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General Maintenance

- 1) Do not use or leave the calculator under direct sunlight. Areas subject to rapid temperature changes, high humidity, dust and dirt should also be avoided.
- 2) Use a dry cloth to clean the casing of the unit. Do not use water or detergents.
- 3) Activate the printer only when the paper roll is loaded.
- 4) Avoid using the calculator in places where there are iron filings, as this may affect the electrical circuits of the calculator.
- 5) Do not place anything on top of the machine, particularly on top of the printer mechanism.
- 6) Turn the calculator off before removing the plug from the electrical outlet.
- 7) In case of electrical fault (i.e. smoke), disconnect the plug from the electrical socket-outlet immediately. The socket-outlet shall be installed near the equipment and shall be easily accessible.
- 8) The socket outlet should be near to the equipment and easily accessible.

Decimal Point Selector Switch



: Used for designating the decimal point position (+ 3 2 1 0 F) for calculated results.



+ (Add-Mode) : Addition and subtraction functions are performed with an automatic 2-digit decimal. It is convenient for currency calculations.



F (Floating Decimal Point) : All effective numbers up to 10 digits (P29-D IV) or 12 digits (P39-D IV) are printed or displayed.

Rounding Switch



: Used for round-off [5/4] or round-down [↓] to the Pre-selected decimal digits in the result.

Identifying Printouts

Used in the following cases:

- 1) Non-add function (#)
To print out figures which do not affect the calculation such as dates and serial numbers. Figures are printed on the left-hand side of the paper. Used for printing dates, code numbers and voucher numbers, etc.
- 2) Subtotal (◇) or Total Reprint (#) function
To print out an intermediate result (subtotal function).
To reprint a calculation result on the left-hand side of the paper for easy reference (total reprint function).

Using the Memory

Accumulating/Storing numbers in the memory

How to accumulate/store numbers that are displayed:

The entered number or the calculation result will be accumulated in the memory by pressing the $\overline{M+}$ or $\overline{M-}$ key. $\overline{M-}$ key reverse the sign of a number from "+" to "-" or from "-" to "+" before accumulating it in the memory. When the $\overline{AM MU \%}$ switch is set at "AM" position, entered number will be automatically accumulated in the memory register by pressing the $\overline{M+}$ key.

How to accumulate/store numbers automatically as the result is being obtained:

On completion of calculation, instead of pressing the $\overline{M+}$, press the $\overline{M+}$ or $\overline{M-}$ key to automatically accumulate/store the results in the memory register. When the $\overline{M-}$ key is pressed, the "+" sign of a positive number accumulated/stored in the memory is changed to "-"; and vice versa a negative sign will be changed into "+".

When the $\overline{AM MU \%}$ switch is set at "AM" position, calculated results will be automatically accumulated in the memory register by pressing the $\overline{M+}$ key.

Recalling and Clearing the Memory

The intermediate results in the memory can be recalled by the \square_T or \square_S key. When the \square_T key is pressed, the memory will be printed and at the same time the memory contents will be cleared. The \square_S key will not clear the memory contents.

Mark-up/down Calculations

To perform mark-up or mark-down calculations:

Set the $\square_{AM\ MU\ \%}$ switch to MU. Then, enter the percentage of mark-up or mark-down expressed as a whole number. If you want to compute mark-up, press $\square_{M\pm}$, or if you want to compute mark-down, press $\square_{M\bar{\pm}}$. After entering the price you want to compute, press \square_{\times} . The calculator automatically computes the new price based on the amount of mark-up or mark-down you entered. Press \square_T key to clear memory contents before entering the percentage of mark-up or mark-down.

Percentage Memory Calculations

To add or subtract a percentage from an addition or subtraction result:

Set the $\square_{AM\ MU\ \%}$ switch to $\% \pm$ then, enter the percentage you want to subtract or add expressed as a whole number. If you want to add the percentage to the result press $\square_{M\pm}$, or if you want to subtract the percentage from the result, press $\square_{M\bar{\pm}}$. After entering the numbers you want to compute, press \square_{\times} . The calculator automatically adds or subtracts from the result the percentage you entered. Press \square_T key to clear memory contents before entering the percentage you want to subtract or add.

Item Count Switch



: At "n+" or "n+/-" position, the calculator count and print the number of calculation items up to 999.

< ITEM COUNTER >

When the "ITEM" switch is set at "n+", the calculator counts the number of times the \square_{+} and \square_{-} keys are pressed.





When the switch is set at "n+/-", the calculator counts the number of times the \square_{+} key is pressed and subtracts from the total numbers of times the \square_{-} key is pressed.

< MEMORY ITEM COUNT >

When the "ITEM" switch is set at "n+", the calculator counts number of times $\square_{M\pm}$ and $\square_{M\bar{\pm}}$ keys are pressed.


When the switch is set at "n+/-", the calculator counts the number of times the $\square_{M\bar{\pm}}$ key is pressed and subtracts from the total number of times the $\square_{M\pm}$ key is pressed.

< PRINTOUT OF ITEM COUNT >

When the PRINT switch is turned "ON", and the "ITEM" switch is at the "n+" or "n+/-" position, the number of items recorded by the counter can print up to three digits on the left-hand side of the paper by pressing either the  key or the  key for item count and  key or  key for memory item count.

Memory / Currency Conversion Selection Switch

Memory Calculation

Set the  switch to "MEM. PRINT ON" position to perform calculation using memory and basic calculation function.




— Entries and result will appear on the display but will not be printed out.



— Entries and result will appear on the display and printout.

Currency Conversion Calculation
























Set the  switch to "CONV. PRINT ON" position to perform currency conversion and basic calculation function.



— Entries and result will appear on the display but will not be printed out.



— Entries and result will appear on the display and printout.

-  **SET**  or  — Press **SET** and hold for 1 second, then enter the currency conversion rate and press  or  to store the rate.
-   or  — Press   or  to recall the stored currency conversion rate.
-  — Press  to convert currency figure displayed from  or  to the .
-  or  — Press  or  to convert displayed figure from  to  or .

*1 Specifying the Number of Decimal Places for Intermediate Local Currency Amounts.

When you convert from one national currency to another, the calculator internally converts the original currency to Local currency. This conversion result is the "intermediate Local currency amount". Next, the intermediate Local currency amount is converted to the target currency. The flow of the steps of the conversions will be shown on the printout.

For such a calculation, you should use the following procedure to specify the number of decimal places for the intermediate Local currency amount. You can specify from 0 (*2) to 9 decimal places, for a floating decimal point (F). The intermediate Local currency amount is rounded off to the number of decimal places you specify.

*2 0 is displayed when F (floating point) is set for the number of decimal places. F is the initial default setting.

- For rates of 1 or greater, you can input up to six digits. For rates less than 1 you can input up to 8 digits, including 0 for the integer digit and leading zeros (though only six significant digits, counted from the left and starting with the first non-zero digit, can be specified).

Overflow Function

In the following cases, " ← " is displayed and "E" will be printed. The keyboard is electronically locked, and further operation is impossible. Press **[C]** to clear the overflow. The overflow function occurs when:

1. The result or the memory content exceeds 10 digits (P29-D IV) or 12 digits (P39-D IV) to the left of the decimal point.
 2. Dividing by "0".
 3. The sequential operation speed is faster than the calculation processing speed. (Buffer Register Overflow)
- Electromagnetic interference or electrostatic discharge may cause either the display or the printer to malfunction, a printer error lock, or the contents of the memory to be lost or altered. Should this occur, press the **[C]** key or turn the power slide switch off and then turn it on again to restart the calculation from the beginning.

Specifications

Operation Temperature: 0°C to 40°C (32°F to 104°F)

Dimension: 207 mm (W) x 300 mm (L) x 76 mm (H) /
8-5/32" (W) x 11-13/16" (L) x 3" (H)

Weight: 1.65 kg (3 lb 6 oz)

Power source: AC 220 V ~ AC 240 V 50/60 Hz

(Subject to change without notice)

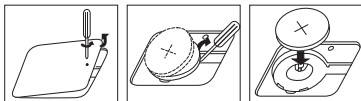
Backup Battery

Memory backup battery retains the currency conversion rate, even if the power is off or the AC cord is disconnected.

Battery : 1 Lithium Battery (Type : CR 2032)

Battery life : Back up time 2 years.

Caution: Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the instruction.

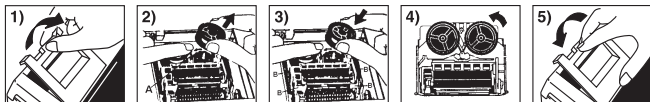


Replacing The Ink Ribbon


Note: Turn the power switch off.

- 1) Lift up the tab on the back-side of the printer cover, and then remove the cover. (Figure 1)
- 2) While pinching together the ribbon lock (A) in the direction of arrow, lift ribbon spools off the shafts. Discard the old ribbon and spools. (Figure 2)
- 3) Separate the spools of new ribbon between the tape and printer head. Guide it around the four positions of the ribbon guide (B) and place the spools on the shafts. (Figure 3)
- 4) When the ribbon spools have settled, release the ribbon locks. If necessary, rotate the spools until the pegs on the button of the spool seat themselves in the holes of the spool holder. (Figure 4)
- 5) Rotate either spool to take up any ribbon slack, making sure that the ribbon is positioned around the four ribbon guides. Replace the printer cover. (Figure 5)

IMPORTANT: Use only the same type of ribbon spools.



Inserting Printing Paper

- 1) Install the paper holders by lowering them so that their hooks fit firmly onto the rear housing of the calculator. (Figure 6)
- 2) Put the new paper roll in the paper holder, slightly opening the paper holders in the ← direction as indicated in Figure 7. The edge of the paper should be directed as shown by the arrow.
- 3) Insert the edge of the paper firmly into the slot behind the arrow. (Figure 8)
- 4) Press the  key to advance the paper. (Figure 9)

