Instruction Manual

Designs and specifications are subject to change without notice.
PARTS DESCRIPTION

- TOP COVER
- PLATEN
- POWER SWITCH
- PRINT CARRIER
- PRINT BAIL
- PRINT COVER
- PLATE FUNCTION
- KEYBOARD
- PAPER RELEASE LEVER
- POWER SWITCH
- PRINT WHEEL
- PRINT WHEEL RELEASE LEVER
- PRINT WHEEL COVER
- RIBBON GUIDE
- PRINT HAMMER
- BRACKET RIBBON
- CORRECTION TAPE
KEYBOARD LAYOUT

(*) is 'CODE FUNCTION'. Hold down the 'CODE' key and press the appropriate key to activate these functions.
CONNECT POWER

Power cord is located in the compartment located at the rear of the typewriter. And the power switch is located on the right side of typewriter near the rear.

1) Pull down the rear compartment door and connect the power cord to a proper AC outlet.
2) Push the power switch to the “I” position.
   When the typewriter is switched on, the green LED on the keyboard will light up. The carrier will move to the extreme left of the typewriter then advance to the left margin. The unit is now ready for typing.

★ NOTE: The Socket-outlet shall be installed near the equipment and shall be easily accessible.

Setting
When you open the printcover to change the RIBBON, DAISYWHEEL, CORRECTION TAPE or other reasons, and if you want to re-initialize your typewriter, press the CODE + = (SETTING) key.

1) Open the printcover and change the RIBBON, DAISYWHEEL or CORRECTION TAPE. Close the printcover.
2) Press the CODE + = (SETTING) key, the typewriter will then initialize itself. All memories and carrier position will be maintained.
CHANGING

Changing The Ribbon Cassette
1) Move the print carrier to the center of the platen using the SPACE or BS key.
2) Hold the ribbon cassette on both sides and lift up the front portion (where the ribbon is exposed) to remove the cassette.
3) To insert a new cassette, place the back end of the cassette on the cassette holder on the carrier and gently press down on the front of the cassette unit it clicks into place.
4) Turn the ribbon feed knob counter-clockwise again to take up any slack in the ribbon.
5) Press the CODE + = (SETTING) key.

Changing The Print Wheel
1) Move the print carrier to the center of the platen using the SPACE or BS key.
2) You will see a lever on the right side of the carrier. Pull this lever toward you and lift out the daisy wheel.
3) Place the daisy wheel into the slot with the characters facing the platen.
4) Push the lever back into position.
5) Press the CODE + = (SETTING) key.
Changing The Correction Tape

1) Move the print carrier to the center of the platen using the [SPACE] or [BS] key.

2) To replace the correction tape, lift out the typing ribbon cassette (see Changing The Ribbon Cassette) and remove the two spools of the lift off tape by pulling them outwards.

3) Place the empty spool of new tape on the left pin so that the tape winds clockwise. Place the tape around the left guide. Pull the tape around the right guide and place the loaded spool on the right pin so that the tape unwinds counter-clockwise.

★ Make sure the sticky side of the tape is facing the platen.

4) Manually turn the left-hand spool in the clockwise direction, tightening the tape until resistance is felt.

5) Replace the typing ribbon cassette.

6) Press the [CODE] + [-] (SETTING) key.
BASIC FEATURES

Selecting Pitch
There are three pitches available for typing:
- PICA (10) : 10 characters per inch  [CODE] + 6
- ELITE (12) : 12 characters per inch  [CODE] + 7
- MICRO (15) : 15 characters per inch  [CODE] + 8

Selecting Line Spacing
There are three line spacing settings available when the appropriate key is depressed.
- Single line spacing  [CODE] + 3
- 1 1/2 line spacing  [CODE] + 4
- Double line spacing  [CODE] + 5

Setting Impression
You can choose one of two hammer impression levels - low, high.
The [CODE] + 2 (IMP) key is used to set the impression level.
The low key is selected initially.

Setting Margins
You may freely adjust the margins. The minimum distance between the left and right margin is one inch.
- Left Margin
  Move the carrier to the desired position and press the  [MAR L] key.

- Right Margin
  Move the carrier to the desired position and press the [CODE] + [MAR R] key.

- Margin Release
  To move the carrier or type a character beyond margins, press the [CODE] + 1 (MARGIN RELEASE) key.

- Hot Zone
  The hot zone starts six (6) spaces before the right margin. A beep will sound when the hot zone is reached.
Shift and Shift Lock
To type uppercase characters or symbols, press either the left or right \texttt{SHIFT} key.
For continuous uppercase typing, press the \texttt{LOCK} key. To release the shift lock, press the \texttt{SHIFT} key.

Caps Lock
To type the uppercase characters or lowercase symbols continuously, press the \texttt{CODE} + \texttt{CAPS} key. To release the caps lock mode, press the \texttt{CODE} + \texttt{CAPS} key again.

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Special Characters
To type the special characters marked blue, press and hold down the \texttt{CODE} key and press the desired key.

Space
To move the carrier forward one space, press the \texttt{SPACE} bar.

Backspacing
There are three different backspace features.

- Backspace
To move the carrier one space backward, press the \texttt{BS} key.

- Half Backspace
To move the carrier backward by a half a space, press the \texttt{CODE} + \texttt{1/2BS} key.

- Express
To quickly move the carrier to the left margin, press the \texttt{CODE} + \texttt{EXPR} key.

Return
To return the carrier to the left margin and feed paper one space, press the \texttt{RETURN} key.
Automatic Return
In auto return mode, the carrier will return automatically every time the SPACE bar or the HYPHEN key is pressed in the hot zone.
To activate auto return, press the CODE + AUTO key.
And to cancel auto return, press the CODE + AUTO key again.

Index & Reverse Index
To move the paper up by half a space, press the INDEX key.
To move the paper down by half a space, press the CODE + REV INDEX key.

RELATED TO THE CORRECTION MEMORY
Your typewriter has a one line correction memory. This allows you to automatically correct characters on the current line.

Correcting One Character
To correct the last typed character, press the key. Then the carrier will be backspaced and the character will be erased.
To correct a character printed at any position on the current line, move the carrier to the character to be corrected and press the key.

Manual Correction
To correct a character beyond the correction memory,
1) Move the carrier to the position on the character which is to be erased.
2) Press the key.
3) Type the incorrect character.

Word Correction
Move the carrier to the end or next space position of the word to be corrected, and press the CODE + WORD key. The word is then erased.

★ If you want to correct a bold printed character or underlined character, you should set the bold or underline MODE before the correction.

Relocation
Press the RELOC key to bring the carrier to the one space after the last typed character.
OTHER FEATURES

Tab
To set a tab, move the carrier to the desired position and press the \texttt{TAB S} key. To clear a tab, move the carrier to the tab position to be cleared and press the \texttt{CODE + TAB C} key. To clear all tab position, press the \texttt{CODE + TAB C} key for half a second.

Centering
Your typewriter allows you to automatically center a line.
1) Press the \texttt{CODE + 9} (CENTER) key. The carrier will move to the center position between the left and right margins.
2) Type the text. The carrier will be backspaced half a space.
3) To print the text, press the \texttt{RETURN}, \texttt{TAB} or \texttt{CODE + DEC TAB} key.
4) To cancel centering mode, press the \texttt{RELOC} key.
* If you make a mistake, press the \texttt{X} or \texttt{CODE + WORD} key. Pressing the \texttt{CODE + WORD} key will erase the whole line and move the carrier to the center position.

Decimal Tab
Decimal tab allows you to align numbers by decimal point at the tab position.
1) Press the \texttt{CODE + DEC TAB} key. The carrier will move to the next tab position.
2) Type the text. The carrier will be backspaced one space.
3) When the decimal point (.) is typed, the text will be printed out with the decimal point.
4) To print the text, press the \texttt{RETURN}, \texttt{TAB} or \texttt{CODE + DEC TAB} key.
5) To cancel the decimal tab mode, press the \texttt{RELOC} key.
* If you make a mistake, press the \texttt{X} or \texttt{CODE + WORD} key. Pressing the \texttt{CODE + WORD} key will erase the whole line and move the carrier to the position where DECIMAL TAB mode is entered.
Right Margin Flush
Your typewriter can automatically print the text flush with the right margin.
1) Press the `CODE + 0` (RMF) key.
   The carrier will move to the right margin.
2) Type the text. The carrier will be backspaced one space.
3) To print the text, press the `RETURN`, `TAB` or `CODE + DEC TAB` key.
4) To cancel the right margin flush mode, press the `RELOC` key.
   * If you make a mistake, press the `<X>` or `CODE + WORD` key.
     Pressing the `CODE + WORD` key will erase the whole line and move the carrier to the right margin.

Justification
Justification allows you to print the text aligned with both the left and right margin.
1) Press the `CODE -` (JUST) key.
2) Type the text.
3) If the `SPACE` bar or `HYPHEN` key is typed in the hot zone, the text is justified and printed out.
   * Pressing the `RETURN` or `TAB` key prints the text, but does not align it with the right margin.
4) To cancel the JUST mode, press the `CODE -` (JUST) key again.
   * If you make a mistake, press the `<X>` or `CODE + WORD` key.
     Pressing the `CODE + WORD` key will erase the whole line and move the carrier to the position where JUST mode is entered.

Indent Margin
This function allows you to set a temporary (indent) left margin.
To set the indent margin, move the carrier to indented position and press the `INDENT` key.
To cancel the indent margin, press the `CODE + CLR IND` key.
Underlining
In this mode, all characters will be automatically underlined.

• Continuous Underline
To activate, press the CODE + U key.
All text will be automatically underlined.
To cancel, press the CODE + U key again.

• Word Underline
To activate, press the CODE + W key.
All text, except spaces will be underlined.
To cancel, press the CODE + W key again.

Bold Printing
To activate, press the CODE + B key.
All characters will be highlighted.
To cancel, press the CODE + B key again.

** OPTIONAL SPELLCHECK OPERATION
Your typewriter offers an optional spellcheck. Spellcheck has a 50,000 word dictionary that allows you to check your documents for errors in spelling, abbreviation and capitalization.
Spellcheck is activated when you depress CODE + S, if you have the spellcheck board installed.
When an unrecognized word is typed, spellcheck beeps to alert you to the error.
Spell-check identifies a group of letters as a completed word immediately followed by a space, return, tab, comma, index or reverse index.
The one line correction memory allows you to correct previously typed words on the same line by using the backspace key.
TROUBLE SHOOTING

If any operating difficulties arise, check the list below before returning your typewriter for service.

1. Typewriter remains at a stand with the power switch set to on.
   - Make sure the power cord is still plugged in.

2. Printing is faint or does not appear
   - Be sure the printwheel and ribbon cassette have been properly installed.
   - Check positioning of the ribbon cassette.
   - Make sure the ribbon has not been fully used.

3. Corrections cannot be made
   - Check to make sure the correction tape has been properly installed.
   - Make sure the correction tape has not been fully used.
   - Make sure the correction tape has been properly selected.

MAINTENANCE

We recommend that your typewriter be adjusted, serviced, and lubricated by a qualified service technician at least once a year. If you need help, contact your local dealer for checking your machine.

*NOTE: For best performances, try to use only standard supplies from your dealer. The use of non-standard supplies including Ribbons, Correction Tapes and Print Wheels, may cause poor performance or damage to your typewriter.

- Please, store your typewriter in a location protected from extreme temperatures and humidity.
- Be sure to unplug the typewriter before cleaning and lifting it.
- If you’d like to clean your typewriter, use a mild soap to remove stains. Never use detergents, volatile liquids, treated cloths, harsh cleaning agents or sprays.
- Never attempt to disassemble your typewriter by yourself. Repairs should only be made by an authorized service technician.
**SPECIFICATION**

- **PAPER WIDTH** 12” (305mm)
- **PRINTING WIDTH** 9” (229mm)
- **DAISY WHEEL** 100 spokes
- **PRINTING SPEED** up to 12 cps
- **PRINTING PITCH** 10, 12, 15
- **LINE SPACE** 1, 1 1/2, 2
- **CORRECTION MEMORY** 1 line
- **TAB BUFFER** 16 stops
- **DIMENSION** 390mm (W)
  
  370mm (D)
  
  120mm (H)

- **WEIGHT** 5 kg
- **OPTIONAL SPELLCHECK** 50,000 words (For USA, UK)
- **POWER REQUIREMENTS**
  
  AC 120V (5 10%) 60 Hz
  
  AC 220V (5 10%) 50 Hz
  
  AC 230V (5 10%) 50 Hz
  
  AC 240V (5 10%) 50 Hz
  
  AC 220V (5 10%) 60 Hz

*NOTE:* The power source is adjusted by manufacturer according to the power regulation of final destination.

*NOTE:* POWER CORD (New Zealand only)

If the electrical supply cord of this typewriter is damaged, it must be replaced by the special cord SP-502.