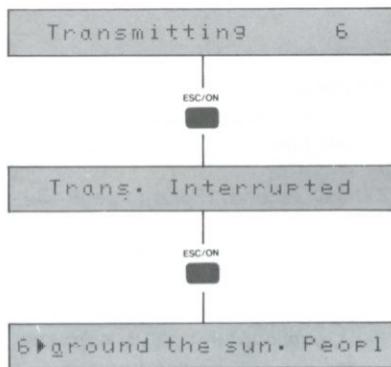
The number of the line which is being transmitted is displayed.

- ① Press the escape key (  ) during transmission.

This display appears and transmission is stopped temporarily.

- ② Press the continue key (  ).

Transmitting is resumed.



### 13-4 To stop transmitting

The number of the line which is being transmitted is displayed.

- ① Press the escape key (  ) during transmission.

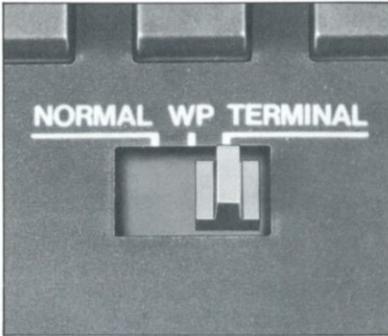
This display appears and transmitting is stopped.

- ② Press the escape key (  ) again.

Transmission is completely stopped and the last line which was transmitted is displayed.

Note: Superscript (  $\uparrow$  ), subscript (  $\downarrow$  ), automatic underline ON (  $\overline{\quad}$  ), and automatic underline OFF (  $\underline{\quad}$  ) are not transmitted.

## 1. Operation



- ① Set the mode selector to TERMINAL. "OFF LINE" will appear in the display.
  - ② At this time, data communication mode settings can be made by pressing the mode key ( ). (Refer to page 50.)  
The data communication mode can be set to adapt to the device model 600 is connected to.
- Note: If the memory is backed-up, the original setting will be retained, so that when the unit is used next time, it is not necessary to set the data communication mode again.
- ③ In the ON LINE mode, and in file transmitting and receiving, automatic power off function does not activate.

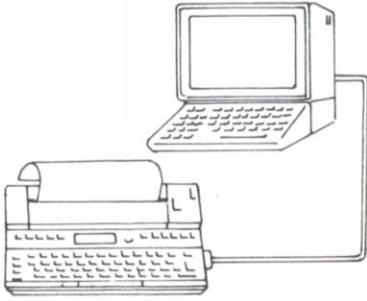
## 2. Function key guide

In the TERMINAL mode, the following keys can be used.

Key	Name	Function
	Exit key	•Outputs SPACE for 200 milli second. (Refer to page 53.)
	Escape key	•Stops printing and displays "OFF LINE". Data received while printer is stopped will be stored in the receive buffer. •When this key is depressed, almost all keys are disabled. Only the mode key (  ), continue key (  ), index key (  ), and reverse index key (  ) can be used.
	Continue key	•Cancels OFF LINE mode and changes to ON LINE mode which makes data communication possible.
	Mode key	•By pressing this key when "OFF LINE" is displayed, the data communication mode can be set. (Refer to page 50.)
	Print key	•A file is transmitted (In the ON LINE mode).
	Insert key	•Saves the received data into a file. (In the ON LINE mode)
 	Index key Reverse index key	•Advances or reverses the paper.
	Repeat key	•Repeats the action of the last key pressed. Valid keys: character keys, space bar (  ), tabulator key (  ), backspace key (  ), return key (  ), index key (  ), and reverse index key (  ). (Invalid are keys pressed with code key (  ).)
	Code key	•The control code 01H—1AH is transmitted when the code key is pressed with a character key A—Z at the same time, for example (  +  ). •When pressed at the same time with the cursor right key (  ), the cursor left key (  ), the cursor up key (  ), or the cursor down key (  ), the control code 1CH—1FH is transmitted. (Refer to page 59.)
	Others	•The control codes 1BH and 7FH are transmitted by pressing the margin release key (  ) and the delete key (  ). Instead of (  +  ), (  +  ), and (  +  ), by pressing the backspace key (  ), tabulator key (  ), and the return key (  ) respectively, the control codes 08H, 90H, and 0DH can be transmitted. (Refer to page 59.)

### 3. Usage

The following are typical applications of model 600.



#### 3-1 As a printer for a computer

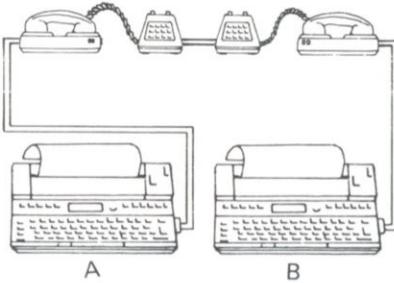
Model 600 can be used as a terminal and print out data transmitted from a connected computer.

- Character data

Character data received are shown in the display and printed out.

- Control codes

Eight codes which are valid in receiving, such as BEL, BS, and CR, can be accepted. Other codes are ignored. (Refer to page 59, control code.)



#### 3-2 Data communication with another data terminal

Model 600 can be connected with another model 600, with another data terminal receiver and with a model to transmit and receive data over telephone lines.

- All data input with valid keys are transmitted to the connected device.

Then on the input-side data are printed and displayed only when echo back is selected. (Refer to page 52.)

- Control codes 01H – 1FH and 7FH can be transmitted by pressing the code key and a character key at the same time, eg. (  CODE +  A ) or the six function keys, eg. (  ). (Refer to page 59, control codes.)

- A file is transmitted by pressing the print key (  PRINT ). (Refer to page 53.)

- Received data can be saved into a file by pressing the insert key (  INS ). (Refer to page 54.)

(Examples)

- If "How are you?" is input on the A side, "How are you?" is displayed and printed out on printer B side. Reciprocal data transmission and reception is possible.

If (  CODE +  M ) are pressed on the A side, the 0DH (CR) code is transmitted to the B side, and the CR action is performed on the B side.

#### 3-3 Transmitting data from model 600 to another printer

Data can be sent from model 600 to another printer and printed in a different type style.

- Input characters, the control code, and files are transmitted. (Refer to page 59, control code.)

## 4. Communication Mode Setting

“OFF LINE” is displayed when the mode selector is set to TERMINAL, or when the escape key (  ) is pressed in the TERMINAL mode. At this time, the communication mode setting can be made by pressing the mode key (  ).

### 4-1 Communication Mode Setting

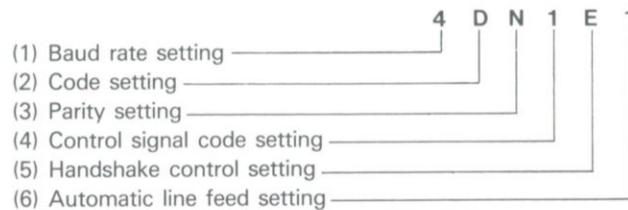
When the mode key is pressed, the display will appear as shown below.

SET-UP: 4DN1E1

Corrections can be made with the cursor.

For setting move the cursor with the cursor keys (   ), input the characters below, and press the return key (  ). Either capitals or lower-case letters can be used.

SET-UP: 4DN1E1 has the following content.



(1) Baud rate setting..... Set the speed of data transmission with a number from 1 to 6.

Number	1	2	3	4	5	6
Transmission speed (baud)	75	110	150	300	600	1200

(2) Code setting..... Select one of the five codes with A, B, C, D, and E as below. (Refer to pages 57, 58.)

- A: ASCII code table (data length 7 bit)
- B: English code table ① (data length 7 bit)
- C: English code table ② (data length 7 bit)
- D: International code table ① (data length 8 bit)
- E: International code table ② (data length 8 bit)

(3) Parity setting ..... Select a parity from N, O, E, and Z.

N	NONE parity (Parity bit is always 1.)
O	ODD parity
E	EVEN parity
Z	ZERO parity (Parity bit is always 0.)

Note: The parity setting can be only N when D or E is selected in code setting. So, when O, E, or Z is selected, “SET-UP ERROR” is displayed.

(4) Control signal code setting...The validity or invalidity of DR, CS, and CD signals can be set according to the number from 1 to 8.

	DR	CS	CD
1	○	○	○
2	○	○	×
3	○	×	○
4	○	×	×
5	×	○	○
6	×	○	×
7	×	×	○
8	×	×	×

o: Valid (When transmitting and receiving data, check the control signal condition.)  
(Refer to page 56.)

x: Invalid

(5) Handshake control setting:

If the receive buffer of model 600 becomes too full, it can no longer receive data sent from the other device. When the remaining buffer capacity becomes small a "busy" signal is sent to the other device to stop transmitting.

When model 600 is ready to accept data again, "busy" is cancelled.

The reverse is also true, if a busy signal is sent from the connected device, model 600 will stop transmitting, considering that the connected device cannot receive.

Transmission resumes after "busy" is cancelled.

It is by "handshaking" that the two devices control the flow of information between each others.

Busy...when there is less than 30 bytes remaining memory in the receive buffer.

Busy cancelled...when there is more than 128 bytes remaining memory in the receive buffer.

Handshake is set with the characters N, E, and Z.

N: Handshake is not performed.

E: This unit communicates the busy signal to the connected unit, through a signal line (pin 20, ER).

When busy...ER is turned OFF.

When busy is cancelled...ER is turned ON.

(When model 600 is connected to another model 600, ER of this unit and CS of another one are connected and it can be transmitted whether the condition of the receiving unit is "busy" or not.)

X: Control codes 11H and 13H are regarded as X<sub>ON</sub> and X<sub>OFF</sub> signals respectively.

When busy...X<sub>OFF</sub> signal is transmitted.

When busy is cancelled...X<sub>ON</sub> signal is transmitted.

When the above "X" is selected, this unit will accept the X<sub>ON</sub> and X<sub>OFF</sub> signals from another unit as a busy signal, and stop transmission.

(6) Automatic line feed setting ...By selecting either the number 1 or 2, the decision is made whether to have the automatic return operate by the CR code or not.

1: Carrier return with CR code only.

(Carrier is returned to the left margin and paper is advanced on receipt of CR only.)

2: Carrier return with CR + LF codes.

(In the case of CR code only, the only action performed is the return of the carrier to the left margin i.e. requires CR and LF received to perform line feed and carrier return.)

Note 1: The following is implied when files are transmitted.

1: When transmitting CR code in a file to the connected device, only CR code is transmitted.

2: When transmitting CR code in a file to the connected device, CR code and LF code are transmitted.

Note 2: Whatever the setting of 1 or 2, when the return key is pressed, only the CR code is transmitted.

When setting is finished and return key is pressed, the following display of the left margin setting appears.

## 4-2 Left Margin Setting

Sets the left margin of this unit.

```
Left Margin 0/5?
```

Select by pressing either key  or .

0: Sets one line at 80 characters.

5: Starts printing five spaces from the left side, and so sets one line at 75 characters.

Note: In either case, a tab stop is set at every eight character space interval from the left margin.

When the left margin is set, the following display of echo back selection appears.

## 4-3 Echo Back Selection

Selects whether to have characters which have been input displayed on this unit and printed or not during transmitting.

```
Echo-Y/N?
```

Select by pressing either key  (y) or  (n).

(y): When transmitting, there are the output to the display and the printer.

When transmitting a file from WP mode, there is no Echo Back.

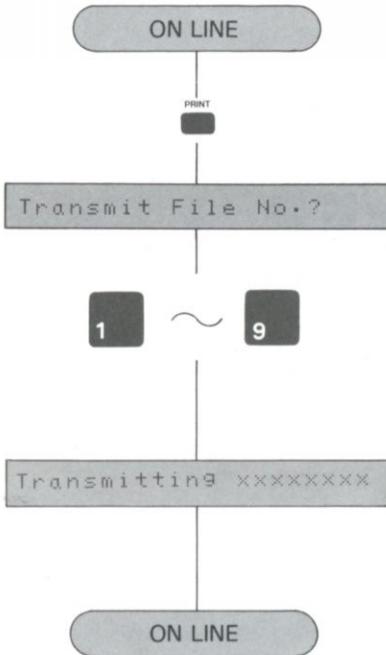
(n): When transmitting, there is no output to the display or the printer.

When selection of echo back is finished, the model 600 enters the ON LINE mode, and the cursor is displayed, and communication becomes possible. At this time, the content of the receive buffer is also cleared.

## 5. File Transmission

Transmits the contents of a file in TERMINAL mode.

### 5-1 File Transmission



① Press the print key (  ).

Which file number do you want to transmit?

② Select the file number by pressing one of keys  - .

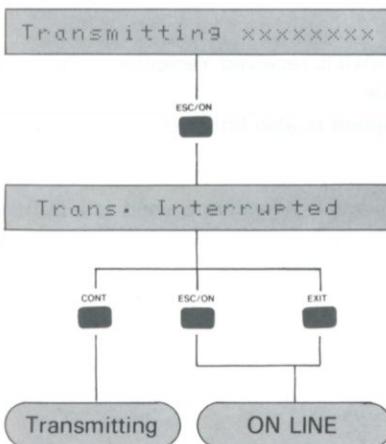
Note: When the file does not exist, "◀Fn NOT FOUND▶" (n is the file number) is displayed. By pressing the escape key (  ), the previous display appears again.

The file name is displayed in transmitting. (xxxxxxx is the file name)

Note 1: During file transmission key input on this unit is not accepted.

Note 2: During file transmission the data sent from the connected device can be received. The received data is printed-out but not displayed.

When transmitting is finished, the unit enters the ON LINE mode.



### 5-2 Stop Transmission

① Press the escape key (  ) during transmission.

This display appears and transmission is stopped.

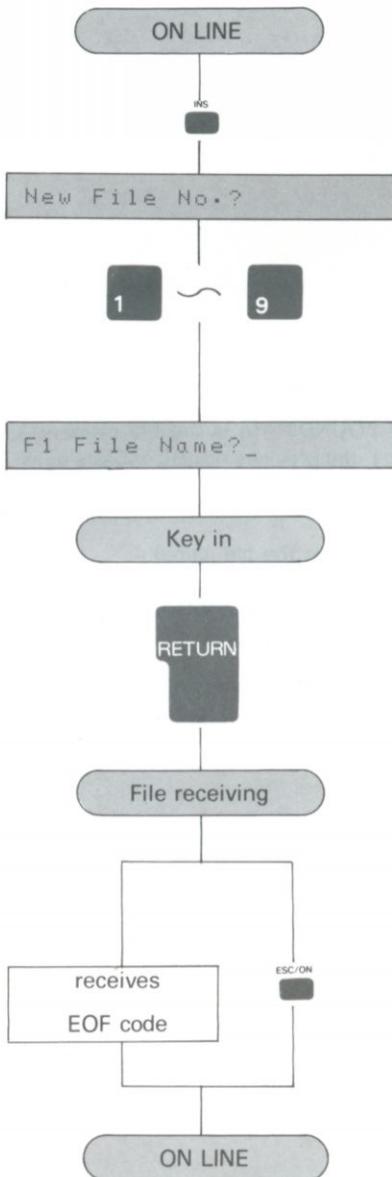
② Transmission is resumed by pressing the continue key (  ).

By pressing the escape key (  ) or the exit key (  ), transmitting is stopped completely and the unit enters the ON LINE mode.

Note: Superscript (  ), subscript (  ), automatic underline ON (  ), and automatic underline OFF (  ) are not transmitted.

## 6. File reception

Saves received data into a file in the TERMINAL mode.



- ① Press the insert key (  ).

Which number of the file do you want to save into?

- ② Select the file number by pressing one of keys  - .

Note: When the file you selected is occupied, "◀Fn ALREADY EXIST▶" is displayed. By pressing the escape key (  ), the previous display reappears.

What is the file name?

- ③ Name the file.

Note: When "◀SAME FILE NAME▶" is displayed, by pressing the escape key (  ), the previous display reappears.

- During reception, cursor position flashes.
- Received data is displayed and saved into a file but not printed-out.
- During reception, key input can be transmitted.

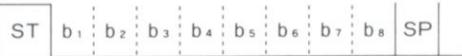
When echo back is selected, transmitted data is displayed and saved into the file in the same way as received data.

- ④ During reception, if EOF (End of File) code, (IAH) is received, reception is finished and the model 600 enters the ON LINE mode. When the escape key (  ) is pressed, reception is also finished.

Note: During reception all of the model 600's unoccupied memory is used as a buffer. Therefore, as data is input directly into a file the buffer size is reduced. 256 characters of memory space are always reserved for the buffer.

## 7. RS-232C Standard Interface

### 7-1 Basic Specification

Transmitting speed	75, 110, 150, 300, 600, 1200 (baud)
Synchronous system	Asynchronous
Communication control process	Full duplex, no procedure
Data length	7-bit + parity, or 8-bit (no parity)
Code	A: ASCII code table (data length 7 bit) B: English code table ① (data length 7 bit) C: English code table ② (data length 7 bit) D: International code table ① (data length 8 bit) E: International code table ② (data length 8 bit)
Parity	N...NONE parity (parity bit is always 1) O...ODD parity E...EVEN parity Z...ZERO parity (parity bit is always 0)
Data style	10 bits/character SPACE (0) MARK (1)   Start of character is the first shift (start bit) from MARK to SPACE. If without Line data, it is MARK mode.  ST...start bit b <sub>1</sub> —b <sub>7</sub> ...data bit (LBS is b <sub>1</sub> ) b <sub>8</sub> ...parity bit (MSB in 8-bit data) SP...stop bit
Error print	When a vertical parity error, framing error or overrun error occurs, ■ is printed.

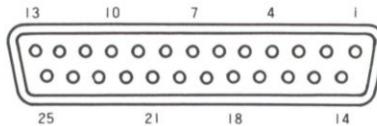
### 7-2 Signal Level

Data line (SD, RD) logic	Other control line logic	Receiving end voltage
SPACE (0)	ON	+3V and greater
MARK (1)	OFF	-3V and less

### 7-3 Connector and Pin Arrangements

Terminal number	Signal name	Code	model 600 ↔ Con- nected device	Function summary	Note
1	Frame Ground	FG	←→	Ground line for protection	
2	Send Data	SD	→	Data line sent from this unit to connected terminal	
3	Receive Data	RD	←	Data line sent from connected terminal to this unit	
4	Request to Send	RS	→	Controls transmission carrier. ON: carrier output OFF: carrier stop	Always ON in the TERMINAL mode
5	Clear to Send	CS	←	Controls data transmission. ON: data transmission possible OFF: data transmission not possible	Transmission is not performed when OFF.
6	Data set Ready	DR	←	Indicates condition of connected device. ON: transmission/reception possible at connected device OFF: transmission/reception not possible at connected device	Transmission or Reception are not performed when OFF.
7	Signal Ground	SG	←→	Provides basic ground potential.	
8	Carrier Detect	CD	←	Detects carrier. ON: receiving access signal OFF: not receiving access signal	Reception is not performed when OFF.
20	External Ready	ER	→	Indicates condition of this unit. ON: unit preparation completed OFF: unit preparation not completed	Can select to use as a busy signal or not. ON when not used.

ON : + V  
OFF : - V



RS-232C connector

## 8. Data Input

### 8-1 Code table

Select one of the following five code tables for the initial code setting.

SET-UP: 4DN1E1

- A: ASCII code table
- B: English code table ①
- C: English code table ②
- D: International code table ①
- E: International code table ②

A: ASCII code table

b <sub>7</sub> -----	0	0	0	0	1	1	1	1
b <sub>6</sub> -----	0	0	1	1	0	0	1	1
b <sub>5</sub> -----	0	1	0	1	0	1	0	1
b <sub>4</sub> b <sub>3</sub> b <sub>2</sub> b <sub>1</sub>	0	1	2	3	4	5	6	7
0 0 0 0	0		(SP)	0	@	P	`	p
0 0 0 1	1	XON	!	1	A	Q	a	q
0 0 1 0	2		"	2	B	R	b	r
0 0 1 1	3	XOFF	#	3	C	S	c	s
0 1 0 0	4		\$	4	D	T	d	t
0 1 0 1	5		%	5	E	U	e	u
0 1 1 0	6		&	6	F	V	f	v
0 1 1 1	7	BEL	'	7	G	W	g	w
1 0 0 0	8	BS	(	8	H	X	h	x
1 0 0 1	9	HT	)	9	I	Y	i	y
1 0 1 0	A	LF	*	:	J	Z	j	z
1 0 1 1	B		+	;	K	[	k	{
1 1 0 0	C		,	<	L	\	l	
1 1 0 1	D	CR	-	=	M	]	m	}
1 1 1 0	E		.	>	N	^	n	~
1 1 1 1	F		/	?	O	_	o	

B: English code table ①

b <sub>7</sub> -----	0	0	0	0	1	1	1	1
b <sub>6</sub> -----	0	0	1	1	0	0	1	1
b <sub>5</sub> -----	0	1	0	1	0	1	0	1
b <sub>4</sub> b <sub>3</sub> b <sub>2</sub> b <sub>1</sub>	0	1	2	3	4	5	6	7
0 0 0 0	0		(SP)	0	@	P	°	p
0 0 0 1	1	XON	!	1	A	Q	a	q
0 0 1 0	2		"	2	B	R	b	r
0 0 1 1	3	XOFF	#	3	C	S	c	s
0 1 0 0	4		\$	4	D	T	d	t
0 1 0 1	5		%	5	E	U	e	u
0 1 1 0	6		&	6	F	V	f	v
0 1 1 1	7	BEL	'	7	G	W	g	w
1 0 0 0	8	BS	(	8	H	X	h	x
1 0 0 1	9	HT	)	9	I	Y	i	y
1 0 1 0	A	LF	*	:	J	Z	j	z
1 0 1 1	B		+	;	K	[	k	{
1 1 0 0	C		,	<	L	±	l	
1 1 0 1	D	CR	-	=	M	]	m	¶
1 1 1 0	E		.	>	N	²	n	§
1 1 1 1	F		/	?	O	_	o	

C: English code table ② (the same as ASCII code table)

b <sub>7</sub> -----	0	0	0	0	1	1	1	1
b <sub>6</sub> -----	0	0	1	1	0	0	1	1
b <sub>5</sub> -----	0	1	0	1	0	1	0	1
b <sub>4</sub> b <sub>3</sub> b <sub>2</sub> b <sub>1</sub>	0	1	2	3	4	5	6	7
0 0 0 0	0		(SP)	0	@	P	`	p
0 0 0 1	1	XON	!	1	A	Q	a	q
0 0 1 0	2		"	2	B	R	b	r
0 0 1 1	3	XOFF	#	3	C	S	c	s
0 1 0 0	4		\$	4	D	T	d	t
0 1 0 1	5		%	5	E	U	e	u
0 1 1 0	6		&	6	F	V	f	v
0 1 1 1	7	BEL	'	7	G	W	g	w
1 0 0 0	8	BS	(	8	H	X	h	x
1 0 0 1	9	HT	)	9	I	Y	i	y
1 0 1 0	A	LF	*	:	J	Z	j	z
1 0 1 1	B		+	;	K	[	k	{
1 1 0 0	C		,	<	L	\	l	
1 1 0 1	D	CR	-	=	M	]	m	}
1 1 1 0	E		.	>	N	^	n	~
1 1 1 1	F		/	?	O	_	o	

© is printed by ESC+Y, (SP) by ESC+Z

D: International code table ① (used when connected to another model 600)

b8 -----	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
b7 -----	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1
b6 -----	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	1
b5 -----	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	1
b4 b3 b2 b1	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0 0 0 0	0		(SP)	0	@	P	'	p	Ç	É	á	Á	Ê	π			
0 0 0 1	1	XON	!	1	A	Q	a	q	ü	æ	í	À	Û	√			
0 0 1 0	2		"	2	B	R	b	r	é	Æ	ó	Â	Ü	±			
0 0 1 1	3	XOFF	#	3	C	S	c	s	â	ô	ú	Ã	Û				
0 1 0 0	4		\$	4	D	T	d	t	ä	ö	ñ	ä	°				
0 1 0 1	5		%	5	E	U	e	u	à	ò	Ñ	ÿ	°				
0 1 1 0	6		&	6	F	V	f	v	â	ù	ª	ÿ	°				
0 1 1 1	7	BEL	,	7	G	W	g	w	ç	ù	º	ÿ	°				
1 0 0 0	8	BS	(	8	H	X	h	x	ê	§	¸	ÿ	°				
1 0 0 1	9	HT	)	9	I	Y	i	y	ë	Ö	¸	ÿ	°				
1 0 1 0	A	LF	*	:	J	Z	j	z	è	Ü	¸	ÿ	°				
1 0 1 1	B		+	;	K	[	k	{	ï	é	½	ÿ	°				
1 1 0 0	C		,	<	L	\	l		î	£	¼	ÿ	°				
1 1 0 1	D	CR	-	=	M	]	m	}	ï	¥	¼	ÿ	°				
1 1 1 0	E		.	>	N	^	n	~	ÿ	Pt	¼	ÿ	°				
1 1 1 1	F		/	?	O	-	o	~	ÿ	f	¼	ÿ	°				

In the range from D3 to FF, the codes not defined are ignored.

E: International code table ②

b8 -----	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
b7 -----	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1	1
b6 -----	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	1
b5 -----	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	1
b4 b3 b2 b1	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	
0 0 0 0	0		SP	0	@	P	'	p	Ç	É	á						
0 0 0 1	1	XON	!	1	A	Q	a	q	ü	æ	í				B	±	
0 0 1 0	2		"	2	B	R	b	r	é	Æ	ó						
0 0 1 1	3	XOFF	#	3	C	S	c	s	â	ô	ú				π		
0 1 0 0	4		\$	4	D	T	d	t	ä	ö	ñ						
0 1 0 1	5		%	5	E	U	e	u	à	ò	Ñ						
0 1 1 0	6		&	6	F	V	f	v	â	ù	ª				μ	÷	
0 1 1 1	7	BEL	,	7	G	W	g	w	ç	ù	º						
1 0 0 0	8	BS	(	8	H	X	h	x	ê	§	¸					°	
1 0 0 1	9	HT	)	9	I	Y	i	y	ë	Ö	¸						
1 0 1 0	A	LF	*	:	J	Z	j	z	è	Ü	¸						
1 0 1 1	B		+	;	K	[	k	{	ï	é	½					√	
1 1 0 0	C		,	<	L	\	l		î	£	¼					°	
1 1 0 1	D	CR	-	=	M	]	m	}	ï	¥	¼					2	
1 1 1 0	E		.	>	N	^	n	~	ÿ	Pt	¼						
1 1 1 1	F		/	?	O	-	o	~	ÿ	f	¼						

In the range from B0 to FF, the codes not defined are ignored.

## 8-2 Control Codes

Code	Key operation	Action when received
00H	—	
01H	CODE + A	
02H	CODE + B	
03H	CODE + C	
04H	CODE + D	
05H	CODE + E	
06H	CODE + F	
07H	CODE + G	beep
08H	BS OR CODE + H	1 character backspace
09H	TAB OR CODE + I	Tab stop (8 character spaces)
0AH	CODE + J	Line Feed (Advances the paper 1 line)
0BH	CODE + K	
0CH	CODE + L	
0DH	RETURN OR CODE + M	Carrier Return
0EH	CODE + N	
0FH	CODE + O	
10H	CODE + P	
11H	CODE + Q	XON signal
12H	CODE + R	
13H	CODE + S	XOFF signal
14H	CODE + T	
15H	CODE + U	
16H	CODE + V	
17H	CODE + W	
18H	CODE + X	
19H	CODE + Y	
1AH	CODE + Z	EOF (End of File) code
1BH	MR L PAD	
1CH	CODE + ⬅	
1DH	CODE + ➡	
1EH	CODE + ⬆	
1FH	CODE + ⬇	
7FH	DEL	

Note: In the above table, codes without a defined function are ignored if they are received.

Layout Examples

Left margin (Refer to page 18.)

Right margin (Refer to page 18.)

December 10, 1984

Mr. John Doe  
Anytown 123-45  
Anycity,  
Anycountry

Dear Mr. Doe

Line indent (Refer to page 21.)

-----This letter form is in blocked form, one of the most common forms. All lines begin at the left margin except the date line and the closing lines, which begin at the center of the paper.

Yours very truly,  
NAGOYA TRADING CO.  
Salesman

Right margin flush (Refer to page 20.)

Paragraph indent (Refer to page 22.)

Tab stop

Centering (Refer to page 21.)

DEPARTMENT BUDGET

	1984 Actual	1985 Plan
Salaries	\$116,540.00	\$133,000.00
Travel	4,006.18	4,675.00
Telephone	665.89	700.00
Stationery	295.38	250.00
Printing	1,050.00	758.00
Meeting	1,675.87	1,850.00
Subscription	98.87	84.00
Miscellaneous	<u>567.22</u>	<u>650.00</u>

Automatic underline (Refer to page 23.)

Decimal tab (Refer to page 19.)

Decimal tab (Refer to page 19.)

Superscript (Refer to page 23.)

H<sub>2</sub>O

10<sup>2</sup> = 100

Subscript (Refer to page 23.)

## Error message List

The error message disappears by pressing the escape key (  ).

### (1) Concerning model 600

Display	Contents	Case
◀Fn NOT FOUND▶ (n: file number)	The indicated file does not exist.	Copy Delete Join Save Print key Transmit TERMINAL
◀Fn ALREADY EXIST▶ (n: file number)	The selected file is occupied.	TERMINAL
◀SAME FILE NAME▶	There is a file with the same name.	When naming or changing a file name. Copy Save Load TERMINAL
◀SAME FILE NO.▶	The indicated file number is the same.	Copy Join
◀LINE nnnnn NOT FOUND▶ (nnnn: line number)	The indicated line (the first line when lines are indicated) does not exist.	Copy Delete
◀LINE RANGE ERROR▶	The indicated range of lines is not proper.	Copy Delete
◀xxxxxxxxxxx NOT FOUND▶ (xxx: word)	The indicated word does not exist in the file.	Find Replace
◀SET-UP ERROR▶	The communication mode setting is not properly set.	Transmit TERMINAL
◀MEMORY FULL▶	The memory is full.	Preparing, editing and appending text Copy Join Load Replace TERMINAL

(2) Concerning the optional disk

Display	Contents	Case
◀FILE NAME ERROR▶	Only the space was input when naming a file.	Save Load
◀XXXXXXXXXX NOT FOUND▶ (xxx: file name)	The indicated file does not exist in the disk.	Kill Load
◀DISK I/O ERROR▶	Disk drive error.	When using optional disk
◀BAD DISK▶	The disk is wrong.	When using optional disk
◀DISK NOT ATTACHED▶	The disk is not inserted. The disk drive is not connected to model 600.	When using optional disk
◀DISK PROTECTED▶	The disk is protected.	When using optional disk
◀TOO MANY FILES▶	The number of files in the disk is over 40.	Save
◀DISK FULL▶	Available memory capacity in the disk is insufficient.	Save

**Note: Optional Disk Is Not Available.**

**Precautions! Please carefully note the following for longer printer service life.**

- 1) Do not clean the printer, cover, or keys with alcohol, thinner or other organic solvents as they may damage the printer. Periodically wipe the printer with a dry cloth.
- 2) Do not drop paper clips or other metal objects into model 600 as they may cause serious damage to the printer.
- 3) Do not use the printer in areas exposed to high heat or humidity, in areas with excessive dust, in direct sunlight, or rain.
- 4) Be sure to always replace the cover when the printer is not used.
- 5) If the printer is not used for extended periods of time, if the memory back-up function is not used, or if the AC adaptor is used for extended periods, remove the batteries to prevent possible damage to the printer from battery leakage or corrosion.
- 6) If the printer is not used for extended periods of time, disconnect the AC adaptor from both the wall outlet and this unit's jack.

## SPECIFICATIONS

No. of keys	44
Printing speed	16 characters/sec.
Paper width	9.9" maximum
Printing width	8.1" maximum
No. of characters/line	80
Printing method	24 x 18 thermal-dot matrix
Ribbon	Cassette (approx. 40,000 characters)
Display	24-digit LCD (7 x 5 dot matrix)
Paper	Smooth plain, or thermal
Power source	4 size-D dry cell batteries, or AC current with AC adaptor
Dimensions	13.6" (W) x 11.0" (D) x 2.3" (H)
Weight	6.4 lb (incl. batteries)
Interface	Comforms to RS-232C

Specifications are subject to change without notice.

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# ACCESSORY LIST

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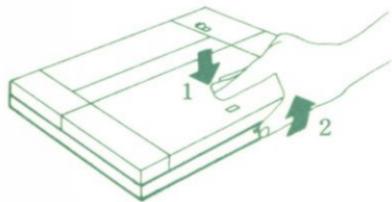
Part Number	Description
6200	Plain Paper (500 Sheets)
6400	Black Thermal Paper (200 Sheets)
6030	Cassette Ribbon (3 Pack)
6650	Roll Paper Holder (Black)
6700	Roll Plain Paper (100 Feet)
6800	Roll Black Thermal Paper (100 Feet)
6900	Soft Carrying Case
7000	Modem for WP-600
8000	Acoustic Coupler for WP-600

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## ■ Ordering Information

In United States call 1-800-225-0234 (Wang Express Product).

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②



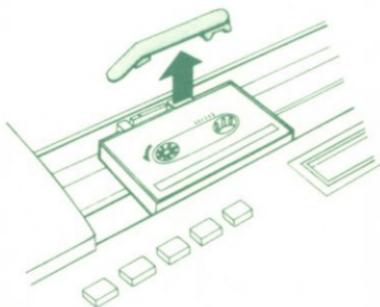
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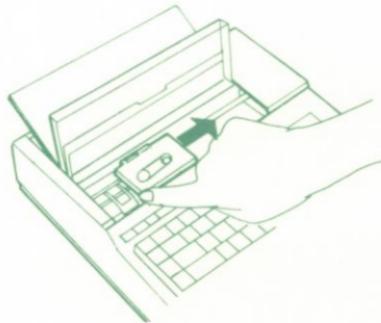
④



⑤



⑥



⑦

